

U.S. Department
of Transportation

800 Independence Ave., S.W.
Washington, D.C. 20591

**Federal Aviation
Administration**

Transmittal Letter 15-06

January 30, 2015

**PREPARED BY THE PRODUCT SUPPORT GROUP, AJV-34
(AVAILABLE ON THE WEB AT [HTTP://NFDC.FAA.GOV](http://NFDC.FAA.GOV))**

**The enclosed Standard Instrument Approach Procedures, Departure
Procedures/Takeoff Minimums and Fix Actions are effective as indicated.**

**The following are corrected copies of procedures previously published in TL 15-03 on
December 19, 2014, and TL 15-05 on January 16, 2015.**

Oakland, CA, Metropolitan Oakland Intl, ILS OR LOC RWY 12, ILS RWY 12 (SA CAT I),
Amdt 8
San Francisco, CA, San Francisco Intl, RNAV (GPS) RWY 28L, Amdt 5

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29							Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.						
TERMINAL ROUTES														MISSED APPROACH						
FROM				TO			COURSE AND DISTANCE				ALTITUDE			ILS: DA LOC: 5.95 MILES AFTER PLAZA INT/OAK 6.45 DME						
RAIDR (IAF)				ALCAT (FB)			138.35 / 12.40				2900			CLIMB ON HEADING 115.99 AND ON OAK VORTAC R-131 TO CROSS HISIS/OAK 2.77 DME AT OR BELOW 1600 THEN CLIMB TO 5100 ON HEADING 090 AND ON OAK VORTAC R-114 TO DECOT INT/OAK 11.00 DME/RADAR AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5100, OR AS DIRECTED BY ATC. (SEE FORM 8260-10)						
ALCAT INT/OAK 12.53 DME (IF)				PLAZA INT/OAK 6.45 DME			115.99 / 6.10 (I-AAZ)				1800									
THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 15-03														ADDITIONAL FLIGHT DATA: HOLD SE, LT, 293.73 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING HOLD E, SJC VOR/DME, LT, 286.00 INBOUND FAS OBST: 208 SHIP 374500N/1221700W CHART IN PLANVIEW: SJC VOR/DME. CHART CIRCLING ICON. CHART MAXIMUM 1600 AT HISIS. CHART MANDATORY 1800 AT PLAZA. CHART MANDATORY 5000 AT RAIDR.						
1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)														MAG VAR: 14E EPOCH YEAR: 2015						
2. PROFILE STARTS AT ALCAT																				
3. FAC: 115.99 FAF: PLAZA INT/OAK 6.45 DME DIST FAF TO MAP: 5.95 THLD: 5.95																				
4. MIN. ALT: ALCAT 2900, PLAZA 1800																				
5. DIST TO THLD FROM OM: - MM: - IM: - 150 HAT: 1988 100 HAT: - GS ANT: 1145																				
6. MIN GS INCPT: 1800 GS ALT AT: PLAZA 1800 OM: - MM: - IM: -																				
7. GS ANGLE: 2.75 TCH: 55.0																				
8. MSA FROM: OAK VORTAC 170-350 3800, 350-170 5000																				
MINIMUMS																				
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		ILS: STANDARD #		LOC: STANDARD @									
CATEGORY ==>		A			B			C			D			E						
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA					
S-ILS 12 **	209	2400	200	209	2400	200	209	2400	200	209	2400	200								
S-LOC 12	460	2400	451	460	2400	451	460	4500	451	460	4500	451								
CIRCLING	560	1	551	560	1	551	660	1 3/4	651	1400	3	1391								
NOTES: SA CATEGORY I ILS SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED S-ILS 12: CAT A, B, C, D, RA 153, RVR 1400, HAT 150, DA 159 MSL. ← CHART NOTE: DME REQUIRED. SA CAT I CHART NOTE: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF HUD TO DH. (SEE FORM 8260-10)																				
CITY AND STATE OAKLAND, CA				ELEVATION: 9 TDZE: 9 AIRPORT NAME: METROPOLITAN OAKLAND INTL				FACILITY IDENTIFIER: I-AAZ		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 12, AMDT 8, 03/05/2015 ILS RWY 12 (SA CAT I)				SUP: AMDT: 7A DATED 07/24/2014						

**ILS - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ALTERNATE MA: CLIMB ON HEADING 115.99 AND ON OAK VORTAC R-131 TO CROSS HISIS/OAK 2.77 DME AT OR BELOW 1600 THEN CLIMB TO 4000 DIRECT SJV VOR/DME AND HOLD.

CHART NOTE: **RVR 1800 AUTHORIZED WITH THE USE OF FD OR AP OR HUD TO DA.

OAKLAND, CA

AIRPORT NAME:

METROPOLITAN OAKLAND INTL

FACILITY IDENTIFIER:
I-AAZ

PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:
ILS OR LOC RWY 12, AMDT 8, 03/05/2015
ILS RWY 12 (SA CAT I)

AMDT: 7A

DATED: 07/24/2014

QUALITY
4

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29

ARINC PACKET - 424-18 - ILS

CITY AND STATE OAKLAND, CA	ELEVATION: 9	TDZE: 9	FACILITY IDENTIFIER: I-AAZ	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: ILS OR LOC RWY 12, AMDT 8, 03/05/2015		SUP:
	AIRPORT NAME: METROPOLITAN OAKLAND INTL			ILS RWY 12 (SA CAT I)		AMDT: 7A
						DATED: 07/24/2014

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

	1	2	3	4	5	6	7	8	9	0	1	2	3
ILS	1234567890123456789012345678901234567890123456789012345678901234567890123456789012												

	SUSAP KOAKK2IIAAZ1 011190RW12 N37420225W1221246651160N37430293W1221422820490 11450364275E01405500003												

	1	2	3	4	5	6	7	8	9	0	1	2	3
MSA	1234567890123456789012345678901234567890123456789012345678901234567890123456789012												

	SUSAP KOAKK2SOAK K2D 0 1703500502535017003825 M												

CITY AND STATE
OAKLAND, CA

ELEVATION: 9 TDZE: 9
AIRPORT NAME:
METROPOLITAN OAKLAND INTL

FACILITY
IDENTIFIER:
I-AAZ

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
ILS OR LOC RWY 12, AMDT 8, 03/05/2015
ILS RWY 12 (SA CAT I)

SUP: 
AMDT: 7A
DATED: 07/24/2014

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
ILS STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29												
ARINC SUMMARY - 424-18 - ILS												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	RAIDR	RAIDR	010	IAF	IF		FB				AT 05000	
	RAIDR	RAIDR	020		FC		FB		138.4 ()	010.4	AA 02900	
	RAIDR	ALCAT	030		CF		FB		138.4 ()	002.0	AA 02900	
		ALCAT	010	FACF	IF		FB				AA 02900 GI 01800	
		PLAZA	020	FAF	CF		FB		116.0 ()	006.1	GI 01800 GS 01800	
		RW12	030	MAP	CF		FO		116.0 ()	006.0	AT 00064	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		VI		FB		116.0 ()			
		HISIS	050		CF		FB		130.6 ()	003.0	AB 01600	
			060		VI		FB		090.0 ()			
		DECOT	070		CF		FO		113.7 ()	006.0	AA 05100	
		DECOT	080		HM	L	FO		293.7 ()	T01.0	AA 05100	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		NLC (DME)	N362038.82		W1195758.80		N3620.647		W11957.980			
		OAK	N374333.32		W1221324.91		N3743.555		W12213.415			
		DECOT	N373621.73		W1220255.49		N3736.362		W12202.925			
		RAIDR	N380157.00		W1223327.00		N3801.950		W12233.450			
		ALCAT	N375056.79		W1222610.93		N3750.947		W12226.182			
		HISIS	N374113.05		W1221132.89		N3741.218		W12211.548			
		PLAZA	N374701.74		W1222016.59		N3747.029		W12220.277			
		RW12	N374312.22		W1221431.61		N3743.204		W12214.527			
		IAAZ (LOC)	N374202.25		W1221246.65		N3742.038		W12212.778			
RUNWAY DATA		RWY	THRESHOLD ELEVATION		TCH							
		RW12	00009		55							



CITY AND STATE OAKLAND, CA	ELEVATION: 9	TDZE: 9	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: METROPOLITAN OAKLAND INTL		I-AAZ	ILS OR LOC RWY 12, AMDT 8, 03/05/2015 ILS RWY 12 (SA CAT I)	AMDT: 7A
					DATED: 07/24/2014

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible][illegible][illegible][illegible][illegible][illegible]

SUP:	
AMDT:	7A
DATED:	07/24/2014

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

	1	2	3	4	5	6	7	8	9	0	1	2	3
ILS	1234567890123456789012345678901234567890123456789012345678901234567890123456789012												

	SUSAP KOAKK2IIAAZ1 011190RW12 N37420225W1221246651160N37430293W1221422820490 11450364275E01405500003												

	1	2	3	4	5	6	7	8	9	0	1	2	3
MSA	1234567890123456789012345678901234567890123456789012345678901234567890123456789012												

	SUSAP KOAKK2SOAK K2D 0 1703500502535017003825 M												

CITY AND STATE
OAKLAND, CA

ELEVATION: 9 TDZE: 9
AIRPORT NAME:
METROPOLITAN OAKLAND INTL

FACILITY
IDENTIFIER:
I-AAZ

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
ILS OR LOC RWY 12, AMDT 8, 03/05/2015
ILS RWY 12 (SA CAT I)

SUP: 
AMDT: 7A
DATED: 07/24/2014

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
LOC STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25												
ARINC SUMMARY - 424-18 - LOC												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	RAIDR	RAIDR	010	IAF	IF		FB				AT 05000	
	RAIDR	RAIDR	020		FC		FB		138.4 ()	010.4	AA 02900	
	RAIDR	ALCAT	030		CF		FB		138.4 ()	002.0	AA 02900	
		ALCAT	010	FACF	IF		FB				AA 02900	
		PLAZA	020	FAF	CF		FB		116.0 ()	006.1	AT 01800	
		RW12	030	MAP	CF		FO		116.0 ()	006.0	AT 00064	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		VI		FB		116.0 ()			
		HISIS	050		CF		FB		130.6 ()	003.0	AB 01600	
			060		VI		FB		090.0 ()			
		DECOT	070		CF		FO		113.7 ()	006.0	AA 05100	
		DECOT	080		HM	L	FO		293.7 ()	T01.0	AA 05100	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		NLC (DME)	N362038.82		W1195758.80		N3620.647		W11957.980			
		OAK	N374333.32		W1221324.91		N3743.555		W12213.415			
		DECOT	N373621.73		W1220255.49		N3736.362		W12202.925			
		RAIDR	N380157.00		W1223327.00		N3801.950		W12233.450			
		ALCAT	N375056.79		W1222610.93		N3750.947		W12226.182			
		HISIS	N374113.05		W1221132.89		N3741.218		W12211.548			
		PLAZA	N374701.74		W1222016.59		N3747.029		W12220.277			
		RW12	N374312.22		W1221431.61		N3743.204		W12214.527			
		IAAZ (LOC)	N374202.25		W1221246.65		N3742.038		W12212.778			
RUNWAY DATA			THRESHOLD									
		RWY	ELEVATION		TCH							
		RW12	00009		55							

CITY AND STATE OAKLAND, CA	ELEVATION: 9	TDZE: 9	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: METROPOLITAN OAKLAND INTL		I-AAZ	ILS OR LOC RWY 12, AMDT 8, 03/05/2015 ILS RWY 12 (SA CAT I)	AMDT: 7A
					DATED: 07/24/2014



US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33		Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.												
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO		COURSE AND DISTANCE				ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW28L						
ARCHI (IAF)		PONKE (FB)		237.62 / 6.07				6000		CLIMB TO 4000 DIRECT OLYMM AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000.						
FAITH (IAF)		DIVEC (FB)		284.53 / 3.98				7000								
MENLO (IAF)		HEMAN (FB)		333.41 / 4.31				3100		ADDITIONAL FLIGHT DATA: HOLD E, LT, 278.21 INBOUND. FAS OBST: 203 TREE 373525N/1221919W CHART 317 MSL TOWER 373456N/1221506W DISTANCE TO THLD FROM 200 HAT: 0.49 NM. WAAS CHANNEL # 53415 REFERENCE PATH ID: W28B CHART IN PLANVIEW: MINIMUM 4000 AT MENLO . CHART IN PLANVIEW: MANDATORY 7000 AT ARCHI. CHART CIRCLING ICON LTP HAE: -28.7 M						
DIVEC		PONKE (FB)		284.07 / 3.30				6000								
PONKE		WETOR (FB)		284.03 / 3.31				5000								
WETOR		ROKME (FB)		283.99 / 3.31				4000								
ROKME		HEMAN (FB)		283.96 / 2.97				3100								
(SEE FORM 8260-10)																
THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 15-05																
1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)																
2. PROFILE STARTS AT DIVEC																
3. FAC: 283.88 FAF: DUYET DIST FAF TO MAP: 5.73 THLD: 5.73																
4. MIN. ALT: DIVEC 7000, PONKE 6000, WETOR 5000, ROKME 4000, HEMAN 3100, DUYET 1800, NEPIC/3.36 NM TO RW28L 1080																
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:																
6. MIN GS INCPT: 1800 GS ALT AT: DUYET 1800, NEPIC 1080 OM: MM: IM:																
7. GS ANGLE: 2.85 TCH: 52.6 34:1 IS CLEAR																
8. MSA FROM: RW28L 5100																
MAG VAR: 14E EPOCH YEAR: 2015																
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT																
ALTERNATE: N A @																
CATEGORY =====>		A		B		C		D		E						
		DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA #		213	2400	200	213	2400	200	213	2400	200	213	2400	200			
LPV DA		769	2 1/2	756	769	2 1/2	756	769	2 1/2	756	769	2 1/2	756			
LNAV/VNAV DA		754	2 1/2	741	754	2 1/2	741	754	2 1/2	741	754	2 1/2	741			
LNAV MDA		1020	4000	1007	1020	5500	1007	1020	2 1/2	1007	1020	2 1/2	1007			
CIRCLING		1020	1 1/4	1007	1020	1 1/2	1007	1560	3	1547		NA				
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: # MISSED APPROACH REQUIRES MINIMUM CLIMB OF 305 FEET PER NM TO 1600. CHART NOTE: FOR INOPERATIVE MALSR, INCREASE LPV ALL CATS VISIBILITY TO 3 MILE. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW 2C (36 F) OR ABOVE 54C (SEE FORM 8260-10)																
CITY AND STATE SAN FRANCISCO, CA		ELEVATION: 13 TDZE: 13 AIRPORT NAME: SAN FRANCISCO INTL		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 28L, AMDT 5 5 MARCH 2015						SUP: AMDT: 4A DATED 07/24/2014				

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
HEMAN (IF)	DUYET (FB)	283.92 / 4.30	1800
DUYET (FAF)	NEPIC/3.36 NM TO RW28L (FB)	283.88 / 2.37	
NEPIC/3.36 NM TO RW28L	RW28L (MAP) (FO)	283.88 / 3.36	
RW28L (MAP)	213 MSL	283.88	
213 MSL	OLYMM (FO)		4000

NOTES, (CONT.):

(130 F)

CHART PLANVIEW NOTE: RADAR REQUIRED.

CHART NOTE: CIRCLING NA TO RWYS 10L, 10R, 19L, AND 19R.

CHART NOTE: NIGHT LANDING: RWY 1L, 1R NA.

CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT.

CITY AND STATE

SAN FRANCISCO, CA

ELEVATION: 13

TDZE: 13

AIRPORT NAME:

SAN FRANCISCO INTL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 28L, AMDT 5
5 MARCH 2015

SUP:

AMDT:

DATED: 07/24/2014

QUALITY
4
CHECKED

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KSFO
RUNWAY	RW28L
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W28B
LTP/FTP LATITUDE	373643.5435N
LTP/FTP LONGITUDE	1222133.3535W
LTP/FTP ELLIPSOIDAL HEIGHT	-00287
FPAP LATITUDE	373734.6440N
FPAP LONGITUDE	1222335.1795W
THRESHOLD CROSSING HEIGHT (TCH)	00052.6
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	02.85
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
 <u>CRC REMAINDER</u>	 99209EB0

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+00038
FPAP ORTHOMETRIC HEIGHT	+00038

CITY AND STATE

SAN FRANCISCO, CA

ELEVATION: 13

TDZE: 13

AIRPORT NAME:

SAN FRANCISCO INTL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 28L, AMDT 5

5 MARCH 2015

SUP:

AMDT:

DATED:

QUALITY
4

CHECKED

4A

07/24/2014

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible][illegible]

QUALITY
4
CHECKED

CITY AND STATE SAN FRANCISCO, CA	ELEVATION: 13 TDZE: 13 AIRPORT NAME: SAN FRANCISCO INTL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 28L, AMDT 5 5 MARCH 2015	SUP: CHECKED
				AMDT: 4A
				DATED: 07/24/2014

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

	1	2	3	4	5	6	7	8	9	0	1	2	3
RUNWAY	1234567890123456789012345678901234567890123456789012345678901234567890123456789012												

	SUSAP	KSFOK2GRW28L	0113812838	N37364354W122213335+0000		-0028700013030053200	IISFO1						

	1	2	3	4	5	6	7	8	9	0	1	2	3
PP	1234567890123456789012345678901234567890123456789012345678901234567890123456789012												

	SUSAP	KSFOK2PR28L	RW28L001	0000W28B0N3736435435W12221333535-002870285N3737346440W12223351795106750000000526F40035099209EB0									
	SUSAP	KSFOK2PR28L	RW28L002E	+00038+00038LPV	53415								

	1	2	3	4	5	6	7	8	9	0	1	2	3
MSA	1234567890123456789012345678901234567890123456789012345678901234567890123456789012												

	SUSAP	KSFOK2SRW28LK2PG	0	18018005125								M	

CITY AND STATE
SAN FRANCISCO, CA

ELEVATION: 13
AIRPORT NAME: SAN FRANCISCO INTL
TDZE: 13

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
RNAV (GPS) RWY 28L, AMDT 5
5 MARCH 2015

SUP:
AMDT: 4A
DATED: 07/24/2014

QUALITY
4
CHECKED

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - FAR PART 97.33												
ARINC SUMMARY - 424-18 - RNAV (GPS)												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	ARCHI	ARCHI	010	IAF	IF		FB				AT 07000	
	ARCHI	PONKE	020		TF		FB	1.0	237.6 (251.6T)	006.1	AA 06000	
	ARCHI	WETOR	030		TF		FB	1.0	284.0 (298.0T)	003.3	AA 05000	
	ARCHI	ROKME	040		TF		FB	1.0	284.0 (298.0T)	003.3	AA 04000	
	ARCHI	HEMAN	050		TF		FB	1.0	284.0 (298.0T)	003.0	AA 03100	
	FAITH	FAITH	010	IAF	IF		FB					
	FAITH	DIVEC	020		TF		FB	1.0	284.5 (298.5T)	004.0	AA 07000	
	FAITH	PONKE	030		TF		FB	1.0	284.1 (298.1T)	003.3	AA 06000	
	FAITH	WETOR	040		TF		FB	1.0	284.0 (298.0T)	003.3	AA 05000	
	FAITH	ROKME	050		TF		FB	1.0	284.0 (298.0T)	003.3	AA 04000	
	FAITH	HEMAN	060		TF		FB	1.0	284.0 (298.0T)	003.0	AA 03100	
	MENLO	MENLO	010	IAF	IF		FB				AB 04000	
	MENLO	HEMAN	020		TF		FB	1.0	333.4 (347.4T)	004.3	AA 03100	
		HEMAN	010	FACF	IF		FB				AA 03100	
		DUYET	020	FAF	TF		FB	0.5	283.9 (297.9T)	004.3	AA 01800	
		NEPIC	021	SDF	TF		FB	0.3	283.9 (297.9T)	002.4	AA 01080	GS 01082
		RW28L	030	MAP	TF		FO	0.3	283.9 (297.9T)	003.4	AT 00065	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		283.9 (297.9T)		AA 00213	
		OLYMM	050		DF		FO				AA 04000	
		OLYMM	060		HM	L	FO		278.2 (292.2T)	004.0	AA 04000	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		ARCHI	N372926.87		W1215231.95		N3729.448		W12152.533			
		DIVEC	N372558.38		W1215606.03		N3725.973		W12156.101			
		DUYET	N373402.64		W1221510.54		N3734.044		W12215.176			
		FAITH	N372404.38		W1215142.84		N3724.073		W12151.714			
		HEMAN	N373201.86		W1221024.00		N3732.031		W12210.400			
		MENLO	N372749.27		W1220913.17		N3727.821		W12209.220			
		NEPIC	N373509.22		W1221748.78		N3735.154		W12217.813			
		OLYMM	N374257.70		W1224021.68		N3742.962		W12240.361			
		PONKE	N372731.74		W1215945.79		N3727.529		W12159.763			
		ROKME	N373038.13		W1220705.79		N3730.636		W12207.097			
		WETOR	N372904.99		W1220325.71		N3729.083		W12203.429			
		RW28L	N373643.54		W1222133.35		N3736.726		W12221.556			
RUNWAY DATA		RWY	THRESHOLD ELEVATION		TCH							



CITY AND STATE SAN FRANCISCO, CA	ELEVATION: 13	TDZE: 13	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 28L, AMDT 5 5 MARCH 2015	SUP:
	AIRPORT NAME: SAN FRANCISCO INTL		RNAV		AMDT: 4A
	DATED: 07/24/2014				

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION <u>RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE</u> FLIGHT STANDARDS SERVICES - FAR PART 97.33	Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION <u>RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE</u> FLIGHT STANDARDS SERVICES - FAR PART 97.33	Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

CITY AND STATE
SAN FRANCISCO, CA

ELEVATION: 13	TDZE: 13
AIRPORT NAME:	SAN FRANCISCO INTL

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
RNAV (GPS) RWY 28L, AMDT 5
 5 MARCH 2015

SUP:	CHECKED
AMDT:	4A
DATED:	07/24/2014

QUALITY
4
CHECKED

[4910-13]

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 97

[Docket No. [31001](#); Amdt. No. [3629](#)]

**Standard Instrument Approach Procedures, and Takeoff Minimums
and Obstacle Departure Procedures; Miscellaneous Amendments**

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Final rule.

SUMMARY: This rule establishes, amends, suspends, or removes Standard Instrument Approach Procedures (SIAPs) and associated Takeoff Minimums and Obstacle Departure Procedures (ODPs) for operations at certain airports. These regulatory actions are needed because of the adoption of new or revised criteria, or because of changes occurring in the National Airspace System, such as the commissioning of new navigational facilities, adding new obstacles, or changing air traffic requirements. These changes are designed to provide safe and efficient use of the navigable airspace and to promote safe flight operations under instrument flight rules at the affected airports.

DATES: This rule is effective [INSERT DATE OF PUBLICATION IN THE FEDERAL REGISTER]. The compliance date for each SIAP, associated Takeoff Minimums, and ODP is specified in the amendatory provisions.

The incorporation by reference of certain publications

listed in the regulations is approved by the Director of the Federal Register as of [INSERT DATE OF PUBLICATION IN THE FEDERAL REGISTER].

ADDRESSES: Availability of matters incorporated by reference in the amendment is as follows:

For Examination

1. U.S. Department of Transportation, Docket Ops-M30, 1200 New Jersey Avenue SE, West Bldg., Ground Floor, Washington, D.C., 20590-0001.

2. The FAA Air Traffic Organization Service Area in which the affected airport is located;

3. The office of Aeronautical Navigation Products, 6500 South MacArthur Blvd., Oklahoma City, OK 73169 or,

4. The National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to:
http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html.

Availability

All SIAPs and Takeoff Minimums and ODPs are available online free of charge. Visit the National Flight Data Center at nfdc.faa.gov to register. Additionally, individual SIAP and Takeoff Minimums and ODP copies may be obtained from the FAA Air Traffic Organization Service Area in which the affected airport is located.

FOR FURTHER INFORMATION CONTACT: Richard A. Dunham III, Flight Procedure Standards Branch (AFS-420), Flight Technologies and Programs Divisions, Flight Standards Service, Federal Aviation Administration, Mike Monroney Aeronautical Center, 6500 South MacArthur Blvd. Oklahoma City, OK. 73169 (Mail Address: P.O. Box 25082, Oklahoma City, OK 73125) Telephone: (405) 954-4164.

SUPPLEMENTARY INFORMATION:

This rule amends Title 14 of the Code of Federal Regulations, Part 97 (14 CFR part 97), by establishing, amending, suspending, or removes SIAPS, Takeoff Minimums and/or ODPS. The complete regulatory description of each SIAP and its associated Takeoff Minimums or ODP for an identified airport is listed on FAA form documents which are incorporated by reference in this amendment under 5 U.S.C. 552(a), 1 CFR part 51, and 14 CFR part §97.20. The applicable FAA forms are FAA Forms 8260-3, 8260-4, 8260-5, 8260-15A, and 8260-15B when required by an entry on 8260-15A.

The large number of SIAPs, Takeoff Minimums and ODPs, their complex nature, and the need for a special format make publication in the **Federal Register** expensive and impractical. Further, airmen do not use the regulatory text of the SIAPs, Takeoff Minimums or ODPs, but instead refer to their graphic depiction on charts printed by publishers of aeronautical materials. Thus, the advantages of incorporation by reference are realized and publication of the complete description of each

SIAP, Takeoff Minimums and ODP listed on FAA form documents is unnecessary. This amendment provides the affected CFR sections and specifies the types of SIAPs, Takeoff Minimums and ODPs with their applicable effective dates. This amendment also identifies the airport and its location, the procedure, and the amendment number.

Availability and Summary of Material Incorporated by Reference

The material incorporated by reference is publicly available as listed in the ADDRESSES section.

The material incorporated by reference describes SIAPS, Takeoff Minimums and/or ODPS as identified in the amendatory language for part 97 of this final rule.

The Rule

This amendment to 14 CFR part 97 is effective upon publication of each separate SIAP, Takeoff Minimums and ODP as Amended in the transmittal. Some SIAP and Takeoff Minimums and textual ODP amendments may have been issued previously by the FAA in a Flight Data Center (FDC) Notice to Airmen (NOTAM) as an emergency action of immediate flight safety relating directly to published aeronautical charts.

The circumstances that created the need for some SIAP and Takeoff Minimums and ODP amendments may require making them effective in less than 30 days. For the remaining SIAPs and Takeoff Minimums and ODPs, an effective date at least 30 days after publication is provided.

Further, the SIAPs and Takeoff Minimums and ODPs contained in this amendment are based on the criteria contained in the U.S. Standard for Terminal Instrument Procedures (TERPS). In developing these SIAPs and Takeoff Minimums and ODPs, the TERPS criteria were applied to the conditions existing or anticipated at the affected airports. Because of the close and immediate relationship between these SIAPs, Takeoff Minimums and ODPs, and safety in air commerce, I find that notice and public procedure under 5 U.S.C. 553(b) are impracticable and contrary to the public interest and, where applicable, under 5 U.S.C 553(d), good cause exists for making some SIAPs effective in less than 30 days.

The FAA has determined that this regulation only involves an established body of technical regulations for which frequent and routine amendments are necessary to keep them operationally current. It, therefore--(1) is not a "significant regulatory action" under Executive Order 12866;(2) is not a "significant rule " under DOT Regulatory Policies and Procedures (44 FR 11034; February 26,1979) ; and (3)does not warrant preparation of a regulatory evaluation as the anticipated impact is so minimal. For the same reason, the FAA certifies that this amendment will not have a significant economic impact on a substantial number of small entities under the criteria of the Regulatory Flexibility Act.

List of Subjects in 14 CFR part 97:

Air Traffic Control, Airports, Incorporation by reference, and Navigation (Air).

Issued in Washington, DC on [JANUARY 30, 2015](#)

A handwritten signature in black ink, appearing to read "John Duncan", with a long, sweeping horizontal line extending to the right.

John Duncan
Director, Flight Standards Service

ADOPTION OF THE AMENDMENT

Accordingly, pursuant to the authority delegated to me, Title 14, Code of Federal Regulations, Part 97 (14 CFR part 97) is amended by establishing, amending, suspending, or removing Standard Instrument Approach Procedures and/or Takeoff Minimums and Obstacle Departure Procedures effective at 0901 UTC on the dates specified, as follows:

Part 97—Standard Instrument Approach Procedures

1. The authority citation for part 97 continues to read as follows:

AUTHORITY: 49 U.S.C. 106(g), 40103, 40106, 40113, 40114, 40120, 44502, 44514, 44701, 44719, 44721-44722.

2. Part 97 is amended to read as follows:

Effective 5 MARCH 2015

San Francisco, CA, San Francisco Intl, ILS OR LOC RWY 28L, ILS RWY 28L (SA CAT II), Amdt 25

San Jose, CA, Norman Y. Mineta San Jose Intl, ILS OR LOC/DME RWY 12R, Amdt 8

San Jose, CA, Norman Y. Mineta San Jose Intl, ILS OR LOC/DME RWY 30L, ILS RWY 30L (SA CAT I), Amdt 23

San Jose, CA, Norman Y. Mineta San Jose Intl, RNAV (GPS) Y RWY 12L, Amdt 3

San Jose, CA, Norman Y. Mineta San Jose Intl, RNAV (GPS) Y RWY 12R, Amdt 3

San Jose, CA, Norman Y. Mineta San Jose Intl, RNAV (GPS) Y RWY 30L, Amdt 3

San Jose, CA, Norman Y. Mineta San Jose Intl, RNAV (RNP) Z RWY 12L, Amdt 1

San Jose, CA, Norman Y. Mineta San Jose Intl, RNAV (RNP) Z RWY 12R, Amdt 2

San Jose, CA, Norman Y. Mineta San Jose Intl, RNAV (RNP) Z RWY 30L, Amdt 2

San Jose, CA, Norman Y. Mineta San Jose Intl, RNAV (RNP) Z RWY 30R, Amdt 1

San Jose, CA, Norman Y. Mineta San Jose Intl, VOR RWY 12R, Amdt 5

San Jose, CA, Norman Y. Mineta San Jose Intl, VOR/DME RWY 30L, Amdt 3

San Jose, CA, Norman Y. Mineta San Jose Intl, VOR/DME RWY 30R, Amdt 1

Panama City, FL, Northwest Florida Beaches Intl, VOR/DME RWY 16, Orig

Panama City, FL, Northwest Florida Beaches Intl, VOR/DME RWY 34, Orig

Augusta, GA, Daniel Field, RNAV (GPS) RWY 11, Amdt 1

Donalsonville, GA, Donalsonville Muni, RNAV (GPS) RWY 1, Amdt 1B

Donalsonville, GA, Donalsonville Muni, RNAV (GPS) RWY 19, Amdt 1A

Fitzgerald, GA, Fitzgerald Muni, LOC/NDB RWY 2, Amdt 1

Fitzgerald, GA, Fitzgerald Muni, NDB RWY 2, Amdt 1

Fitzgerald, GA, Fitzgerald Muni, RNAV (GPS) RWY 2, Amdt 1

Fitzgerald, GA, Fitzgerald Muni, Takeoff Minimums and Obstacle DP, Amdt 1A

Champaign/Urbana, IL, University of Illinois-Willard, ILS OR LOC RWY 32R, Amdt 13

Champaign/Urbana, IL, University of Illinois-Willard, NDB RWY 32R, Amdt 11A

Champaign/Urbana, IL, University of Illinois-Willard, RADAR 1, Amdt 6B

Champaign/Urbana, IL, University of Illinois-Willard, RNAV (GPS) RWY 4, Orig-B

Champaign/Urbana, IL, University of Illinois-Willard, RNAV (GPS) RWY 14L, Orig-A

Champaign/Urbana, IL, University of Illinois-Willard, RNAV (GPS) RWY 18, Orig-A

Champaign/Urbana, IL, University of Illinois-Willard, RNAV (GPS) RWY 22, Amdt 1A

Champaign/Urbana, IL, University of Illinois-Willard, RNAV (GPS) RWY 32R, Orig-A

Champaign/Urbana, IL, University of Illinois-Willard, RNAV (GPS) RWY 36, Orig-A

Champaign/Urbana, IL, University of Illinois-Willard, Takeoff Minimums and Obstacle DP, Orig-A

Muncie, IN, Delaware County Rgnl, RNAV (GPS) RWY 3, Orig

Muncie, IN, Delaware County Rgnl, RNAV (GPS) RWY 21, Amdt 1

Terre Haute, IN, Terre Haute Intl-Hulman Field, ILS OR LOC RWY 5, Amdt 23

Winchester, IN, Randolph County, RNAV (GPS) RWY 8, Amdt 1

Winchester, IN, Randolph County, RNAV (GPS) RWY 26, Amdt 1

Baltimore, MD, Baltimore/Washington Intl Thurgood Marshall, ILS OR LOC RWY 15R, Amdt

Baltimore, MD, Baltimore/Washington Intl Thurgood Marshall, ILS OR LOC RWY 33L, ILS RWY 33L (SA CAT I), ILS RWY 33L (SA CAT II), Amdt 12
 Baltimore, MD, Baltimore/Washington Intl Thurgood Marshall, Takeoff Minimums and Obstacle DP, Amdt 10
 Princeton, ME, Princeton Muni, RNAV (GPS) RWY 15, Amdt 1
 Escanaba, MI, Delta County, ILS OR LOC RWY 9, Amdt 3
 Sault Ste Marie, MI, Chippewa County Intl, ILS OR LOC RWY 16, Amdt 8B
 Sault Ste Marie, MI, Chippewa County Intl, NDB RWY 34, Amdt 5A
 Sault Ste Marie, MI, Chippewa County Intl, RNAV (GPS) RWY 10, Orig-A
 Sault Ste Marie, MI, Chippewa County Intl, RNAV (GPS) RWY 16, Amdt 1A
 Sault Ste Marie, MI, Chippewa County Intl, RNAV (GPS) RWY 28, Orig-A
 Sault Ste Marie, MI, Chippewa County Intl, RNAV (GPS) RWY 34, Amdt 1A
 Sault Ste Marie, MI, Chippewa County Intl, Takeoff Minimums and Obstacle DP, Orig-A
 Minneapolis, MN, Minneapolis-St Paul Intl/Wold-Chamberlain, ILS OR LOC RWY 12L, ILS RWY 12L (SA CAT I), ILS RWY 12L (CAT II), ILS RWY 12L (CAT III), Amdt 10
 Minneapolis, MN, Minneapolis-St Paul Intl/Wold-Chamberlain, ILS OR LOC RWY 12R, ILS RWY 12R (SA CAT I), ILS RWY 12R (CAT II), ILS RWY 12R (CAT III), Amdt 11
 Minneapolis, MN, Minneapolis-St Paul Intl/Wold-Chamberlain, ILS V RWY 30L (CONVERGING), Amdt 2
 Minneapolis, MN, Minneapolis-St Paul Intl/Wold-Chamberlain, ILS V RWY 30R (CONVERGING), Amdt 3
 Minneapolis, MN, Minneapolis-St Paul Intl/Wold-Chamberlain, ILS Z OR LOC RWY 30L, ILS Z RWY 30L (SA CAT I), ILS Z RWY 30L (CAT II), Amdt 46
 Minneapolis, MN, Minneapolis-St Paul Intl/Wold-Chamberlain, ILS Z OR LOC RWY 30R, Amdt 15
 Minneapolis, MN, Minneapolis-St Paul Intl/Wold-Chamberlain, RNAV (GPS) Z RWY 12L, Amdt 4
 Minneapolis, MN, Minneapolis-St Paul Intl/Wold-Chamberlain, RNAV (GPS) Z RWY 12R, Amdt 3
 Minneapolis, MN, Minneapolis-St Paul Intl/Wold-Chamberlain, RNAV (GPS) Z RWY 30R, Amdt 3
 Tupelo, MS, Tupelo Rgnl, COPTER VOR 023, Orig
 Tupelo, MS, Tupelo Rgnl, ILS Y OR LOC Y RWY 36, Orig
 Tupelo, MS, Tupelo Rgnl, ILS Z OR LOC Z RWY 36, Amdt 10
 Tupelo, MS, Tupelo Rgnl, NDB RWY 36, Amdt 5
 Tupelo, MS, Tupelo Rgnl, RNAV (GPS) RWY 18, Amdt 1
 Tupelo, MS, Tupelo Rgnl, RNAV (GPS) RWY 36, Amdt 1
 Tupelo, MS, Tupelo Rgnl, Takeoff Minimums and Obstacle DP, Amdt 1
 Tupelo, MS, Tupelo Rgnl, VOR/DME RWY 18, Amdt 1
 Oxford, NC, Henderson-Oxford, LOC RWY 6, Amdt 2
 Oxford, NC, Henderson-Oxford, NDB RWY 6, Amdt 3
 Oxford, NC, Henderson-Oxford, RNAV (GPS) RWY 6, Amdt 1
 Oxford, NC, Henderson-Oxford, RNAV (GPS) RWY 24, Amdt 1
 Oxford, NC, Henderson-Oxford, Takeoff Minimums and Obstacle DP, Amdt 1
 Valentine, NE, Miller Field, RNAV (GPS) RWY 3, Orig

Valentine, NE, Miller Field, RNAV (GPS) RWY 14, Amdt 2
 Valentine, NE, Miller Field, RNAV (GPS) RWY 21, Orig
 Somerville, NJ, Somerset, RNAV (GPS) RWY 30, Amdt 2
 East Hampton, NY, East Hampton, RNAV (GPS) X RWY 10, Amdt 1
 East Hampton, NY, East Hampton, RNAV (GPS) Y RWY 10, Amdt 1
 East Hampton, NY, East Hampton, RNAV (GPS) Y RWY 28, Amdt 1
 East Hampton, NY, East Hampton, RNAV (GPS) Z RWY 10, Amdt 1
 East Hampton, NY, East Hampton, RNAV (GPS) Z RWY 28, Orig
 New York, NY, John F Kennedy Intl, RNAV (GPS) Z RWY 13R, Orig
 Cambridge, OH, Cambridge Muni, Takeoff Minimums and Obstacle DP, Amdt 3
 Cleveland, OH, Cleveland-Hopkins Intl, ILS OR LOC RWY 6L, ILS RWY 6L (CAT II), ILS RWY 6L (CAT III), Amdt 2F
 Cleveland, OH, Cleveland-Hopkins Intl, ILS OR LOC RWY 28, Amdt 24C
 Cleveland, OH, Cleveland-Hopkins Intl, ILS OR LOC/DME RWY 24R, ILS RWY 24R (CAT II), ILS RWY 24R (CAT III), ILS RWY 24R (SA CAT I), Amdt 5C
 Cleveland, OH, Cleveland-Hopkins Intl, RNAV (GPS) RWY 10, Amdt 3A
 Lorain/Elyria, OH, Lorain County Rgnl, ILS OR LOC RWY 7, Amdt 7
 Lorain/Elyria, OH, Lorain County Rgnl, RNAV (GPS) RWY 7, Orig-A
 Port Clinton, OH, Carl R Keller Field, NDB RWY 27, Amdt 14
 Port Clinton, OH, Carl R Keller Field, RNAV (GPS) RWY 9, Amdt 1
 Port Clinton, OH, Carl R Keller Field, RNAV (GPS) RWY 27, Amdt 1
 Port Clinton, OH, Carl R Keller Field, VOR/DME-A, Amdt 9A, CANCELED
 Washington Court House, OH, Fayette County, RNAV (GPS) RWY 23, Amdt 1
 Houston, TX, George Bush Intercontinental/Houston, RNAV (RNP) Y RWY 8L, Orig-A
 Houston, TX, Lone Star Executive, ILS OR LOC RWY 14, Amdt 3
 Houston, TX, Lone Star Executive, NDB RWY 14, Amdt 3
 Houston, TX, Lone Star Executive, RNAV (GPS) RWY 14, Amdt 1
 Houston, TX, Lone Star Executive, RNAV (GPS) RWY 32, Amdt 2
 Seattle, WA, Seattle-Tacoma Intl, RNAV (GPS) Y RWY 16L, Amdt 4A

Effective 2 APRIL 2015

Seneca Falls, NY, Finger Lakes Rgnl, RNAV (GPS) RWY 1, Amdt 3A

RESCINDED: On January 26, 2015 (80 FR 3879), the FAA published an Amendment in Docket

No. 30995, Amdt No. 3623, to Part 97 of the Federal Aviation Regulations under section 97.33. The following entries for Loup City, NE., effective March 5, 2015 are hereby rescinded in their entirety:

Loup City, NE, Loup City Muni, RNAV (GPS) RWY 16, Orig
 Loup City, NE, Loup City Muni, RNAV (GPS) RWY 34, Orig

ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29							Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.									
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO			COURSE AND DISTANCE			ALTITUDE		ILS: DA LOC: 3.36 MILES AFTER NEPIC/I-SFO 5.30 DME OR AT I-SFO 1.94 DME FIX CLIMB TO 4000 ON SFO VOR/DME R-275 TO OLYMM INT/SFO 15.37 DME AND HOLD, OR AS DIRECTED BY ATC. ALTERNATE MA: CLIMB TO 2100 THEN CLIMBING LEFT TURN TO 5000 DIRECT SJC VOR/DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD E, LT, 275.21 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD E SJC VOR/DME, LT, 286.00 INBOUND. CHART FAS OBST: 203 TREE 373525N/1221919W CHART 217 T-L TWR 373441N/1221522W CHART VDP AT 3.20 DME* DISTANCE VDP TO THLD 1.26 MILES. *LOC ONLY. CHART IN PLANVIEW: SJC VOR/DME. CHART IN PLANVIEW: MINIMUM 4000 AT MENLO. CHART CIRCLING ICON CHART IN PLANVIEW: MANDATORY 7000 AT ARCHI.						
ARCHI (IAF)		PONKE (FB)			237.62 / 6.07			6000								
MENLO (IAF)		HEMAN (FB)			333.41 / 4.31			3100								
FAITH/SFO 27.72 DME (IAF)		DIVEC/I-SFO 24.86 DME			281.00 / 3.98 (SFO R-101)			7000								
DIVEC/I-SFO 24.86 DME		PONKE/I-SFO 21.56 DME			283.81 / 3.30 (I-SFO)			6000								
PONKE/I-SFO 21.56 DME		WETOR/I-SFO 18.25 DME			283.81 / 3.31 (I-SFO)			5000								
WETOR/I-SFO 18.25 DME		ROKME/I-SFO 14.95 DME			283.81 / 3.31 (I-SFO)			4000								
(SEE FORM 8260-10)																
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. PROFILE STARTS AT DIVEC/I-SFO 24.86 DME 3. FAC: <u>283.81</u> FAF: DUYET INT/I-SFO 7.67 DME DIST FAF TO MAP: <u>5.73</u> THLD: <u>5.73</u> 4. MIN. ALT: DIVEC 7000, PONKE 6000, WETOR 5000, ROKME 4000, HEMAN 3100, DUYET 1800, NEPIC/I-SFO 5.30 DME 1080* 5. DIST TO THLD FROM OM: <u> </u> - <u> </u> MM: <u> </u> - <u> </u> IM: <u> </u> 150 HAT: <u> </u> - <u> </u> 100 HAT: <u>952</u> GS ANT: <u>1067</u> 6. MIN GS INCPT: <u>1800</u> GS ALT AT: DUYET 1800, NEPIC 1080 OM: <u> </u> - <u> </u> MM: <u> </u> - <u> </u> IM: <u> </u> - <u> </u> 7. GS ANGLE: <u>2.85</u> TCH: <u>52.6</u> 8. MSA FROM: SFO VOR/DME 050-180 4500, 180-300 3500, 300-050 5100																
										MAG VAR: 14E EPOCH YEAR: 2015						
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		ILS: #		LOC: STANDARD @					
CATEGORY >>>>>		A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
S-ILS 28L + ##	213	2400	200	213	2400	200	213	2400	200	213	2400	200				
S-ILS 28L	789	2 1/2	776	789	2 1/2	776	789	2 1/2	776	789	2 1/2	776				
S-LOC 28L ##	460	2400	447	460	2400	447	460	4500	447	460	4500	447				
S-LOC 28L \$	740	2400	727	740	2400	727	740	1 5/8	727	740	1 5/8	727				
CIRCLING	800	1	787	1000	1 1/2	987	1560	3	1547		NA					
NOTES: CHART NOTE: DME REQUIRED. CHART PLANVIEW NOTE: DME OR RADAR OR GPS REQUIRED. CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT. (SEE FORM 8260-10)																
CITY AND STATE SAN FRANCISCO, CA		ELEVATION: 13 TDZE: 13 AIRPORT NAME: SAN FRANCISCO INTL		FACILITY IDENTIFIER: I-SFO		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 28L, AMDT 25 ILS RWY 28L (SA CAT II) 5 MARCH 2015						SUP: <u>4</u>				
												AMDT: <u>240</u>				
												DATED 11/13/2014				

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION			Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.													
ILS - STANDARD INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29																
TERMINAL ROUTES, (CONT.):																
<table><tr><td>FROM</td><td>TO</td><td>COURSE AND DISTANCE</td><td>ALTITUDE</td></tr><tr><td>ROKME/I-SFO 14.95 DME</td><td>HEMAN INT/I-SFO 11.97 DME</td><td>283.81 / 2.97 (I-SFO)</td><td>3100</td></tr><tr><td>HEMAN INT/I-SFO 11.97 DME (IF)</td><td>DUYET INT/I-SFO 7.67 DME</td><td>283.81 / 4.30 (I-SFO)</td><td>1800</td></tr></table>					FROM	TO	COURSE AND DISTANCE	ALTITUDE	ROKME/I-SFO 14.95 DME	HEMAN INT/I-SFO 11.97 DME	283.81 / 2.97 (I-SFO)	3100	HEMAN INT/I-SFO 11.97 DME (IF)	DUYET INT/I-SFO 7.67 DME	283.81 / 4.30 (I-SFO)	1800
FROM	TO	COURSE AND DISTANCE	ALTITUDE													
ROKME/I-SFO 14.95 DME	HEMAN INT/I-SFO 11.97 DME	283.81 / 2.97 (I-SFO)	3100													
HEMAN INT/I-SFO 11.97 DME (IF)	DUYET INT/I-SFO 7.67 DME	283.81 / 4.30 (I-SFO)	1800													
NOTES, (CONT.): ##SA CATEGORY II ILS SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED S-ILS 28L: CAT A, B, C, D, RA 100, RVR 1200, HAT 100, DA 113 MSL. CHART NOTE: + RVR 1800 AUTHORIZED WITH THE USE OF FD OR AP OR HUD TO DA. CHART NOTE: ## MISSED APPROACH REQUIRES MINIMUM CLIMB OF 325 FEET PER NM TO 2100. CHART NOTE: CIRCLING NA TO RWYS 10L, 10R, 19L, AND 19R. CHART NOTE: NIGHT LANDING: RWY 1L, 1R NA. CHART NOTE: (ONLY ON ILS OR LOC RWY 28L): SIMULTANEOUS APPROACH AUTHORIZED WITH ILS OR LOC RWY 28R. CHART PROFILE NOTE: USE I-SFO DME WHEN ON THE LOCALIZER COURSE. CHART NOTE: (ONLY ON ILS OR LOC RWY 28L): SIMULTANEOUS OPERATIONS REQUIRE USE OF VERTICAL GUIDANCE; MAINTAIN LAST ASSIGNED ALTITUDE UNTIL ESTABLISHED ON GLIDESLOPE. CHART NOTE: \$FOR INOPERATIVE MALSR INCREASE S-LOC CAT C AND D VISIBILITY TO 2 MILE. SA CAT II CHART NOTE: REDUCED LIGHTING: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF AUTOLAND OR HUD TO TOUCHDOWN. CHART PLANVIEW NOTE ADJACENT TO ARCHI: GPS REQUIRED. CHART PLANVIEW NOTE ADJACENT TO MENLO: GPS REQUIRED.																
CITY AND STATE SAN FRANCISCO, CA	ELEVATION: 13 AIRPORT NAME: SAN FRANCISCO INTL	TDZE: 13	FACILITY IDENTIFIER: I-SFO	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 28L, AMDT 25 ILS RWY 28L (SA CAT II) 5 MARCH 2015												
				SUP: 4 AMDT: 24D DATED: 11/13/2014												

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
ILS STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29												
ARINC SUMMARY - 424-18 - ILS												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	ARCHI	ARCHI	010	IAF	IF		FB				AT 07000	
	ARCHI	PONKE	020		TF		FB				AA 06000	
	ARCHI	WETOR	030		TF		FB				AA 05000	
	ARCHI	ROKME	040		TF		FB				AA 04000	
	ARCHI	HEMAN	050		CF		FB		283.8 ()	003.0	AA 03100	
	FAITH	FAITH	010	IAF	IF		FB					
	FAITH	DIVEC	020		TF		FB				AA 07000	
	FAITH	PONKE	030		TF		FB				AA 06000	
	FAITH	WETOR	040		TF		FB				AA 05000	
	FAITH	ROKME	050		TF		FB				AA 04000	
	FAITH	HEMAN	060		CF		FB		283.8 ()	003.0	AA 03100	
	MENLO	MENLO	010	IAF	IF		FB				AA 04000	
	MENLO	MENLO	020		FC		FB		333.4 ()	002.3	AA 03100	
	MENLO	HEMAN	030		CF		FB		333.4 ()	002.0	AA 03100	
		HEMAN	010	FACF	IF		FB				AA 03100 GI 01800	
		DUYET	020	FAF	CF		FB		284.0 ()	004.3	GI 01800 GS 01800	
		RW28L	030	MAP	CF		FO		284.0 ()	005.7	AT 00065	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		OLYMM	040		CF		FO		275.2 ()	016.0	AA 04000	
		OLYMM	050		HM	L	FO		275.2 ()	T01.0	AA 04000	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		NLC (DME)	N362038.82		W1195758.80		N3620.647		W11957.980			
		SFO	N373710.14		W1222226.02		N3737.169		W12222.434			
		ISFO (DME)	N373739.54		W1222341.45		N3737.659		W12223.691			
		ARCHI	N372926.87		W1215231.95		N3729.448		W12152.533			
		DIVEC	N372558.38		W1215606.03		N3725.973		W12156.101			
		DUYET	N373402.64		W1221510.54		N3734.044		W12215.176			
		FAITH	N372404.38		W1215142.84		N3724.073		W12151.714			
		HEMAN	N373201.86		W1221024.00		N3732.031		W12210.400			
		MENLO	N372749.27		W1220913.17		N3727.821		W12209.220			
		OLYMM	N374257.70		W1224021.68		N3742.962		W12240.361			
		PONKE	N372731.74		W1215945.79		N3727.529		W12159.763			
		ROKME	N373038.13		W1220705.79		N3730.636		W12207.097			
		WETOR	N372904.99		W1220325.71		N3729.083		W12203.429			
		RW28L	N373643.54		W1222133.35		N3736.726		W12221.556			
		ISFO (LOC)	N373737.46		W1222341.89		N3737.624		W12223.698			
RUNWAY DATA		THRESHOLD										
CITY AND STATE SAN FRANCISCO, CA		ELEVATION: 13		TDZE: 13		FACILITY IDENTIFIER: I-SFO		PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: ILS OR LOC RWY 28L, AMDT 25 ILS RWY 28L (SA CAT II) 5 MARCH 2015			SUP:	
		AIRPORT NAME: SAN FRANCISCO INTL		AMDT: 24D								
				DATED: 11/13/2014								



U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

RWY	ELEVATION	TCH
RW28L	00013	53

QUALITY
15
CHECKED

CITY AND STATE

SAN FRANCISCO, CA

ELEVATION: 13

TDZE: 13

AIRPORT NAME:

SAN FRANCISCO INTL

FACILITY
IDENTIFIER:

I-SFO

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:

ILS OR LOC RWY 28L, AMDT 25

ILS RWY 28L (SA CAT II)

5 MARCH 2015

SUP:

AMDT:

24D

DATED:

11/13/2014

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
LOC STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25												
ARINC SUMMARY - 424-18 - LOC												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	ARCHI	ARCHI	010	IAF	IF		FB				AT 07000	
	ARCHI	PONKE	020		TF		FB				AA 06000	
	ARCHI	WETOR	030		TF		FB				AA 05000	
	ARCHI	ROKME	040		TF		FB				AA 04000	
	ARCHI	HEMAN	050		CF		FB		283.8 ()	003.0	AA 03100	
	FAITH	FAITH	010	IAF	IF		FB					
	FAITH	DIVEC	020		TF		FB				AA 07000	
	FAITH	PONKE	030		TF		FB				AA 06000	
	FAITH	WETOR	040		TF		FB				AA 05000	
	FAITH	ROKME	050		TF		FB				AA 04000	
	FAITH	HEMAN	060		CF		FB		283.8 ()	003.0	AA 03100	
	MENLO	MENLO	010	IAF	IF		FB				AA 04000	
	MENLO	MENLO	020		FC		FB		333.4 ()	002.3	AA 03100	
	MENLO	HEMAN	030		CF		FB		333.4 ()	002.0	AA 03100	
		HEMAN	010	FACF	IF		FB				AA 03100	
		DUYET	020	FAF	CF		FB		284.0 ()	004.3	AA 01800	
		NEPIC	021	SDF	CF		FB		284.0 ()	002.4	AA 01080	
		RW28L	030	MAP	CF		FO		284.0 ()	003.4	AT 00065	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		OLYMM	040		CF		FO		275.2 ()	016.0	AA 04000	
		OLYMM	050		HM	L	FO		275.2 ()	T01.0	AA 04000	
POINT DATA		WAYPOINT		LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS		
		NLC (DME)		N362038.82		W1195758.80		N3620.647		W11957.980		
		SFO		N373710.14		W1222226.02		N3737.169		W12222.434		
		ISFO (DME)		N373739.54		W1222341.45		N3737.659		W12223.691		
		ARCHI		N372926.87		W1215231.95		N3729.448		W12152.533		
		DIVEC		N372558.38		W1215606.03		N3725.973		W12156.101		
		DUYET		N373402.64		W1221510.54		N3734.044		W12215.176		
		FAITH		N372404.38		W1215142.84		N3724.073		W12151.714		
		HEMAN		N373201.86		W1221024.00		N3732.031		W12210.400		
		MENLO		N372749.27		W1220913.17		N3727.821		W12209.220		
		NEPIC		N373509.22		W1221748.78		N3735.154		W12217.813		
		OLYMM		N374257.70		W1224021.68		N3742.962		W12240.361		
		PONKE		N372731.74		W1215945.79		N3727.529		W12159.763		
		ROKME		N373038.13		W1220705.79		N3730.636		W12207.097		
		WETOR		N372904.99		W1220325.71		N3729.083		W12203.429		
		RW28L		N373643.54		W1222133.35		N3736.726		W12221.556		
		ISFO (LOC)		N373737.46		W1222341.89		N3737.624		W12223.698		
CITY AND STATE		ELEVATION: 13		TDZE: 13		FACILITY IDENTIFIER:		PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:			SUP:	
SAN FRANCISCO, CA		AIRPORT NAME:		SAN FRANCISCO INTL		I-SFO		ILS OR LOC RWY 28L, AMDT 25			AMDT: 24D	
								ILS RWY 28L (SA CAT II)			DATED: 11/13/2014	
								5 MARCH 2015				

QUALITY
15
CHECKED

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW28L	00013	53

QUALITY
15
CHECKED

CITY AND STATE

SAN FRANCISCO, CA

ELEVATION: 13

TDZE: 13

AIRPORT NAME:

SAN FRANCISCO INTL

FACILITY
IDENTIFIER:

I-SFO

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:

ILS OR LOC RWY 28L, AMDT 25

ILS RWY 28L (SA CAT II)

5 MARCH 2015

SUP:

AMDT:

24D

DATED:

11/13/2014

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29							Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.								
TERMINAL ROUTES														MISSED APPROACH								
FROM				TO				COURSE AND DISTANCE				ALTITUDE		ILS: DA LOC: 5.35 MILES AFTER SUNNE INT/I-SLV 6.96 DME OR AT I-SLV 1.61 DME FIX								
ARTAQ INT/I-SLV 8.96 DME (IF)				SUNNE INT/I-SLV 6.96 DME				122.81 / 2.00 (I-SLV)				1800		CLIMB TO 500 THEN CLIMB TO 4000 ON SJC VOR/DME R-121 TO GILRO/SJC 26.69 DME AND HOLD.								
														ADDITIONAL FLIGHT DATA: HOLD SE, LT, 301.40 INBOUND. CHART FAS OBST: 164 TANK 372307N/1215727W CHART FAS OBST: 223 BLDG 372407N/1215809W								
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)																						
2. PROFILE STARTS AT ARTAQ INT/I-SLV 8.96 DME																						
3. FAC: 122.81 FAF: SUNNE INT/I-SLV 6.96 DME DIST FAF TO MAP: _____ THLD: 5.35																						
4. MIN. ALT: ARTAQ INT/I-SLV 8.96 DME 1800, SUNNE INT/I-SLV 6.96 DME 1800, JUJGE/I-SLV 2.96 DME 520*																						
5. DIST TO THLD FROM OM: _____ - _____ MM: _____ - _____ IM: _____ 150 HAT: _____ - _____ 100 HAT: _____ - _____ GS ANT: 1061																						
6. MIN GS INCPT: 1800 GS ALT AT: SUNNE 1800 OM: _____ - _____ MM: _____ - _____ IM: _____																						
7. GS ANGLE: 3.00 TCH: 58.0																						
8. MSA FROM: SJC VOR/DME 5600														MAG VAR: 16E					EPOCH YEAR: 1990			
MINIMUMS																						
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A			ILS: STANDARD #			LOC: STANDARD @									
CATEGORY =====>		A			B			C			D			E								
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA							
S-ILS 12R	251	1/2	205	251	1/2	205	251	1/2	205	251	1/2	205										
S-LOC 12R	420	1/2	374	420	1/2	374	420	5/8	374	420	5/8	374										
SIDESTEP 12L	600	1	556	600	1	556	600	1 1/2	556	600	2	556										
NOTES: CHART PLANVIEW NOTE: RADAR REQUIRED. CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT. CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-LOC 12R CAT C/D VISIBILITY TO 1 MILE. *LOC ONLY																						
CITY AND STATE SAN JOSE, CA				ELEVATION: 62 AIRPORT NAME: NORMAN Y. MINETA SAN JOSE INTL			TDZE: 12R 46 TDZE: 12L 44			FACILITY IDENTIFIER: I-SLV			PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC/DME RWY 12R, AMDT 8 5 MARCH 2015				SUP: ILS OR LOC RWY OR AMDT: DATED 01/13/2011					

ILS - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

CITY AND STATE

SAN JOSE, CA

ELEVATION: 62

AIRPORT NAME:

NORMAN Y. MINETA SAN JOSE INTL

TDZE: 12R 46
TDZE: 12L 44

FACILITY
IDENTIFIER:

I-SLV

PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:
ILS OR LOC/DME RWY 12R, AMDT 8

5 MARCH 2015

SUP: ILS OR LOC RWY
12R
AMDT: 7
DATED: 01/13/2011

QUALITY
4
CHECKED

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
ILS STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29												
ARINC SUMMARY - 424-18 - ILS												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		ARTAQ	010	FACF	IF		FB				AA 01800 GI 01800	
		SUNNE	020	FAF	CF		FB		123.0 ()	002.0	GI 01800 GS 01800	
		RW12R	030	MAP	CF		FO		123.0 ()	005.4	AT 00096	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		122.8 ()		AA 00500	
		GILRO	050		CF		FO		121.4 ()	026.0	AA 04000	
		GILRO	060		HM	L	FO		301.4 ()	T01.0	AA 04000	
POINT DATA		WAYPOINT	LAT IN SECS			LONG IN SECS		LAT IN MINS		LONG IN MINS		
		SJC	N372228.96			W1215640.80		N3722.483		W12156.680		
		ISLV (DME)	N372102.66			W1215501.34		N3721.044		W12155.022		
		GILRO	N370246.62			W1213406.76		N3702.777		W12134.113		
		ARTAQ	N372748.04			W1220225.34		N3727.801		W12202.422		
		SUNNE	N372617.63			W1220046.10		N3726.294		W12200.768		
		RW12R	N372215.77			W1215620.57		N3722.263		W12156.343		
		ISLV (LOC)	N372103.04			W1215500.85		N3721.051		W12155.014		
RUNWAY DATA		RWY	THRESHOLD ELEVATION		TCH							
		RW12R	00038		58							



CITY AND STATE SAN JOSE, CA	ELEVATION: 62 TDZE: 12R 46 AIRPORT NAME: TDZE: 12L 44 NORMAN Y. MINETA SAN JOSE INTL	FACILITY IDENTIFIER: I-SLV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: ILS OR LOC/DME RWY 12R, AMDT 8 5 MARCH 2015	SUP: ILS OR LOC RWY 12R
				AMDT: 7
				DATED: 01/13/2011

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
LOC STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25												
ARINC SUMMARY - 424-18 - LOC												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		ARTAQ	010	FACF	IF		FB				AA 01800	
		SUNNE	020	FAF	CF		FB		123.0 ()	002.0	AA 01800	
		JUJGE	021	SDF	CF		FB		123.0 ()	004.0	AA 00520	
		RW12R	030	MAP	CF		FO		123.0 ()	001.4	AT 00096	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		122.8 ()		AA 00500	
		GILRO	050		CF		FO		121.4 ()	026.0	AA 04000	
		GILRO	060		HM	L	FO		301.4 ()	T01.0	AA 04000	
POINT DATA		WAYPOINT		LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS		
		SJC		N372228.96		W1215640.80		N3722.483		W12156.680		
		ISLV (DME)		N372102.66		W1215501.34		N3721.044		W12155.022		
		GILRO		N370246.62		W1213406.76		N3702.777		W12134.113		
		ARTAQ		N372748.04		W1220225.34		N3727.801		W12202.422		
		JUJGE		N372316.90		W1215727.58		N3723.282		W12157.460		
		SUNNE		N372617.63		W1220046.10		N3726.294		W12200.768		
		RW12R		N372215.77		W1215620.57		N3722.263		W12156.343		
		ISLV (LOC)		N372103.04		W1215500.85		N3721.051		W12155.014		
RUNWAY DATA				THRESHOLD								
		RWY		ELEVATION		TCH						
		RW12R		00038		58						



CITY AND STATE SAN JOSE, CA	ELEVATION: 62	TDZE: 12R 46	FACILITY IDENTIFIER: 1-SLV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: ILS OR LOC/DME RWY 12R, AMDT 8 5 MARCH 2015	SUP: ILS OR LOC RWY 12R
	AIRPORT NAME: NORMAN Y. MINETA SAN JOSE INTL	TDZE: 12L 44			AMDT: 7
	DATED: 01/13/2011				

ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29							Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.								
TERMINAL ROUTES										MISSED APPROACH					
FROM		TO		COURSE AND DISTANCE			ALTITUDE		ILS: DA LOC: I-SJC 1.43 DME FIX CLIMB TO 1900 ON SJC VOR/DME R-303 TO SUNNE INT AND HOLD, OR AS DIRECTED BY ATC. ALTERNATE MA: CLIMB TO 3000 DIRECT OAK VORTAC AND HOLD NW, RT, 120.00 INBOUND. ADDITIONAL FLIGHT DATA: HOLD NW, RT, 123.47 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NW OAK VORTAC, RT, 120.00 INBOUND. CHART FAS OBST: 373 BLDG 371938N/1215321W CHART VDP AT 3.04 DME* DISTANCE VDP TO THLD 1.60 MILES. *LOC ONLY. CHART (CFBJK) AT INTERSECTION OF GILRO DR LEG AND INTERMEDIATE COURSE. CHART IN PLANVIEW: OAK VORTAC. CHART CIRCLING ICON.						
GILRO INT (IAF)		KLIDE INT/I-SJC 16.71 DME		258.00 / .85 (HDG) & 302.82 / 9.28 (I-SJC)			4000								
KLIDE INT/I-SJC 16.71 DME (IF)		ZULUP/I-SJC 13.41 DME		302.82 / 3.30 (I-SJC)			3400								
ZULUP/I-SJC 13.41 DME		HIVAK/I-SJC 9.56 DME		302.82 / 3.85 (I-SJC)			2700								
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT KLIDE INT/I-SJC 16.71 DME 3. FAC: <u>302.82</u> FAF: <u>HIVAK/I-SJC 9.56 DME</u> DIST FAF TO MAP: _____ THLD: _____ 4. MIN. ALT: <u>KLIDE 4000, ZULUP 3400, HIVAK 2700, FORUL/I-SJC 4.23 DME 1000*</u> 5. DIST TO THLD FROM OM: _____ - MM: _____ - IM: _____ 150 HAT: <u>1826</u> 100 HAT: _____ GS ANT: <u>1108</u> 6. MIN GS INCPT: <u>2700</u> GS ALT AT: <u>HIVAK 2700</u> OM: _____ - MM: _____ - IM: _____ 7. GS ANGLE: <u>3.00</u> TCH: <u>54.4</u> 8. MSA FROM: <u>SJC VOR/DME 5600</u>										MAG VAR: 16E		EPOCH YEAR: 1990			
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		ILS: STANDARD #		LOC: STANDARD #				
CATEGORY =====>		A		B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
S-ILS 30L**	257	2400	200	257	2400	200	257	2400	200	257	2400	200			
S-LOC	640	2400	585	640	2400	585	640	1 1/4	585	640	1 1/4	585			
SIDESTEP 30R	640	1	585	640	1	585	640	1 1/2	585	640	2	585			
NOTES: CHART NOTE: **RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. # NA WHEN CONTROL TOWER CLOSED. CHART NOTE: DME REQUIRED. CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT. SA CATEGORY I ILS SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED S-ILS 30L: CAT A, B, C, D (SEE FORM 8260-10)															
CITY AND STATE SAN JOSE, CA		ELEVATION: 62 AIRPORT NAME: NORMAN Y. MINETA SAN JOSE INTL		TDZE: 30L 57 TDZE: 30R 55		FACILITY IDENTIFIER: I-SJC		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC/DME RWY 30L, AMDT 23 ILS RWY 30L (SA CAT I) 5 MARCH 2015				SUP:			
												AMDT: 22B			
												DATED 05/02/2013			



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
ILS - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):

RA 147, RVR 1400, HAT 150, DA 207 MSL.

SA CAT 1 CHART NOTE: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF HUD TO DH.

SA CAT I CHART NOTE: NOT AUTHORIZED WHEN TOWER CLOSED.



CITY AND STATE

SAN JOSE, CA

ELEVATION: 62

AIRPORT NAME:

NORMAN Y. MINETA SAN JOSE INTL

TDZE: 30L 57
TDZE: 30R 55

FACILITY
IDENTIFIER:
I-SJC

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
ILS OR LOC/DME RWY 30L, AMDT 23
ILS RWY 30L (SA CAT I)
5 MARCH 2015

SUP:

AMDT: 22B

DATED: 05/02/2013

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
ILS STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29												
ARINC SUMMARY - 424-18 - ILS												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	GILRO	GILRO	010	IAF	IF		FB					
	GILRO	CFBJK	020		TF		FB				AA 04000	
	GILRO	KLIDE	030		TF		FB				AA 04000	
	GILRO	ZULUP	040		CF		FB		302.8 ()	003.3	AA 03400	
		ZULUP	010	FACF	IF		FB				AA 03400	GI 02700
		HIVAK	020	FAF	CF		FB		303.0 ()	003.9	GI 02700	GS 02700
		RW30L	030	MAP	CF		FO		303.0 ()	008.1	AT 00111	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		SUNNE	040		CF		FO		303.5 ()	007.0	AA 01900	
		SUNNE	050		HM	R	FO		123.5 ()	T01.0	AA 01900	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		SJC	N372228.96		W1215640.80		N3722.483		W12156.680			
		ISJC (DME)	N372227.56		W1215632.60		N3722.459		W12156.543			
		GILRO	N370246.62		W1213406.76		N3702.777		W12134.113			
		CFBJK	N370250.17		W1213510.05		N3702.836		W12135.168			
		HIVAK	N371514.72		W1214839.89		N3715.245		W12148.665			
		KLIDE	N370951.03		W1214246.98		N3709.851		W12142.783			
		SUNNE	N372617.63		W1220046.10		N3726.294		W12200.768			
		ZULUP	N371220.41		W1214529.88		N3712.340		W12145.498			
		RW30L	N372122.45		W1215522.13		N3721.374		W12155.369			
		ISJC (LOC)	N372227.19		W1215633.10		N3722.453		W12156.552			
RUNWAY DATA			THRESHOLD									
		RWY	ELEVATION		TCH							
		RW30L	00057		54							



CITY AND STATE SAN JOSE, CA	ELEVATION: 62	TDZE: 30L 57	FACILITY IDENTIFIER: I-SJC	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: ILS OR LOC/DME RWY 30L, AMDT 23	SUP:
	AIRPORT NAME: NORMAN Y. MINETA SAN JOSE INTL			ILS RWY 30L (SA CAT I) 5 MARCH 2015	AMDT: 22B
					DATED: 05/02/2013

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
LOC STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25												
ARINC SUMMARY - 424-18 - LOC												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	GILRO	GILRO	010	IAF	IF		FB					
	GILRO	CFBJK	020		TF		FB				AA 04000	
	GILRO	KLIDE	030		TF		FB				AA 04000	
	GILRO	ZULUP	040		CF		FB		302.8 ()	003.3	AA 03400	
		ZULUP	010	FACF	IF		FB				AA 03400	
		HIVAK	020	FAF	CF		FB		303.0 ()	003.9	AA 02700	
		FORUL	021	SDF	CF		FB		303.0 ()	005.3	AA 01000	
		RW30L	030	MAP	CF		FO		303.0 ()	002.8	AT 00111	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		SUNNE	040		CF		FO		303.5 ()	007.0	AA 01900	
		SUNNE	050		HM	R	FO		123.5 ()	T01.0	AA 01900	
POINT DATA		WAYPOINT		LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS		
		SJC		N372228.96		W1215640.80		N3722.483		W12156.680		
		ISJC (DME)		N372227.56		W1215632.60		N3722.459		W12156.543		
		GILRO		N370246.62		W1213406.76		N3702.777		W12134.113		
		CFBJK		N370250.17		W1213510.05		N3702.836		W12135.168		
		FORUL		N371915.83		W1215303.45		N3719.264		W12153.058		
		HIVAK		N371514.72		W1214839.89		N3715.245		W12148.665		
		KLIDE		N370951.03		W1214246.98		N3709.851		W12142.783		
		SUNNE		N372617.63		W1220046.10		N3726.294		W12200.768		
		ZULUP		N371220.41		W1214529.88		N3712.340		W12145.498		
		RW30L		N372122.45		W1215522.13		N3721.374		W12155.369		
		ISJC (LOC)		N372227.19		W1215633.10		N3722.453		W12156.552		
RUNWAY DATA		RWY	THRESHOLD ELEVATION		TCH							
		RW30L	00057		54							
CITY AND STATE SAN JOSE, CA		ELEVATION: 62		TDZE: 30L 57		FACILITY IDENTIFIER: I-SJC		PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: ILS OR LOC/DME RWY 30L, AMDT 23 ILS RWY 30L (SA CAT I) 5 MARCH 2015			SUP:	
		AIRPORT NAME: NORMAN Y. MINETA SAN JOSE INTL		TDZE: 30R 55							AMDT: 22B	
											DATED: 05/02/2013	



US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33							Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.						
TERMINAL ROUTES														MISSED APPROACH						
FROM				TO			COURSE AND DISTANCE				ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW12L CLIMB TO 4600 DIRECT COKOR AND ON TRACK 121.43 TO GILRO AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SE, LT, 301.40 INBOUND. CHART FAS OBST: 252 TWR 372337N/1215818W DISTANCE TO THLD FROM 250 HAT: 0.61 NM. CHART VDP AT 1.29 MILES TO RW12L* *LNAV ONLY. WAAS CHANNEL # 69501 REFERENCE PATH ID: W12B							
ROSTE (IF)				OMSEE (FB)			122.74 / 3.18				1800									
OMSEE (FAF)				RW12L (MAP) (FO)			122.77 / 5.36													
RW12L (MAP)				294 MSL			122.77													
294 MSL				COKOR (FB)							4600									
COKOR				GILRO (FO)			121.43/19.23													
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)														MAG VAR: 16E EPOCH YEAR: 1990						
2. PROFILE STARTS AT ROSTE _____																				
3. FAC: 122.77 FAF: OMSEE _____ DIST FAF TO MAP: 5.36 THLD: 5.36																				
4. MIN. ALT: ROSTE 2300, OMSEE 1800																				
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____																				
6. MIN GS INCPT: 1800 GS ALT AT: OMSEE 1800 OM: _____ MM: _____ IM: _____																				
7. GS ANGLE: 3.00 TCH: 57.0 34:1 IS CLEAR																				
8. MSA FROM: RW12L 5600																				
MINIMUMS																				
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		STANDARD @											
CATEGORY =====>		A			B			C			D			E						
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA					
LPV DA	294	3/4	250	294	3/4	250	294	3/4	250	294	3/4	250								
LNAV/VNAV DA	341	1	297	341	1	297	341	1	297	341	1	297								
LNAV MDA	520	1	476	520	1	476	520	1 3/8	476	520	1 3/8	476								
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -1C (31F) OR ABOVE 54C @ NA WHEN LOCAL WEATHER NOT AVAILABLE. (130F). CHART NOTE: DME/DME RNP-0.3 NA.																				
(SEE FORM 8260-10)																				
CITY AND STATE SAN JOSE, CA				ELEVATION: 62 TDZE: 44 AIRPORT NAME: NORMAN Y. MINETA SAN JOSE INTL			FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 12L, AMDT 3 5 MARCH 2015					SUP: AMDT: 2 DATED 09/23/2010						

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):
CHART PLANVIEW NOTE: RADAR REQUIRED.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT.

CITY AND STATE SAN JOSE, CA	ELEVATION: 62	TDZE: 44	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 12L, AMDT 3 5 MARCH 2015	SUP:
	AIRPORT NAME: NORMAN Y. MINETA SAN JOSE INTL				AMDT: 2
					DATED: 09/23/2010

QUALITY
24
CHECKED

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KSJC
RUNWAY	RW12L
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W12B
LTP/FTP LATITUDE	372220.2515N
LTP/FTP LONGITUDE	1215613.9700W
LTP/FTP ELLIPSOIDAL HEIGHT	-00211
FPAP LATITUDE	372108.1260N
FPAP LONGITUDE	1215454.9155W
THRESHOLD CROSSING HEIGHT (TCH)	00057.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

<u>CRC REMAINDER</u>	6AF80EF0

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+00115
FPAP ORTHOMETRIC HEIGHT	+00115

CITY AND STATE

SAN JOSE, CA

ELEVATION: 62

TDZE: 44

AIRPORT NAME:

NORMAN Y. MINETA SAN JOSE INTL

 FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) Y RWY 12L, AMDT 3

5 MARCH 2015

SUP:

AMDT: 2

DATED: 09/23/2010

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP KSJCK2FR12LY R	010	ROSTEK2EA0E	I	IF						18000		A	JS
SUSAP KSJCK2FR12LY R	020	OMSEEK2EA1E	F	051TF			12270032	+	01800		RW12L K2PGA	JS	
SUSAP KSJCK2FR12LY R	020	OMSEEK2EA2WALPV			ALNAV/VNAV	ALNAV						JS	
SUSAP KSJCK2FR12LY R	030	RW12LK2PG0GY	M	031TF			12280054		00095		-300	A	JS
SUSAP KSJCK2FR12LY R	040		O	M	CA		1228	+	00294			A	JS
SUSAP KSJCK2FR12LY R	050	COKORK2EA0E		DF								A	JS
SUSAP KSJCK2FR12LY R	060	GILROK2EA0EY		010TF			1214	+	04600			A	JS
SUSAP KSJCK2FR12LY R	070	GILROK2EA0EE	L	HM			30140040	+	04600			A	JS

[illegible][illegible][illegible]

SUP:	
AMDT:	2
DATED:	09/23/2010

Page 4 of 5 Pages

QUALITY
24
CHECKED

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - FAR PART 97.33												
ARINC SUMMARY - 424-18 - RNAV (GPS)												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		ROSTE	010	FACF	IF		FB					
		OMSEE	020	FAF	TF		FB	0.5	122.7 (138.7T)	003.2	AA 01800	
		RW12L	030	MAP	TF		FO	0.3	122.8 (138.8T)	005.4	AT 00095	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		122.8 (138.8T)		AA 00294	
		COKOR	050		DF		FB					
		GILRO	060		TF		FO	1.0	121.4 (137.4T)		AA 04600	
		GILRO	070		HM	L	FO		301.4 (317.4T)	004.0	AA 04600	
POINT DATA		WAYPOINT		LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS		
		COKOR		N371658.57		W1215021.83		N3716.976		W12150.364		
		GILRO		N370246.62		W1213406.76		N3702.777		W12134.113		
		OMSEE		N372622.55		W1220039.98		N3726.376		W12200.666		
		ROSTE		N372846.10		W1220317.91		N3728.768		W12203.299		
		RW12L		N372220.25		W1215613.97		N3722.338		W12156.233		
RUNWAY DATA				THRESHOLD								
		RWY		ELEVATION		TCH						
		RW12L		00038		57						

CITY AND STATE SAN JOSE, CA	ELEVATION: 62	TDZE: 44	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) Y RWY 12L, AMDT 3 5 MARCH 2015	SUP:
	AIRPORT NAME: NORMAN Y. MINETA SAN JOSE INTL		RNAV		AMDT: 2
					DATED: 09/23/2010

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33						Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.										
TERMINAL ROUTES											MISSED APPROACH					
FROM		TO		COURSE AND DISTANCE				ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW12R CLIMB TO 4600 DIRECT HIVAK AND ON TRACK 120.87 TO GILRO AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NW, LT, 121.54 INBOUND CHART FAS OBST: 252 TWR 372337N/1215818W DISTANCE TO THLD FROM 252 HAT: 0.45 NM. CHART VDP AT 1.28 MILES TO RW12R* * LNAV ONLY.						
ARTAQ (IF)		SUNNE (FB)		122.80 / 2.00				1800								
SUNNE		RW12R (MAP) (FO)		122.77 / 5.35												
RW12R (MAP)		246 MSL		122.77												
246 MSL		HIVAK (FB)						4600								
HIVAK		GILRO (FO)		120.87/17.04												
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT ARTAQ _____ 3. FAC: 122.77 FAF: SUNNE DIST FAF TO MAP: 5.35 THLD: 5.35 4. MIN. ALT: ARTAQ 1800, SUNNE 1800 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 1800 GS ALT AT: SUNNE 1800 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 58.0 34:1 IS CLEAR 8. MSA FROM: RW12R 5600											WAAS CHANNEL # 90106 REFERENCE PATH ID: W12A MAG VAR: 16E EPOCH YEAR: 1990					
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A								
CATEGORY =====>		A		B		C		D		E						
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
LPV DA	246	1/2	200	246	1/2	200	246	1/2	200	246	1/2	200				
LNAV/VNAV DA	371	5/8	325	371	5/8	325	371	5/8	325	371	5/8	325				
LNAV MDA	520	1/2	474	520	1/2	474	520	1	474	520	1	474				
SIDESTEP 12L	520	1	476	520	1	476	520	1 1/2	476	520	2	476				
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -1C (31F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: RADAR REQUIRED. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT. CHART NOTE: FOR INOPERATIVE MALSR, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 1 MILE AND LNAV CATS C/D VISIBILITY TO 1 3/8 MILE.																
CITY AND STATE SAN JOSE, CA			ELEVATION: 62 AIRPORT NAME: NORMAN Y. MINETA SAN JOSE INTL		TDZE: 12R 46 TDZE: 12L 44		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 12R, AMDT 3 5 MARCH 2015				SUP:			
													AMDT: 2A			
													DATED 09/24/2009			

QUALITY
 24
 CHECKED

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

CITY AND STATE

SAN JOSE, CA

ELEVATION: 62

AIRPORT NAME:

NORMAN Y. MINETA SAN JOSE INTL

TDZE: 12R 46
TDZE: 12L 44

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) Y RWY 12R, AMDT 3
5 MARCH 2015

SUP:

AMDT: 2A

DATED: 09/24/2009

RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KSJC
RUNWAY	RW12R
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W12A
LTP/FTP LATITUDE	372215.7695N
LTP/FTP LONGITUDE	1215620.5710W
LTP/FTP ELLIPSOIDAL HEIGHT	-00211
FPAP LATITUDE	372103.5700N
FPAP LONGITUDE	1215501.4375W
THRESHOLD CROSSING HEIGHT (TCH)	00058.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

<u>CRC REMAINDER</u>	6B0170EE

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+00115
FPAP ORTHOMETRIC HEIGHT	+00115

QUALITY
24
CHECKED

CITY AND STATE

SAN JOSE, CA

ELEVATION: 62

AIRPORT NAME:

NORMAN Y. MINETA SAN JOSE INTL

TDZE: 12R 46
TDZE: 12L 44FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) Y RWY 12R, AMDT 3

5 MARCH 2015

SUP:

AMDT: 2A

DATED: 09/24/2009

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KSJCK2FR12RY	R	010	ARTAQK2EA0E	I	IF				18000		A	JS
SUSAP	KSJCK2FR12RY	R	020	SUNNEK2EA1E	F	051TF	12280020	+	01800		RW12R	K2PGA	JS
SUSAP	KSJCK2FR12RY	R	020	SUNNEK2EA2WALPV		ALNAV/VNAV	ALNAV						JS
SUSAP	KSJCK2FR12RY	R	030	RW12RK2PG0GY	M	031TF	12280054		00096		-300		A JS
SUSAP	KSJCK2FR12RY	R	040		0	M	CA	1228	+	00246			A JS
SUSAP	KSJCK2FR12RY	R	050	HIVAKK2EA0E		DF							A JS
SUSAP	KSJCK2FR12RY	R	060	GILROK2EA0EY		010TF	1209	+	04600				A JS
SUSAP	KSJCK2FR12RY	R	070	GILROK2EA0EE	L	HM	12150050	+	04600				A JS

[illegible][illegible][illegible]

SUP:	
AMDT:	2A
DATED:	09/24/2009

Page 4 of 5 Pages

QUALITY
24
CHECKED

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - FAR PART 97.33												
ARINC SUMMARY - 424-18 - RNAV (GPS)												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		ARTAQ	010	FACF	IF		FB					
		SUNNE	020	FAF	TF		FB	0.5	122.8 (138.8T)	002.0	AA 01800	
		RW12R	030	MAP	TF		FO	0.3	122.8 (138.8T)	005.4	AT 00096	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		122.8 (138.8T)		AA 00246	
		HIVAK	050		DF		FB					
		GILRO	060		TF		FO	1.0	120.9 (136.9T)		AA 04600	
		GILRO	070		HM	L	FO		121.5 (137.5T)	005.0	AA 04600	
POINT DATA		WAYPOINT			LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS	
		ARTAQ			N372748.04		W1220225.34		N3727.801		W12202.422	
		GILRO			N370246.62		W1213406.76		N3702.777		W12134.113	
		HIVAK			N371514.72		W1214839.89		N3715.245		W12148.665	
		SUNNE			N372617.63		W1220046.10		N3726.294		W12200.768	
		RW12R			N372215.77		W1215620.57		N3722.263		W12156.343	
RUNWAY DATA				THRESHOLD								
		RWY		ELEVATION		TCH						
		RW12R		00038		58						



CITY AND STATE SAN JOSE, CA	ELEVATION: 62	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) Y RWY 12R, AMDT 3 5 MARCH 2015	SUP:
	AIRPORT NAME: NORMAN Y. MINETA SAN JOSE INTL			AMDT: 2A
	DATED: 09/24/2009			

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33							Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.						
TERMINAL ROUTES														MISSED APPROACH						
FROM				TO			COURSE AND DISTANCE				ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW30L CLIMB TO 2300 DIRECT ARTAQ AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NW, RT, 122.72 INBOUND. CHART FAS OBST: 373 BLDG 371938N/1215321W DISTANCE TO THLD FROM 200 HAT: 0.46 NM. CHART VDP AT 1.60 MILES TO RW30L* *LNAV ONLY. WAAS CHANNEL # 97306 REFERENCE PATH ID: W30A CHART CIRCLING ICON LTP HAE: -15.2 M							
BORED (IAF)				SWIGS (FB)			218.02 / 10.36				5200									
SWIGS				KLIDE (FB)			217.93 / 4.44				4000									
KLIDE (IF)				HIVAK (FB)			302.94 / 7.15				2700									
HIVAK (FAF)				FORUL/2.80 NM TO RW30L (FB)			302.89 / 5.33													
FORUL/2.80 NM TO RW30L				RW30L (MAP) (FO)			302.89 / 2.80													
RW30L (MAP)				257 MSL			302.89													
257 MSL				ARTAQ (FO)							2300									
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)														MAG VAR: 16E EPOCH YEAR: 1990						
2. PROFILE STARTS AT KLIDE																				
3. FAC: 302.89 FAF: HIVAK DIST FAF TO MAP: 8.13 THLD: 8.13																				
4. MIN. ALT: KLIDE 4000, HIVAK 2700, FORUL/2.80 NM TO RW30L 1000*																				
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____																				
6. MIN GS INCPT: 2700 GS ALT AT: HIVAK 2700 OM: _____ MM: _____ IM: _____																				
7. GS ANGLE: 3.00 TCH: 54.4 34:1 IS CLEAR																				
8. MSA FROM: RW30L 5600																				
MINIMUMS																				
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		STANDARD											
CATEGORY =====>		A			B			C			D			E						
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA					
LPV DA	257	2400	200	257	2400	200	257	2400	200	257	2400	200								
LNAV/VNAV DA	540	6000	483	540	6000	483	540	6000	483	540	6000	483								
LNAV MDA	640	2400	585	640	2400	585	640	1 1/4	585	640	1 1/4	585								
SIDESTEP 30R	640	1	585	640	1	585	640	1 1/2	585	640	2	585								
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -1C (31F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BORED ON V301 SOUTHEAST BOUND. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT.																				
CITY AND STATE SAN JOSE, CA				ELEVATION: 62 TDZE: 57 AIRPORT NAME: NORMAN Y. MINETA SAN JOSE INTL				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 30L, AMDT 3 5 MARCH 2015						SUP: AMDT: 2 DATED 07/31/2008				

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

QUALITY
6
CHECKED

CITY AND STATE
SAN JOSE, CA

ELEVATION: 62 TDZE: 57
AIRPORT NAME:
NORMAN Y. MINETA SAN JOSE INTL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) Y RWY 30L, AMDT 3
5 MARCH 2015

SUP:
AMDT: 2
DATED: 07/31/2008

RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KSJC
RUNWAY	RW30L
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W30A
LTP/FTP LATITUDE	372122.4530N
LTP/FTP LONGITUDE	1215522.1280W
LTP/FTP ELLIPSOIDAL HEIGHT	-00152
FPAP LATITUDE	372229.5895N
FPAP LONGITUDE	1215635.7275W
THRESHOLD CROSSING HEIGHT (TCH)	00054.4
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0168
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
<u>CRC REMAINDER</u>	FC66CCC1

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+00173
FPAP ORTHOMETRIC HEIGHT	+00173

QUALITY
6
CHECKED

CITY AND STATE

SAN JOSE, CA

ELEVATION: 62

TDZE: 57

AIRPORT NAME:

NORMAN Y. MINETA SAN JOSE INTL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) Y RWY 30L, AMDT 3

5 MARCH 2015

SUP:

AMDT: 2

DATED: 07/31/2008

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KSJCK2FR30LY	ABORED	010BOREDK2EA0E	A	IF					18000		A	JS
SUSAP	KSJCK2FR30LY	ABORED	020SWIGSK2EA0E		010TF		21800104	+	05200			A	JS
SUSAP	KSJCK2FR30LY	ABORED	030KLIDEK2EA0EE	B	010TF		21790044					A	JS
SUSAP	KSJCK2FR30LY	R	010KLIDEK2EA0E	I	IF			+	04000	18000		A	JS
SUSAP	KSJCK2FR30LY	R	020HIVAKK2EA1E	F	051TF		30290072	+	02700		RW30L	K2PGA	JS
SUSAP	KSJCK2FR30LY	R	020HIVAKK2EA2WALPV			ALNAV/VNAV	ALNAV						JS
SUSAP	KSJCK2FR30LY	R	021FORULK2EA0E	S	031TF		30290053	V	0100001003		-300	A	JS
SUSAP	KSJCK2FR30LY	R	030RW30LK2PGOGY	M	031TF		30290028		00111		-300	A	JS
SUSAP	KSJCK2FR30LY	R	040		0	M	CA	3029	+	00257		A	JS
SUSAP	KSJCK2FR30LY	R	050ARTAQK2EA0EY		DF				+	02300		A	JS
SUSAP	KSJCK2FR30LY	R	060ARTAQK2EA0EE	R	HM		12270040	+	02300			A	JS

[illegible][illegible][illegible]

CITY AND STATE SAN JOSE, CA	ELEVATION: 62 TDZE: 57 AIRPORT NAME: NORMAN Y. MINETA SAN JOSE INTL	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
		RNAV	RNAV (GPS) Y RWY 30L, AMDT 3	AMDT: 2
			5 MARCH 2015	DATED: 07/31/2008

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

SUSAP KSJCK2SRW30LK2PG

0 18018005625

M

QUALITY
15
CHECKED

CITY AND STATE
SAN JOSE, CA

ELEVATION: **62** TDZE: **57**
AIRPORT NAME:
NORMAN Y. MINETA SAN JOSE INTL

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
RNAV (GPS) Y RWY 30L, AMDT 3
5 MARCH 2015

SUP:
AMDT: **2**
DATED: **07/31/2008**

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
ARINC SUMMARY - 424-18 - RNAV (GPS)												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	BORED	BORED	010	IAF	IF		FB					
	BORED	SWIGS	020		TF		FB	1.0	218.0 (234.0T)	010.4	AA 05200	
	BORED	KLIDE	030		TF		FB	1.0	217.9 (233.9T)	004.4		
		KLIDE	010	FACF	IF		FB				AA 04000	
		HIVAK	020	FAF	TF		FB	0.5	302.9 (318.9T)	007.2	AA 02700	
		FORUL	021	SDF	TF		FB	0.3	302.9 (318.9T)	005.3	AA 01000	GS 01003
		RW30L	030	MAP	TF		FO	0.3	302.9 (318.9T)	002.8	AT 00111	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		302.9 (318.9T)		AA 00257	
		ARTAQ	050		DF		FO				AA 02300	
		ARTAQ	060		HM	R	FO		122.7 (138.7T)	004.0	AA 02300	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		ARTAQ	N372748.04		W1220225.34		N3727.801		W12202.422			
		BORED	N371834.16		W1212748.06		N3718.569		W12127.801			
		FORUL	N371915.83		W1215303.45		N3719.264		W12153.058			
		HIVAK	N371514.72		W1214839.89		N3715.245		W12148.665			
		KLIDE	N370951.03		W1214246.98		N3709.851		W12142.783			
		SWIGS	N371228.18		W1213817.60		N3712.470		W12138.293			
		RW30L	N372122.45		W1215522.13		N3721.374		W12155.369			
RUNWAY DATA		RWY	THRESHOLD ELEVATION		TCH							
		RW30L	00057		54							

CITY AND STATE SAN JOSE, CA	ELEVATION: 62 AIRPORT NAME: NORMAN Y. MINETA SAN JOSE INTL	TDZE: 57	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) Y RWY 30L, AMDT 3 5 MARCH 2015	SUP: AMDT: 2 DATED: 07/31/2008

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION						RNAV (RNP) - STANDARD, INSTRUMENT APPROACH PROCEDURE, TITLE 14 CFR PART 97.33						Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.							
TERMINAL ROUTES												MISSED APPROACH							
FROM		TO		COURSE AND DISTANCE				ALTITUDE		RNP: DA CLIMB TO 4600 ON TRACK 122.80 TO COKOR AND ON TRACK 121.43 TO GILRO AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4600. ADDITIONAL FLIGHT DATA: HOLD NW, LT, 121.54 INBOUND. DISTANCE TO THLD FROM 341 HAT: 0.89 NM. CHART MANDATORY 4000 AT JESEN. CHART MANDATORY 3500 AT RERAE. #TCH 94.6 MSL (DO NOT CHART) ROUTE TYPE: A, H ROUTE TYPE QUALIFIER 2: S ROUTE TYPE QUALIFIER 1: F									
ARTAQ (IAF)		OMSEE (TF) (FB) (RNP 1.00)		119.50 / 2.00				1800											
OMSEE (IF)		HINIR (TF) (FB) (RNP 1.00)		122.77 / 2.20				1100											
JESEN (IAF)		HITIR (TF) (FB) (RNP 1.00)		302.63 / 3.02				3600											
HITIR (IF)		ZORSA (TF) (FB) (RNP 1.00)		302.99 / 2.42				3000											
ZORSA		NIBUY (RF) (FB) (RNP 1.00)		(2.22 NM RADIUS CW (CFBLQ))/4.46				1800											
(SEE FORM 8260-10)																			
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT HINIR 3. FAC: <u>122.78</u> FAF: _____ DIST FAF TO MAP: _____ THLD: _____ 4. MIN. ALT: <u>HINIR 1100</u> 5. DIST TO THLD FROM OM: <u>3.16</u> MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: <u>1100</u> GS ALT AT: <u>HINIR 1100</u> OM: _____ MM: _____ IM: _____ 7. GS ANGLE: <u>3.00</u> TCH: <u>#57.0</u> 34:1 IS NOT CLEAR 8. MSA FROM: <u>RW12L 5600</u>																			
												MAG VAR: 16E			EPOCH YEAR: 1990				
MINIMUMS																			
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A		STANDARD							
CATEGORY =====>		A		B		C		D		E									
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS		
AUTHORIZATION REQUIRED																			
RNP 0.18 DA	385	1 1/8	341	385	1 1/8	341	385	1 1/8	341	385	1 1/8	341							
RNP 0.30 DA	451	1 3/8	407	451	1 3/8	407	451	1 3/8	407	451	1 3/8	407							
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -1C (31F) OR ABOVE 54C (130F). CHART PLANVIEW NOTE ADJACENT TO JESEN IAF: RF REQUIRED. CHART PLANVIEW NOTE ADJACENT TO WADVA IAF: RF REQUIRED. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT. (SEE FORM 8260-10)																			
CITY AND STATE				ELEVATION: 62 TDZE: 44				FACILITY IDENTIFIER: RNAV				PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:			
SAN JOSE, CA				AIRPORT NAME:								RNAV (RNP) Z RWY 12L, AMDT 1 5 MARCH 2015				AMDT: ORIG-A			
				NORMAN Y. MINETA SAN JOSE INTL												DATED 06/30/2011			



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION			Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.	
RNAV (RNP) - STANDARD, INSTRUMENT APPROACH PROCEDURE, - TITLE 14 CFR PART 97.33				
TERMINAL ROUTES, (CONT.):				
FROM	TO	COURSE AND DISTANCE	ALTITUDE	
NIBUY	HINIR (RF) (FB) (RNP 1.00)	(2.22 NM RADIUS CW (CFBLF))/2.50	1100	
WADVA (IAF)	RERAE (TF) (FB) (RNP 1.00)	071.08 / 4.00	3500	
RERAE (IF)	NIBUY (TF) (FB) (RNP 1.00)	057.95 / 5.37	1800	
HINIR (FAF)	RW12L (MAP) (TF) (FO)	122.78 / 3.16		
RW12L (MAP)	COKOR (TF) (FB) (RNP 1.00)	122.80 / 7.11		
COKOR (TF)	GILRO (TF) (FO) (RNP 1.00)	121.43 / 19.23	4600	
NOTES, (CONT.): CHART PLANVIEW NOTE: RADAR REQUIRED. CHART NOTE: GPS REQUIRED. CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS. CHART SPEED ICON IN PLANVIEW AT NIBUY: MAX 180 KIAS. CHART SPEED ICON IN PLANVIEW AT ZORSA: MAX 180 KIAS.				
QUALITY 2 CHECKED				
CITY AND STATE	ELEVATION: 62	TDZE: 44	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:
SAN JOSE, CA	AIRPORT NAME:		RNAV	RNAV (RNP) Z RWY 12L, AMDT 1
	NORMAN Y. MINETA SAN JOSE INTL			5 MARCH 2015
			SUP:	
			AMDT:	ORIG-A
			DATED:	06/30/2011

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible]

CITY AND STATE SAN JOSE, CA	ELEVATION: 62 AIRPORT NAME: NORMAN Y. MINETA SAN JOSE INTL	TDZE: 44	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
				RNAV (RNP) Z RWY 12L, AMDT 1	AMDT: ORIG-A
				5 MARCH 2015	DATED: 06/30/2011

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (RNP) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

SUSAP KSJCK2FH12LZ H 040COKORK2PC0E M 010TF A FS
SUSAP KSJCK2FH12LZ H 050GILROK2EA0EY 010TF + 04600 A FS
SUSAP KSJCK2FH12LZ H 060GILROK2EA0EE L HM 12150050 + 04600 A FS

1 2 3 4 5 6 7 8 9 0 1 2 3
RUNWAY 1234567890123456789012345678901234567890123456789012345678901234567890123456789012

SUSAP KSJCK2GRW12L 0110001228 N37222025W121561397+0200 -0021100038130757150R

1 2 3 4 5 6 7 8 9 0 1 2 3
MSA 1234567890123456789012345678901234567890123456789012345678901234567890123456789012

SUSAP KSJCK2SRW12LK2PG 0 18018005625 M

QUALITY
12
CHECKED

CITY AND STATE SAN JOSE, CA	ELEVATION: 62 TDZE: 44	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (RNP) Z RWY 12L, AMDT 1 5 MARCH 2015	SUP:
	AIRPORT NAME: NORMAN Y. MINETA SAN JOSE INTL			AMDT: ORIG-A
				DATED: 06/30/2011

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
RNAV (RNP) STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33												
ARINC SUMMARY - 424-18 - RNAV (RNP)												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	ARTAQ	ARTAQ	010	IAF	IF		FB					
	ARTAQ	OMSEE	020		TF		FB	1.0			AA 01800	
	ARTAQ	HINIR	030		TF		FB	1.0			AA 01100	
	JESEN	JESEN	010	IAF	IF		FB				AT 04000	
	JESEN	HITIR	020		TF		FB	1.0			AA 03600	
	JESEN	ZORSA	030		TF		FB	1.0			AA 03000	AB 180
	JESEN	NIBUY	040		RF	R	FB	1.0		004.5	AA 01800	AB 180
	JESEN	HINIR	050		RF	R	FB	1.0		002.5	AA 01100	
	WADVA	WADVA	010	IAF	IF		FB					
	WADVA	RERAE	020		TF		FB	1.0			AT 03500	
	WADVA	NIBUY	030		TF		FB	1.0			AA 01800	AB 180
	WADVA	HINIR	040		RF	R	FB	1.0		002.5	AA 01100	
		HINIR	020	FAF	IF		FB				AA 01100	
		RW12L	030	MAP	TF		FO	0.3			AT 00095	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		COKOR	040		TF		FB	1.0				
		GILRO	050		TF		FO	1.0			AA 04600	
		GILRO	060		HM	L	FO		121.5 (137.5T)	005.0	AA 04600	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		GILRO	N370246.62		W1213406.76		N3702.777		W12134.113			
		ARTAQ	N372748.04		W1220225.34		N3727.801		W12202.422			
		CFBLF	N372315.18		W1220056.10		N3723.253		W12200.935			
		CFBLQ	N372315.05		W1220056.05		N3723.251		W12200.934			
		COKOR	N371658.57		W1215021.83		N3716.976		W12150.364			
		HINIR	N372442.95		W1215850.56		N3724.716		W12158.843			
		HITIR	N371957.71		W1220102.41		N3719.962		W12201.040			
		JESEN	N371741.39		W1215832.05		N3717.690		W12158.534			
		NIBUY	N372523.21		W1220142.06		N3725.387		W12201.701			
		OMSEE	N372622.55		W1220039.98		N3726.376		W12200.666			
		RERAE	N372354.18		W1220810.83		N3723.903		W12208.181			
		WADVA	N372342.04		W1221311.62		N3723.701		W12213.194			
		ZORSA	N372147.56		W1220302.11		N3721.793		W12203.035			
		RW12L	N372220.25		W1215613.97		N3722.338		W12156.233			
RUNWAY DATA		RWY	THRESHOLD ELEVATION		TCH							
		RW12L	00038		57							
CITY AND STATE		ELEVATION: 62		TDZE: 44		FACILITY IDENTIFIER:		PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:		SUP:		
SAN JOSE, CA		AIRPORT NAME:		NORMAN Y. MINETA SAN JOSE INTL		RNAV		RNAV (RNP) Z RWY 12L, AMDT 1		AMDT: ORIG-A		
								5 MARCH 2015		DATED: 06/30/2011		

QUALITY
12
CHECKED

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION						RNAV (RNP) - STANDARD, INSTRUMENT APPROACH PROCEDURE, TITLE 14 CFR PART 97.33						Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.																	
TERMINAL ROUTES												MISSED APPROACH																	
FROM			TO			COURSE AND DISTANCE			ALTITUDE			RNP: DA CLIMB TO 4600 ON TRACK 122.80 TO HOSBO AND ON TRACK 120.89 TO GILRO AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NW, LT, 121.54 INBOUND. DISTANCE TO THLD FROM 334 HAT: 0.89 NM. CHART MANDATORY 3500 AT RERAE. ROUTE TYPE QUALIFIER 2: S #TCH 95.7 MSL (DO NOT CHART) ROUTE TYPE QUALIFIER 1: F ROUTE TYPE: A, H																	
ARTAQ (IAF)			SUNNE (TF) (FB) (RNP 1.00)			122.80 / 2.00			1800																				
SUNNE (IF)			FOXAG (TF) (FB) (RNP 1.00)			122.77 / 2.20			1100																				
JESEN (IAF)			HITIR (TF) (FB) (RNP 1.00)			302.63 / 3.02			3600																				
HITIR (IF)			ZORSA (TF) (FB) (RNP 1.00)			302.99 / 2.42			3000																				
ZORSA			PUAKO (RF) (FB) (RNP 1.00)			(2.16 NM RADIUS CW (CFNRT))/4.37			1800																				
(SEE FORM 8260-10)																													
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT FOXAG 3. FAC: 122.78 FAF: _____ DIST FAF TO MAP: _____ THLD: _____ 4. MIN. ALT: FOXAG 1100 5. DIST TO THLD FROM OM: 3.15 MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 1100 GS ALT AT: FOXAG 1100 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: #58.0 34:1 IS CLEAR 8. MSA FROM: RW12R 5600																		MAG VAR: 16E						EPOCH YEAR: 1990					
MINIMUMS																													
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A		STANDARD																	
CATEGORY ==>		A			B			C			D			E															
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA														
AUTHORIZATION REQUIRED																													
RNP 0.15 DA	380	5/8	334	380	5/8	334	380	5/8	334	380	5/8	334																	
RNP 0.30 DA	486	1	440	486	1	440	486	1	440	486	1	440																	
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -1C (31F) OR ABOVE 54C (130F). CHART SPEED ICON IN PLANVIEW AT ZORSA : MAX 180 KIAS. CHART SPEED ICON IN PLANVIEW AT PUAKO : MAX 180 KIAS. CHART PLANVIEW NOTE ADJACENT TO JESEN IAF: RF REQUIRED. (SEE FORM 8260-10)																													
CITY AND STATE				ELEVATION: 62 TDZE: 46				FACILITY IDENTIFIER: RNAV				PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:													
SAN JOSE, CA				AIRPORT NAME:								RNAV (RNP) Z RWY 12R, AMDT 2				AMDT: 1A													
				NORMAN Y. MINETA SAN JOSE INTL								5 MARCH 2015				DATED 06/30/2011													

QUALITY
2
CHECKED

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION			Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.	
RNAV (RNP) - STANDARD, INSTRUMENT APPROACH PROCEDURE, - TITLE 14 CFR PART 97.33				
TERMINAL ROUTES, (CONT.):				
FROM	TO	COURSE AND DISTANCE	ALTITUDE	
PUAKO	FOXAG (RF) (FB) (RNP 1.00)	(2.16 NM RADIUS CW (CFBNV))/2.41	1100	
WADVA (IAF)	RERAE (TF) (FB) (RNP 1.00)	071.08 / 4.00	3500	
RERAE (IF)	PUAKO (TF) (FB) (RNP 1.00)	058.84 / 5.35	1800	
FOXAG (FAF)	RW12R (MAP) (TF) (FO)	122.78 / 3.15		
RW12R (MAP)	HOSBO (TF) (FB) (RNP 1.00)	122.80 / 9.13		
HOSBO (TF)	GILRO (TF) (FO) (RNP 1.00)	120.89 / 17.22	4600	
NOTES, (CONT.): CHART PLANVIEW NOTE ADJACENT TO WADVA IAF: RF REQUIRED. CHART NOTE: GPS REQUIRED. CHART PLANVIEW NOTE: RADAR REQUIRED. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT. CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.				
QUALITY 2 CHECKED				
CITY AND STATE SAN JOSE, CA	ELEVATION: 62 AIRPORT NAME: NORMAN Y. MINETA SAN JOSE INTL	TDZE: 46	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (RNP) Z RWY 12R, AMDT 2 5 MARCH 2015
				SUP:
				AMDT: 1A
				DATED: 06/30/2011

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (RNP) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC PACKET - 424-18 - RNAV (RNP)

	1	2	3	4	5	6	7	8	9	0	1	2	3
WP	123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												
	SUSAE	AE	NRT	GILRO	K20	C	L	N37024662W121340676	E0135	NAR	GILRO		

	1	2	3	4	5	6	7	8	9	0	1	2	3
AIRPORT	123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												
	SUSAP	KSJCK2ASJC	0	110YHN37214560W121554480E016000062	1800018000C	MNAR	NORMAN Y. MINETA SAN JOSE INTL						

	1	2	3	4	5	6	7	8	9	0	1	2	3
TRM WP	123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												
	SUSAP	KSJCK2CARTAQ	K20	C	N37274804W122022534	E0137	NAR	ARTAQ					
	SUSAP	KSJCK2CCFBNV	K20	A	N37231275W122005937	E0137	NAR	CNF (CFBNV)					
	SUSAP	KSJCK2CCFNRT	K20	A	N37231276W122005937	E0137	NAR	CNF (CFNRT)					
	SUSAP	KSJCK2CFOXAG	K20	W	N37243831W121585698	E0137	NAR	FOXAG					
	SUSAP	KSJCK2CHITIR	K20	W	N37195771W122010241	E0136	NAR	HITIR					
	SUSAP	KSJCK2CHOSBO	K20	W	N37152280W121484871	E0136	NAR	HOSBO					
	SUSAP	KSJCK2CJESEN	K20	C	N37174139W121583205	E0136	NAR	JESEN					
	SUSAP	KSJCK2CPUAKO	K20	W	N37251810W122014175	E0137	NAR	PUAKO					
	SUSAP	KSJCK2CRERAE	K20	W	N37235418W122081083	E0137	NAR	RERAE					
	SUSAP	KSJCK2CSUNNE	K20	C	N37261763W122004610	E0137	NAR	SUNNE					
	SUSAP	KSJCK2CWADVA	K20	W	N37234204W122131162	E0137	NAR	WADVA					
	SUSAP	KSJCK2CZORSA	K20	W	N37214756W122030211	E0137	NAR	ZORSA					

	1	2	3	4	5	6	7	8	9	0	1	2	3
SEGMENT	123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												
	SUSAP	KSJCK2FH12RZ	AARTAQ	010ARTAQK2PC0E	A	IF				18000	A	FS	
	SUSAP	KSJCK2FH12RZ	AARTAQ	020SUNNEK2PC0E	B	010TF			+ 01800		A	FS	
	SUSAP	KSJCK2FH12RZ	AARTAQ	030FOXAGK2PC0EE		010TF			+ 01100		A	FS	
	SUSAP	KSJCK2FH12RZ	AJESEN	010JESENK2PC0E	A	IF				18000	A	FS	
	SUSAP	KSJCK2FH12RZ	AJESEN	020HITIRK2PC0E	B	010TF			+ 03600		A	FS	
	SUSAP	KSJCK2FH12RZ	AJESEN	030ZORSAK2PC0E		010TF			+ 03000	180	A	-FS	
	SUSAP	KSJCK2FH12RZ	AJESEN	040PUAKOK2PC0E	R010RF		0021603030	05880044	+ 01800	180	CFNRT	K2PCA	-FS
	SUSAP	KSJCK2FH12RZ	AJESEN	050FOXAGK2PC0EE	R010RF		0021600588	12280024	+ 01100		CFBNV	K2PCA	FS
	SUSAP	KSJCK2FH12RZ	AWADVA	010WADVAK2PC0E	A	IF				18000	A	FS	
	SUSAP	KSJCK2FH12RZ	AWADVA	020RERAEK2PC0E	B	010TF			03500		A	FS	
	SUSAP	KSJCK2FH12RZ	AWADVA	030PUAKOK2PC0E		010TF			+ 01800	180	A	-FS	
	SUSAP	KSJCK2FH12RZ	AWADVA	040FOXAGK2PC0EE	R010RF		0021600588	12280024	+ 01100		CFBNV	K2PCA	FS
	SUSAP	KSJCK2FH12RZ	H	020FOXAGK2PC1E	F	IF			+ 01100	18000	RW12R	K2PGA	FS
	SUSAP	KSJCK2FH12RZ	H	020FOXAGK2PC2W						A031A152		FS	
	SUSAP	KSJCK2FH12RZ	H	030RW12RK2PGOGY	M	031TF			00096	-300	A	FS	

QUALITY
12
CHECKED

CITY AND STATE SAN JOSE, CA	ELEVATION: 62 AIRPORT NAME: NORMAN Y. MINETA SAN JOSE INTL	TDZE: 46 RNAV	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (RNP) Z RWY 12R, AMDT 2 5 MARCH 2015	SUP:
					AMDT: 1A
					DATED: 06/30/2011

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (RNP) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

SUSAP KSJCK2FH12RZ H 040HOSBOK2PC0E M 010TF A FS
SUSAP KSJCK2FH12RZ H 050GILROK2EA0EY 010TF + 04600 A FS
SUSAP KSJCK2FH12RZ H 060GILROK2EA0EE L HM 12150050 + 04600 A FS

1 2 3 4 5 6 7 8 9 0 1 2 3
RUNWAY 1234567890123456789012345678901234567890123456789012345678901234567890123456789012

SUSAP KSJCK2GRW12R 0110001228 N37221577W121562057+0200 -0021100038129758150IISLV1

1 2 3 4 5 6 7 8 9 0 1 2 3
MSA 1234567890123456789012345678901234567890123456789012345678901234567890123456789012

SUSAP KSJCK2SRW12RK2PG 0 18018005625 M

QUALITY
12
CHECKED

CITY AND STATE SAN JOSE, CA	ELEVATION: 62 TDZE: 46 AIRPORT NAME: NORMAN Y. MINETA SAN JOSE INTL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (RNP) Z RWY 12R, AMDT 2 5 MARCH 2015	SUP:
				AMDT: 1A
				DATED: 06/30/2011

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
RNAV (RNP) STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33												
ARINC SUMMARY - 424-18 - RNAV (RNP)												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	ARTAQ	ARTAQ	010	IAF	IF		FB					
	ARTAQ	SUNNE	020		TF		FB	1.0			AA 01800	
	ARTAQ	FOXAG	030		TF		FB	1.0			AA 01100	
	JESEN	JESEN	010	IAF	IF		FB					
	JESEN	HITIR	020		TF		FB	1.0			AA 03600	
	JESEN	ZORSA	030		TF		FB	1.0			AA 03000	AB 180
	JESEN	PUAKO	040		RF	R	FB	1.0		004.4	AA 01800	AB 180
	JESEN	FOXAG	050		RF	R	FB	1.0		002.4	AA 01100	
	WADVA	WADVA	010	IAF	IF		FB					
	WADVA	RERAE	020		TF		FB	1.0			AT 03500	
	WADVA	PUAKO	030		TF		FB	1.0			AA 01800	AB 180
	WADVA	FOXAG	040		RF	R	FB	1.0		002.4	AA 01100	
		FOXAG	020	FAF	IF		FB				AA 01100	
		RW12R	030	MAP	TF		FO	0.3			AT 00096	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		HOSBO	040		TF		FB	1.0				
		GILRO	050		TF		FO	1.0			AA 04600	
		GILRO	060		HM	L	FO		121.5 (137.5T)	005.0	AA 04600	
POINT DATA		WAYPOINT	LAT IN SECS			LONG IN SECS		LAT IN MINS		LONG IN MINS		
		GILRO	N370246.62			W1213406.76		N3702.777		W12134.113		
		ARTAQ	N372748.04			W1220225.34		N3727.801		W12202.422		
		CFBNV	N372312.75			W1220059.37		N3723.213		W12200.990		
		CFNRT	N372312.76			W1220059.37		N3723.213		W12200.990		
		FOXAG	N372438.31			W1215856.98		N3724.639		W12158.950		
		HITIR	N371957.71			W1220102.41		N3719.962		W12201.040		
		HOSBO	N371522.80			W1214848.71		N3715.380		W12148.812		
		JESEN	N371741.39			W1215832.05		N3717.690		W12158.534		
		PUAKO	N372518.10			W1220141.75		N3725.302		W12201.696		
		RERAE	N372354.18			W1220810.83		N3723.903		W12208.181		
		SUNNE	N372617.63			W1220046.10		N3726.294		W12200.768		
		WADVA	N372342.04			W1221311.62		N3723.701		W12213.194		
		ZORSA	N372147.56			W1220302.11		N3721.793		W12203.035		
		RW12R	N372215.77			W1215620.57		N3722.263		W12156.343		
RUNWAY DATA		RWY	THRESHOLD ELEVATION		TCH							
		RW12R	00038		58							
CITY AND STATE		ELEVATION: 62		TDZE: 46		FACILITY IDENTIFIER:		PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:			SUP:	
SAN JOSE, CA		AIRPORT NAME:		NORMAN Y. MINETA SAN JOSE INTL		RNAV		RNAV (RNP) Z RWY 12R, AMDT 2 5 MARCH 2015			AMDT: 1A	
											DATED: 06/30/2011	



US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		RNAV (RNP) - STANDARD, INSTRUMENT APPROACH PROCEDURE, TITLE 14 CFR PART 97.33		Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.												
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO		COURSE AND DISTANCE				ALTITUDE		RNP: DA						
JILNA (IAF)		YADUT (TF) (FB) (RNP 1.00)		097.90 / 6.62				4800		CLIMB TO 2300 ON TRACK 302.83 TO ARTAQ AND HOLD.						
YADUT (IF)		HEPAP (RF) (FB) (RNP 0.60)		(3.09 NM RADIUS CCW (CFBJT))/2.72				4000								
HEPAP		FODPA (TF) (FB) (RNP 0.60)		047.65 / 2.48				3600								
FODPA		JEGSA (TF) (FB) (RNP 0.60)		047.70 / 2.66				2800								
JEGSA		WOXAR (RF) (FB) (RNP 0.50)		(2.10 NM RADIUS CCW (CFBKG))/3.85				1600		ADDITIONAL FLIGHT DATA: HOLD NW, RT, 122.72 INBOUND. ROUTE TYPE QUALIFIER2: S CHART MANDATORY 7000 AT JILNA. CHART MINIMUM 4000 AT KLIDE. ROUTE TYPE: A, H ROUTE TYPE QUALIFIER1: F DISTANCE TO THLD FROM 364 HAT: 0.97 NM. #TCH 111.3 MSL (DO NOT CHART)						
(SEE FORM 8260-10)																
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)										MAG VAR: 16E EPOCH YEAR: 1990						
2. PROFILE STARTS AT WOXAR																
3. FAC: 302.86 FAF: _____ DIST FAF TO MAP: _____ THLD: _____																
4. MIN. ALT: WOXAR 1600																
5. DIST TO THLD FROM OM: 4.67 MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____																
6. MIN GS INCPT: 1600 GS ALT AT: WOXAR 1600 OM: _____ MM: _____ IM: _____																
7. GS ANGLE: 3.00 TCH: 54.4# 34:1 IS CLEAR																
8. MSA FROM: RW30L 5600																
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		STANDARD						
CATEGORY ==>		A		B		C		D		E						
		DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
AUTHORIZATION REQUIRED																
RNP 0.15 DA		421	4000	364	421	4000	364	421	4000	364	421	4000	364			
RNP 0.30 DA		544	6000	487	544	6000	487	544	6000	487	544	6000	487			
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -1C (31F) OR ABOVE 54C (130F). CHART NOTE: GPS REQUIRED. CHART SPEED ICON IN PLANVIEW AT YADUT : MAX 210 KIAS. CHART SPEED ICON IN PLANVIEW AT KLIDE : MAX 230 KIAS. (SEE FORM 8260-10)																
CITY AND STATE SAN JOSE, CA		ELEVATION: 62 TDZE: 57 AIRPORT NAME: NORMAN Y. MINETA SAN JOSE INTL		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (RNP) Z RWY 30L, AMDT 2 5 MARCH 2015						SUP: AMDT: 1A DATED 06/30/2011				



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.	
RNAV (RNP) - STANDARD, INSTRUMENT APPROACH PROCEDURE, - TITLE 14 CFR PART 97.33					
TERMINAL ROUTES, (CONT.):					
FROM		TO	COURSE AND DISTANCE	ALTITUDE	
KLIDE (IF)		HOSBO (TF) (FB) (RNP 1.00)	302.94 / 7.33	2600	
HOSBO		WOXAR (TF) FB) (RNP 0.70)	302.89 / 3.28	1600	
WOXAR (FAF)		RW30L (MAP) (TF) (FO)	302.86 / 4.67		
RW30L (MAP)		ARTAQ (TF) (FO) (RNP 1.00)	302.83 / 8.53	2300	
NOTES, (CONT.): CHART SPEED ICON IN PLANVIEW AT JEGSA : MAX 180 KIAS. CHART PLANVIEW NOTE ADJACENT TO JILNA IAF: RF REQUIRED. CHART PLANVIEW NOTE AT JILNA: (RNP 0.50). CHART PLANVIEW NOTE AT KLIDE: (RNP 0.70). CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT. CHART NOTE: FOR INOPERATIVE MALSR, INCREASE RNP 0.15 ALL CATS VISIBILITY TO RVR 6000 AND INCREASE RNP 0.30 ALL CATS VISIBILITY TO 1 5/8 MILE. CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.					
CITY AND STATE SAN JOSE, CA		ELEVATION: 62 AIRPORT NAME: NORMAN Y. MINETA SAN JOSE INTL	TDZE: 57	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (RNP) Z RWY 30L, AMDT 2 5 MARCH 2015
					SUP: AMDT: 1A DATED: 06/30/2011



Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible][illegible][illegible][illegible]

QUALITY
3 12
CHECKED

FAA FORM 8260 - 10 / April 2006 (Computer Generated)

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION <u>RNAV (RNP) STANDARD INSTRUMENT APPROACH PROCEDURE</u> FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33	Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION <u>RNAV (RNP) STANDARD INSTRUMENT APPROACH PROCEDURE</u> FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33	Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible][illegible]

CITY AND STATE SAN JOSE, CA	ELEVATION: 62 TDZE: 57	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: NORMAN Y. MINETA SAN JOSE INTL		RNAV (RNP) Z RWY 30L, AMDT 2	AMDT: 1A
			5 MARCH 2015	DATED: 06/30/2011

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
RNAV (RNP) STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33												
ARINC SUMMARY - 424-18 - RNAV (RNP)												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	JILNA	JILNA	010	IAF	IF		FB				AT 07000	
	JILNA	YADUT	020		TF		FB	1.0			AA 04800	AB 210
	JILNA	HEPAP	030		RF	L	FB	0.6		002.7	AA 04000	
	JILNA	FODPA	040		TF		FB	0.6			AA 03600	
	JILNA	JEGSA	050		TF		FB	0.6			AA 02800	AB 180
	JILNA	WOXAR	060		RF	L	FB	0.5		003.9	AA 01600	
	KLIDE	KLIDE	010		IF		FB				AA 04000	AB 230
	KLIDE	HOSBO	020		TF		FB	1.0			AA 02600	
	KLIDE	WOXAR	030		TF		FB	0.7			AA 01600	
		WOXAR	020	FAF	IF		FB				AA 01600	
		RW30L	030	MAP	TF		FO	0.3			AT 00111	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		ARTAQ	040		TF		FO	1.0			AA 02300	
		ARTAQ	050		HM	R	FO		122.7 (138.7T)	004.0	AA 02300	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		ARTAQ	N372748.04		W1220225.34		N3727.801		W12202.422			
		CFBJT	N371503.98		W1215949.41		N3715.066		W12159.824			
		CFBKG	N371627.91		W1215329.69		N3716.465		W12153.495			
		FODPA	N371323.83		W1215519.12		N3713.397		W12155.319			
		HEPAP	N371217.63		W1215806.33		N3712.294		W12158.106			
		HOSBO	N371522.80		W1214848.71		N3715.380		W12148.812			
		JEGSA	N371434.66		W1215219.75		N3714.578		W12152.329			
		JILNA	N371455.70		W1220858.20		N3714.928		W12208.970			
		KLIDE	N370951.03		W1214246.98		N3709.851		W12142.783			
		WOXAR	N371751.02		W1215130.67		N3717.850		W12151.511			
		YADUT	N371214.36		W1220123.80		N3712.239		W12201.397			
		RW30L	N372122.45		W1215522.13		N3721.374		W12155.369			
RUNWAY DATA		RWY	THRESHOLD ELEVATION		TCH							
		RW30L	00057		54							



CITY AND STATE SAN JOSE, CA	ELEVATION: 62	TDZE: 57	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: NORMAN Y. MINETA SAN JOSE INTL		RNAV	RNAV (RNP) Z RWY 30L, AMDT 2	AMDT: 1A
				5 MARCH 2015	DATED: 06/30/2011

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				RNAV (RNP) - STANDARD, INSTRUMENT APPROACH PROCEDURE, TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.							
TERMINAL ROUTES										MISSED APPROACH					
FROM		TO		COURSE AND DISTANCE				ALTITUDE		RNP: DA CLIMB TO 600 THEN CLIMB TO 2300 DIRECT ARTAQ AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NW, RT, 122.72 INBOUND. CHART MINIMUM 4000 AT KLIDE. CHART MANDATORY 7000 AT JILNA. ROUTE TYPE QUALIFIER2: S ROUTE TYPE: A, H #TCH 110.1 MSL (DO NOT CHART) ROUTE TYPE QUALIFIER1: F DISTANCE TO THLD FROM 349 HAT: 0.92					
JILNA (IAF)		YADUT (TF) (FB) (RNP 1.00)		097.90 / 6.62				4800							
YADUT (IF)		HEPAP (RF) (FB) (RNP 0.60)		(3.09 NM RADIUS CCW (CFBJT))/2.72				4000							
HEPAP		FODPA (TF) (FB) (RNP 0.60)		047.65 / 2.48				3600							
FODPA		SIBAE (TF) (FB) (RNP 0.60)		047.73 / 2.75				2800							
SIBAE		TUZGY (RF) (FB) (RNP 0.50)		(2.12 NM RADIUS CCW (CFBKP))/3.89				1600							
(SEE FORM 8260-10)															
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT TUZGY 3. FAC: <u>302.86</u> FAF: _____ DIST FAF TO MAP: _____ THLD: _____ 4. MIN. ALT: <u>TUZGY 1600</u> 5. DIST TO THLD FROM OM: <u>4.68</u> MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: <u>1600</u> GS ALT AT: <u>TUZGY 1600</u> OM: _____ MM: _____ IM: _____ 7. GS ANGLE: <u>3.00</u> TCH: <u>55.0#</u> <u>34:1 IS CLEAR</u> 8. MSA FROM: <u>RW30R 5600</u>										MAG VAR: <u>16E</u> EPOCH YEAR: <u>1990</u>					
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		STANDARD					
CATEGORY ==>		A		B		C		D		E					
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
AUTHORIZATION REQUIRED															
RNP 0.11 DA	404	1 1/8	349	404	1 1/8	349	404	1 1/8	349	404	1 1/8	349			
RNP 0.20 DA	475	1 3/8	420	475	1 3/8	420	475	1 3/8	420	475	1 3/8	420			
RNP 0.30 DA	541	1 5/8	486	541	1 5/8	486	541	1 5/8	486	541	1 5/8	486			
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -1C (31F) OR ABOVE 54C (130F). CHART NOTE: GPS REQUIRED. CHART SPEED ICON IN PLANVIEW AT YADUT : MAX 210 KIAS. CHART SPEED ICON IN PLANVIEW AT SIBAE : MAX 180 KIAS. (SEE FORM 8260-10)															
CITY AND STATE		ELEVATION: 62 TDZE: 55		AIRPORT NAME:		FACILITY IDENTIFIER:		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:			
SAN JOSE, CA				NORMAN Y. MINETA SAN JOSE INTL		RNAV		RNAV (RNP) Z RWY 30R, AMDT 1 5 MARCH 2015				AMDT: ORIG-B			
												DATED 06/30/2011			



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.	
RNAV (RNP) - STANDARD, INSTRUMENT APPROACH PROCEDURE, - TITLE 14 CFR PART 97.33					
TERMINAL ROUTES, (CONT.):					
FROM		TO	COURSE AND DISTANCE	ALTITUDE	
KLIDE (IF)	KIRVE (TF) (FB) (RNP 1.00)	303.65 / 7.00	2600		
KIRVE	TUZGY (TF) (FB) (RNP 0.70)	303.35 / 3.60	1600		
TUZGY (FAF)	RW30R (MAP) (TF) (FO)	302.86 / 4.68			
RW30R (MAP)	600 MSL (CA)	302.86	600		
600 MSL	ARTAQ (DF) (FO)		2300		
NOTES, (CONT.): CHART SPEED ICON IN PLANVIEW AT KLIDE : MAX 230 KIAS. CHART PLANVIEW NOTE ADJACENT TO JILNA IAF: RF REQUIRED. CHART PLANVIEW NOTE AT JILNA: (RNP 0.50). CHART PLANVIEW NOTE AT KLIDE: (RNP 0.70). CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT. CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.					
QUALITY 14 CHECKED					
CITY AND STATE SAN JOSE, CA		ELEVATION: 62 AIRPORT NAME: NORMAN Y. MINETA SAN JOSE INTL	TDZE: 55	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (RNP) Z RWY 30R, AMDT 1 5 MARCH 2015
		SUP:			
		AMDT:			ORIG-B
		DATED:			06/30/2011

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KSJCK2FH30RZ	AJILNA	010JILNAK2PCOE	A	IF				07000	18000		A	FS
SUSAP	KSJCK2FH30RZ	AJILNA	020YADUTK2PCOE	B	010TF				+	04800	210	A	-FS
SUSAP	KSJCK2FH30RZ	AJILNA	030HEPAPK2PCOE	L061RF		0030900979	04770027		+	04000		CFBJT	K2PCA FS
SUSAP	KSJCK2FH30RZ	AJILNA	040FODPAK2PCOE	061TF					+	03600		A	FS
SUSAP	KSJCK2FH30RZ	AJILNA	050SIBAEK2PCOE	061TF					+	02800	180	A	-FS
SUSAP	KSJCK2FH30RZ	AJILNA	060TUZGYK2PCOEE	L051RF		0021200477	30290039		+	01600		CFBKP	K2PCA FS
SUSAP	KSJCK2FH30RZ	AKLIDE	010KLIDEK2PCOE	B	IF				+	04000	18000230		A
SUSAP	KSJCK2FH30RZ	AKLIDE	020KIRVEK2PCOE	010TF					+	02600		A	FS
SUSAP	KSJCK2FH30RZ	AKLIDE	030TUZGYK2PCOEE	071TF					+	01600		A	FS
SUSAP	KSJCK2FH30RZ	H	020TUZGYK2PC1E	F	IF				+	01600	18000	RW30R	K2PGA FS
SUSAP	KSJCK2FH30RZ	H	020TUZGYK2PC2W							A031A021A112			FS
SUSAP	KSJCK2FH30RZ	H	030RW30RK2PGOGY	M	031TF					00110	-300	A	FS
SUSAP	KSJCK2FH30RZ	H	040	0	M	CA	3029		+	00600		A	FS
SUSAP	KSJCK2FH30RZ	H	050ARTAQK2PCOEY	DF					+	02300		A	FS
SUSAP	KSJCK2FH30RZ	H	060ARTAQK2PCOEE	R	HM		12270040		+	02300		A	FS

[illegible]

QUALITY
12
CHECKED

CITY AND STATE SAN JOSE, CA	ELEVATION: 62 TDZE: 55	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (RNP) Z RWY 30R, AMDT 1	SUP:
	AIRPORT NAME: NORMAN Y. MINETA SAN JOSE INTL		5 MARCH 2015	AMDT: ORIG-B
				DATED: 06/30/2011

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

QUALITY
12
CHECKED

CITY AND STATE SAN JOSE, CA	ELEVATION: 62 AIRPORT NAME: NORMAN Y. MINETA SAN JOSE INTL	TDZE: 55 RNAV	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (RNP) Z RWY 30R, AMDT 1 5 MARCH 2015	SUP:
					AMDT: ORIG-B
					DATED: 06/30/2011

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
RNAV (RNP) STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33												
ARINC SUMMARY - 424-18 - RNAV (RNP)												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	JILNA	JILNA	010	IAF	IF		FB				AT 07000	
	JILNA	YADUT	020		TF		FB	1.0			AA 04800	AB 210
	JILNA	HEPAP	030		RF	L	FB	0.6		002.7	AA 04000	
	JILNA	FODPA	040		TF		FB	0.6			AA 03600	
	JILNA	SIBAE	050		TF		FB	0.6			AA 02800	AB 180
	JILNA	TUZGY	060		RF	L	FB	0.5		003.9	AA 01600	
	KLIDE	KLIDE	010		IF		FB				AA 04000	AB 230
	KLIDE	KIRVE	020		TF		FB	1.0			AA 02600	
	KLIDE	TUZGY	030		TF		FB	0.7			AA 01600	
		TUZGY	020	FAF	IF		FB				AA 01600	
		RW30R	030	MAP	TF		FO	0.3			AT 00110	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		302.9 (318.9T)		AA 00600	
		ARTAQ	050		DF		FO				AA 02300	
		ARTAQ	060		HM	R	FO		122.7 (138.7T)	004.0	AA 02300	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		ARTAQ	N372748.04		W1220225.34		N3727.801		W12202.422			
		CFBJT	N371503.98		W1215949.41		N3715.066		W12159.824			
		CFBKP	N371631.43		W1215324.21		N3716.524		W12153.404			
		FODPA	N371323.83		W1215519.12		N3713.397		W12155.319			
		HEPAP	N371217.63		W1215806.33		N3712.294		W12158.106			
		JILNA	N371455.70		W1220858.20		N3714.928		W12208.970			
		KIRVE	N371511.55		W1214827.78		N3715.193		W12148.463			
		KLIDE	N370951.03		W1214246.98		N3709.851		W12142.783			
		SIBAE	N371436.97		W1215213.62		N3714.616		W12152.227			
		TUZGY	N371755.40		W1215123.95		N3717.923		W12151.399			
		YADUT	N371214.36		W1220123.80		N3712.239		W12201.397			
		RW30R	N372127.00		W1215515.60		N3721.450		W12155.260			
RUNWAY DATA		RWY	THRESHOLD ELEVATION		TCH							
		RW30R	00055		55							



CITY AND STATE SAN JOSE, CA	ELEVATION: 62	TDZE: 55	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: NORMAN Y. MINETA SAN JOSE INTL		RNAV	RNAV (RNP) Z RWY 30R, AMDT 1 5 MARCH 2015	AMDT: ORIG-B
				DATED: 06/30/2011	

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION VOR STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23										Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.					
TERMINAL ROUTES										MISSED APPROACH					
FROM		TO			COURSE AND DISTANCE			ALTITUDE		MAP: SJC VOR/DME					
SJC VOR/DME		SUNNE INT/SJC 5.01 DME			303.47 / 5.01			2400		CLIMB TO 900 THEN CLIMBING LEFT TURN DIRECT SJC VOR/DME AND ON SJC VOR/DME R-303 TO SUNNE INT/SJC 5.01 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000.					
										ADDITIONAL FLIGHT DATA: CHART FAS OBST: 252 TWR 372337N/1215818W CHART VDP AT 0.99 DME DISTANCE VDP TO THLD 1.34 MILES. SUNNE TO RW12R: 3.01/55. CHART CIRCLING ICON. FAC 339R OF RWY C/L EXTENDED 3000 FROM THLD.					
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)															
2. HOLD NW SUNNE, RT, 123.47 INBOUND, 1800 FT. IN LIEU OF PT (IAF)															
3. FAC 123.47 FAF SUNNE INT/SJC 5.01 DME DIST FAF TO MAP 5.01 THLD 5.35															
4. MIN. ALT SUNNE INT/SJC 5.01 DME 1800															
8. MSA FROM: SJC VOR/DME 5600										MAG VAR: 16E			EPOCH YEAR:1990		
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A		STANDARD #			
CATEGORY =====>	A			B			C			D			E		
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA
S-12R	520	1/2	474	520	1/2	474	520	1	474	520	1	474			
SIDESTEP 12L	520	1	476	520	1	476	520	1 1/2	476	520	2	476			
CIRCLING	600	1	538	700	1	638	700	1 3/4	638	700	2	638			
NOTES: CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT. # NA WHEN CONTROL TOWER CLOSED.															
CITY AND STATE SAN JOSE, CA		ELEVATION: 62 AIRPORT NAME: NORMAN Y. MINETA SAN JOSE INTL		TDZE: 12R 46 TDZE: 12L 44		FACILITY IDENTIFIER: SJC		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR RWY 12R, AMDT 5 5 MARCH 2015				SUP AMDT DATE		4 4A 09/24/2009	

**VOR/DME STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - - TITLE 14 CFR PART 97.23**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

QUALITY
6
CHECKED

CITY AND STATE

SAN JOSE, CA

ELEVATION: 62

TDZE: 55

AIRPORT NAME:

NORMAN Y. MINETA SAN JOSE INTL

FACILITY
IDENTIFIER:

SJC

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

VOR/DME RWY 30R, AMDT 1

5 MARCH 2015

SUP:

AMDT: ORIG-A

DATED: 03/10/2011

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION VOR/DME OR TACAN STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23							Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT , HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.																						
TERMINAL ROUTES										MISSED APPROACH																			
FROM		TO			COURSE AND DISTANCE			ALTITUDE		MAP: HLL 16.36 DME FIX																			
IKMOQ INT/HLL 45.02 DME		ZANSO/HLL 30.00 DME			161.00 / 15.02 (HLL R-341)			3000		CLIMB TO 1000 THEN CLIMBING LEFT TURN TO 3000 ON HLL VORTAC R-007 TO OLISS/HLL 21.88 DME AND HOLD.																			
OLISS/HLL 21.88 DME		USOGE/HLL 28.00 DME			006.65 / 6.12 (HLL R-007)			3000																					
ZANSO/HLL 30.00 DME (IAF)		TOKVE/HLL 28.00 DME			161.00 / 2.00 (HLL R-341)			3000																					
USOGE/HLL 28.00 DME CCW (IAF)		TOKVE/HLL 28.00 DME			28.00 DME ARC			3000																					
TOKVE/HLL 28.00 DME (IF)		MORTS/HLL 22.00 DME			161.00 / 6.00 (HLL R-341)			1900		ADDITIONAL FLIGHT DATA: HOLD S, RT, 006.65 INBOUND. CHART FAS OBST: 184 TREE 302421N/0854651W CHART HLL R-007 AT USOGE. MORTS TO RW16: 2.95/66. CHART CIRCLING ICON CHART TYNDALL B, AND C & H MOAS CHART: R-2914A FAC CROSSES RWY C/L EXTENDED 1888 FROM THLD.																			
1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)																													
2. PROFILE STARTS AT TOKVE/HLL 28.00 DME																													
3. FAC 161.00 FAF MORTS/HLL 22.00 DME DIST FAF TO MAP THLD 5.64																													
4. MIN. ALT TOKVE 3000, MORTS 1900, ZILID/HLL 18.30 DME 740										MAG VAR: 4W EPOCH YEAR:2015																			
8. MSA FROM: HLL VORTAC 2600																													
MINIMUMS																													
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		X																				
CATEGORY =====>		A			B			C			D			E															
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA														
S-16	440	1/2	371	440	1/2	371	440	5/8	371	440	5/8	371	440	5/8	371														
CIRCLING	520	1	451	520	1	451	520	1 1/2	451	620	2	551	740	2 1/2	671														
NOTES:																													
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE DESTIN ALTIMETER SETTING AND INCREASE ALL MDA 100 FEET AND INCREASE S-16 VISIBILITY CAT C/D/E 3/8 MILE, AND CIRCLING CAT E 1/4 MILE. CHART NOTE: FOR INOPERATIVE MALSR INCREASE S-16 ALL CATS VISIBILITY TO 1.																													
CHART NOTE: FOR INOPERATIVE MALSR WHEN USING DESTIN ALTIMETER SETTING, INCREASE S-16 VISIBILITY CAT A/B TO 1 AND CAT C/D/E TO 1 3/8.																													
QUALITY 2 CHECKED																													
																CITY AND STATE PANAMA CITY, FL			ELEVATION: 69 TDZE: 69 AIRPORT NAME: NORTHWEST FLORIDA BEACHES INTL			FACILITY IDENTIFIER: HLL		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR/DME RWY 16, ORIG 5 MARCH 2015				SUP AMDT NONE	

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION TACAN OR VOR/DME STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23										Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.									
TERMINAL ROUTES										MISSED APPROACH									
FROM			TO			COURSE AND DISTANCE			ALTITUDE		MAP: HLL 14.72 DME FIX								
CLRRK INT/HLL 51.55 DME			HLL VORTAC			257.75 / 51.55			3000		CLIMB TO 3000 ON HLL VORTAC R-341 TO ZANSO/HLL 30.00 DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD N, RT, 161.00 INBOUND. FAS OBST: 220 AAO 301827N/0854421W CHART VDP AT 13.61 DME DISTANCE VDP TO THLD 1.11 MILES. NIPNE TO RW34: 2.94/73. CHART: TYNDALL MOA B, C&H, D, F CHART CIRCLING ICON CHART: R-2914 A/B, R-2905 A/B, W-151B								
HLL VORTAC (IAF)			HINUR/HLL 4.00 DME			340.68 / 4.00			3000										
HINUR/HLL 4.00 DME (IF)			MEBAE/HLL 6.80 DME			340.68 / 2.80 (HLL R-341)			2600										
MEBAE/HLL 6.80 DME			NIPNE/HLL 10.00 DME			340.68 / 3.20 (HLL R-341)			1600										
1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)										MAG VAR: 4W EPOCH YEAR:2015									
2. PROFILE STARTS AT HINUR/HLL 4.00 DME																			
3. FAC 340.68 FAF NIPNE/HLL 10.00 DME DIST FAF TO MAP THLD 4.72																			
4. MIN. ALT HINUR 3000, MEBAE 2600, NIPNE 1600																			
8. MSA FROM: HLL VORTAC 2600																			
MINIMUMS																			
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A		X							
CATEGORY =====>		A			B			C			D			E					
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA				
S-34	480	1	418	480	1	418	480	1 1/8	418	480	1 1/8	418	480	1 1/8	418				
CIRCLING	520	1	451	520	1	451	520	1 1/2	451	620	2	551	740	2 1/2	671				
NOTES: CHART NOTE: VDP NA WITH DESTIN ALTIMETER SETTING. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE DESTIN ALTIMETER SETTING AND INCREASE ALL MDA 100 FT, INCREASE S-34 VISIBILITY CAT C/D/E 1/4 MILE AND CIRCLING CAT E 1/4 MILE.																			
CITY AND STATE PANAMA CITY, FL		ELEVATION: 69 AIRPORT NAME: NORTHWEST FLORIDA BEACHES INTL		TDZE: 62		FACILITY IDENTIFIER: HLL		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR/DME RWY 34, ORIG 5 MARCH 2015				SUP AMDT NONE DATE							



RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33							Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.								
TERMINAL ROUTES										MISSED APPROACH					
FROM		TO		COURSE AND DISTANCE			ALTITUDE		LNAV: RW11 CLIMB TO 1400 THEN CLIMBING RIGHT TURN TO 2100 DIRECT JODVU AND HOLD. ADDITIONAL FLIGHT DATA: HOLD W, RT, 107.59 INBOUND. FAS OBST: 729 AAO 332921N/0820639W JITOL TO RW11: 3.50/54. CHART CIRCLING ICON. CHART: ASR						
INIKE (IAF)		JODVU (NOPT) (FB)		197.61 / 6.30			2100								
FOGOB (IAF)		JODVU (NOPT) (FB)		017.58 / 6.30			2100								
JODVU (IF/IAF)		JITOL (FB)		107.59 / 6.68			2000								
JITOL (FAF)		RW11 (MAP) (FO)		107.67 / 4.10			1400								
RW11 (MAP)		1400 MSL		107.67			1400								
1400 MSL		JODVU (FO)					2100								
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD W JODVU, RT, 107.59 INBOUND, 2100 FT. IN LIEU OF PT (IAF) 3. FAC: 107.67 FAF: JITOL DIST FAF TO MAP: 4.10 THLD: 4.10 4. MIN. ALT: JODVU 2100, JITOL 2000 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: _____ GS ALT AT: _____ OM: _____ MM: _____ IM: _____ 7. GS ANGLE: _____ TCH: 34:1 IS NOT CLEAR 8. MSA FROM: _____															
										MAG VAR: 4W			EPOCH YEAR: 1990		
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		STANDARD @						
CATEGORY >>>>>		A		B		C		D		E					
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LNAV MDA	980	1	558	980	1	558	980	1 5/8	558	980	1 5/8	558			
CIRCLING	980	1	558	980	1	558	1400	3	978	1400	3	978			
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE AUGUSTA RGNL AT BUSH FIELD ALTIMETER SETTING AND INCREASE ALL MDA 60 FEET AND INCREASE LNAV CAT C AND D VISIBILITY 1/4 MILE. CHART NOTE: PROCEDURE NA AT NIGHT. (SEE FORM 8260-10)															
CITY AND STATE		ELEVATION: 422 TDZE: 422		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:		SUP:							
AUGUSTA, GA		AIRPORT NAME: DANIEL FIELD				RNAV (GPS) RWY 11, AMDT 1		AMDT: ORIG							
						5 MARCH 2015		DATED 09/23/2010							



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):

CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1SM NOT AUTHORIZED.

TAA

	FROM	TO	ALT
1.	018/30 CW 198/30 (NOPT)	018/8 CW 198/8	2900
2.	018/8 CW 198/8	JODVU (IF/IAF) (FB)	2100
3.	198/30 CW 288/30	INIKE (IAF) (FB)	3000
4.	288/30 CW 018/30	FOGOB (IAF) (FB)	3000

QUALITY
9
CHECKED

CITY AND STATE

AUGUSTA, GA

ELEVATION: 422

TDZE: 422

AIRPORT NAME:

DANIEL FIELD

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 11, AMDT 1

5 MARCH 2015

SUP:

AMDT: ORIG

DATED: 09/23/2010

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible][illegible][illegible][illegible]

QUALITY
9
CHECKED

CITY AND STATE AUGUSTA, GA	ELEVATION: 422 TDZE: 422 AIRPORT NAME: DANIEL FIELD	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 11, AMDT 1 5 MARCH 2015	SUP:
				AMDT: ORIG
				DATED: 09/23/2010

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICES - FAR PART 97.33								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
ARINC SUMMARY - 424-18 - RNAV (GPS)												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	FOGOB	FOGOB	010	IAF	IF		FB					
	FOGOB	JODVU	020		TF		FB	1.0	017.6 (013.6T)	006.3	AA 02100	
	INIKE	INIKE	010	IAF	IF		FB					
	INIKE	JODVU	020		TF		FB	1.0	197.6 (193.6T)	006.3	AA 02100	
	JODVU	JODVU	010	IAF	HF	R	FO		107.6 (103.6T)	004.0	AA 02100	
		JODVU	010	FACF	IF		FB				AA 02100	
		JITOL	020	FAF	TF		FB	0.5	107.6 (103.6T)	006.7	AA 02000	
		RW11	030	MAP	TF		FO	0.3	107.7 (103.7T)	004.1	AT 00476	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		107.7 (103.7T)		AA 01400	
		JODVU	050		DF	R	FO				AA 02100	
		JODVU	060		HM	R	FO		107.6 (103.6T)	004.0	AA 02100	
POINT DATA		WAYPOINT		LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS		
			FOGOB	N332435.06		W0821658.91		N3324.584		W08216.982		
			INIKE	N333651.24		W0821326.38		N3336.854		W08213.440		
			JITOL	N332908.57		W0820727.14		N3329.143		W08207.452		
			JODVU	N333043.17		W0821512.77		N3330.720		W08215.213		
			RW11	N332810.23		W0820241.31		N3328.171		W08202.689		
RUNWAY DATA			THRESHOLD									
		RWY	ELEVATION		TCH							
		RW11	00422		54							



CITY AND STATE AUGUSTA, GA	ELEVATION: 422 AIRPORT NAME:	TDZE: 422 DANIEL FIELD	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 11, AMDT 1 5 MARCH 2015	SUP: AMDT: ORIG DATED: 09/23/2010

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33						Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.											
TERMINAL ROUTES											MISSED APPROACH						
FROM		TO			COURSE AND DISTANCE				ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW01 CLIMB TO 2500 DIRECT TO LEE AND HOLD. ADDITIONAL FLIGHT DATA: HOLD N, RT, 186.48 INBOUND. CHART FAS OBST: 259 TREE 305900N/0845324W CHART A-211. DISTANCE TO THLD FROM 301 HAT: 0.80 NM. WAAS CHANNEL # 66025 REFERENCE PATH ID: W01A CHART CIRCLING ICON. CHART BAINBRIDGE AWOS-3. LTP HAE: 11.9 M						
FAPEX (IF/IAF)		AKEME (FB)			006.48 / 6.80				1700								
AKEME (FAF)		WULUK/2.50 NM TO RW01 (FB)			006.46 / 2.30												
WULUK/2.50 NM TO RW01		RW01 (MAP) (FO)			006.46 / 2.50												
RW01 (MAP)		443 MSL			006.46				2500								
443 MSL		TO LEE (FO)															
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. HOLD S FAPEX, RT, 006.48 INBOUND, 2500 FT. IN LIEU OF PT (IAF) 3. FAC: 006.46 FAF: AKEME DIST FAF TO MAP: 4.80 THLD: 4.80 4. MIN. ALT: FAPEX 2500, AKEME 1700, WULUK/2.50 NM TO RW01 960* 5. DIST TO THLD FROM OM: <u> </u> MM: <u> </u> IM: <u> </u> 150 HAT: <u> </u> 100 HAT: <u> </u> GS ANT: <u> </u> 6. MIN GS INCPT: 1700 GS ALT AT: AKEME 1700 OM: <u> </u> MM: <u> </u> IM: <u> </u> 7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS NOT CLEAR 8. MSA FROM: <u> </u>																	
											MAG VAR: 4W			EPOCH YEAR: 2015			
MINIMUMS																	
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT											ALTERNATE: N A X						
CATEGORY >>>>>		A			B			C			D			E			
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA		
LPV DA	443	1	301	443	1	301	443	1	301	443	1	301					
LNAV/VNAV DA	593	1 5/8	451	593	1 5/8	451	593	1 5/8	451	593	1 5/8	451					
LNAV MDA	540	1	398	540	1	398	540	1 1/8	398	540	1 1/8	398					
CIRCLING	640	1	492	640	1	492	880	2	732	880	2 1/4	732					
NOTES: CHART NOTE: BARO-VNAV NA. CHART NOTE: DME/DME RNP-0.3 NA. *LNAV ONLY CHART NOTE: USE BAINBRIDGE ALTIMETER SETTING; WHEN NOT RECEIVED, USE MARIANNA ALTIMETER SETTING (SEE FORM 8260-10)																	
CITY AND STATE				ELEVATION: 148 TDZE: 142				FACILITY IDENTIFIER: RNAV				PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP: RNAV (GPS) RWY 36	
DONALSONVILLE, GA				AIRPORT NAME: DONALSONVILLE MUNI								RNAV (GPS) RWY 1, AMDT 1B 5 MARCH 2015				AMDT: 1A	
																DATED 10/16/2014	



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION			Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.													
RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33																
NOTES, (CONT.): AND INCREASE ALL DA 19 FT, AND ALL MDA 20 FT; INCREASE LPV ALL CATS VISIBILITY 1/8 MILE AND INCREASE CIRCLING CATS C/D VISIBILITY 1/4 MILE.																
CHART NOTE: NIGHT LANDING: RWY 1 NA.																
CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.																
TAA																
<table><thead><tr><th></th><th>FROM</th><th>TO</th><th>ALT</th></tr></thead><tbody><tr><td>1.</td><td>276/30 CW 096/30 (NOPT)</td><td>FAPEX (IF/IAF) (FB)</td><td>2500</td></tr><tr><td>2.</td><td>096/30 CW 276/30</td><td>FAPEX (IF/IAF) (FO)</td><td>2500</td></tr></tbody></table>						FROM	TO	ALT	1.	276/30 CW 096/30 (NOPT)	FAPEX (IF/IAF) (FB)	2500	2.	096/30 CW 276/30	FAPEX (IF/IAF) (FO)	2500
	FROM	TO	ALT													
1.	276/30 CW 096/30 (NOPT)	FAPEX (IF/IAF) (FB)	2500													
2.	096/30 CW 276/30	FAPEX (IF/IAF) (FO)	2500													
QUALITY 9 CHECKED																
CITY AND STATE DONALSONVILLE, GA		ELEVATION: 148 TDZE: 142 AIRPORT NAME: DONALSONVILLE MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 1, AMDT 1B 5 MARCH 2015												
				SUP: RNAV (GPS) RWY 36												
				AMDT: 1A												
				DATED: 10/16/2014												

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	17J
RUNWAY	RW01
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W01A
LTP/FTP LATITUDE	305959.4355N
LTP/FTP LONGITUDE	0845240.6925W
LTP/FTP ELLIPSOIDAL HEIGHT	+00119
FPAP LATITUDE	310128.6600N
FPAP LONGITUDE	0845236.2400W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1168
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

<u>CRC REMAINDER</u>	CCE93E04

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+00398
FPAP ORTHOMETRIC HEIGHT	+00398

QUALITY
9
CHECKED

CITY AND STATE

DONALSONVILLE, GA

ELEVATION: 148

TDZE: 142

AIRPORT NAME:

DONALSONVILLE MUNI

 FACILITY
IDENTIFIER:
RNAV

 PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 1, AMDT 1B
5 MARCH 2015

SUP:	RNAV (GPS) RWY 36
AMDT:	1A
DATED:	10/16/2014

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP 17J K7FR01	AFAP	EX	010FAPEXK7EA0EE	AR	HF		00650040	+	02500	18000		A	JS
SUSAP 17J K7FR01	R		010FAPEXK7EA0E	I	IF			+	02500	18000		A	JS
SUSAP 17J K7FR01	R		020AKEMEK7EA1E	F	051TF		00650068	+	01700			A	JS
SUSAP 17J K7FR01	R		020AKEMEK7EA2WALPV			ALNAV/VNAV						JS	
SUSAP 17J K7FR01	R		021WULUKK7EA0E	S	031TF		00650023	V	0096000967		-300	A	JS
SUSAP 17J K7FR01	R		030RW01 K7PG0GY	M	031TF		00650025		00171		-300	A	JS
SUSAP 17J K7FR01	R		040	O	M	CA	0065	+	00443			A	JS
SUSAP 17J K7FR01	R		050TOLEEK7EA0EY		DF			+	02500			A	JS
SUSAP 17J K7FR01	R		060TOLEEK7EA0EE	R	HM		18650040	+	02500			A	JS

[illegible]

QUALITY
9
CHECKED

CITY AND STATE DONALSONVILLE, GA	ELEVATION: 148 TDZE: 142	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 1, AMDT 1B 5 MARCH 2015	SUP: RNAV (GPS) RWY 36
	AIRPORT NAME: DONALSONVILLE MUNI			AMDT: 1A
				DATED: 10/16/2014

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICES - FAR PART 97.33								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
ARINC SUMMARY - 424-18 - RNAV (GPS)												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	FAPEX	FAPEX	010	IAF	HF	R	FO		006.5 (002.5T)	004.0	AA 02500	
		FAPEX	010	FACF	IF		FB				AA 02500	
		AKEME	020	FAF	TF		FB	0.5	006.5 (002.5T)	006.8	AA 01700	
		WULUK	021	SDF	TF		FB	0.3	006.5 (002.5T)	002.3	AA 00960	GS 00967
		RW01	030	MAP	TF		FO	0.3	006.5 (002.5T)	002.5	AT 00171	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		006.5 (002.5T)		AA 00443	
		TOLEE	050		DF		FO				AA 02500	
		TOLEE	060		HM	R	FO		186.5 (182.5T)	004.0	AA 02500	
POINT DATA		WAYPOINT	LAT IN SECS			LONG IN SECS			LAT IN MINS		LONG IN MINS	
		AKEME	N305510.92			W0845255.07			N3055.182		W08452.918	
		FAPEX	N304822.37			W0845315.57			N3048.373		W08453.260	
		TOLEE	N311224.64			W0845203.29			N3112.411		W08452.055	
		WULUK	N305729.24			W0845248.18			N3057.487		W08452.803	
		RW01	N305959.44			W0845240.69			N3059.991		W08452.678	
RUNWAY DATA		RWY	THRESHOLD ELEVATION		TCH							
		RW01	00131		40							



CITY AND STATE DONALSONVILLE, GA	ELEVATION: 148 AIRPORT NAME: DONALSONVILLE MUNI	TDZE: 142	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 1, AMDT 1B 5 MARCH 2015	SUP: RNAV (GPS) RWY 36
					AMDT: 1A
					DATED: 10/16/2014

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.								
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO		COURSE AND DISTANCE				ALTITUDE		LP: RW19 LNAV: RW19						
TOLEE (IF/IAF)		DUMOY (FB)		186.48 / 6.80				1700		CLIMB TO 2500 DIRECT FAPEX AND HOLD.						
DUMOY (FAF)		PASUE/2.20 NM TO RW19 (FB)		186.46 / 2.55												
PASUE/2.20 NM TO RW19		RW19 (MAP) (FO)		186.46 / 2.20												
RW19 (MAP)		548 MSL		186.46												
548 MSL		FAPEX (FO)						2500		ADDITIONAL FLIGHT DATA: HOLD S, RT, 006.48 INBOUND. CHART FAS OBST: 297 TANK 310206N/0845229W CHART A-211. WAAS CHANNEL # 61325 REFERENCE PATH ID: W19A DUMOY TO RW19: 3.00/40 CHART CIRCLING ICON. CHART BAINBRIDGE AWOS-3. LTP HAE: 17 M						
1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)										MAG VAR: 4W EPOCH YEAR: 2015						
2. HOLD N TOLEE, RT, 186.48 INBOUND, 2500 FT. IN LIEU OF PT (IAF)																
3. FAC: 186.46 FAF: DUMOY DIST FAF TO MAP: 4.75 THLD: 4.75																
4. MIN. ALT: TOLEE 2500, DUMOY 1700, PASUE/2.20 NM TO RW19 880																
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____																
6. MIN GS INCPT: ____ GS ALT AT: ____ OM: ____ MM: ____ IM: ____																
7. GS ANGLE: ____ TCH: 34:1 IS NOT CLEAR																
8. MSA FROM: ____																
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		X							
CATEGORY =====>		A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
LP MDA	580	1	432	580	1	432	580	1 1/4	432	580	1 1/4	432				
LNAV MDA	600	1	452	600	1	452	600	1 3/8	452	600	1 3/8	452				
CIRCLING	640	1	492	640	1	492	880	2	732	880	2 1/4	732				
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: USE BAINBRIDGE ALTIMETER SETTING; WHEN NOT RECEIVED, USE MARIANNA ALTIMETER SETTING AND INCREASE ALL MDA 20 FT; INCREASE LP CATS C/D VISIBILITY 1/8 MILE AND INCREASE CIRCLING CATS C/D VISIBILITY 1/4 MILE. (SEE FORM 8260-10)																
CITY AND STATE DONALSONVILLE, GA		ELEVATION: 148 TDZE: 148 AIRPORT NAME: DONALSONVILLE MUNI		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 19, AMDT 1A 5 MARCH 2015						SUP: RNAV (GPS) RWY 18 AMDT: 1 DATED 12/15/2011				

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):

CHART NOTE: PROCEDURE NA AT NIGHT.

CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.

TAA	FROM	TO	ALT
1.	096/30 CW 276/30 (NOPT)	TOLEE (IF/IAF) (FB)	2500
2.	276/30 CW 096/30	TOLEE (IF/IAF) (FO)	2500



CITY AND STATE
DONALSONVILLE, GA

ELEVATION: 148 TDZE: 148
AIRPORT NAME:
DONALSONVILLE MUNI

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 19, AMDT 1A
5 MARCH 2015

SUP: RNAV (GPS) RWY 19
AMDT: 1
DATED: 12/15/2011

RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	17J
RUNWAY	RW19
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W19A
LTP/FTP LATITUDE	310050.6745N
LTP/FTP LONGITUDE	0845238.1290W
LTP/FTP ELLIPSOIDAL HEIGHT	+00170
FPAP LATITUDE	305921.4500N
FPAP LONGITUDE	0845242.5800W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1168
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0

<u>CRC REMAINDER</u>	E46C43A8

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+00448
FPAP ORTHOMETRIC HEIGHT	+00448

QUALITY
9
CHECKED

CITY AND STATE DONALSONVILLE, GA	ELEVATION: 148 TDZE: 148 AIRPORT NAME: DONALSONVILLE MUNI	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 19, AMDT 1A 5 MARCH 2015	SUP: RNAV (GPS) RWY 18
				AMDT: 1
				DATED: 12/15/2011

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible][illegible][illegible][illegible]

QUALITY
9
CHECKED

CITY AND STATE DONALSONVILLE, GA	ELEVATION: 148 TDZE: 148	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 19, AMDT 1A 5 MARCH 2015	SUP: RNAV (GPS) RWY 18
	AIRPORT NAME: DONALSONVILLE MUNI			AMDT: 1
				DATED: 12/15/2011

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - FAR PART 97.33												
ARINC SUMMARY - 424-18 - RNAV (GPS)												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	TOLEE	TOLEE	010	IAF	HF	R	FO		186.5 (182.5T)	004.0	AA 02500	
		TOLEE	010	FACF	IF		FB				AA 02500	
		DUMOY	020	FAF	TF		FB	0.5	186.5 (182.5T)	006.8	AA 01700	
		PASUE	021	SDF	TF		FB	0.3	186.5 (182.5T)	002.6	AA 00880	GS 00888
		RW19	030	MAP	TF		FO	0.3	186.5 (182.5T)	002.2	AT 00187	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		186.5 (182.5T)		AA 00548	
		FAPEX	050		DF		FO				AA 02500	
		FAPEX	060		HM	R	FO		006.5 (002.5T)	004.0	AA 02500	
POINT DATA		WAYPOINT			LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS	
		DUMOY			N310536.11		W0845223.88		N3105.602		W08452.398	
		FAPEX			N304822.37		W0845315.57		N3048.373		W08453.260	
		PASUE			N310302.85		W0845231.53		N3103.048		W08452.526	
		TOLEE			N311224.64		W0845203.29		N3112.411		W08452.055	
		RW19			N310050.67		W0845238.13		N3100.845		W08452.636	
RUNWAY DATA				THRESHOLD								
		RWY		ELEVATION		TCH						
		RW19		00147		40						



CITY AND STATE DONALSONVILLE, GA	ELEVATION: 148	TDZE: 148	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP: RNAV (GPS) RWY 18
	AIRPORT NAME: DONALSONVILLE MUNI		RNAV	RNAV (GPS) RWY 19, AMDT 1A	AMDT: 1
				5 MARCH 2015	DATED: 12/15/2011

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION LOC STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.25									Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.							
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO		COURSE AND DISTANCE				ALTITUDE		MAP: 3.89 MILES AFTER SUR NDB						
IFM VOR		SUR NDB		043.59 / 15.00				2000		CLIMB TO 800 THEN CLIMBING RIGHT TURN 2000 DIRECT SUR NDB AND HOLD.						
VNA VORTAC		SUR NDB		162.59 / 37.47				2000								
										ADDITIONAL FLIGHT DATA: HOLD S, LT, 016.89 INBOUND. CHART FAS OBST: 463 TREE 313902N/0831710W OBST: 569 AAO 313727N/0831740W SUR NDB TO RW02: 3.16/40. CHART CIRCLING ICON. CHART IN PLANVIEW: (CFBXH) AT 313053.44N/0831851.72W						
1. PT <u>R</u> SIDE OF COURSE <u>196.89</u> OUTBOUND <u>2000</u> FT WITHIN <u>10</u> MILES OF <u>SUR NDB</u> (IAF)										MAG VAR: 5W EPOCH YEAR:2015						
2. _____																
3. FAC <u>016.89</u> FAF <u>SUR NDB</u> DIST FAF TO MAP <u>3.89</u> THLD <u>3.89</u>																
4. MIN. ALT <u>SUR NDB 1700</u>																
8. MSA FROM: <u>SUR NDB 2500</u>																
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		X						
CATEGORY =====>	A			B			C			D			E			
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	
S-02	720	1	359	720	1	359	720	1	359	720	1	359				
CIRCLING	880	1	515	880	1	515	1160	2 1/4	795	1160	2 1/2	795				
NOTES:																
CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY.																
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE HENRY TIFT MYERS ALTIMETER SETTING AND INCREASE ALL MDAS 60 FEET, AND INCREASE CIRCLING CATS C AND D VISIBILITY 1/4 MILE.																
CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.																
(SEE FORM 8260-10)																
CITY AND STATE		ELEVATION: 365 TDZE: 361		FACILITY IDENTIFIER:		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP LOC/NDB RWY 1						
FITZGERALD, GA		AIRPORT NAME:		I-FQR		LOC/NDB RWY 2, AMDT 1 5 MARCH 2015				AMDT ORIG						
		FITZGERALD MUNI								DATE		01/10/2013				

LOC STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - - TITLE 14 CFR PART 97.25

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):

CHART NOTE: NIGHT LANDING: RWY 2 NA.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT IFM VOR ON AIRWAY RADIAL 083 WESTBOUND.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON VNA VORTAC AIRWAY RADIALS 127 CW 230.

CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT.

CHART NOTE: WHEN USING HENRY TIFT MYERS ALTIMETER SETTING, INOPERATIVE TABLE DOES NOT APPLY TO CATS A AND B.

CHART NOTE: FOR INOPERATIVE ODALS WHEN USING HENRY TIFT MYERS ALTIMETER SETTING, INCREASE S-2 CATS C AND D VISIBILITY TO 1 1/8 MILE.



CITY AND STATE

FITZGERALD, GA

ELEVATION: 365

TDZE: 361

AIRPORT NAME:

FITZGERALD MUNI

FACILITY
IDENTIFIER:
I-FQR

PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:

LOC/NDB RWY 2, AMDT 1

5 MARCH 2015

SUP: LOC/NDB RWY 1

AMDT: ORIG

DATED: 01/10/2013

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION LOC STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
ARINC SUMMARY - 424-18 - LOC												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	IFM	IFM	010		IF		FB					
	IFM	SUR	020		TF		FB				AA 02000	
	IFM	SUR	030	IAF	PI	L	FB		241.9 ()	010.0	AA 02000	
	VNA	VNA	010		IF		FB					
	VNA	SUR	020		TF		FB				AA 02000	
	VNA	SUR	030	IAF	PI	L	FB		241.9 ()	010.0	AA 02000	
		CFBXH	010	FACF	IF		FB				AA 02000	
		SUR	020	FAF	CF		FB		017.0 ()	006.0	AA 01700	
		RW02	030	MAP	CF		FO		017.0 ()	003.9	AT 00395	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		016.9 ()		AA 00800	
		SUR	050		DF	R	FO				AA 02000	
		SUR	060		HM	L	FO		016.9 ()	T01.0	AA 02000	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		IFM	N312543.17		W0832919.93		N3125.720		W08329.332			
		VNA	N321248.39		W0832950.12		N3212.807		W08329.835			
		CFBXH	N313053.44		W0831851.72		N3130.891		W08318.862			
		RW02	N314035.47		W0831628.68		N3140.591		W08316.478			
		IFQR (LOC)	N314129.70		W0831615.31		N3141.495		W08316.255			
		SUR	N313646.68		W0831726.56		N3136.778		W08317.443			
RUNWAY DATA			THRESHOLD ELEVATION		TCH							
		RWY										
		RW02	00355		40							



CITY AND STATE FITZGERALD, GA	ELEVATION: 365 TDZE: 361 AIRPORT NAME: FITZGERALD MUNI	FACILITY IDENTIFIER: I-FQR	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: LOC/NDB RWY 2, AMDT 1 5 MARCH 2015	SUP: LOC/NDB RWY 1 AMDT: ORIG DATED: 01/10/2013

**NDB STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - - TITLE 14 CFR PART 97.27**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):

CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE HENRY TIFT MYERS ALTIMETER SETTING AND INCREASE ALL MDA 60 FEET. INCREASE S-2 VISIBILITY CAT C AND D TO 1 1/4 MILE, INCREASE CIRCLING

CAT C VISIBILITY TO 2 1/2 MILE CAT D TO 2 3/4 MILE.

CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO S-2 CATS A AND B.

CHART NOTE: WHEN USING HENRY TIFT MEYERS ALTIMETER SETTING, INOPERATIVE TABLE DOES NOT APPLY TO CATS A AND B.

CHART NOTE: FOR INOPERATIVE ODALS, INCREASE S-2 CATS C AND D VISIBILITY TO 1 1/8.

CHART NOTE: FOR INOPERATIVE ODALS WHEN USING HENRY TIFT MYERS ALTIMETER SETTING, INCREASE S-2 CATS C AND D VISIBILITY TO 1 3/8 MILE.



CITY AND STATE

FITZGERALD, GA

ELEVATION: 365

TDZE: 361

AIRPORT NAME:

FITZGERALD MUNI

FACILITY
IDENTIFIER:
SUR

PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:

NDB RWY 2, AMDT 1

5 MARCH 2015

SUP: NDB RWY 1

AMDT: ORIG-B

DATED: 08/25/2011

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.								
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO		COURSE AND DISTANCE				ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW02						
VNA VORTAC		WODAM (FO)		173.01 / 43.96				1900		CLIMB TO 2300 DIRECT AFUFI AND ON TRACK 010.63 TO DUMMY AND HOLD.						
IFM VOR (IAF)		WODAM (NOPT) (FB)		070.39 / 9.57				1900								
WODAM (IF/IAF)		POTYO (FB)		016.87 / 7.00				1700								
POTYO (FAF)		REKLE/1.90 NM TO RW02 (FB)		016.88 / 2.20												
REKLE/1.90 NM TO RW02		RW02 (MAP) (FO)		016.88 / 1.90												
RW02 (MAP)		611 MSL		016.88						ADDITIONAL FLIGHT DATA: HOLD NW, RT, 144.33 INBOUND. CHART FAS OBST: 479 TREE 313911N/0831722W DISTANCE TO THLD FROM 250 HAT: 0.66 NM. WAAS CHANNEL # 72924 REFERENCE PATH ID: W02A CHART CIRCLING ICON. LTP HAE: 81.3 M						
(SEE FORM 8260-10)																
1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)										MAG VAR: 5W EPOCH YEAR: 2015						
2. HOLD S WODAM, RT, 016.87 INBOUND, 1900 FT. IN LIEU OF PT (IAF)																
3. FAC: 016.88 FAF: POTYO DIST FAF TO MAP: 4.10 THLD: 4.10																
4. MIN. ALT: WODAM 1900, POTYO 1700, REKLE/1.90 NM TO RW02 1000*																
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____																
6. MIN GS INCPT: 1700 GS ALT AT: POTYO 1700 OM: ____ MM: ____ IM: ____																
7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS NOT CLEAR																
8. MSA FROM: RW01 2500																
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		X							
CATEGORY =====>		A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
LPV DA	611	1	250	611	1	250	611	1	250	611	1	250				
LNAV/VNAV DA	611	1	250	611	1	250	611	1	250	611	1	250				
LNAV MDA	740	1	379	740	1	379	740	1	379	740	1	379				
CIRCLING	880	1	515	880	1	515	1160	2 1/4	795	1160	2 1/2	795				
NOTES: CHART NOTE: BARO-VNAV NA WHEN USING HENRY TIFT MYERS ALTIMETER SETTING. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. (SEE FORM 8260-10)																
CITY AND STATE FITZGERALD, GA		ELEVATION: 365 TDZE: 361 AIRPORT NAME: FITZGERALD MUNI				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 2, AMDT 1 5 MARCH 2015				SUP: RNAV (GPS) RWY 1				
												AMDT: ORIG-A				
												DATED 12/15/2011				

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION			Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.													
RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33																
TERMINAL ROUTES, (CONT.):																
<table><tr><td>FROM</td><td>TO</td><td>COURSE AND DISTANCE</td><td>ALTITUDE</td></tr><tr><td>611 MSL</td><td>AFUFI (FB)</td><td></td><td></td></tr><tr><td>AFUFI</td><td>DUMMY (FO)</td><td>010.63</td><td>2300</td></tr></table>					FROM	TO	COURSE AND DISTANCE	ALTITUDE	611 MSL	AFUFI (FB)			AFUFI	DUMMY (FO)	010.63	2300
FROM	TO	COURSE AND DISTANCE	ALTITUDE													
611 MSL	AFUFI (FB)															
AFUFI	DUMMY (FO)	010.63	2300													
NOTES, (CONT.): CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT. *LNAV ONLY CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE HENRY TIFT MYERS ALTIMETER SETTING AND INCREASE ALL DA 45 FEET AND ALL MDA 60 FEET. INCREASE LNAV CAT C AND D VISIBILITY 1/8 MILE, INCREASE CIRCLING CAT C/D VISIBILITY 1/4 MILE. CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY. CHART NOTE: FOR INOPERATIVE ODALS WHEN USING HENRY TIFT MYERS ALTIMETER SETTING; INCREASE LNAV CAT C AND D VISIBILITY TO 1 1/4 MILE. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON VNA VORTAC AIRWAY RADIALS 127 CW 259. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON IFM VOR AIRWAY RADIALS 360 CW 083. CHART NOTE: NIGHT LANDING RWY 2 NA.																
QUALITY 10 CHECKED																
CITY AND STATE FITZGERALD, GA	ELEVATION: 365 AIRPORT NAME: FITZGERALD MUNI	TDZE: 361	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 2, AMDT 1 5 MARCH 2015												
				SUP: RNAV (GPS) RWY 1												
				AMDT: ORIG-A												
				DATED: 12/15/2011												

RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KFZG
RUNWAY	RW02
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W02A
LTP/FTP LATITUDE	314035.4710N
LTP/FTP LONGITUDE	0831628.6835W
LTP/FTP ELLIPSOIDAL HEIGHT	+00813
FPAP LATITUDE	314202.8500N
FPAP LONGITUDE	0831607.1600W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1224
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

<u>CRC REMAINDER</u>	33D65A2F

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+01083
FPAP ORTHOMETRIC HEIGHT	+01083

QUALITY
10
CHECKED

CITY AND STATE

FITZGERALD, GA

ELEVATION: 365

TDZE: 361

AIRPORT NAME:

FITZGERALD MUNI

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 2, AMDT 1

5 MARCH 2015

SUP: RNAV (GPS) RWY 1

AMDT: ORIG-A

DATED: 12/15/2011

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

PP 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012

SUSAP KFZGK7PR02 RW02 001 0000W02A0N3140354710W08316286835+008130300N3142028500W08316071600106751224000400F40050033D65A2F
SUSAP KFZGK7PR02 RW02 002E +01083+01083LPV 72924

MSA 1 2 3 4 5 6 7 8 9 0 1 2 3

SUSAP KFZGK7SRW02 K7PG 0 18018002525 M

QUALITY
15
CHECKED

CITY AND STATE FITZGERALD, GA	ELEVATION: 365	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 2, AMDT 1 5 MARCH 2015	SUP: RNAV (GPS) RWY 1
	AIRPORT NAME: FITZGERALD MUNI			AMDT: ORIG-A
				DATED: 12/15/2011

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33												
ARINC SUMMARY - 424-18 - RNAV (GPS)												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	IFM	IFM	010	IAF	IF		FB					
	IFM	WODAM	020		TF		FB	1.0	070.4 (065.4T)	009.6	AA 01900	
	VNA	VNA	010		IF		FB					
	VNA	WODAM	020		TF		FO	2.0	173.0 (168.0T)	044.0	AA 01900	
	VNA	WODAM	030	IAF	HF	R	FO		016.9 (011.9T)	004.0	AA 01900	
		WODAM	010	FACF	IF		FB				AA 01900	
		POTYO	020	FAF	TF		FB	0.5	016.9 (011.9T)	007.0	AA 01700	
		REKLE	021	SDF	TF		FB	0.3	016.9 (011.9T)	002.2	AA 01000	GS 01000
		RW02	030	MAP	TF		FO	0.3	016.9 (011.9T)	001.9	AT 00395	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		016.9 (011.9T)		AA 00611	
		AFUFI	050		DF		FB					
		DUMMY	060		TF		FO	1.0	010.6 (005.6T)		AA 02300	
		DUMMY	070		HM	R	FO		144.3 (139.3T)	004.0	AA 02300	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		IFM	N312543.17		W0832919.93		N3125.720		W08329.332			
		VNA	N321248.39		W0832950.12		N3212.807		W08329.835			
		AFUFI	N314618.07		W0831504.24		N3146.301		W08315.071			
		DUMMY	N315655.15		W0831350.56		N3156.919		W08313.843			
		POTYO	N313634.42		W0831727.98		N3136.574		W08317.466			
		REKLE	N313843.67		W0831656.20		N3138.728		W08316.937			
		WODAM	N312942.51		W0831909.11		N3129.709		W08319.152			
		RW02	N314035.47		W0831628.68		N3140.591		W08316.478			
RUNWAY DATA		RWY	THRESHOLD ELEVATION		TCH							
		RW02	00355		40							



CITY AND STATE FITZGERALD, GA	ELEVATION: 365	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 2, AMDT 1 5 MARCH 2015	SUP: RNAV (GPS) RWY 1
	AIRPORT NAME: FITZGERALD MUNI			AMDT: ORIG-A
				DATED: 12/15/2011

U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)

Bearings, headings, courses, tracks and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated.
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

City, State	Airport	Effective Date	Amdt. No.
FITZGERALD, GA	FITZGERALD MUNI	5 MARCH 2015	1A

TAKEOFF MINIMUMS:

RWY 15, 33, NA – ENVIRONMENTAL.
RWY 2, 20 STANDARD

TEXTUAL DEPARTURE PROCEDURES:

RWY 2 – CLIMBING RIGHT TURN HEADING 037.00 TO 1000 BEFORE TURNING LEFT.

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 2, TREES BEGINNING ABEAM DER, 96 FT LEFT OF CENTERLINE, UP TO 85 FT AGL/464 FT MSL. TREES BEGINNING 329 FT FROM DER, 10 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/455 FT MSL. POWER POLE 414 FT FROM DER, 428 FT RIGHT OF CENTERLINE, 21 FT AGL/381 FT MSL. BUILDING 783 FT FROM DER, 600 FT LEFT OF CENTERLINE, 8 FT AGL/389 FT MSL. POWER POLES BEGINNING 885 FT FROM DER, 229 FT LEFT OF CENTERLINE, UP TO 38 FT AGL/396 FT MSL.

NOTE: RWY 20, TREES BEGINNING 193 FT FROM DER, 452 FT LEFT OF CENTERLINE, UP TO 111 FT AGL/430 FT MSL. TREES BEGINNING 612 FT FROM DER, 379 FT RIGHT OF CENTERLINE, UP TO 83 FT AGL/398 FT MSL.

CONTROLLING OBSTACLES:

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT: RWY 2 - 792 FT MSL TOWER 314412.00N/ 0831618.00W.



U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)

Bearings, headings, courses, tracks and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated.
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

City, State	Airport	Effective Date	Amdt. No.
FITZGERALD, GA	FITZGERALD MUNI	5 MARCH 2015	1A

REMARKS:

FLIGHT INSPECTION NOT REQUIRED, REQUEST DESK-TOP REVIEW.

FLIGHT INSPECTED BY:

ROBERT COOPER
Digitally signed by
JULIE A MORGAN
Jan 13, 2015

FICO

1/5/2015

REQUIRED EFFECTIVE DATE:

ROUTINE

DEVELOPED BY:

HOWARD L HAWKINS JR
Digitally signed by
JULIE A MORGAN
Jan 13, 2015 AJV-352

08/11/2014

APPROVED BY: *Digitally signed by*

SUE CRUMB **JULIE A MORGAN** AJV-352
Jan 13, 2015

1/13/2015

COORDINATED WITH:

ALPA, AOPA, NBAA, ZJX, AMGR, ST AV DIR

CHANGES:

CHANGED RWY 1 / 19 TO 2 / 20
CHANGED DEPARTURE COURSE FROM 034.89 TO 037.00.

REASONS:

MAGVAR CHANGED FROM 3 WEST 1990 TO 5 WEST 2015.



ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.								
TERMINAL ROUTES				MISSED APPROACH								
FROM	TO	COURSE AND DISTANCE	ALTITUDE	ILS: DA LOC: 5.47 MILES AFTER VEALS LOM/I-CMI 7.00 DME OR AT I-CMI 1.53 DME FIX CLIMB TO 1200 THEN CLIMBING LEFT TURN TO 2800 ON CMI VORTAC R-297 TO LODGE INT/CMI VORTAC 13.24 DME AND HOLD, OR AS DIRECTED BY ATC. ALTERNATE MA: CLIMB TO 3000 DIRECT BMI VOR/DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NW, LT, 116.58 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NW BMI VOR/DME, RT, 128.54 INBOUND. FAS OBST: 893 AAO 395910N/0881315W CHART VDP AT 2.65 DME* DISTANCE VDP TO THLD 1.12 MILES. *LOC ONLY. CHART (CFBQZ) AT INTERSECTION OF NEWMY DR LEG AND INTERMEDIATE COURSE. CHART IN PLANVIEW: BMI VOR/DME. CHART CIRCLING ICON. CHART: ASR								
OCTOE INT	VEALS LOM/I-CMI 7.00 DME	218.73 / 11.47	2600									
CMI VORTAC	VEALS LOM/I-CMI 7.00 DME	130.46 / 5.95	2600									
NEWMY INT (IAF)	JAVOM INT/I-CMI 13.13 DME (NOPT)	273.61 / 4.96 (HDG) & 318.61 / 2.90 (I-CMI)	2600									
JAVOM INT/I-CMI 13.13 DME (IF)	VEALS LOM/I-CMI 7.00 DME	318.61 / 6.13 (I-CMI)	2600									
1. PT <u>L</u> SIDE OF COURSE <u>138.61</u> OUTBOUND <u>2600</u> FT WITHIN <u>10</u> MILES OF <u>VEALS LOM</u> (IAF) 2. _____ 3. FAC: <u>318.61</u> FAF: <u>VEALS LOM/I-CMI 7.00 DME</u> DIST FAF TO MAP: <u>5.47</u> THLD: <u>5.47</u> 4. MIN. ALT: <u>VEALS LOM 2600</u> 5. DIST TO THLD FROM OM: <u>5.47</u> MM: <u>-</u> IM: <u>-</u> 150 HAT: <u>-</u> 100 HAT: <u>-</u> GS ANT: <u>1065</u> 6. MIN GS INCPT: <u>2600</u> GS ALT AT: <u>-</u> OM: <u>2572</u> MM: <u>-</u> IM: <u>-</u> 7. GS ANGLE: <u>3.00</u> TCH: <u>52.4</u> 8. MSA FROM: <u>CM LOM 3000</u>				MAG VAR: 3W EPOCH YEAR: 2015								
MINIMUMS												
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT				ALTERNATE: N A		ILS: STANDARD #		LOC: STANDARD @				
CATEGORY =====>	A		B		C		D		E			
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
S-ILS 32R**	950	2400	200	950	2400	200	950	2400	200	950	2400	200
S-LOC 32R	1160	2400	410	1160	2400	410	1160	4000	410	1160	4000	410
CIRCLING	1240	1	485	1240	1	485	1500	2 1/4	745	1500	2 1/2	745
NOTES: CHART NOTE: **RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE RANTOUL ALTIMETER SETTING AND INCREASE DA 41 FT, AND ALL MDA 60 FEET; INCREASE S-LOC 32R CAT C/D VISIBILITY TO RVR 5000. CHART NOTE: VDP NA WITH RANTOUL ALTIMETER SETTING.												
CITY AND STATE CHAMPAIGN/URBANA, IL		ELEVATION: 755 TDZE: 750 AIRPORT NAME: UNIVERSITY OF ILLINOIS-WILLARD		FACILITY IDENTIFIER: I-CMI		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 32R, AMDT 13 5 MARCH 2015				SUP:		
										AMDT: 12		
										DATED 05/07/2009		

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
ILS - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

QUALITY
CHECKED

CITY AND STATE CHAMPAIGN/URBANA, IL	ELEVATION: 755	TDZE: 750	FACILITY IDENTIFIER: I-CMI	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 32R, AMDT 13 5 MARCH 2015	SUP:
	AIRPORT NAME: UNIVERSITY OF ILLINOIS-WILLARD				AMDT: 12
					DATED: 05/07/2009

FLIGHT STANDARDS SERVICES - FAR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibility which are in statute miles or in feet RVR.

ARINC PACKET - 424-18 - ILS

[illegible]CITY AND STATE
CHAMPAIGN/URBANA, IL

ELEVATION: 755	TDZE: 750
AIRPORT NAME: UNIVERSITY OF ILLINOIS-WILLARD	

FACILITY IDENTIFIER:
I-CMI

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
ILS OR LOC RWY 32R, AMDT 13
5 MARCH 2015

SUP:	
AMDT:	12
DATED:	05/07/2009

FLIGHT STANDARDS SERVICES - FAR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible]

SUP:	
AMDT:	12
DATED:	05/07/2009

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - FAR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - 424-18 - ILS

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	CMI	CMI	010		IF		FB					
	CMI	VEALS	020		TF		FB				AA 02600	
	CMI	VEALS	030	IAP	PI	R	FB		093.6 ()	010.0	AA 02600	
	NEWMY	NEWMY	010	IAP	IF		FB					
	NEWMY	CFBQZ	020		TF		FB				AA 02600	
	NEWMY	JAVOM	030		CF		FB		318.6 ()	002.9	AA 02600	
	OCTOE	OCTOE	010		IF		FB					
	OCTOE	VEALS	020		TF		FB				AA 02600	
	OCTOE	VEALS	030	IAP	PI	R	FB		093.6 ()	010.0	AA 02600	
		JAVOM	010	FACF	IF		FB				AA 02600 GI 02600	
		VEALS	020	FAF	CF		FB		319.0 ()	006.1	GI 02600 GS 02572	
		RW32R	030	MAP	CF		FO		319.0 ()	005.5	AT 00802	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		318.6 ()		AA 01200	
	LODGE	050		CF		FO		296.6 ()	013.0	AA 02800	
	LODGE	060		HM	L	FO		116.6 ()	001.0	AA 02800	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	CMI	N400204.30	W0881633.82	N4002.072	W08816.564
	ICMI (DME)	N400300.75	W0881717.02	N4003.013	W08817.284
	LODGE	N400835.76	W0883134.60	N4008.596	W08831.577
	NEWMY	N395126.22	W0875619.21	N3951.437	W08756.320
	OCTOE	N400717.43	W0880212.71	N4007.291	W08802.212
	CFBQZ	N395129.21	W0880243.98	N3951.487	W08802.733
	JAVOM	N395335.07	W0880523.19	N3953.585	W08805.387
	VEALS	N395758.29	W0881056.92	N3957.972	W08810.949
	RW32R	N400153.29	W0881555.76	N4001.888	W08815.929
	ICMI (LOC)	N400259.26	W0881719.78	N4002.988	W08817.330
	CM	N395758.40	W0881056.77	N3957.973	W08810.946

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW32R	00749	52

CITY AND STATE
CHAMPAIGN/URBANA, IL

ELEVATION: 755 TDZE: 750
AIRPORT NAME:
UNIVERSITY OF ILLINOIS-WILLARD

FACILITY
IDENTIFIER:
I-CMI

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
ILS OR LOC RWY 32R, AMDT 13
5 MARCH 2015

SUP:
AMDT: 12
DATED: 05/07/2009

FLIGHT STANDARDS SERVICES - FAR PART 97.25

ARINC PACKET - 424-18 - LOC

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KCMIK5FL32R	ACMI	010CMI	K5D 0V	IF					18000		0	NS
SUSAP	KCMIK5FL32R	ACMI	020VEALSK5PC0E	TF					+ 02600			0	NS
SUSAP	KCMIK5FL32R	ACMI	030VEALSK5PC0EE	AR	PI	ICMIK5	1386007009360100PI		+ 02600			0	NS
SUSAP	KCMIK5FL32R	ANEWMY	010NEWMYK5EA0E	A	IF					18000		0	NS
SUSAP	KCMIK5FL32R	ANEWMY	020CFBQZK5PC0E	TF					+ 02600			0	NS
SUSAP	KCMIK5FL32R	ANEWMY	030JAVOMK5PC0EE	B	CF	ICMIK5	1386013131860029PI		+ 02600			0	NS
SUSAP	KCMIK5FL32R	AOCTOE	010OCTOEK5EA0E	IF						18000		0	NS
SUSAP	KCMIK5FL32R	AOCTOE	020VEALSK5PC0E	TF					+ 02600			0	NS
SUSAP	KCMIK5FL32R	AOCTOE	030VEALSK5PC0EE	AR	PI	ICMIK5	1386007009360100PI		+ 02600			0	NS
SUSAP	KCMIK5FL32R	L	010JAVOMK5PC0E	I	IF	ICMIK5	13860131		+ 02600	18000		0	NS
SUSAP	KCMIK5FL32R	L	020VEALSK5PC0E	F	CF	ICMIK5	1386007031900061PI		+ 02600		CM	K5PN0	NS
SUSAP	KCMIK5FL32R	L	021BAITHK5PC0E	S	CF	ICMIK5	1386002731900043PI		+ 01160	-310		0	NS
SUSAP	KCMIK5FL32R	L	030RW32RK5PG0GY	M	CF	ICMIK5	1386001531900012PI		00802	-310		0	NS
SUSAP	KCMIK5FL32R	L	040	0 M	CA		3186		+ 01200			0	NS
SUSAP	KCMIK5FL32R	L	050LODGEK5EA0EY	CF	CM	K5	2966013229660130D		+ 02800			0	NS

Page 6 of 8 Pages

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - FAR PART 97.25

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

SUSAP KCMIK5FL32R L 060LODGEK5EA0EE L HM 1166T010 + 02800 0 NS

1 2 3 4 5 6 7 8 9 0 1 2 3
RUNWAY 1234567890123456789012345678901234567890123456789012345678901234567890123456789012

SUSAP KCMIK5GRW32R 0081023186 N40015329W088155576+0100 +0196400749000052150IICMI1

1 2 3 4 5 6 7 8 9 0 1 2 3
ILS 1234567890123456789012345678901234567890123456789012345678901234567890123456789012

SUSAP KCMIK5IICMI1 010910RW32RN40025926W0881719783186N40015806W0881608991240 10650428300W00305200743

1 2 3 4 5 6 7 8 9 0 1 2 3
MSA 1234567890123456789012345678901234567890123456789012345678901234567890123456789012

SUSAP KCMIK5SCM K5PN 0 18018003025 M

1 2 3 4 5 6 7 8 9 0 1 2 3
NAVAID 1234567890123456789012345678901234567890123456789012345678901234567890123456789012

SUSAPNKCMIK5 CM K5004070HOLW N39575840W088105677 W0030 NARVEALS

CITY AND STATE
CHAMPAIGN/URBANA, IL

ELEVATION: 755 TDZE: 750
AIRPORT NAME:
UNIVERSITY OF ILLINOIS-WILLARD

FACILITY
IDENTIFIER:
I-CMI

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
ILS OR LOC RWY 32R, AMDT 13
5 MARCH 2015

SUP:
AMDT: 12
DATED: 05/07/2009

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - FAR PART 97.25

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - 424-18 - LOC

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	CMI	CMI	010		IF		FB					
	CMI	VEALS	020		TF		FB				AA 02600	
	CMI	VEALS	030	IAF	PI	R	FB		093.6 ()	010.0	AA 02600	
	NEWMY	NEWMY	010	IAF	IF		FB					
	NEWMY	CFBQZ	020		TF		FB				AA 02600	
	NEWMY	JAVOM	030		CF		FB		318.6 ()	002.9	AA 02600	
	OCTOE	OCTOE	010		IF		FB					
	OCTOE	VEALS	020		TF		FB				AA 02600	
	OCTOE	VEALS	030	IAF	PI	R	FB		093.6 ()	010.0	AA 02600	
		JAVOM	010	FACF	IF		FB				AA 02600	
		VEALS	020	FAF	CF		FB		319.0 ()	006.1	AA 02600	
		BAITH	021	SDF	CF		FB		319.0 ()	004.3	AA 01160	
		RW32R	030	MAP	CF		FO		319.0 ()	001.2	AT 00802	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		318.6 ()		AA 01200	
	LODGE	050		CF		FO		296.6 ()	013.0	AA 02800	
	LODGE	060		HM	L	FO		116.6 ()	001.0	AA 02800	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	CMI	N400204.30	W0881633.82	N4002.072	W08816.564
	ICMI (DME)	N400300.75	W0881717.02	N4003.013	W08817.284
	LODGE	N400835.76	W0883134.60	N4008.596	W08831.577
	NEWMY	N395126.22	W0875619.21	N3951.437	W08756.320
	OCTOE	N400717.43	W0880212.71	N4007.291	W08802.212
	BAITH	N400103.40	W0881452.25	N4001.057	W08814.871
	CFBQZ	N395129.21	W0880243.98	N3951.487	W08802.733
	JAVOM	N395335.07	W0880523.19	N3953.585	W08805.387
	VEALS	N395758.29	W0881056.92	N3957.972	W08810.949
	RW32R	N400153.29	W0881555.76	N4001.888	W08815.929
	ICMI (LOC)	N400259.26	W0881719.78	N4002.988	W08817.330
	CM	N395758.40	W0881056.77	N3957.973	W08810.946

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW32R	00749	52

CITY AND STATE
CHAMPAIGN/URBANA, IL

ELEVATION: 755 TDZE: 750
AIRPORT NAME:
UNIVERSITY OF ILLINOIS-WILLARD

FACILITY IDENTIFIER:
I-CMI

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
ILS OR LOC RWY 32R, AMDT 13
5 MARCH 2015

SUP:
AMDT: 12
DATED: 05/07/2009

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION NDB STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.27										Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.						
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO		COURSE AND DISTANCE				ALTITUDE		MAP: 5.47 MILES AFTER VEALS LOM						
OCTOE INT		VEALS LOM		218.73 / 11.47				2600		CLIMBING LEFT TURN TO 2800 ON CMI VORTAC R-297 TO LODGE INT/CMI VORTAC 13.24 DME AND HOLD, OR AS DIRECTED BY ATC. ALTERNATE MA: CLIMB TO 2800 THEN CLIMBING LEFT TURN DIRECT VEALS LOM AND HOLD.						
CMI VORTAC		VEALS LOM		130.46 / 5.95				2600								
NEWMY INT (IF/IAF)		VEALS LOM		303.05 / 13.01				2600								
										ADDITIONAL FLIGHT DATA: HOLD NW, LT, 116.58 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD SE VEALS LOM, RT, 318.64 INBOUND. FAS OBST: 924 AAO 395845N/0881423W VEALS LOM TO RW32R: 3.09/54. CHART CIRCLING ICON. CHART: ASR						
1. PT <u>L</u> SIDE OF COURSE <u>138.64</u> OUTBOUND <u>2600</u> FT WITHIN <u>10</u> MILES OF <u>VEALS LOM</u> (IAF)																
2. _____																
3. FAC <u>318.64</u> FAF <u>VEALS LOM</u> DIST FAF TO MAP <u>5.47</u> THLD <u>5.47</u>																
4. MIN. ALT <u>VEALS LOM 2600</u>																
8. MSA FROM: <u>CM LOM 3000</u>																
										MAG VAR: 3W EPOCH YEAR: 2015						
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A						
CATEGORY =====>										STANDARD @						
		A			B			C			D			E		
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	
S-32R	1240	4000	490	1240	4000	490	1240	4000	490	1240	6000	490				
CIRCLING	1240	1	485	1240	1	485	1500	2 1/4	745	1500	2 1/2	745				
NOTES: CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE RANTOUL ALTIMETER SETTING AND INCREASE ALL MDA 60 FEET. INCREASE S-32R CAT C VISIBILITY TO RVR 5000 AND CAT D VISIBILITY TO 1 1/2 MILE.																
@ CAT C 800-2 1/4, CAT D 800-2 1/2 @ NA WHEN LOCAL WEATHER NOT AVAILABLE.																
CITY AND STATE CHAMPAIGN/URBANA, IL		ELEVATION: 755 AIRPORT NAME: UNIVERSITY OF ILLINOIS-WILLARD		TDZE: 750		FACILITY IDENTIFIER: CM		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: NDB RWY 32R, AMDT 11A 5 MARCH 2015				SUP				
												AMDT 11				
												DATE 05/07/2009				

**U.S. DEPARTMENT OF TRANSPORTATION -- FEDERAL AVIATION ADMINISTRATION
RADAR -- STANDARD INSTRUMENT APPROACH PROCEDURE -- FLIGHT STANDARDS SERVICE -- TITLE 14 CFR PART 97.31**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH. and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

Initial approach minimum altitude(s) shall correspond with those established for enroute operation in the particular area or as set forth below. Positive identification must be established with the radar controller. From initial contact with radar to final authorized landing minimums, the instructions of the radar controller are mandatory except when: (A) Visual contact is established on final approach at or before descent to the authorized landing minimums; or (B) at pilot's discretion if it appears desirable to discontinue the approach.

Except when the radar controller may direct otherwise prior to final approach, a missed approach shall be executed as provided below when: (A) communications on final approach is lost for more than 5 seconds during a precision approach, or for more than 30 seconds during a surveillance approach; (B) directed by radar controllers; (C) visual contact is not established upon descent to authorized landing minimums; or (D) if landing is not accomplished.

RADAR TERMINAL AREA MANEUVERING SECTORS AND ALTITUDES <i>(Sectors and distances measured from radar antenna)</i>											MISSED APPROACH
FROM	T O	DISTANCE	ALTITUDE	DISTANCE	ALTITUDE	DISTANCE	ALTITUDE	DISTANCE	ALTITUDE	DISTANCE	ALTITUDE
AS ESTABLISHED BY CURRENT CHAMPAIGN/URBANA, IL, ASR MINIMUM VECTORING ALTITUDE CHART											MAP: RWY 14L, THLD RWY 32R, THLD RWY 14L: CLIMB TO 2700, THEN LEFT TURN ON CMI R-062 TO OCTOE INT AND HOLD, NE, RT, 241.59 INBOUND. RWY 32R: CLIMBING LEFT TURN TO 2800 ON CMI R-297 TO LODGE INT AND HOLD, NW, LT, 116.58 INBOUND.

MINIMUMS

TAKEOFF:	STANDARD	SEE FAA FORM 8260-15A FOR THIS AIRPORT					ALTERNATE: N A	STANDARD @							
CATEGORY =====>	A			B			C			D			E		
	DH/ MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
S-14L	1200	1	445	1200	1	445	1200	1 3/8	445	1200	1 3/8	445			
S-32R	1180	4000	430	1180	4000	430	1180	4000	430	1180	5000	430			
CIRCLING	1240	1	445	1240	1	465	1500	2 1/4	745	1500	2 1/2	475			

NOTES:

RWY 14L: FAF 6 MILES FROM THRESHOLD, MINIMUM ALTITUDE 2600, FINAL APPROACH COURSE: 139.
RECOMMENDED ALTITUDE: 5 MILES: 2300; 4 MILES: 2000; 3 MILES: 1700; 2 MILES: 1400.

RWY 32R: FAF 6 MILES FROM THRESHOLD, MINIMUM ALTITUDE 2600, FINAL APPROACH COURSE 319.
RECOMMENDED ALTITUDE: 5 MILES: 2300; 4 MILES: 2000; 3 MILES: 1700; 2 MILES: 1400.

WHEN CONTROL TWR CLOSED ASR AND @ ALTERNATE MINIMUMS NA.

@CAT C 800-2 1/4, CAT D 800-2 1/2

LOST COMMUNICATIONS (ALL RWYS): AS DIRECTED BY ATC ON INITIAL CONTACT.

ADDITIONAL FLIGHT DATA

TDZE: 755 RWY: 14L TDZE: RWY:
TDZE: 750 RWY: 32R TDZE: RWY:

RWY 14L: 942 AAO 400612.00N/0881857.00W

RWY 32R: 924 AAO 395844.80N/0881422.78W

MAG VAR: 3W

EPOCH YEAR: 2015

CITY AND STATE	ELEVATION: AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP
CHAMPAIGN/URBANA, IL	UNIVERSITY OF ILLINOIS-WILLARD	ASR	RADAR 1, AMDT 6B 5 MARCH 2015	AMDT: 6A
				DATED: 10/28/2002

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
RW04 (MAP)	1001 MSL	044.02	
1001 MSL	MUGTE (FO)		2800

NOTES, (CONT.):

CHART NOTE: DME/DME RNP-0.3 NA.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON AXC VORTAC AIRWAY RADIALS 002 CW 029.

CHART NOTE: VDP AND BARO-VNAV NA WHEN USING RANTOUL ALTIMETER SETTING.



CITY AND STATE
 CHAMPAIGN/URBANA, IL

ELEVATION: 755 TDZE: 751
 AIRPORT NAME:
 UNIVERSITY OF ILLINOIS-WILLARD

FACILITY
 IDENTIFIER:
 RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
 RNAV (GPS) RWY 4, ORIG-B
 5 MARCH 2015

SUP:
 AMDT: ORIG-A
 DATED: 09/23/2010

RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATIONDATA FIELDDATA

OPERATION TYPE 0
SBAS SERVICE PROVIDER IDENTIFIER 0
AIRPORT IDENTIFIER KCMJ
RUNWAY RW04
APPROACH PERFORMANCE DESIGNATOR 0
ROUTE INDICATOR
REFERENCE PATH DATA SELECTOR 0
REFERENCE PATH IDENTIFIER (APPROACH ID) W04A
LTP/FTP LATITUDE 400154.5605N
LTP/FTP LONGITUDE 0881707.4630W
LTP/FTP ELLIPSOIDAL HEIGHT +01967
FPAP LATITUDE 400301.7880N
FPAP LONGITUDE 0881551.2505W
THRESHOLD CROSSING HEIGHT (TCH) 00041.9
TCH UNITS SELECTOR (METERS OR FEET USED) F
GLIDEPATH ANGLE (GPA) 03.00
COURSE WIDTH AT THRESHOLD 106.75
LENGTH OFFSET 0768
HORIZONTAL ALERT LIMIT (HAL) 40.0
VERTICAL ALERT LIMIT (VAL) 50.0

CRC REMAINDER

8E41FFEF

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE K5
LTP ORTHOMETRIC HEIGHT +02287
FPAP ORTHOMETRIC HEIGHT +02287

CITY AND STATE

CHAMPAIGN/URBANA, IL

ELEVATION: 755

TDZE: 751

AIRPORT NAME:

UNIVERSITY OF ILLINOIS-WILLARD

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 4, ORIG-B

5 MARCH 2015

SUP:

AMDT: ORIG-A

DATED: 09/23/2010

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC PACKET - 424-18 - RNAV (GPS)

[illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KCMIK5FR04	AARCOL	010	AARCOLK5EA0E	A	IF				18000		A	JS
SUSAP	KCMIK5FR04	AARCOL	020	BOSTNK5EA0EE	B	010TF	33690163	+	02300			A	JS
SUSAP	KCMIK5FR04	AAXC	010	AAXC K5D 0V	A	IF				18000		A	JS
SUSAP	KCMIK5FR04	AAXC	020	BOSTNK5EA0EE	B	010TF	06660215	+	02300			A	JS
SUSAP	KCMIK5FR04	ACMI	010	ACMI K5D 0V		IF				18000		A	JS
SUSAP	KCMIK5FR04	ACMI	020	BOSTNK5EA0EY		020TF	22520112	+	02300			A	JS
SUSAP	KCMIK5FR04	ACMI	030	BOSTNK5EA0EE	AR	HF	04400040	+	02300			A	JS
SUSAP	KCMIK5FR04	R	010	BOSTNK5EA0E	I	IF		+	02300	18000		A	JS
SUSAP	KCMIK5FR04	R	020	AFTORK5EA1E	F	051TF	04400061	+	02300		RW04	K5PGA	JS
SUSAP	KCMIK5FR04	R	020	AFTORK5EA2WALPV									JS
SUSAP	KCMIK5FR04	R	021	KIOWAK5EA0E	S	031TF	04400031	V	0128001304		-300	A	JS
SUSAP	KCMIK5FR04	R	030	RW04 K5PG0GY	M	031TF	04400016		00792		-300	A	JS
SUSAP	KCMIK5FR04	R	040		O	M	0440	+	01001			A	JS
SUSAP	KCMIK5FR04	R	050	MUGTEK5EA0EY		DF		+	02800			A	JS
SUSAP	KCMIK5FR04	R	060	MUGTEK5EA0EE	R	HM	22420040	+	02800			A	JS

[illegible]CITY AND STATE
CHAMPAIGN/URBANA, IL

ELEVATION: 755	TDZE: 751
AIRPORT NAME: UNIVERSITY OF ILLINOIS-WILLARD	

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
RNAV (GPS) RWY 4, ORIG-B
5 MARCH 2015

SUP:	
AMDT:	ORIG-A
DATED:	09/23/2010

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

	1	2	3	4	5	6	7	8	9	0	1	2	3
PP	12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												

	SUSAP KCMIK5PR04	RW04 001 0000W04A0N4001545605W08817074630+019670300N4003017880W08815512505106750768000419F4005008E41FFEF											
	SUSAP KCMIK5PR04	RW04 002E +02287+02287LPV 58311											

	1	2	3	4	5	6	7	8	9	0	1	2	3
MSA	12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												

	SUSAP KCMIK5SRW04 K5PG	0 18018003125	M										

CITY AND STATE
CHAMPAIGN/URBANA, IL

ELEVATION: **755** TDZE: **751**
 AIRPORT NAME:
UNIVERSITY OF ILLINOIS-WILLARD

FACILITY
 IDENTIFIER:
RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
RNAV (GPS) RWY 4, ORIG-B
5 MARCH 2015

SUP:
 AMDT: **ORIG-A**
 DATED: **09/23/2010**

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	ARCOL	ARCOL	010	IAF	IF		FB					
	ARCOL	BOSTN	020		TF		FB	1.0	336.9 (333.9T)	016.3	AA 02300	
	AXC	AXC	010	IAF	IF		FB					
	AXC	BOSTN	020		TF		FB	1.0	066.6 (063.6T)	021.5	AA 02300	
	CMI	CMI	010		IF		FB					
	CMI	BOSTN	020		TF		FO	2.0	225.2 (222.2T)	011.2	AA 02300	
	CMI	BOSTN	030	IAF	HF	R	FO		044.0 (041.0T)	004.0	AA 02300	
		BOSTN	010	FACF	IF		FB				AA 02300	
		AFTOR	020	FAF	TF		FB	0.5	044.0 (041.0T)	006.1	AA 02300	
		KIOWA	021	SDF	TF		FB	0.3	044.0 (041.0T)	003.1	AA 01280	GS 01304
		RW04	030	MAP	TF		FO	0.3	044.0 (041.0T)	001.6	AT 00792	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		044.0 (041.0T)		AA 01001	
	MUGTE	050		DF		FO				AA 02800	
	MUGTE	060		HM	R	FO		224.2 (221.2T)	004.0	AA 02800	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	AXC	N394415.08	W0885123.15	N3944.251	W08851.386
	CMI	N400204.30	W0881633.82	N4002.072	W08816.564
	AFTOR	N395822.88	W0882107.05	N3958.381	W08821.118
	ARCOL	N393905.83	W0881658.71	N3939.097	W08816.979
	BOSTN	N395346.57	W0882618.96	N3953.776	W08826.316
	KIOWA	N400042.11	W0881829.53	N4000.702	W08818.492
	MUGTE	N401100.58	W0880646.78	N4011.010	W08806.780
	RW04	N400154.56	W0881707.46	N4001.909	W08817.124

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW04	00750	42

CITY AND STATE CHAMPAIGN/URBANA, IL	ELEVATION: 755	TDZE: 751	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 4, ORIG-B 5 MARCH 2015	SUP:
	AIRPORT NAME: UNIVERSITY OF ILLINOIS-WILLARD				AMDT: ORIG-A
					DATED: 09/23/2010

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.											
TERMINAL ROUTES				MISSED APPROACH											
FROM	TO	COURSE AND DISTANCE	ALTITUDE	LPV: DA LNAV/VNAV: DA LNAV: RW14L CLIMB TO 2600 DIRECT ODEBE AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SE, RT, 318.73 INBOUND. CHART FAS OBST: 854 TREE 400324N/0881733W DISTANCE TO THLD FROM 200 HAT: 0.48 NM. CHART VDP AT 1.00 MILES TO RW14L* *LNAV ONLY. WAAS CHANNEL # 86419 REFERENCE PATH ID: W14A CHART CIRCLING ICON. CHART ASR LTP HAE: 198.1 M											
RBS VOR/DME	ORANJ (FB)	210.54 / 22.50	2800												
BLLUE (IAF)	RRRED (NOPT) (FB)	042.97 / 5.56	2800												
ORANJ (IAF)	RRRED (NOPT) (FB)	228.53 / 5.00	2800												
RRRED (IF/IAF)	GRANJ (FB)	138.48 / 6.14	2700												
GRANJ (F.A.F)	WORN0/1.90 NM TO RW14L (FB)	138.54 / 3.96													
WORN0/1.90 NM TO RW14L (SEE FORM 8260-10)	RW14L (MAP) (FO)	138.54 / 1.90													
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. HOLD NW RRRED, RT, 138.48 INBOUND, 2800 FT. IN LIEU OF PT (IAF) 3. FAC: <u>138.54</u> FAF: <u>GRANJ</u> DIST FAF TO MAP: <u>5.86</u> THLD: <u>5.86</u> 4. MIN. ALT: RRRED 2800, GRANJ 2700, WORN0/1.90 NM TO RW14L 1380* 5. DIST TO THLD FROM OM: <u> </u> MM: <u> </u> IM: <u> </u> 150 HAT: <u> </u> 100 HAT: <u> </u> GS ANT: <u> </u> 6. MIN GS INCPT: <u>2700</u> GS ALT AT: <u>GRANJ 2700</u> OM: <u> </u> MM: <u> </u> IM: <u> </u> 7. GS ANGLE: <u>3.00</u> TCH: <u>47.9</u> 34:1 IS CLEAR 8. MSA FROM: RW14L 3100				MAG VAR: 3W EPOCH YEAR: 2015											
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT				ALTERNATE: N A		STANDARD @									
CATEGORY =====>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA	955	3/4	200	955	3/4	200	955	3/4	200	955	3/4	200			
LNAV/VNAV DA	1170	1 1/2	415	1170	1 1/2	415	1170	1 1/2	415	1170	1 1/2	415			
LNAV MDA	1120	1	365	1120	1	365	1120	1	365	1120	1 1/4	365			
CIRCLING	1240	1	485	1240	1	485	1500	2 1/4	745	1500	2 1/2	745			
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20C (-4F) OR ABOVE 54C (130F). CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE RANTOUL ALTIMETER SETTING AND INCREASE ALL DA 41 FEET AND ALL MDA 60 FEET, INCREASE LNAV CAT C VISIBILITY 1/4 MILE. (SEE FORM 8260-10)															
CITY AND STATE		ELEVATION: 755 TDZE: 755		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:		QUALITY CHECKED			
CHAMPAIGN/URBANA, IL		AIRPORT NAME:		UNIVERSITY OF ILLINOIS-WILLARD		RNAV (GPS) RWY 14L, ORIG-A 5 MARCH 2015				AMDT: ORIG					
										DATED 09/23/2010					

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
RW14L (MAP)	955 MSL	138.54	
955 MSL	ODEBE (FO)		2600

NOTES, (CONT.):

CHART NOTE: DME/DME RNP-0.3 NA.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BLLUE ON V191 SOUTHWEST BOUND.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON RBS VOR/DME AIRWAY RADIALS 187 CW 231.

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING RANTOUL ALTIMETER SETTING.



CITY AND STATE CHAMPAIGN/URBANA, IL	ELEVATION: 755	TDZE: 755	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 14L, ORIG-A 5 MARCH 2015	SUP:
	AIRPORT NAME:				AMDT: ORIG
	UNIVERSITY OF ILLINOIS-WILLARD				DATED: 09/23/2010

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet. MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION**DATA FIELD****DATA**

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KCMI
RUNWAY	RW14L
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W14A
LTP/FTP LATITUDE	400250.5040N
LTP/FTP LONGITUDE	0881708.6330W
LTP/FTP ELLIPSOIDAL HEIGHT	+01981
FPAP LATITUDE	400146.7885N
FPAP LONGITUDE	0881547.4775W
THRESHOLD CROSSING HEIGHT (TCH)	00047.9
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0280
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

CRC REMAINDER

BC9E34F8

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02300
FPAP ORTHOMETRIC HEIGHT	+02300



CITY AND STATE CHAMPAIGN/URBANA, IL	ELEVATION: 755 AIRPORT NAME: UNIVERSITY OF ILLINOIS-WILLARD	TDZE: 755	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 14L, ORIG-A 5 MARCH 2015	SUP:
					AMDT: ORIG
					DATED: 09/23/2010

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC PACKET - 424-18 - RNAV (GPS)

[illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KCMIK5FR14L	ABLLUE	010BLLUEK5EA0E	A	IF					18000		A	JS
SUSAP	KCMIK5FR14L	ABLLUE	020RRREDK5EA0EE	B	010TF		04300056	+	02800			A	JS
SUSAP	KCMIK5FR14L	ARBS	010RBS	K5D	0V					18000		A	JS
SUSAP	KCMIK5FR14L	ARBS	020ORANJK5EA0E	A	020TF		21050225	+	02800			A	JS
SUSAP	KCMIK5FR14L	ARBS	030RRREDK5EA0EE	B	010TF		22850050	+	02800			A	JS
SUSAP	KCMIK5FR14L	ARRRED	010RRREDK5EA0EE	AR	HF		13850040	+	02800	18000		A	JS
SUSAP	KCMIK5FR14L	R	010RRREDK5EA0E	I	IF			+	02800	18000		A	JS
SUSAP	KCMIK5FR14L	R	020GRANJK5EA1E	F	051TF		13850061	+	02700			RW14L	K5PGA JS
SUSAP	KCMIK5FR14L	R	020GRANJK5EA2WALPV			ALNAV/VNAV	ALNAV						JS
SUSAP	KCMIK5FR14L	R	021WORNOK5EA0E	S	031TF		13850040	V	0138001411		-300		A JS
SUSAP	KCMIK5FR14L	R	030RW14LK5PGOGY	M	031TF		13850019		00803		-300		A JS
SUSAP	KCMIK5FR14L	R	040		0 M	CA	1385	+	00955				A JS
SUSAP	KCMIK5FR14L	R	0500DEBEK5EA0EY		DF				02600				A JS
SUSAP	KCMIK5FR14L	R	0600DEBEK5EA0EE	R	HM		31870040	+	02600				A JS

[illegible]

CITY AND STATE CHAMPAIGN/URBANA, IL	ELEVATION: 755	TDZE: 755	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME:			RNAV (GPS) RWY 14L, ORIG-A	AMDT: ORIG
	UNIVERSITY OF ILLINOIS-WILLARD		RNAV	5 MARCH 2015	DATED: 09/23/2010

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

PP 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012

SUSAP KCMIK5PR14L RW14L001 0000W14A0N4002505040W08817086330+019810300N4001467885W08815474775106750280000479F400350BC9E34F8
SUSAP KCMIK5PR14L RW14L002E +02300+02300LPV 86419

1 2 3 4 5 6 7 8 9 0 1 2 3
MSA 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012

SUSAP KCMIK5SRW14LK5PG 0 18018003125 M

CITY AND STATE
CHAMPAIGN/URBANA, IL

ELEVATION: 755 TDZE: 755
AIRPORT NAME:
UNIVERSITY OF ILLINOIS-WILLARD

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
RNAV (GPS) RWY 14L, ORIG-A
5 MARCH 2015

SUP:
AMDT: ORIG
DATED: 09/23/2010

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	BLLUE	BLLUE	010	IAF	IF		FB					
	BLLUE	RRRED	020		TF		FB	1.0	043.0 (040.0T)	005.6	AA 02800	
	RBS	RBS	010		IF		FB					
	RBS	ORANJ	020	IAF	TF		FB	2.0	210.5 (207.5T)	022.5	AA 02800	
	RBS	RRRED	030		TF		FB	1.0	228.5 (225.5T)	005.0	AA 02800	
	RRRED	RRRED	010	IAF	HF	R	FO		138.5 (135.5T)	004.0	AA 02800	
		RRRED	010	FACF	IF		FB				AA 02800	
		GRANJ	020	FAF	TF		FB	0.5	138.5 (135.5T)	006.1	AA 02700	
		WORN0	021	SDF	TF		FB	0.3	138.5 (135.5T)	004.0	AA 01380 GS 01411	
		RW14L	030	MAP	TF		FO	0.3	138.5 (135.5T)	001.9	AT 00803	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		138.5 (135.5T)		AA 00955	
	ODEBE	050		DF		FO				AA 02600	
	ODEBE	060		HM	R	FO		318.7 (315.7T)	004.0	AA 02600	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	RBS	N403454.13	W0880951.36	N4034.902	W08809.856
	BLLUE	N400709.20	W0883245.48	N4007.153	W08832.758
	GRANJ	N400701.89	W0882229.43	N4007.032	W08822.491
	ODEBE	N395317.87	W0880501.42	N3953.298	W08805.024
	ORANJ	N401455.20	W0882326.62	N4014.920	W08823.444
	RRRED	N401124.79	W0882805.98	N4011.413	W08828.100
	WORN0	N400412.00	W0881852.53	N4004.200	W08818.876
	RW14L	N400250.50	W0881708.63	N4002.842	W08817.144

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW14L	00755	48

CITY AND STATE
CHAMPAIGN/URBANA, IL

ELEVATION: 755 TDZE: 755
 AIRPORT NAME:
 UNIVERSITY OF ILLINOIS-WILLARD

FACILITY IDENTIFIER:
 RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
 RNAV (GPS) RWY 14L, ORIG-A
 5 MARCH 2015

SUP:
 AMDT: ORIG
 DATED: 09/23/2010

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet. MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
YETUN/1.70 NM TO RW18	RW18 (MAP) (FO)	182.40 / 1.70	
RW18 (MAP)	1003 MSL	182.40	
1003 MSL	UBAGE (FO)		2400

NOTES, (CONT.):

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE RANTOUL ALTIMETER SETTING AND INCREASE ALL DA 41 FEET AND ALL MDA 60 FEET, INCREASE LPV ALL CATS AND LNAV CAT D VISIBILITY 1/4 MILE.
 CHART NOTE: BARO-VNAV AND VDP NA WHEN USING RANTOUL ALTIMETER SETTING.

CITY AND STATE
 CHAMPAIGN/URBANA, IL

ELEVATION: 755 TDZE: 753
 AIRPORT NAME:
 UNIVERSITY OF ILLINOIS-WILLARD

FACILITY
 IDENTIFIER:
 RNAV

PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:
 RNAV (GPS) RWY 18, ORIG-A
 5 MARCH 2015

SUP:
 AMDT: ORIG
 DATED: 09/23/2010

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION**DATA FIELD****DATA**

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KCMI
RUNWAY	RW18
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W18A
LTP/FTP LATITUDE	400249.4470N
LTP/FTP LONGITUDE	0881656.2740W
LTP/FTP ELLIPSOIDAL HEIGHT	+01974
FPAP LATITUDE	400120.2840N
FPAP LONGITUDE	0881655.0595W
THRESHOLD CROSSING HEIGHT (TCH)	00045.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1136
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER

2E2EF19D

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02294
FPAP ORTHOMETRIC HEIGHT	+02294

CITY AND STATE

CHAMPAIGN/URBANA, IL

ELEVATION: 755

TDZE: 753

AIRPORT NAME:

UNIVERSITY OF ILLINOIS-WILLARD

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 18, ORIG-A

5 MARCH 2015

SUP:

AMDT: ORIG

DATED: 09/23/2010

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC PACKET - 424-18 - RNAV (GPS)

[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KCMIK5FR18	ALODGE	010LODGEK5EA0E	IF						18000		A	JS
SUSAP	KCMIK5FR18	ALODGE	020JUPROK5EA0E	A 020TF		05180081	+	02800				A	JS
SUSAP	KCMIK5FR18	ALODGE	030USAVYK5EA0EE	B 010TF		09230050	+	02400				A	JS
SUSAP	KCMIK5FR18	ALUDLO	010LUDLOK5EA0E	A IF						18000		A	JS
SUSAP	KCMIK5FR18	ALUDLO	020USAVYK5EA0EE	B 010TF		20480100	+	02400				A	JS
SUSAP	KCMIK5FR18	AOCTOE	010OCTOEK5EA0E	IF						18000		A	JS
SUSAP	KCMIK5FR18	AOCTOE	020ZONAK5EA0E	A 020TF		31960093	+	02500				A	JS
SUSAP	KCMIK5FR18	AOCTOE	030USAVYK5EA0EE	B 010TF		27250050	+	02400				A	JS
SUSAP	KCMIK5FR18	AUSAVY	010USAVYK5EA0EE	AR HF		18240040	+	02400		18000		A	JS
SUSAP	KCMIK5FR18	R	010USAVYK5EA0E	I IF			+	02400		18000		A	JS
SUSAP	KCMIK5FR18	R	020GEMKY5EA1E	F 051TF		18240062	+	02400			RW18	K5PGA	JS
SUSAP	KCMIK5FR18	R	020GEMKY5EA2WALPV		ALNAV/VNAV	ALNAV							JS
SUSAP	KCMIK5FR18	R	021YETUNK5EA0E	S 031TF		18240033	V	0132001342		-300		A	JS
SUSAP	KCMIK5FR18	R	030RW18 K5PGOGY	M 031TF		18240017		00798		-300		A	JS
SUSAP	KCMIK5FR18	R	040	O M CA		1824	+	01003				A	JS
SUSAP	KCMIK5FR18	R	050UBAGEK5EA0EY	DF				02400				A	JS
SUSAP	KCMIK5FR18	R	060UBAGEK5EA0EE	R HM		00240040	+	02400				A	JS

[illegible]CITY AND STATE
CHAMPAIGN/URBANA, IL

ELEVATION: 755	TDZE: 753
AIRPORT NAME: UNIVERSITY OF ILLINOIS-WILLARD	

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
RNAV (GPS) RWY 18, ORIG-A
5 MARCH 2015

SUP:	
AMDT:	ORIG
DATED:	09/23/2010

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible]

TDZE: 753

RNAV

RNAV (GPS) RWY 18, ORIG-A

5 MARCH 2015

AMDT:	ORIG

09/23/2010

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	LODGE	LODGE	010		IF		FB					
	LODGE	JUPRO	020	IAF	TF		FB	2.0	051.8 (048.8T)	008.1	AA 02800	
	LODGE	USAVY	030		TF		FB	1.0	092.3 (089.3T)	005.0	AA 02400	
	LUDLO	LUDLO	010	IAF	IF		FB					
	LUDLO	USAVY	020		TF		FB	1.0	204.8 (201.8T)	010.0	AA 02400	
	OCTOE	OCTOE	010		IF		FB					
	OCTOE	ZONAX	020	IAF	TF		FB	2.0	319.6 (316.6T)	009.3	AA 02500	
	OCTOE	USAVY	030		TF		FB	1.0	272.5 (269.5T)	005.0	AA 02400	
	USAVY	USAVY	010	IAF	HF	R	FO		182.4 (179.4T)	004.0	AA 02400	
		USAVY	010	FACF	IF		FB				AA 02400	
		OGEMY	020	FAF	TF		FB	0.5	182.4 (179.4T)	006.2	AA 02400	
		YETUN	021	SDF	TF		FB	0.3	182.4 (179.4T)	003.3	AA 01320	GS 01342
		RW18	030	MAP	TF		FO	0.3	182.4 (179.4T)	001.7	AT 00798	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		182.4 (179.4T)		AA 01003	
	UBAGE	050		DF		FO				AA 02400	
	UBAGE	060		HM	R	FO		002.4 (359.4T)	004.0	AA 02400	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	JUPRO	N401356.18	W0882337.12	N4013.936	W08823.619
	LODGE	N400835.76	W0883134.60	N4008.596	W08831.577
	LUDLO	N402317.24	W0881214.49	N4023.287	W08812.242
	OCTOE	N400717.43	W0880212.71	N4007.291	W08802.212
	OGEMY	N400747.46	W0881700.34	N4007.791	W08817.006
	UBAGE	N395045.77	W0881646.44	N3950.763	W08816.774
	USAVY	N401359.51	W0881705.43	N4013.992	W08817.091
	YETUN	N400431.52	W0881657.66	N4004.525	W08816.961
	ZONAX	N401402.47	W0881033.73	N4014.041	W08810.562
	RW18	N400249.45	W0881656.27	N4002.824	W08816.938

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW18	00753	45

CITY AND STATE CHAMPAIGN/URBANA, IL	ELEVATION: 755	TDZE: 753	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: UNIVERSITY OF ILLINOIS-WILLARD		RNAV	RNAV (GPS) RWY 18, ORIG-A	AMDT: ORIG
				5 MARCH 2015	DATED: 09/23/2010

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33		Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.											
TERMINAL ROUTES				MISSED APPROACH											
FROM	TO	COURSE AND DISTANCE	ALTITUDE	LPV: DA LNAV/VNAV: DA LNAV: RW22											
RBS VOR/DME (IAF)	MUGTE (NOPT) (FB)	177.36 / 23.99	2800	CLIMB TO 2300 DIRECT BOSTN AND HOLD.											
DNV VORTAC (IAF)	MUGTE (NOPT) (FB)	258.66 / 26.38	2800												
MUGTE (IF/IAF)	ZUPKE (FB)	224.17 / 6.01	2400												
ZUPKE (FAF)	JESDI/2.10 NM TO RW22 (FB)	224.12 / 2.89													
JESDI/2.10 NM TO RW22	RW22 (MAP) (FO)	224.12 / 2.10		ADDITIONAL FLIGHT DATA: HOLD SW, RT, 043.96 INBOUND. CHART FAS OBST: 852 TREE 400341N/0881555W CHART 1146 TOWER 400504N/0881453W. DISTANCE TO THLD FROM 250 HAT: 0.66 NM. CHART VDP AT 1.04 MILES TO RW22* *LNAV ONLY. WAAS CHANNEL # 97619 REFERENCE PATH ID: W22A CHART ASR. CHART CIRCLING ICON. LTP HAE: 195.3 M											
RW22 (MAP)	1000 MSL	224.12													
1000 MSL	BOSTN (FO)		2300												
1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF) 2. HOLD NE MUGTE, RT, 224.17 INBOUND, 2800 FT. IN LIEU OF PT (IAF) 3. FAC: 224.12 FAF: ZUPKE DIST FAF TO MAP: 4.99 THLD: 4.99 4. MIN. ALT: MUGTE 2800, ZUPKE 2400, JESDI/2.10 NM TO RW22 1460* 5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT: 6. MIN GS INCPT: 2400 GS ALT AT: ZUPKE 2400 OM: MM: IM: 7. GS ANGLE: 3.00 TCH: 42.5 34:1 IS NOT CLEAR 8. MSA FROM: RW22 3100															
				MAG VAR: 3W EPOCH YEAR: 2015											
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT			ALTERNATE: N A		STANDARD @										
CATEGORY =====>	A		B		C	D	E								
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA	1000	1	250	1000	1	250	1000	1	250	1000	1	250			
LNAV/VNAV DA	1219	1 3/4	469	1219	1 3/4	469	1219	1 3/4	469	1219	1 3/4	469			
LNAV MDA	1120	1	370	1120	1	370	1120	1	370	1120	1 1/4	370			
CIRCLING	1240	1	485	1240	1	485	1500	2 1/4	745	1500	2 1/2	745			
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -21C (-5F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT DNV VORTAC ON V251 NORTHEAST BOUND. (SEE FORM 8260-10)															
CITY AND STATE CHAMPAIGN/URBANA, IL		ELEVATION: 755 TDZE: 750 AIRPORT NAME: UNIVERSITY OF ILLINOIS-WILLARD		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 22, AMDT 1A 5 MARCH 2015				SUP: AMDT: 1 DATED 09/23/2010					

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE RANTOUL ALTIMETER SETTING AND INCREASE

ALL DA 41 FEET AND ALL MDA 60 FEET; INCREASE LNAV CAT C VISIBILITY 1/4 MILE.

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING RANTOUL ALTIMETER SETTING.

CHART NOTE: PROCEDURE NA FOR ARRIVALS ON RBS VOR/DME AIRWAY RADIALS 187 CW 231.

CHART NOTE: PROCEDURE NA FOR ARRIVALS AT DNV VORTAC ON V251 NORTHEAST BOUND.

CITY AND STATE
CHAMPAIGN/URBANA, IL

ELEVATION: 755 TDZE: 750
AIRPORT NAME:
UNIVERSITY OF ILLINOIS-WILLARD

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO. / AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 22, AMDT 1A
5 MARCH 2015

SUP:
AMDT: 1
DATED: 09/23/2010

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION**DATA FIELD****DATA**

OPERATION TYPE 0
SBAS SERVICE PROVIDER IDENTIFIER 0
AIRPORT IDENTIFIER KCMJ
RUNWAY RW22
APPROACH PERFORMANCE DESIGNATOR 0
ROUTE INDICATOR
REFERENCE PATH DATA SELECTOR 0
REFERENCE PATH IDENTIFIER (APPROACH ID) W22A
LTP/FTP LATITUDE 400242.9980N
LTP/FTP LONGITUDE 0881612.5520W
LTP/FTP ELLIPSOIDAL HEIGHT +01953
FPAP LATITUDE 400135.7670N
FPAP LONGITUDE 0881728.7535W
THRESHOLD CROSSING HEIGHT (TCH) 00042.5
TCH UNITS SELECTOR (METERS OR FEET USED) F
GLIDEPATH ANGLE (GPA) 03.00
COURSE WIDTH AT THRESHOLD 106.75
LENGTH OFFSET 0768
HORIZONTAL ALERT LIMIT (HAL) 40.0
VERTICAL ALERT LIMIT (VAL) 50.0

CRC REMAINDER

DCCADB84

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE K5
LTP ORTHOMETRIC HEIGHT +02273
FPAP ORTHOMETRIC HEIGHT +02273

CITY AND STATE

CHAMPAIGN/URBANA, IL

ELEVATION: 755

TDZE: 750

AIRPORT NAME:

UNIVERSITY OF ILLINOIS-WILLARD

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 22, AMDT 1A

5 MARCH 2015

SUP:

AMDT: 1

DATED: 09/23/2010

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC PACKET - 424-18 - RNAV (GPS)

[illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KCMIK5FR22	ADNV	010DNV	K5D 0V	A	IF				18000		A	JS
SUSAP	KCMIK5FR22	ADNV	020MUGTEK5EA0EE	B	010TF		25870264	+	02800			A	JS
SUSAP	KCMIK5FR22	AMUGTE	010MUGTEK5EA0EE	AR	HF		22420040	+	02800	18000		A	JS
SUSAP	KCMIK5FR22	ARBS	010RBS	K5D 0V	A	IF				18000		A	JS
SUSAP	KCMIK5FR22	ARBS	020MUGTEK5EA0EE	B	010TF		17740240	+	02800			A	JS
SUSAP	KCMIK5FR22	R	010MUGTEK5EA0E	I	IF			+	02800	18000		A	JS
SUSAP	KCMIK5FR22	R	020ZUPKEK5EA1E	F	051TF		22420060	+	02400		RW22	K5PGA	JS
SUSAP	KCMIK5FR22	R	020ZUPKEK5EA2WALPV			ALNAV/VNAV	ALNAV						JS
SUSAP	KCMIK5FR22	R	021JESDIK5EA0E	S	031TF		22410029	V	0146001461		-300		A
SUSAP	KCMIK5FR22	R	030RW22	K5PG0GY	M	031TF	22410021		00788		-300		A
SUSAP	KCMIK5FR22	R	040		M	CA	2241	+	01000				A
SUSAP	KCMIK5FR22	R	050BOSTNKN5EA0EY		DF			+	02300				A
SUSAP	KCMIK5FR22	R	060BOSTNKN5EA0EE	R	HM		04400040	+	02300				A

[illegible][illegible]

CITY AND STATE CHAMPAIGN/URBANA, IL	ELEVATION: 755 AIRPORT NAME: UNIVERSITY OF ILLINOIS-WILLARD	TDZE: 750 RNAV	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
				RNAV (GPS) RWY 22, AMDT 1A	AMDT: 1
				5 MARCH 2015	DATED: 09/23/2010

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

SUSAP KCMIK5PR22 RW22 001 0000W22A0N4002429980W08816125520+019530300N4001357670W08817287535106750768000425F400500DCCADB84
SUSAP KCMIK5PR22 RW22 002E +02273+02273LPV 97619

[illegible]

CITY AND STATE
CHAMPAIGN/URBANA, IL

ELEVATION: 755	TDZE: 750
AIRPORT NAME: UNIVERSITY OF ILLINOIS-WILLARD	

FACILITY
IDENTIFIER:
| RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
RNAV (GPS) RWY 22, AMDT 1A
5 MARCH 2015

SUP:	
AMDT:	1
DATED:	09/23/2010

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
DNV	DNV	DNV	010	IAF	IF		FB					
DNV	MUGTE	MUGTE	020		TF		FB	1.0	258.7 (255.7T)	026.4	AA 02800	
MUGTE	MUGTE	MUGTE	010	IAF	HF	R	FO		224.2 (221.2T)	004.0	AA 02800	
RBS	RBS	RBS	010	IAF	IF		FB					
RBS	MUGTE	MUGTE	020		TF		FB	1.0	177.4 (174.4T)	024.0	AA 02800	
	MUGTE	MUGTE	010	FACF	IF		FB				AA 02800	
	ZUPKE	ZUPKE	020	FAF	TF		FB	0.5	224.2 (221.2T)	006.0	AA 02400	
	JESDI	JESDI	021	SDF	TF		FB	0.3	224.1 (221.1T)	002.9	AA 01460	GS 01461
	RW22	RW22	030	MAP	TF		FO	0.3	224.1 (221.1T)	002.1	AT 00788	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		224.1 (221.1T)		AA 01000	
	BOSTN	050		DF		FO				AA 02300	
	BOSTN	060		HM	R	FO		044.0 (041.0T)	004.0	AA 02300	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	DNV	N401737.56	W0873326.14	N4017.626	W08733.436
	RBS	N403454.13	W0880951.36	N4034.902	W08809.856
	BOSTN	N395346.57	W0882618.96	N3953.776	W08826.316
	JESDI	N400418.05	W0881424.72	N4004.301	W08814.412
	MUGTE	N401100.58	W0880646.78	N4011.010	W08806.780
	ZUPKE	N400628.89	W0881156.10	N4006.482	W08811.935
	RW22	N400243.00	W0881612.55	N4002.717	W08816.209

RUNWAY DATA	THRESHOLD	TCH
RWY	ELEVATION	
RW22	00746	43

CITY AND STATE CHAMPAIGN/URBANA, IL	ELEVATION: 755	TDZE: 750	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 22, AMDT 1A 5 MARCH 2015	SUP:
	AIRPORT NAME: UNIVERSITY OF ILLINOIS-WILLARD				AMDT: 1
					DATED: 09/23/2010

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.								
TERMINAL ROUTES				MISSED APPROACH								
FROM	TO	COURSE AND DISTANCE	ALTITUDE	LPV: DA LNAV/VNAV: DA LNAV: RW32R CLIMB TO 2800 DIRECT HIPUB AND ON TRACK 286.54 TO LODGE AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NW, LT, 119.39 INBOUND. CHART FAS OBST: 881 T-L TWR 400102N/0881523W DISTANCE TO THLD FROM 250 HAT: 0.62 NM. CHART VDP AT 0.99 MILES TO RW32R* *LNAV ONLY. WAAS CHANNEL # 61110 REFERENCE PATH ID: W32A CHART: ASR CHART CIRCLING ICON. LTP HAE: 196.4 M								
CMI VORTAC	ODEBE (FO)	137.60 / 12.47	2600									
OCTOE	SUGKO (FB)	175.30 / 10.59	2600									
TUSCO	TULKE (FB)	069.80 / 6.00	2600									
NEWMY (IAF)	ODEBE (NOPT) (FB)	288.55 / 6.95	2600									
TULKE (IAF)	ODEBE (NOPT) (FB)	048.68 / 5.00	2600									
SUGKO (IAF)	ODEBE (NOPT) (FB)	228.78 / 5.00	2600									
ODEBE (IF/IAF)	ZAGMO (FB)	318.73 / 6.44	2600									
(SEE FORM 8260-10)												
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. HOLD SE ODEBE, RT, 318.73 INBOUND, 2600 FT. IN LIEU OF PT (IAF) 3. FAC: <u>318.67</u> FAF: <u>ZAGMO</u> DIST FAF TO MAP: <u>5.56</u> THLD: <u>5.56</u> 4. MIN. ALT: <u>ODEBE 2600, ZAGMO 2600, NUVIY/2.40 NM TO RW32R 1560*</u> 5. DIST TO THLD FROM OM: <u> </u> MM: <u> </u> IM: <u> </u> 150 HAT: <u> </u> 100 HAT: <u> </u> GS ANT: <u> </u> 6. MIN GS INCPT: <u>2600</u> GS ALT AT: <u>ZAGMO 2600</u> OM: <u> </u> MM: <u> </u> IM: <u> </u> 7. GS ANGLE: <u>3.00</u> TCH: <u>52.4</u> 34:1 IS CLEAR 8. MSA FROM: <u>RW32R 3100</u>												
				MAG VAR: 3W EPOCH YEAR: 2015								
MINIMUMS												
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT				ALTERNATE: N A								
				STANDARD @								
CATEGORY =====>	A		B		C		D		E			
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA	1000	2400	250	1000	2400	250	1000	2400	250	1000	2400	250
LNAV/VNAV DA	1159	5000	409	1159	5000	409	1159	5000	409	1159	5000	409
LNAV MDA	1200	2400	450	1200	2400	450	1200	5000	450	1200	5000	450
CIRCLING	1240	1	485	1240	1	485	1500	2 1/4	745	1500	2 1/2	745
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -19C (-2F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT CMI VORTAC ON V434 WESTBOUND. (SEE FORM 8260-10)												
CITY AND STATE		ELEVATION: 755 TDZE: 750		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:			SUP:			
CHAMPAIGN/URBANA, IL		AIRPORT NAME: UNIVERSITY OF ILLINOIS-WILLARD				RNAV (GPS) RWY 32R, ORIG-A 5 MARCH 2015			AMDT: <u>ORIG</u>			
									DATED 11/20/2008			

**RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
ZAGMO (FAF)	NUVIY/2.40 NM TO RW32R (FB)	318.67 / 3.16	
NUVIY/2.40 NM TO RW32R	RW32R (MAP) (FO)	318.67 / 2.40	
RW32R (MAP)	1000 MSL	318.67	
1000 MSL	HIPUB (FB)		
HIPUB	LODGE (FO)	286.54 / 7.31	2800

NOTES, (CONT.):

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING RANTOUL ALTIMETER SETTING.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE RANTOUL ALTIMETER SETTING AND INCREASE ALL DA 41 FEET, ALL MDA 60 FEET; INCREASE LNAV CAT C VISIBILITY TO RVR 4000.

CHART NOTE: FOR INOPERATIVE MALSR, INCREASE LNAV CAT D VISIBILITY TO RVR 6000.

CITY AND STATE

CHAMPAIGN/URBANA, IL

ELEVATION: 755

TDZE: 750

AIRPORT NAME:

UNIVERSITY OF ILLINOIS-WILLARD

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 32R, ORIG-A

5 MARCH 2015

SUP:

AMDT: ORIG

DATED: 11/20/2008

RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATIONDATA FIELDDATA

OPERATION TYPE 0
SBAS SERVICE PROVIDER IDENTIFIER 0
AIRPORT IDENTIFIER KCMJ
RUNWAY RW32R
APPROACH PERFORMANCE DESIGNATOR 0
ROUTE INDICATOR
REFERENCE PATH DATA SELECTOR 0
REFERENCE PATH IDENTIFIER (APPROACH ID) W32A
LTP/FTP LATITUDE 400153.2910N
LTP/FTP LONGITUDE 0881555.7595W
LTP/FTP ELLIPSOIDAL HEIGHT +01964
FPAP LATITUDE 400257.0020N
FPAP LONGITUDE 0881716.9240W
THRESHOLD CROSSING HEIGHT (TCH) 00052.4
TCH UNITS SELECTOR (METERS OR FEET USED) F
GLIDEPATH ANGLE (GPA) 03.00
COURSE WIDTH AT THRESHOLD 106.75
LENGTH OFFSET 0280
HORIZONTAL ALERT LIMIT (HAL) 40.0
VERTICAL ALERT LIMIT (VAL) 50.0

CRC REMAINDER

AAC50EDE

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE K5
LTP ORTHOMETRIC HEIGHT +02284
FPAP ORTHOMETRIC HEIGHT +02284

CITY AND STATE

CHAMPAIGN/URBANA, IL

ELEVATION: 755

TDZE: 750

AIRPORT NAME:

UNIVERSITY OF ILLINOIS-WILLARD

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 32R, ORIG-A

5 MARCH 2015

SUP:

AMDT: ORIG

DATED: 11/20/2008

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC PACKET - 424-18 - RNAV (GPS)

[illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KCMIK5FR32R	ACMI	010CMI	K5D 0V	IF					18000		A JS	
SUSAP	KCMIK5FR32R	ACMI	0200DEBEK5EA0EY	020TF			13760125	+ 02600				A JS	
SUSAP	KCMIK5FR32R	ACMI	0300DEBEK5EA0EE	AR HF			31870040	+ 02600				A JS	
SUSAP	KCMIK5FR32R	ANEMMY	010NEWMYK5EA0E	A IF					18000			A JS	
SUSAP	KCMIK5FR32R	ANEMMY	0200DEBEK5EA0EE	B 010TF			28860070	+ 02600				A JS	
SUSAP	KCMIK5FR32R	AOCTOE	010OCTOEK5EA0E	IF					18000			A JS	
SUSAP	KCMIK5FR32R	AOCTOE	020SUGKOK5EA0E	A 020TF			17530106	+ 02600				A JS	
SUSAP	KCMIK5FR32R	AOCTOE	0300DEBEK5EA0EE	B 010TF			22880050	+ 02600				A JS	
SUSAP	KCMIK5FR32R	ATUSCO	010TUSCOK5EA0E	IF					18000			A JS	
SUSAP	KCMIK5FR32R	ATUSCO	020TULKEK5EA0E	A 020TF			06980060	+ 02600				A JS	
SUSAP	KCMIK5FR32R	ATUSCO	0300DEBEK5EA0EE	B 010TF			04870050	+ 02600				A JS	
SUSAP	KCMIK5FR32R	R	0100DEBEK5EA0E	I IF				+ 02600	18000			A JS	
SUSAP	KCMIK5FR32R	R	020ZAGMOK5EA1E	F 051TF			31870064	+ 02600			RW32R K5PGA	JS	
SUSAP	KCMIK5FR32R	R	020ZAGMOK5EA2WALPV		ALNAV/VNAV	ALNAV						JS	
SUSAP	KCMIK5FR32R	R	021NUVIYK5EA0E	S 031TF			31870032	V 0156001566		-300		A JS	
SUSAP	KCMIK5FR32R	R	030RW32RK5PGOGY	M 031TF			31870024	00802		-300		A JS	
SUSAP	KCMIK5FR32R	R	040	O M CA			3187	+ 01000				A JS	

CITY AND STATE
CHAMPAIGN/URBANA, IL

ELEVATION: 755 TDZE: 750
AIRPORT NAME:
UNIVERSITY OF ILLINOIS-WILLARD

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
RNAV (GPS) RWY 32R, ORIG-A

5 MARCH 2015

SUP:

AMDT:	ORIG

DATED:

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

indicated, except visibilities which are in statute miles or in feet RVR.

A JS
A JS
A JS

[illegible]

SUP:	
AMDT:	ORIG
DATED:	

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	CMI	CMI	010		IF		FB					
	CMI	ODEBE	020		TF		FO	2.0	137.6 (134.6T)	012.5	AA 02600	
	CMI	ODEBE	030	IAF	HF	R	FO		318.7 (315.7T)	004.0	AA 02600	
	NEWMY	NEWMY	010	IAF	IF		FB					
	NEWMY	ODEBE	020		TF		FB	1.0	288.6 (285.6T)	007.0	AA 02600	
	OCTOE	OCTOE	010		IF		FB					
	OCTOE	SUGKO	020	IAF	TF		FB	2.0	175.3 (172.3T)	010.6	AA 02600	
	OCTOE	ODEBE	030		TF		FB	1.0	228.8 (225.8T)	005.0	AA 02600	
	TUSCO	TUSCO	010		IF		FB					
	TUSCO	TULKE	020	IAF	TF		FB	2.0	069.8 (066.8T)	006.0	AA 02600	
	TUSCO	ODEBE	030		TF		FB	1.0	048.7 (045.7T)	005.0	AA 02600	
		ODEBE	010	FACF	IF		FB				AA 02600	
		ZAGMO	020	FAF	TF		FB	0.5	318.7 (315.7T)	006.4	AA 02600	
		NUVIY	021	SDF	TF		FB	0.3	318.7 (315.7T)	003.2	AA 01560	GS 01566
		RW32R	030	MAP	TF		FO	0.3	318.7 (315.7T)	002.4	AT 00802	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		318.7 (315.7T)		AA 01000	
	HIPUB	050		DF		FB					
	LODGE	060		TF		FO	1.0	286.5 (283.5T)		AA 02800	
	LODGE	070		HM	L	FO		119.4 (116.4T)	004.0	AA 02800	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	CMI	N400204.30	W0881633.82	N4002.072	W08816.564
	HIPUB	N400653.42	W0882218.79	N4006.890	W08822.313
	LODGE	N400835.76	W0883134.60	N4008.596	W08831.577
	NEWMY	N395126.22	W0875619.21	N3951.437	W08756.320
	NUVIY	N400010.29	W0881344.67	N4000.172	W08813.745
	OCTOE	N400717.43	W0880212.71	N4007.291	W08802.212
	ODEBE	N395317.87	W0880501.42	N3953.298	W08805.024
	SUGKO	N395647.35	W0880022.10	N3956.789	W08800.368
	TULKE	N394948.20	W0880940.26	N3949.803	W08809.671
	TUSCO	N394726.51	W0881649.69	N3947.442	W08816.828
	ZAGMO	N395754.47	W0881052.07	N3957.908	W08810.868
	RW32R	N400153.29	W0881555.76	N4001.888	W08815.929

RUNWAY DATA	THRESHOLD	ELEVATION	TCH
RWY			
RW32R	00749		52

CITY AND STATE
CHAMPAIGN/URBANA, IL

ELEVATION: 755 TDZE: 750
AIRPORT NAME:
UNIVERSITY OF ILLINOIS-WILLARD

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
RNAV (GPS) RWY 32R, ORIG-A
5 MARCH 2015

SUP:	
AMDT:	ORIG
DATED:	

US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

TERMINAL ROUTES				MISSED APPROACH			
FROM	TO	COURSE AND DISTANCE	ALTITUDE				
NEWMY	OLVUC (FB)	269.75 / 10.77	2400	LPV: DA LNAV/VNAV: DA LNAV: RW36			
BEMEN	JEVSA (FB)	135.75 / 6.83	2400				
OLVUC (IAF)	UBAGE (NOPT) (FB)	272.47 / 5.00	2400	CLIMB TO 2400 DIRECT USAVY AND HOLD.			
JEVSA (IAF)	UBAGE (NOPT) (FB)	092.33 / 5.00	2400				
ARCOL (IAF)	UBAGE (NOPT) (FB)	003.77 / 11.66	2400	ADDITIONAL FLIGHT DATA: HOLD N, RT, 182.40 INBOUND. CHART FAS OBST: 849 TREE 400155N/0881649W DISTANCE TO THLD FROM 270 HAT: 0.72 NM. CHART VDP AT 0.97 MILES TO RW36* *LNAV ONLY. WAAS CHANNEL # 77919 REFERENCE PATH ID: W36A CHART CIRCLING ICON. CHART ASR LTP HAE: 196.4 M			
UBAGE (IF/IAF)	YOFIT (FB)	002.40 / 6.20	2400				
YOFIT (FAF)	NIMGE/1.50 NM TO RW36 (FB)	002.40 / 3.48					
(SEE FORM 8260-10)							

1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)	
2. HOLD S UBAGE, RT, 002.40 INBOUND, 2400 FT. IN LIEU OF PT (IAF)	
3. FAC: 002.40 FAF: YOFIT	DIST FAF TO MAP: 4.98 THLD: 4.98
4. MIN. ALT: UBAGE 2400, YOFIT 2400, NIMGE/1.50 NM TO RW36 1260*	
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____	
6. MIN GS INCPT: 2400 GS ALT AT: YOFIT 2400 OM: _____ MM: _____ IM: _____	
7. GS ANGLE: 3.00 TCH: 41.8 34:1 IS CLEAR	
8. MSA FROM: RW36 3100	

MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A		STANDARD @			
CATEGORY =====>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA	1022	1	270	1022	1	270	1022	1	270	1022	1	270			
LNAV/VNAV DA	1119	1 1/4	367	1119	1 1/4	367	1119	1 1/4	367	1119	1 1/4	367			
LNAV MDA	1100	1	348	1100	1	348	1100	1	348	1100	1 1/4	348			
CIRCLING	1160	1	405	1220	1	465	1500	2 1/4	745	1500	2 1/2	745			

NOTES:
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -22C (-5F) OR ABOVE 54C (130F).
 CHART NOTE: DME/DME RNP-0.3 NA.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT NEWMY ON V192 SOUTHEAST BOUND.
 (SEE FORM 8260-10)

@ CAT C 800-2 1/4, CAT D 800-2 1/2
 @ NA WHEN LOCAL WEATHER NOT AVAILABLE.

CITY AND STATE CHAMPAIGN/URBANA, IL	ELEVATION: 755 TDZE: 752	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 36, ORIG-A 5 MARCH 2015	SUP:
	AIRPORT NAME: UNIVERSITY OF ILLINOIS-WILLARD			AMDT: ORIG
	DATED 09/23/2010			

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
NIMGE/1.50 NM TO RW36	RW36 (MAP) (FO)	002.40 / 1.50	
RW36 (MAP)	1022 MSL	002.40	
1022 MSL	USAVY (FO)		2400

NOTES, (CONT.):

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ARCOL ON V429 SOUTHBOUND.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE RANTOUL ALTIMETER SETTING AND INCREASE ALL DA 41 FEET AND ALL MDA 60 FEET, INCREASE LNAV/VNAV VISIBILITY ALL CATS AND LNAV CAT C VISIBILITY 1/4 MILE.

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING RANTOUL ALTIMETER SETTING.

CITY AND STATE

CHAMPAIGN/URBANA, IL

ELEVATION: 755

TDZE: 752

AIRPORT NAME:

UNIVERSITY OF ILLINOIS-WILLARD

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 36, ORIG-A

5 MARCH 2015

SUP:

AMDT: ORIG

DATED: 09/23/2010

QUALITY
4

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION**DATA FIELD****DATA**

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KCMI
RUNWAY	RW36
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W36A
LTP/FTP LATITUDE	400157.0595N
LTP/FTP LONGITUDE	0881655.5610W
LTP/FTP ELLIPSOIDAL HEIGHT	+01964
FPAP LATITUDE	400326.2225N
FPAP LONGITUDE	0881656.7760W
THRESHOLD CROSSING HEIGHT (TCH)	00041.8
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1136
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER

E5DBEF87

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02284
FPAP ORTHOMETRIC HEIGHT	+02284



CITY AND STATE

CHAMPAIGN/URBANA, IL

ELEVATION: 755

TDZE: 752

AIRPORT NAME:

UNIVERSITY OF ILLINOIS-WILLARD

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 36, ORIG-A

5 MARCH 2015

SUP:

AMDT: ORIG

DATED: 09/23/2010

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KCMIK5FR36	AARCOL	010ARCOLK5EA0E	A	IF					18000		A JS	
SUSAP	KCMIK5FR36	AARCOL	020UBAGEK5EA0EE	B	010TF		00380117	+	02400			A JS	
SUSAP	KCMIK5FR36	ABEMEN	010BEMENK5EA0E		IF					18000		A JS	
SUSAP	KCMIK5FR36	ABEMEN	020JEVSAK5EA0E	A	020TF		13580068	+	02400			A JS	
SUSAP	KCMIK5FR36	ABEMEN	030UBAGEK5EA0EE	B	010TF		09230050	+	02400			A JS	
SUSAP	KCMIK5FR36	ANEWMY	010NEWMYK5EA0E		IF					18000		A JS	
SUSAP	KCMIK5FR36	ANEWMY	020OLVUCK5EA0E	A	020TF		26980108	+	02400			A JS	
SUSAP	KCMIK5FR36	ANEWMY	030UBAGEK5EA0EE	B	010TF		27250050	+	02400			A JS	
SUSAP	KCMIK5FR36	AUBAGE	010UBAGEK5EA0EE	AR	HF		00240040	+	02400	18000		A JS	
SUSAP	KCMIK5FR36	R	010UBAGEK5EA0E	I	IF			+	02400	18000		A JS	
SUSAP	KCMIK5FR36	R	020YOFITK5EA1E	F	051TF		00240062	+	02400		RW36	K5PGA	JS
SUSAP	KCMIK5FR36	R	020YOFITK5EA2WALPV			ALNAV/VNAV	ALNAV						JS
SUSAP	KCMIK5FR36	R	021NIMGEK5EA0E	S	031TF		00240035	V	0126001271		-300		A JS
SUSAP	KCMIK5FR36	R	030RW36	K5PG0GY	M	031TF	00240015		00791		-300		A JS
SUSAP	KCMIK5FR36	R	040		M	CA	0024	+	01022				A JS
SUSAP	KCMIK5FR36	R	050USAVYK5EA0EY		DF			+	02400				A JS
SUSAP	KCMIK5FR36	R	060USAVYK5EA0EE	R	HM		18240040	+	02400				A JS

[illegible]

CITY AND STATE CHAMPAIGN/URBANA, IL	ELEVATION: 755	TDZE: 752	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME:			RNAV (GPS) RWY 36, ORIG-A	AMDT: ORIG
	UNIVERSITY OF ILLINOIS-WILLARD		RNAV	5 MARCH 2015	DATED: 09/23/2010

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

	1	2	3	4	5	6	7	8	9	0	1	2	3
PP	12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												

	SUSAP KCMIK5PR36	RW36 001 0000W36A0N4001570595W08816555610+019640300N4003262225W08816567760106751136000418F400500E5DBEF87											
	SUSAP KCMIK5PR36	RW36 002E +02284+02284LPV 77919											

	1	2	3	4	5	6	7	8	9	0	1	2	3
MSA	12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												

	SUSAP KCMIK5SRW36 K5PG	0 18018003125	M										

CITY AND STATE
CHAMPAIGN/URBANA, IL

ELEVATION: **755** TDZE: **752**
 AIRPORT NAME:
UNIVERSITY OF ILLINOIS-WILLARD

FACILITY
 IDENTIFIER:
RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
RNAV (GPS) RWY 36, ORIG-A
5 MARCH 2015

SUP:
 AMDT: **ORIG**
 DATED: **09/23/2010**

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
 FLIGHT STANDARDS SERVICES - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	ARCOL	ARCOL	010	IAF	IF		FB					
	ARCOL	UBAGE	020		TF		FB	1.0	003.8 (000.8T)	011.7	AA 02400	
	BEMEN	BEMEN	010		IF		FB					
	BEMEN	JEVSA	020	IAF	TF		FB	2.0	135.8 (132.8T)	006.8	AA 02400	
	BEMEN	UBAGE	030		TF		FB	1.0	092.3 (089.3T)	005.0	AA 02400	
	NEWMY	NEWMY	010		IF		FB					
	NEWMY	OLVUC	020	IAF	TF		FB	2.0	269.8 (266.8T)	010.8	AA 02400	
	NEWMY	UBAGE	030		TF		FB	1.0	272.5 (269.5T)	005.0	AA 02400	
	UBAGE	UBAGE	010	IAF	HF	R	FO		002.4 (359.4T)	004.0	AA 02400	
		UBAGE	010	FACF	IF		FB				AA 02400	
		YOFIT	020	FAF	TF		FB	0.5	002.4 (359.4T)	006.2	AA 02400	
		NIMGE	021	SDF	TF		FB	0.3	002.4 (359.4T)	003.5	AA 01260	GS 01271
		RW36	030	MAP	TF		FO	0.3	002.4 (359.4T)	001.5	AT 00791	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		002.4 (359.4T)		AA 01022	
	USAVY	050		DF		FO				AA 02400	
	USAVY	060		HM	R	FO		182.4 (179.4T)	004.0	AA 02400	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	ARCOL	N393905.83	W0881658.71	N3939.097	W08816.979
	BEMEN	N395520.92	W0882946.47	N3955.349	W08829.775
	JEVSA	N395042.44	W0882315.92	N3950.707	W08823.265
	NEWMY	N395126.22	W0875619.21	N3951.437	W08756.320
	NIMGE	N400027.00	W0881654.33	N4000.450	W08816.906
	OLVUC	N395048.73	W0881016.95	N3950.812	W08810.283
	UBAGE	N395045.77	W0881646.44	N3950.763	W08816.774
	USAVY	N401359.51	W0881705.43	N4013.992	W08817.091
	YOFIT	N395657.87	W0881651.49	N3956.965	W08816.858
	RW36	N400157.06	W0881655.56	N4001.951	W08816.926

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW36	00749	42



CITY AND STATE CHAMPAIGN/URBANA, IL	ELEVATION: 755	TDZE: 752	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 36, ORIG-A 5 MARCH 2015	SUP:
	AIRPORT NAME: UNIVERSITY OF ILLINOIS-WILLARD				AMDT: ORIG
					DATED: 09/23/2010

U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)

Bearings, headings, courses, tracks and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated.
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

City, State	Airport	Effective Date	Amdt. No.
CHAMPAIGN/URBANA, IL	UNIVERSITY OF ILLINOIS-WILLARD	5 MARCH 2015	ORIG-A

TAKEOFF MINIMUMS:

RWY 4, 14L, 14R, 18, 22, 32L, 32R, 36, STANDARD.

TEXTUAL DEPARTURE PROCEDURES:

RWY 4-CLIMB HEADING 044.06 TO 1300 BEFORE TURNING LEFT.

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 4, TREES BEGINNING 928 FT FROM DER, 166 FT RIGHT OF CENTERLINE, UP TO 63 FT AGL/804 FT MSL. TREES BEGINNING 1728 FT FROM DER, 115 FT LEFT OF CENTERLINE, UP TO 63 FT AGL/808 FT MSL. TREES BEGINNING 2352 FT FROM DER, 121 FT RIGHT OF CENTERLINE, UP TO 63 FT AGL/843 FT MSL.

NOTE: RWY 14R, POLE AND ROD ON OL 527 FT FROM DER, 388 FT LEFT OF CENTERLINE, 17 FT AGL/759 FT MSL. TOWER AND ROD ON OL 543 FT FROM DER, 437 FT LEFT OF CENTERLINE, 37 FT AGL/780 FT MSL.

NOTE: RWY 18, TREES 2850 FT FROM DER, 338 FT RIGHT OF CENTERLINE, UP TO 63 FT AGL/823 FT MSL.

NOTE: RWY 32L, TERRAIN 19 FT FROM DER, 152 FT RIGHT OF CENTERLINE, UP TO 751 FT MSL. ASR AND TOWER 1914 FT FROM DER, 346 FT LEFT OF CENTERLINE, 79 FT AGL/832 FT MSL.

NOTE: RWY 32R, POLE AND ROD ON OL 844 FT FROM DER, 713 FT LEFT OF CENTERLINE, UP TO 33 FT AGL/783 FT MSL.

CONTROLLING OBSTACLES:

OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: RWY 4: 1146 FT MSL TWR 400504.00N/0881453.00W.



U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)

Bearings, headings, courses, tracks and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated.
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

City, State	Airport	Effective Date	Amdt. No.
CHAMPAIGN/URBANA, IL	UNIVERSITY OF ILLINOIS-WILLARD	5 MARCH 2015	ORIG-A

REMARKS:

FLIGHT INSPECTED BY:

Glen Freeman 

9/25/14

REQUIRED EFFECTIVE DATE:

ROUTINE

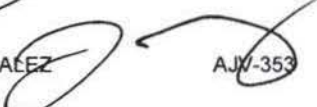
DEVELOPED BY:

JILL OLSON
(THERON CYRUS) 

AJV-353

03/17/2014

APPROVED BY:

GEORGE GONZALEZ 

AJV-353

JAN 26 2015

COORDINATED WITH:

ALPA, AOPA, ATA, APA, NBAA, ZAU, CMI APP CON, AMGR

CHANGES:

1. CHANGED RWY 4 DEPARTURE HEADING FROM 041.06 TO 044.06.
2. UPDATED TAKEOFF OBSTACLES NOTES.

REASONS:

1. MAGVAR UPDATE.
2. NEW OBSTACLE EVALUATION.



RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33							Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.												
TERMINAL ROUTES										MISSED APPROACH									
FROM		TO			COURSE AND DISTANCE			ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW03 CLIMB TO 2800 DIRECT IFECA AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NE, RT, 204.92 INBOUND. CHART FAS OBST: 1097 TOWER 401302N/0852424W CHART 1384 TOWER 400920N/0852550W. CHART 1141 STACK 401156N/0852449W. DISTANCE TO THLD FROM 253 HAT: 0.67 NM. CHART VDP AT 1.20 MILES TO RW03* *LNAV ONLY. WAAS CHANNEL # 78237 REFERENCE PATH ID: W03A CHART CIRCLING ICON LTP HAE: 251.8 M									
APPAL (IF/IAF)		CESUD (FB)			024.78 / 7.50			2600											
CESUD (FAF)		HABIP/2.10 NM TO RW03 (FB)			024.83 / 3.00														
HABIP/2.10 NM TO RW03		RW03 (MAP) (FO)			024.83 / 2.10														
RW03 (MAP)		1190 MSL			024.83			2800											
1190 MSL		IFECA (FO)																	
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. HOLD SW APPAL, RT, 024.78 INBOUND, 2800 FT. IN LIEU OF PT (IAF) 3. FAC: 024.82 FAF: CESUD DIST FAF TO MAP: <u>5.10</u> THLD: <u>5.10</u> 4. MIN. ALT: APPAL 2800, CESUD 2600, HABIP/2.10 NM TO RW03 1640* 5. DIST TO THLD FROM OM: <u> </u> MM: <u> </u> IM: <u> </u> 150 HAT: <u> </u> 100 HAT: <u> </u> GS ANT: <u> </u> 6. MIN GS INCPT: <u>2600</u> GS ALT AT: CESUD 2600 OM: <u> </u> MM: <u> </u> IM: <u> </u> 7. GS ANGLE: <u>3.00</u> TCH: <u>38.7</u> 34:1 IS NOT CLEAR 8. MSA FROM: RW03 2900																MAG VAR: 3W		EPOCH YEAR: 1985	
MINIMUMS																			
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		STANDARD @										
CATEGORY >>>>>	A			B			C			D			E						
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA				
LPV DA	1190	7/8	253	1190	7/8	253	1190	7/8	253	1190	7/8	253							
LNAV/VNAV DA	1412	1 5/8	475	1412	1 5/8	475	1412	1 5/8	475	1412	1 5/8	475							
LNAV MDA	1360	1	423	1360	1	423	1360	1 1/4	423	1360	1 1/4	423							
CIRCLING	1460	1	523	1460	1	523	1500	1 1/2	563	1600	2	663							
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20C (-4F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE FORT WAYNE INTL ALTIMETER SETTING AND (SEE FORM 8260-10)																			
CITY AND STATE		ELEVATION: 937 TDZE: 937			FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:					SUP:							
MUNCIE, IN		AIRPORT NAME:			DELAWARE COUNTY RGNL		RNAV (GPS) RWY 3, ORIG					AMDT: NONE							
							5 MARCH 2015					DATED							



**RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):

INCREASE ALL DA 121 FEET AND ALL MDA 140 FEET; INCREASE LPV ALL CATS AND LNAV CATS C/D VISIBILITY 3/8 MILE, LNAV/VNAV ALL CATS VISIBILITY 7/8 MILE AND CIRCLING CATS C/D VISIBILITY 1/2 MILE.

CHART NOTE: BARO-VNAV NA WHEN USING FORT WAYNE INTL ALTIMETER SETTING.

CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

CHART PLANVIEW NOTE: RADAR REQUIRED.



CITY AND STATE

MUNCIE, IN

ELEVATION: 937

TDZE: 937

AIRPORT NAME:

DELAWARE COUNTY RGNL

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 3, ORIG

5 MARCH 2015

SUP:

AMDT: NONE

DATED:

RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KMIE
RUNWAY	RW03
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W03A
LTP/FTP LATITUDE	401409.8685N
LTP/FTP LONGITUDE	0852347.7690W
LTP/FTP ELLIPSOIDAL HEIGHT	+02518
FPAP LATITUDE	401532.6250N
FPAP LONGITUDE	0852304.4540W
THRESHOLD CROSSING HEIGHT (TCH)	00038.7
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1168
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 70974EE8

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02857
FPAP ORTHOMETRIC HEIGHT	+02857

QUALITY
6
CHECKED

CITY AND STATE MUNCIE, IN	ELEVATION: 937 AIRPORT NAME: DELAWARE COUNTY RGNL	TDZE: 937	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 3, ORIG 5 MARCH 2015	SUP:
					AMDT: NONE
					DATED:

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KMIEK5FR03	AAPPAL	010APPALK5EA0EE	AR	HF		02480040	+	02800	18000		A	JS
SUSAP	KMIEK5FR03	R	010APPALK5EA0E	I	IF			+	02800	18000		A	JS
SUSAP	KMIEK5FR03	R	020CESUDK5EA1E	F	051TF		02480075	+	02600		RW03	K5PGA	JS
SUSAP	KMIEK5FR03	R	020CESUDK5EA2WALPV			ALNAV/VNAV							JS
SUSAP	KMIEK5FR03	R	021HABIPK5EA0E	S	031TF		02480030	V	0164001645		-300	A	JS
SUSAP	KMIEK5FR03	R	030RW03	K5PGOGY	M	031TF	02480021		00976		-300	A	JS
SUSAP	KMIEK5FR03	R	040		O	M	0248	+	01190			A	JS
SUSAP	KMIEK5FR03	R	050IFECAK5EA0EY		DF			+	02800			A	JS
SUSAP	KMIEK5FR03	R	060IFECAK5EA0EE	R	HM		20490040	+	02800			A	JS

[illegible][illegible][illegible]

QUALITY
15
CHECKED

CITY AND STATE MUNCIE, IN	ELEVATION: 937 TDZE: 937 AIRPORT NAME: DELAWARE COUNTY RGNL	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
		RNAV	RNAV (GPS) RWY 3, ORIG 5 MARCH 2015	AMDT: NONE
				DATED:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33												
ARINC SUMMARY - 424-18 - RNAV (GPS)												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	APPAL	APPAL	010	IAF	HF	R	FO		024.8 (021.8T)	004.0	AA 02800	
		APPAL	010	FACF	IF		FB				AA 02800	
		CESUD	020	FAF	TF		FB	0.5	024.8 (021.8T)	007.5	AA 02600	
		HABIP	021	SDF	TF		FB	0.3	024.8 (021.8T)	003.0	AA 01640	GS 01645
		RW03	030	MAP	TF		FO	0.3	024.8 (021.8T)	002.1	AT 00976	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		024.8 (021.8T)		AA 01190	
		IFECA	050		DF		FO				AA 02800	
		IFECA	060		HM	R	FO		204.9 (201.9T)	004.0	AA 02800	
POINT DATA		WAYPOINT			LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS	
		APPAL			N400227.52		W0852954.10		N4002.459		W08529.902	
		CESUD			N400925.66		W0852616.36		N4009.428		W08526.273	
		HABIP			N401212.83		W0852448.97		N4012.214		W08524.816	
		IFECA			N402613.14		W0851728.01		N4026.219		W08517.467	
		RW03			N401409.87		W0852347.77		N4014.165		W08523.796	
RUNWAY DATA		RWY		THRESHOLD ELEVATION			TCH					
		RW03		00937			39					



CITY AND STATE MUNCIE, IN	ELEVATION: 937	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: DELAWARE COUNTY RGNL		RNAV (GPS) RWY 3, ORIG	AMDT: NONE
			5 MARCH 2015	DATED:

**RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):

INCREASE ALL DA 121 FEET AND ALL MDA 140 FEET; INCREASE LPV ALL CATS AND LNAV CATS C/D VISIBILITY

3/8 MILE AND LNAV/VNAV ALL CATS AND CIRCLING CATS C/D VISIBILITY 1/2 MILE.

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING FORT WAYNE INTL ALTIMETER SETTING.

CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON MIE VOR/DME AIRWAY RADIALS 323 CW 109.

CHART PLANVIEW NOTE: RADAR REQUIRED FOR PROCEDURE ENTRY AT NOMPE OR UHZAW.

**CITY AND STATE**

MUNCIE, IN

ELEVATION: 937**TDZE:** 935**AIRPORT NAME:**

DELAWARE COUNTY RGNL

**FACILITY
IDENTIFIER:**

RNAV

PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 21, AMDT 1

5 MARCH 2015

SUP:**AMDT:** ORIG**DATED:** 04/08/2010

RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KMIE
RUNWAY	RW21
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W21A
LTP/FTP LATITUDE	401457.5365N
LTP/FTP LONGITUDE	0852322.8160W
LTP/FTP ELLIPSOIDAL HEIGHT	+02510
FPAP LATITUDE	401334.7810N
FPAP LONGITUDE	0852406.1295W
THRESHOLD CROSSING HEIGHT (TCH)	00045.4
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1168
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 8F52320A

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02849
FPAP ORTHOMETRIC HEIGHT	+02849

QUALITY
6
CHECKED

CITY AND STATE MUNCIE, IN	ELEVATION: 937 AIRPORT NAME: DELAWARE COUNTY RGNL	TDZE: 935	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 21, AMDT 1 5 MARCH 2015	SUP:
					AMDT: ORIG
					DATED: 04/08/2010

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible][illegible][illegible][illegible][illegible]

QUALITY
15
CHECKED

FAA FORM 8260 - 10 / April 2006 (Computer Generated)

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible]

QUALITY
15
CHECKED

CITY AND STATE MUNCIE, IN	ELEVATION: 937 AIRPORT NAME: TDZE: 935 DELAWARE COUNTY RGNL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 21, AMDT 1 5 MARCH 2015	SUP:
				AMDT: ORIG
				DATED: 04/08/2010

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33												
ARINC SUMMARY - 424-18 - RNAV (GPS)												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	MIE	MIE	010		IF		FB					
	MIE	IFECA	020		TF		FO	2.0	024.5 (021.5T)	012.9	AA 02800	
	MIE	IFECA	030	IAF	HF	R	FO		204.9 (201.9T)	004.0	AA 02800	
	NOMPE	NOMPE	010	IAF	IF		FB					
	NOMPE	IFECA	020		TF		FB	1.0	114.8 (111.8T)	007.5	AA 02800	
	UHZAW	UHZAW	010	IAF	IF		FB					
	UHZAW	IFECA	020		TF		FB	1.0	295.0 (292.0T)	007.5	AA 02800	
		IFECA	010	FACF	IF		FB				AA 02800	
		CIKEP	020	FAF	TF		FB	0.5	204.9 (201.9T)	007.0	AA 02600	
		RW21	030	MAP	TF		FO	0.3	204.9 (201.9T)	005.1	AT 00980	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		204.9 (201.9T)		AA 01195	
		APPAL	050		DF		FO				AA 02800	
		APPAL	060		HM	R	FO		024.8 (021.8T)	004.0	AA 02800	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		MIE	N401414.25		W0852338.53		N4014.238		W08523.642			
		APPAL	N400227.52		W0852954.10		N4002.459		W08529.902			
		CIKEP	N401940.97		W0852054.23		N4019.683		W08520.904			
		IFECA	N402613.14		W0851728.01		N4026.219		W08517.467			
		NOMPE	N402900.92		W0852635.12		N4029.015		W08526.585			
		UHZAW	N402324.65		W0850821.67		N4023.411		W08508.361			
		RW21	N401457.54		W0852322.82		N4014.959		W08523.380			
RUNWAY DATA		RWY	THRESHOLD ELEVATION		TCH							
		RW21	00935		45							
CITY AND STATE		ELEVATION: 937		TDZE: 935		FACILITY IDENTIFIER:		PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:		SUP:		
MUNCIE, IN		AIRPORT NAME: DELAWARE COUNTY RGNL		RNAV		RNAV		RNAV (GPS) RWY 21, AMDT 1 5 MARCH 2015		AMDT: ORIG		
										DATED: 04/08/2010		



US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29		Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.											
TERMINAL ROUTES				MISSED APPROACH											
FROM	TO	COURSE AND DISTANCE	ALTITUDE	ILS: DA LOC: 4.69 MILES AFTER YINNO LOM/TTH 9.19 DME											
TTH VORTAC	YINNO LOM/TTH 9.19 DME	226.79 / 9.19	2300												
WORKE INT/BIB 35.16 DME (IAF)	CSUCH/TTH 20.00 DME (NOPT)	049.82 / 13.06 (TTH R-226)	2200	CLIMB TO 2300 DIRECT TTH VORTAC AND HOLD.											
CSUCH/TTH 20.00 DME (IF)	YINNO LOM/TTH 9.19 DME	049.20 / 10.81 (I-HUF)	2200	ADDITIONAL FLIGHT DATA: HOLD NE, RT, 229.00 INBOUND. CHART FAS OBST: 687 TREE 382536N/0872026W CHART CIRCLING ICON											
1. PT <u>R</u> SIDE OF COURSE <u>229.20</u> OUTBOUND <u>2300</u> FT WITHIN <u>10</u> MILES OF <u>YINNO LOM</u> (IAF)															
2.															
3. FAC: <u>049.20</u> FAF: <u>YINNO LOM/TTH 9.19 DME</u> DIST FAF TO MAP: <u>4.66</u> THLD: <u>4.66</u>															
4. MIN. ALT: <u>YINNO LOM/TTH 9.19 DME 2200</u>															
5. DIST TO THLD FROM OM: <u>4.66</u> MM: <u>-</u> IM: <u>-</u> 150 HAT: <u>-</u> 100 HAT: <u>-</u> GS ANT: <u>749</u>															
6. MIN GS INCPT: <u>2200</u> GS ALT AT: <u>-</u> OM: <u>2125</u> MM: <u>-</u> IM: <u>-</u>															
7. GS ANGLE: <u>3.00</u> TCH: <u>39.4</u>															
8. MSA FROM: <u>HU LOM 2600</u>				MAG VAR: <u>2W</u> EPOCH YEAR: <u>2000</u>											
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT			ALTERNATE: <u>N A</u>		ILS: <u>STANDARD #</u> LOC: <u>STANDARD @</u>										
CATEGORY =====>	A		B		C	D	E								
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
S-ILS 05**	778	2400	200	778	2400	200	778	2400	200	778	2400	200			
S-LOC 05	940	2400	362	940	2400	362	940	3500	362	940	3500	362			
CIRCLING	1020	1	431	1040	1	451	1220	1 3/4	631	1260	2 1/4	671			
NOTES: CHART NOTE: **RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE PARIS ALTIMETER SETTING AND INCREASE ALL DA61 FEET AND ALL MDA 80 FEET, INCREASE S-LOC 5 CATS C/D VISIBILITY TO RVR 4000 AND CIRCLING CAT C/D VISIBILITY 1/4 MILE. (SEE FORM 8260-10)						# CAT C 700-2, CAT D 700-2 1/4 @ CAT D 800-2 1/4 @ NA WHEN LOCAL WEATHER NOT AVAILABLE.									
CITY AND STATE TERRE HAUTE, IN		ELEVATION: 589 TDZE: 578 AIRPORT NAME: TERRE HAUTE INTL-HULMAN FIELD		FACILITY IDENTIFIER: I-HUF		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 5, AMDT 23 5 MARCH 2015				SUP: AMDT: 22G DATED 03/07/2013					

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION ILS - STANDARD INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29			Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.	
NOTES, (CONT.): CHART NOTE: FOR INOPERATIVE MALSR, WHEN USING PARIS ALTIMETER SETTING INCREASE S-ILS 5 ALL CATS VISIBILITY TO RVR 5000 AND S-LOC RWY 5 CATS C/D VISIBILITY TO 1 3/8.				
CITY AND STATE TERRE HAUTE, IN	ELEVATION: 589 AIRPORT NAME: TERRE HAUTE INTL-HULMAN FIELD	TDZE: 578	FACILITY IDENTIFIER: I-HUF	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 5, AMDT 23 5 MARCH 2015
				SUP:
				AMDT: 22G
				DATED: 03/07/2013

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible][illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP KHUFK5FI05	ATTH	010TTH	K5D 0V	IF						18000		0	NS
SUSAP KHUFK5FI05	ATTH	020YINNOK5PC0E	TF					+ 02300				0	NS
SUSAP KHUFK5FI05	ATTH	030YINNOK5PC0EE AL	PI TTH K5		2264009227420100D			+ 02300				0	NS
SUSAP KHUFK5FI05	AWORKE	010WORKEK5EA0E A	FC TTH K5		2258033104980111D			+ 02200	18000			0	NS
SUSAP KHUFK5FI05	AWORKE	020CSUCHK5PC0EE B	CF IHUFK5		2292017204980020PI			+ 02200				0	NS
SUSAP KHUFK5FI05	I	010CSUCHK5PC0E I	IF IHUFK5		22920172	PI	J	022000220018000				0	NS
SUSAP KHUFK5FI05	I	020YINNOK5PC0E F	CF IHUFK5		2290006404900108PI		H	0220002125		-300HU	K5PNO	NS	
SUSAP KHUFK5FI05	I	030RW05 K5PG0GY M	CF IHUFK5		2292001704900047PI			00612		-300		0	NS
SUSAP KHUFK5FI05	I	040TTH K5D 0VYM	DF					+ 02300				0	NS
SUSAP KHUFK5FI05	I	050TTH K5D 0VE R	HM		2290T010			+ 02300				0	NS

[illegible][illegible]

SUP:	
AMDT:	22G
DATED:	03/07/2013

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible]

SUP:	CHECKED
AMDT:	22G
DATED:	03/07/2013

Page 4 of 8 Pages

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - 424-18 - ILS

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	TTH	TTH	010		IF		FB					
	TTH	YINNO	020		TF		FB				AA 02300	
	TTH	YINNO	030	IAF	PI	L	FB		274.2 ()	010.0	AA 02300	
	WORKE	WORKE	010	IAF	PC		FB		049.8 ()	011.1	AA 02200	
	WORKE	CSUCH	020		CF		FB		049.8 ()	002.0	AA 02200	
		CSUCH	010	FACF	IF		FB				AA 02200 GI 02200	
		YINNO	020	PAF	CF		FB		049.0 ()	010.8	GI 02200 GS 02125	
		RW05	030	MAP	CF		FO		049.0 ()	004.7	AT 00612	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	TTH	040		DF		FO				AA 02300	
	TTH	050		HM	R	FO		229.0 ()	T01.0	AA 02300	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	TTH	N392920.19	W0871456.45	N3929.337	W08714.941
	WORKE	N390702.95	W0874625.21	N3907.049	W08746.420
	CSUCH	N391551.91	W0873401.10	N3915.865	W08734.018
	YINNO	N392314.45	W0872346.66	N3923.241	W08723.778
	RW05	N392625.88	W0871923.37	N3926.431	W08719.390
	IHUF (LOC)	N392735.57	W0871746.25	N3927.593	W08717.771
	HU	N392316.15	W0872351.80	N3923.269	W08723.863

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW05	00572	39

CITY AND STATE
TERRE HAUTE, IN

ELEVATION: 589 TDZE: 578
AIRPORT NAME:
TERRE HAUTE INTL-HULMAN FIELD

FACILITY
IDENTIFIER:
I-HUF

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
ILS OR LOC RWY 5, AMDT 23
5 MARCH 2015

QUALITY
12
CHECKED
SUP:
AMDT: 22G
DATED: 03/07/2013

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC PACKET - 424-18 - LOC

[illegible][illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP KHUFK5FL05	ATTH	010TTH	K5D OV	IF						18000		0 NS	
SUSAP KHUFK5FL05	ATTH	020YINNOK5PCOE	TF					+ 02300				0 NS	
SUSAP KHUFK5FL05	ATTH	030YINNOK5PCOEE AL	PI TTH K5		2264009227420100D			+ 02300				0 NS	
SUSAP KHUFK5FL05	AWORKE	010WORKEK5EAOE A	FC TTH K5		2258033104980111D			+ 02200		18000		0 NS	
SUSAP KHUFK5FL05	AWORKE	020CSUCHK5PCOEE B	CF IHUFK5		2292017204980020PI			+ 02200				0 NS	
SUSAP KHUFK5FL05	L	010CSUCHK5PCOE I	IF IHUFK5		22920172		PI	+ 02200		18000		0 NS	
SUSAP KHUFK5FL05	L	020YINNOK5PCOE F	CF IHUFK5		2290006404900108PI			+ 02200			HU	K5PN0 NS	
SUSAP KHUFK5FL05	L	030RW05 K5PGOGY M	CF IHUFK5		2292001704900047PI			00612		-321		0 NS	
SUSAP KHUFK5FL05	L	040TTH K5D OVYM	DF					+ 02300				0 NS	
SUSAP KHUFK5FL05	L	050TTH K5D OVE R	HM		2290T010			+ 02300				0 NS	

[illegible][illegible]

QUALITY
12

CITY AND STATE
TERRE HAUTE, IN

ELEVATION: 589	TDZE: 578
AIRPORT NAME: TERRE HAUTE INTL-HULMAN FIELD	

FACILITY
IDENTIFIER:

I-HUF

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
ILS OR LOC RWY 5, AMDT 23
5 MARCH 2015

SUP:	CHECKED
AMDT:	22G
DATED:	03/07/2013

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible]

QUALITY
12

CITY AND STATE TERRE HAUTE, IN	ELEVATION: 589	TDZE: 578	FACILITY IDENTIFIER: I-HUF	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: ILS OR LOC RWY 5, AMDT 23 5 MARCH 2015	SUP: CHECKED
	AIRPORT NAME: TERRE HAUTE INTL-HULMAN FIELD				AMDT: 22G
					DATED: 03/07/2013

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - 424-18 - LOC

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	TTH	TTH	010		IF		FB					
	TTH	YINNO	020		TF		FB				AA 02300	
	TTH	YINNO	030	IAF	PI	L	FB		274.2 ()	010.0	AA 02300	
	WORKE	WORKE	010	IAF	FC		FB		049.8 ()	011.1	AA 02200	
	WORKE	CSUCH	020		CF		FB		049.8 ()	002.0	AA 02200	
		CSUCH	010	FACF	IF		FB				AA 02200	
		YINNO	020	FAF	CF		FB		049.0 ()	010.8	AA 02200	
		RW05	030	MAP	CF		FO		049.0 ()	004.7	AT 00612	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	TTH	040		DF		FO				AA 02300	
	TTH	050		HM	R	FO		229.0 ()	T01.0	AA 02300	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	TTH	N392920.19	W0871456.45	N3929.337	W08714.941
	WORKE	N390702.95	W0874625.21	N3907.049	W08746.420
	CSUCH	N391551.91	W0873401.10	N3915.865	W08734.018
	YINNO	N392314.45	W0872346.66	N3923.241	W08723.778
	RW05	N392625.88	W0871923.37	N3926.431	W08719.390
	IHUF (LOC)	N392735.57	W0871746.25	N3927.593	W08717.771
	HU	N392316.15	W0872351.80	N3923.269	W08723.863

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW05	00572	39

 QUALITY
12

 CITY AND STATE
TERRE HAUTE, IN

 ELEVATION: 589 TDZE: 578
AIRPORT NAME:
TERRE HAUTE INTL-HULMAN FIELD

 FACILITY
IDENTIFIER:
I-HUF

 PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
ILS OR LOC RWY 5, AMDT 23
5 MARCH 2015

 SUP: **CHECKED**
AMDT: 22G
DATED: 03/07/2013

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.								
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO			COURSE AND DISTANCE			ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW08						
RID VORTAC		UTEYU (FB)			312.29 / 18.36			3000		CLIMB TO 3000 DIRECT MOSEW AND HOLD.						
SHB VORTAC (IAF)		OYCEG (NOPT) (FB)			049.09 / 40.74			3000								
MIE VOR/DME (IAF)		OYCEG (NOPT) (FB)			134.70 / 11.10			3000								
UTEYU (IAF)		OYCEG (NOPT) (FB)			352.13 / 11.00			3000								
OYCEG (IF/IAF)		WUBEK (FB)			082.09 / 7.67			2800								
WUBEK (FAF)		HURIB/2.10 NM TO RW08 (FB)			082.20 / 3.05											
(SEE FORM 8260-10)										ADDITIONAL FLIGHT DATA: HOLD E, RT, 262.45 INBOUND. CHART FAS OBST: 1219 TREE 400927N/0845740W DISTANCE TO THLD FROM 309 HAT: 0.83 NM. WAAS CHANNEL # 90420 REFERENCE PATH ID: W08A CHART VERSAILLES AWOS-3 LTP HAE: 306.6 M						
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)										MAG VAR: 5W EPOCH YEAR: 2010						
2. HOLD W OYCEG, RT, 082.09 INBOUND, 3000 FT. IN LIEU OF PT (IAF)																
3. FAC: 082.20 FAF: WUBEK DIST FAF TO MAP: 5.15 THLD: 5.15																
4. MIN. ALT: OYCEG 3000, WUBEK 2800, HURIB/2.10 NM TO RW08 1820*																
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____																
6. MIN GS INCPT: 2800 GS ALT AT: WUBEK 2800 OM: _____ MM: _____ IM: _____																
7. GS ANGLE: 3.00 TCH: 45.0 34:1 IS NOT CLEAR																
8. MSA FROM: RW08 2900																
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		X							
CATEGORY =====>		A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
LPV DA	1430	1	309	1430	1	309	1430	1	309		NA					
LNAV/VNAV DA	1430	1	309	1430	1	309	1430	1	309		NA					
LNAV MDA	1560	1	439	1560	1	439	1560	1 1/4	439		NA					
CIRCLING	1620	1	497	1620	1	497	1820	2	697		NA					
NOTES: CHART NOTE: BARO-VNAV NA. CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON RID VORTAC AIRWAY RADIALS 228 CW 031. (SEE FORM 8260-10)																
CITY AND STATE WINCHESTER, IN		ELEVATION: 1123 TDZE: 1121 AIRPORT NAME: RANDOLPH COUNTY			FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 8, AMDT 1 5 MARCH 2015					SUP: AMDT: ORIG-A DATED 06/26/2014				

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION			Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.																	
RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33																				
TERMINAL ROUTES, (CONT.):																				
<table><tr><td>FROM</td><td>TO</td><td>COURSE AND DISTANCE</td><td>ALTITUDE</td></tr><tr><td>HURIB/2.10 NM TO RW08</td><td>RW08 (MAP) (FO)</td><td>082.20 / 2.10</td><td></td></tr><tr><td>RW08 (MAP)</td><td>1430 MSL</td><td>082.20</td><td></td></tr><tr><td>1430 MSL</td><td>MOSEW (FO)</td><td></td><td>3000</td></tr></table>					FROM	TO	COURSE AND DISTANCE	ALTITUDE	HURIB/2.10 NM TO RW08	RW08 (MAP) (FO)	082.20 / 2.10		RW08 (MAP)	1430 MSL	082.20		1430 MSL	MOSEW (FO)		3000
FROM	TO	COURSE AND DISTANCE	ALTITUDE																	
HURIB/2.10 NM TO RW08	RW08 (MAP) (FO)	082.20 / 2.10																		
RW08 (MAP)	1430 MSL	082.20																		
1430 MSL	MOSEW (FO)		3000																	
NOTES, (CONT.): CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON MIE VOR/DME AIRWAY RADIALS 063 CW 212. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON SHB VORTAC AIRWAY RADIALS 028 CW 124. CHART NOTE: USE VERSAILLES ALTIMETER SETTING, WHEN NOT RECEIVED, USE MUNCIE ALTIMETER SETTING AND INCREASE ALL DA/MDA 20 FT AND INCREASE LPV VISIBILITY ALL CATS AND LNAV/VNAV ALL CATS 1/8 MILE. CHART NOTE: NIGHT LANDING: CAT C, RWY 8 NA. *LNAV ONLY																				
QUALITY 5 CHECKED																				
CITY AND STATE WINCHESTER, IN	ELEVATION: 1123 AIRPORT NAME: RANDOLPH COUNTY	TDZE: 1121	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 8, AMDT 1 5 MARCH 2015																
				SUP: AMDT: ORIG-A DATED: 06/26/2014																

RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	I22
RUNWAY	RW08
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W08A
LTP/FTP LATITUDE	400959.0040N
LTP/FTP LONGITUDE	0845612.7655W
LTP/FTP ELLIPSOIDAL HEIGHT	+03066
FPAP LATITUDE	401018.6365N
FPAP LONGITUDE	0845419.3885W
THRESHOLD CROSSING HEIGHT (TCH)	00045.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1440
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

<u>CRC REMAINDER</u>	4E82666C

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+03401
FPAP ORTHOMETRIC HEIGHT	+03401

QUALITY
5
CHECKED

CITY AND STATE WINCHESTER, IN	ELEVATION: 1123 TDZE: 1121 AIRPORT NAME: RANDOLPH COUNTY	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 8, AMDT 1 5 MARCH 2015	SUP:
				AMDT: ORIG-A
				DATED: 06/26/2014

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION <u>RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE</u> FLIGHT STANDARDS SERVICES - FAR PART 97.33	Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION <u>RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE</u> FLIGHT STANDARDS SERVICES - FAR PART 97.33	Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC PACKET - 424-18 - RNAV (GPS)

[illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP I22 K5FR08	AMIE	010MIE	K5D 0V	A	IF					18000		A JS	
SUSAP I22 K5FR08	AMIE	020OYCEGK5EA0EE	B	010TF		13470111	+	03000			A JS		
SUSAP I22 K5FR08	AOYCEG	010OYCEGK5EA0EE	AR	HF		08210040	+	03000	18000		A JS		
SUSAP I22 K5FR08	ARID	010RID	K5D 0V	IF					18000		A JS		
SUSAP I22 K5FR08	ARID	020UTEYUK5EA0E	A	020TF		31230184	+	03000			A JS		
SUSAP I22 K5FR08	ARID	030OYCEGK5EA0EE	B	010TF		35210110	+	03000			A JS		
SUSAP I22 K5FR08	ASHB	010SHB	K5D 0V	A	IF				18000		A JS		
SUSAP I22 K5FR08	ASHB	020OYCEGK5EA0EE	B	010TF		04910407	+	03000			A JS		
SUSAP I22 K5FR08	R	010OYCEGK5EA0E	I	IF			+	03000	18000		A JS		
SUSAP I22 K5FR08	R	020WUBEKK5EA1E	F	051TF		08210077	+	02800		RW08	K5PGA JS		
SUSAP I22 K5FR08	R	020WUBEKK5EA2WALPV			ALNAV/VNAV	ALNAV					JS		
SUSAP I22 K5FR08	R	021HURIBK5EA0E	S	031TF		08220031	V	0182001830		-300	A JS		
SUSAP I22 K5FR08	R	030RW08	K5PG0GY	M	031TF	08220021		01161		-300	A JS		
SUSAP I22 K5FR08	R	040	0	M	CA	0822	+	01430			A JS		
SUSAP I22 K5FR08	R	050MOSEWK5EA0EY		DF			+	03000			A JS		
SUSAP I22 K5FR08	R	060MOSEWK5EA0EE	R	HM		26250040	+	03000			A JS		

[illegible]

CITY AND STATE WINCHESTER, IN	ELEVATION: 1123	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 8, AMDT 1 5 MARCH 2015	SUP:
	AIRPORT NAME: RANDOLPH COUNTY			AMDT: ORIG-A
				DATED: 06/26/2014

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible]

QUALITY
5
CHECKED

CITY AND STATE WINCHESTER, IN	ELEVATION: 1123 AIRPORT NAME: RANDOLPH COUNTY	TDZE: 1121 RNAV	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
				RNAV (GPS) RWY 8, AMDT 1	AMDT: ORIG-A
				5 MARCH 2015	DATED: 06/26/2014

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - FAR PART 97.33												
ARINC SUMMARY - 424-18 - RNAV (GPS)												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	MIE	MIE	010	IAF	IF		FB					
	MIE	OYCEG	020		TF		FB	1.0	134.7 (129.7T)	011.1	AA 03000	
	OYCEG	OYCEG	010	IAF	HF	R	FO		082.1 (077.1T)	004.0	AA 03000	
	RID	RID	010		IF		FB					
	RID	UTEYU	020	IAF	TF		FB	2.0	312.3 (307.3T)	018.4	AA 03000	
	RID	OYCEG	030		TF		FB	1.0	352.1 (347.1T)	011.0	AA 03000	
	SHB	SHB	010	IAF	IF		FB					
	SHB	OYCEG	020		TF		FB	1.0	049.1 (044.1T)	040.7	AA 03000	
		OYCEG	010	FACF	IF		FB				AA 03000	
		WUBEK	020	FAF	TF		FB	0.5	082.1 (077.1T)	007.7	AA 02800	
		HURIB	021	SDF	TF		FB	0.3	082.2 (077.2T)	003.1	AA 01820	GS 01830
		RW08	030	MAP	TF		FO	0.3	082.2 (077.2T)	002.1	AT 01161	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		082.2 (077.2T)		AA 01430	
		MOSEW	050		DF		FO				AA 03000	
		MOSEW	060		HM	R	FO		262.5 (257.5T)	004.0	AA 03000	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		MIE	N401414.25		W0852338.53		N4014.238		W08523.642			
		RID	N394518.03		W0845019.78		N3945.301		W08450.330			
		SHB	N393757.15		W0854927.54		N3937.953		W08549.459			
		HURIB	N400931.15		W0845853.08		N4009.519		W08458.885			
		MOSEW	N401256.32		W0843901.34		N4012.939		W08439.022			
		OYCEG	N400708.20		W0851230.81		N4007.137		W08512.514			
		UTEYU	N395624.33		W0850919.24		N3956.406		W08509.321			
		WUBEK	N400850.72		W0850245.58		N4008.845		W08502.760			
		RW08	N400959.00		W0845612.77		N4009.983		W08456.213			
RUNWAY DATA		RWY	THRESHOLD ELEVATION		TCH							
		RW08	01116		45							



CITY AND STATE WINCHESTER, IN	ELEVATION: 1123	TDZE: 1121	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME:		RNAV	RNAV (GPS) RWY 8, AMDT 1	AMDT: ORIG-A
	RANDOLPH COUNTY			5 MARCH 2015	DATED: 06/26/2014

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.								
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO		COURSE AND DISTANCE			ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW26 CLIMB TO 2500 THEN CLIMBING LEFT TURN TO 3000 DIRECT MOSEW AND HOLD. ADDITIONAL FLIGHT DATA: CHART FAS OBST: 1223 TREE 401015N/0845432W CHART VERSAILLES AWOS-3 DISTANCE TO THLD FROM 309 HAT: 0.85 NM. WAAS CHANNEL # 78120 REFERENCE PATH ID: W26A CHART CIRCLING ICON LTP HAE: 308.7 M							
DQN VOR/DME		SOWDO (FB)		295.00 / 10.44			3000									
BOOKS		NOPCU (FB)		158.21 / 10.98			3000									
MIE VOR/DME		MOSEW (FO)		096.93 / 34.20			3000									
NOPCU (IAF)		MOSEW (NOPT) (FB)		172.44 / 7.70			3000									
SOWDO (IAF)		MOSEW (NOPT) (FB)		352.48 / 8.59			3000									
MOSEW (IF/IAF)		AGUBE (FB)		262.45 / 7.65			2800									
AGUBE (FAF)		ZOKUV/2.20 NM TO RW26 (FB)		262.36 / 2.94												
(SEE FORM 8260-10)																
1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)										MAG VAR: 5W EPOCH YEAR: 2010						
2. HOLD E MOSEW, RT, 262.45 INBOUND, 3000 FT. IN LIEU OF PT (IAF)																
3. FAC: 262.36 FAF: AGUBE DIST FAF TO MAP: 5.14 THLD: 5.14																
4. MIN. ALT: MOSEW 3000, AGUBE 2800, ZOKUV/2.20 NM TO RW26 1860*																
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____																
6. MIN GS INCPT: 2800 GS ALT AT: AGUBE 2800 OM: ____ MM: ____ IM: ____																
7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS CLEAR																
8. MSA FROM: RW26 2900																
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		X							
CATEGORY =====>		A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
LPV DA	1495	1 1/4	372	1495	1 1/4	372	1495	1 1/4	372		NA					
LNAV/VNAV DA	1432	1	309	1432	1	309	1432	1	309		NA					
LNAV MDA	1540	1	417	1540	1	417	1540	1 1/4	417		NA					
CIRCLING	1620	1	497	1620	1	497	1820	2	697		NA					
NOTES: CHART NOTE: BARO-VNAV NA. CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT. *LNAV ONLY (SEE FORM 8260-10)																
CITY AND STATE WINCHESTER, IN		ELEVATION: 1123 TDZE: 1123 AIRPORT NAME: RANDOLPH COUNTY			FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 26, AMDT 1 5 MARCH 2015					SUP: AMDT: ORIG DATED 03/10/2011				

**RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

TERMINAL ROUTES, (CONT.):

<u>FROM</u>	<u>TO</u>	<u>COURSE AND DISTANCE</u>	<u>ALTITUDE</u>
ZOKUV/2.20 NM TO RW26	RW26 (MAP) (FO)	262.36 / 2.20	
RW26 (MAP)	2500 MSL	262.36	2500
2500 MSL	MOSEW (FO)		3000

NOTES, (CONT.):

CHART NOTE: USE VERSAILLES ALTIMETER SETTING; WHEN NOT RECEIVED, USE MUNCIE ALTIMETER SETTING AND INCREASE ALL DA/MDA 20 FT AND INCREASE LPV VISIBILITY ALL CATS, LNAV/VNAV VISIBILITY ALL CATS AND LNAV CAT C VISIBILITY 1/8 MILE..

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON DQN VOR/DME AIRWAY RADIALS 208 CW 008.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON MIE VOR/DME RADIALS 015 CW 141.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BOOKS ON V55 NORTHWEST BOUND.

QUALITY
5
CHECKED

CITY AND STATE

WINCHESTER, IN

ELEVATION: 1123

TDZE: 1123

AIRPORT NAME:

RANDOLPH COUNTY

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 26, AMDT 1

5 MARCH 2015

SUP:

AMDT: ORIG

DATED: 03/10/2011

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	I22
RUNWAY	RW26
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W26A
LTP/FTP LATITUDE	401008.3615N
LTP/FTP LONGITUDE	0845518.7350W
LTP/FTP ELLIPSOIDAL HEIGHT	+03087
FPAP LATITUDE	400948.7225N
FPAP LONGITUDE	0845712.1060W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1440
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

<u>CRC REMAINDER</u>	186AC3A7

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+03422
FPAP ORTHOMETRIC HEIGHT	+03422

QUALITY
5
CHECKED

CITY AND STATE

WINCHESTER, IN

ELEVATION: 1123

TDZE: 1123

AIRPORT NAME:

RANDOLPH COUNTY

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 26, AMDT 1

5 MARCH 2015

SUP:

AMDT:

ORIG

DATED:

03/10/2011

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION <u>RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE</u> FLIGHT STANDARDS SERVICES - FAR PART 97.33	Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION <u>RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE</u> FLIGHT STANDARDS SERVICES - FAR PART 97.33	Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC PACKET - 424-18 - RNAV (GPS)

[illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP I22 K5FR26	ABOOKS	010BOOKSK5EA0E	IF							18000		A JS	
SUSAP I22 K5FR26	ABOOKS	020NOPCUK5EA0E	A 020TF			15820110	+	03000				A JS	
SUSAP I22 K5FR26	ABOOKS	030MOSEWK5EA0EE	B 010TF			17240077	+	03000				A JS	
SUSAP I22 K5FR26	ADQN	010DQN K5D 0V	IF							18000		A JS	
SUSAP I22 K5FR26	ADQN	020SOWDOK5EA0E	A 020TF			29500104	+	03000				A JS	
SUSAP I22 K5FR26	ADQN	030MOSEWK5EA0EE	B 010TF			35250086	+	03000				A JS	
SUSAP I22 K5FR26	AMIE	010MIE K5D 0V	IF							18000		A JS	
SUSAP I22 K5FR26	AMIE	020MOSEWK5EA0EY	020TF			09690342	+	03000				A JS	
SUSAP I22 K5FR26	AMIE	030MOSEWK5EA0EE	AR HF			26250040	+	03000				A JS	
SUSAP I22 K5FR26	R	010MOSEWK5EA0E	I IF				+	03000		18000		A JS	
SUSAP I22 K5FR26	R	020AGUBEK5EA1E	F 051TF			26250077	+	02800			RW26	K5PGA	JS
SUSAP I22 K5FR26	R	020AGUBEK5EA2WALPV		ALNAV/VNAV	ALNAV								JS
SUSAP I22 K5FR26	R	021ZOKUVK5EA0E	S 031TF			26240029	V	0186001864		-300			A JS
SUSAP I22 K5FR26	R	030RW26 K5PGOGY	M 031TF			26240022		01163		-300			A JS
SUSAP I22 K5FR26	R	040	0 M	CA		2624	+	02500					A JS
SUSAP I22 K5FR26	R	050MOSEWK5EA0EY	L DF				+	03000					A JS
SUSAP I22 K5FR26	R	060MOSEWK5EA0EE	R HM			26250040	+	03000					A JS

[illegible]

CITY AND STATE
WINCHESTER, IN

ELEVATION: 1123	TDZE: 1123
AIRPORT NAME:	
RANDOLPH COUNTY	

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 26, AMDT 1 5 MARCH 2015

SUP:	
AMDT:	041G
DATED:	03/10/2011

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

QUALITY
5
CHECKED

CITY AND STATE WINCHESTER, IN	ELEVATION: 1123 AIRPORT NAME: RANDOLPH COUNTY	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 26, AMDT 1 5 MARCH 2015	SUP:
				AMDT: ORIG
				DATED: 03/10/2011

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - FAR PART 97.33												
ARINC SUMMARY - 424-18 - RNAV (GPS)												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	BOOKS	BOOKS	010		IF		FB					
	BOOKS	NOPCU	020	IAF	TF		FB	2.0	158.2 (153.2T)	011.0	AA 03000	
	BOOKS	MOSEW	030		TF		FB	1.0	172.4 (167.4T)	007.7	AA 03000	
	DQN	DQN	010		IF		FB					
	DQN	SOWDO	020	IAF	TF		FB	2.0	295.0 (290.0T)	010.4	AA 03000	
	DQN	MOSEW	030		TF		FB	1.0	352.5 (347.5T)	008.6	AA 03000	
	MIE	MIE	010		IF		FB					
	MIE	MOSEW	020		TF		FO	2.0	096.9 (091.9T)	034.2	AA 03000	
	MIE	MOSEW	030	IAF	HF	R	FO		262.5 (257.5T)	004.0	AA 03000	
		MOSEW	010	FACF	IF		FB				AA 03000	
		AGUBE	020	FAF	TF		FB	0.5	262.5 (257.5T)	007.7	AA 02800	
		ZOKUV	021	SDF	TF		FB	0.3	262.4 (257.4T)	002.9	AA 01860	GS 01864
		RW26	030	MAP	TF		FO	0.3	262.4 (257.4T)	002.2	AT 01163	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		262.4 (257.4T)		AA 02500	
		MOSEW	050		DF	L	FO				AA 03000	
		MOSEW	060		HM	R	FO		262.5 (257.5T)	004.0	AA 03000	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		DQN	N400059.20		W0842348.83		N4000.987		W08423.814			
		MIE	N401414.25		W0852338.53		N4014.238		W08523.642			
		AGUBE	N401116.10		W0844846.19		N4011.268		W08448.770			
		BOOKS	N403016.27		W0844740.77		N4030.271		W08447.680			
		MOSEW	N401256.32		W0843901.34		N4012.939		W08439.022			
		NOPCU	N402027.60		W0844112.52		N4020.460		W08441.209			
		SOWDO	N400432.83		W0843635.45		N4004.547		W08436.591			
		ZOKUV	N401037.38		W0845230.74		N4010.623		W08452.512			
		RW26	N401008.36		W0845518.74		N4010.139		W08455.312			
RUNWAY DATA			THRESHOLD									
		RWY	ELEVATION		TCH							
		RW26	01123		40							



CITY AND STATE WINCHESTER, IN	ELEVATION: 1123	TDZE: 1123	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: RANDOLPH COUNTY		RNAV	RNAV (GPS) RWY 26, AMDT 1	AMDT: ORIG
				5 MARCH 2015	DATED: 03/10/2011

ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29							Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.									
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO			COURSE AND DISTANCE			ALTITUDE		ILS: DA LOC: 5.99 MILES AFTER KEVVN/BAL 7.20 DME/RADAR OR AT BAL 1.24 DME FIX CLIMB TO 900 THEN CLIMBING RIGHT TURN TO 2600 ON BAL VORTAC R-294 TO DATED INT/BAL 14.92 DME AND HOLD, OR AS DIRECTED BY ATC. ALTERNATE MA: CLIMB TO 900 THEN CLIMBING RIGHT TURN TO 4500 ON HEADING 280 AND DCA VOR/DME R-017 TO DATED /DCA 22.33 DME AND HOLD. (DME REQUIRED). ADDITIONAL FLIGHT DATA: HOLD N, RT, 186.99 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD S DATED INT/DCA 22.33 DME, RT, 016.67 INBOUND. CHART FAS OBST: 290 TREE 391215N/0764208W CHART 373 TREE 391306N0764320W CHART 1437 TOWER 391642N/0764503W CHART CIRCLING ICON						
EMI VORTAC (IAF)		BMORE/BAL 13.80 DME/RADAR			150.38 / 10.60			2500								
BMORE/BAL 13.80 DME/RADAR (IF)		KEVVN/BAL 7.20 DME/RADAR			155.20 / 6.60 (I-FND)			2100								
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. PROFILE STARTS AT BMORE/BAL 13.80 DME/RADAR 3. FAC: <u>155.20</u> FAF: KEVVN/BAL 7.20 DME/RADAR DIST FAF TO MAP: <u>5.99</u> THLD: <u>5.99</u> 4. MIN. ALT: BMORE 2500, KEVVN 2100, TATTO/BAL 3.97 DME/RADAR 1080* 5. DIST TO THLD FROM OM: <u> </u> - <u> </u> MM: <u> </u> - <u> </u> IM: <u> </u> - 150 HAT: <u> </u> - 100 HAT: <u> </u> - GS ANT: <u>1113</u> 6. MIN GS INCPT: <u>2100</u> GS ALT AT: KEVVN 2100 OM: <u> </u> - <u> </u> MM: <u> </u> - <u> </u> IM: <u> </u> - 7. GS ANGLE: <u>3.00</u> TCH: 55.7 8. MSA FROM: BAL VORTAC 180-270 2200, 270-180 2600										MAG VAR: 11W		EPOCH YEAR: 2000				
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		ILS: STANDARD #		LOC: STANDARD @					
CATEGORY >>>>>		A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
S-ILS 15R **	338	2400	200	338	2400	200	338	2400	200	338	2400	200				
S-LOC 15R	540	2400	402	540	2400	402	540	4000	402	540	4000	402				
CIRCLING	640	1	494	660	1	514	700	1 1/2	554	880	2 1/4	734				
NOTES: CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 15L. CHART NOTE: DME OR RADAR REQUIRED. *LOC ONLY CHART NOTE: **RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA. (SEE FORM 8260-10)																
CITY AND STATE BALTIMORE, MD		ELEVATION: 146 TDZE: 138 AIRPORT NAME: BALTIMORE/WASHINGTON INTL THURGOOD MARSHALL		FACILITY IDENTIFIER: I-FND		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 15R, AMDT 16 5 MARCH 2015						SUP: ILS RWY 15R				
												AMDT: 15D				
												DATED 08/21/2014				



**ILS - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):**CHART NOTE: DME FROM BAL VORTAC.****CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON EMI VORTAC RADIALS 151 CW 187.**

QUALITY
16
CHECKED

CITY AND STATE

BALTIMORE, MD

ELEVATION: 146

TDZE: 138

AIRPORT NAME:

BALTIMORE/WASHINGTON INTL THURGOOD
MARSHALLFACILITY
IDENTIFIER:

I-FND

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

ILS OR LOC RWY 15R, AMDT 16

5 MARCH 2015

SUP: ILS RWY 15R

AMDT: 15D

DATED: 08/21/2014

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
ILS STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29												
ARINC SUMMARY - 424-18 - ILS												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	EMI	EMI	010	IAF	FC		FB		150.4 ()	008.6	AA 02500	
	EMI	BMORE	020		CF		FB		150.4 ()	002.0	AA 02500	
		BMORE	010	FACF	IF		FB				AA 02500	GI 02100
		KEVVN	020	FAF	CF		FB		155.0 ()	006.6	GI 02100	GS 02100
		RW15R	030	MAP	CF		FO		155.0 ()	006.0	AT 00194	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		155.2 ()		AA 00900	
		DATED	050		CF	R	FO		294.5 ()	017.0	AA 02600	
		DATED	060		HM	R	FO		187.0 ()	01.0	AA 02600	
POINT DATA		WAYPOINT		LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS		
		BAL		N391015.83		W0763940.52		N3910.264		W07639.675		
		EMI		N392942.03		W0765842.86		N3929.701		W07658.714		
		DATED		N391342.92		W0765821.21		N3913.715		W07658.354		
		BMORE		N392117.49		W0765022.33		N3921.292		W07650.372		
		KEVVN		N391556.34		W0764523.43		N3915.939		W07645.391		
		RW15R		N391104.90		W0764052.94		N3911.082		W07640.882		
		IFND (LOC)		N390939.11		W0763933.48		N3909.652		W07639.558		
RUNWAY DATA			THRESHOLD									
		RWY	ELEVATION		TCH							
		RW15R	00138			56						
CITY AND STATE		ELEVATION: 146		TDZE: 138		FACILITY IDENTIFIER:		PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:			SUP: ILS RWY 15R	
BALTIMORE, MD		AIRPORT NAME: BALTIMORE/WASHINGTON INTL THURGOOD MARSHALL				I-FND		ILS OR LOC RWY 15R, AMDT 16 5 MARCH 2015			AMDT: 15D	
											DATED: 08/24/2014	



U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
LOC STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25												
ARINC SUMMARY - 424-18 - LOC												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	EMI	EMI	010	IAF	FC		FB		150.4 ()	008.6	AA 02500	
	EMI	BMORE	020		CF		FB		150.4 ()	002.0	AA 02500	
		BMORE	010	FACF	IF		FB				AA 02500	
		KEVVN	020	FAF	CF		FB		155.0 ()	006.6	AA 02100	
		TATTO	021	SDF	CF		FB		155.0 ()	003.2	AA 01080	
		RW15R	030	MAP	CF		FO		155.0 ()	002.8	AT 00194	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		155.2 ()		AA 00900	
		DATED	050		CF	R	FO		294.5 ()	017.0	AA 02600	
		DATED	060		HM	R	FO		187.0 ()	T01.0	AA 02600	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		BAL	N391015.83		W0763940.52		N3910.264		W07639.675			
		EMI	N392942.03		W0765842.86		N3929.701		W07658.714			
		DATED	N391342.92		W0765821.21		N3913.715		W07658.354			
		BMORE	N392117.49		W0765022.33		N3921.292		W07650.372			
		KEVVN	N391556.34		W0764523.43		N3915.939		W07645.391			
		TATTO	N391318.81		W0764257.08		N3913.314		W07642.951			
		RW15R	N391104.90		W0764052.94		N3911.082		W07640.882			
		IFND (LOC)	N390939.11		W0763933.48		N3909.652		W07639.558			
RUNWAY DATA		RWY	THRESHOLD ELEVATION		TCH							
		RW15R	00138		56							



CITY AND STATE BALTIMORE, MD	ELEVATION: 146 TDZE: 138	FACILITY IDENTIFIER: I-FND	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: ILS OR LOC RWY 15R, AMDT 16 5 MARCH 2015	SUP: ILS RWY 15R
	AIRPORT NAME: BALTIMORE/WASHINGTON INTL THURGOOD MARSHALL			AMDT: 15D
	DATED: 08/24/2014			

ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29							Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.									
TERMINAL ROUTES										MISSED APPROACH						
FROM			TO			COURSE AND DISTANCE			ALTITUDE		ILS: DA LOC: 4.12 MILES AFTER GRAFE/BAL 4.35 DME/RADAR OR AT BAL 0.36 DME FIX CLIMB TO 600 THEN CLIMBING LEFT TURN TO 2600 ON HEADING 280 AND BAL R-294 TO DATED INT/BAL 14.92 DME AND HOLD, OR AS DIRECTED BY ATC. ALTERNATE MA: (SIMULTANEOUS OPERATIONS NA) CLIMB TO 600 THEN CLIMBING LEFT TURN TO 4500 ON HEADING 300 AND DCA R-017 TO DATED/DCA 22.33 DME AND HOLD. (DME REQUIRED) ADDITIONAL FLIGHT DATA: HOLD N, RT, 186.99 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD S DATED/DCA 22.33 DME, RT, 016.67 INBOUND. CHART FAS OBST: 289 TOWER 390842N/0763859W CHART 532 TOWER 390558N/0763721W CHART CIRCLING ICON					
JANNS/BAL 13.00 DME/RADAR (IF)			SPLAT/BAL 7.45 DME/RADAR			335.22 / 5.55 (I-RUX)			2400							
SPLAT/BAL 7.45 DME/RADAR			GRAFE/BAL 4.35 DME/RADAR			335.22 / 3.10 (I-RUX)			1500							
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. PROFILE STARTS AT JANNS/BAL 13.00 DME/RADAR 3. FAC: <u> 335.22 </u> FAF: GRAFE/BAL 4.35 DME/RADAR DIST FAF TO MAP: <u> 4.12 </u> THLD: <u> 4.12 </u> 4. MIN. ALT: JANNS 4000, SPLAT 2400, GRAFE 1500, HAXAK/BAL 1.55 DME/RADAR 600* 5. DIST TO THLD FROM OM: <u> </u> - <u> </u> MM: <u> </u> - <u> </u> IM: <u> </u> - 150 HAT: <u> 2015 </u> 100 HAT: <u> 1061 </u> GS ANT: <u> 967 </u> 6. MIN GS INCPT: <u> 1500 </u> GS ALT AT: GRAFE 1500 OM: <u> </u> - <u> </u> MM: <u> </u> - <u> </u> IM: <u> </u> - <u> </u> 7. GS ANGLE: <u> 3.00 </u> TCH: 55.2 8. MSA FROM: BAL VORTAC 180-270 2200, 270-180 2600										MAG VAR: 11W		EPOCH YEAR: 2000				
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		ILS: STANDARD #		LOC: STANDARD @					
CATEGORY =====>		A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
S-ILS 33L	343	1800	200	343	1800	200	343	1800	200	343	1800	200				
S-LOC 33L	540	2400	397	540	2400	397	540	4000	397	540	4000	397				
CIRCLING	640	1	494	660	1	514	700	1 1/2	554	880	2 1/4	734				
NOTES: SA CATEGORY I ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED S-ILS 33L: CAT A, B, C, D, RA 186, RVR 1400, HAT 150, DA 293 MSL. # CAT D 800-2 1/4 @ CAT D 800-2 1/4 SA CATEGORY II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED S-ILS 33L: CAT A, B, C, D, RA 132, RVR 1200, HAT 100, DA 243 MSL. (SEE FORM 8260-10)																
CITY AND STATE			ELEVATION: 146 TDZE: 143				FACILITY IDENTIFIER:		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:					SUP:		
BALTIMORE, MD			AIRPORT NAME:				I-RUX		ILS OR LOC RWY 33L, AMDT 12					AMDT: 11A		
			BALTIMORE/WASHINGTON INTL THURGOOD MARSHALL						ILS RWY 33L (SA CAT I), ILS RWY 33L (SA CAT II)					DATED 05/29/2014		
									5 MARCH 2015							



ILS - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):

CHART NOTE: DME OR RADAR REQUIRED.

CHART PLANVIEW NOTE: RADAR REQUIRED.

*LOC ONLY

CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH ILS OR LOC RWY 33R.

SA CAT I CHART NOTE: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF HUD TO DH.

SA CAT II CHART NOTE: REDUCED LIGHTING: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF AUTOLAND OR HUD TO TOUCHDOWN.

CHART NOTE: DME FROM BAL VORTAC



CITY AND STATE

BALTIMORE, MD

ELEVATION: 146

TDZE: 143

AIRPORT NAME:

BALTIMORE/WASHINGTON INTL THURGOOD
MARSHALLFACILITY
IDENTIFIER:

I-RUX

PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:

ILS OR LOC RWY 33L, AMDT 12
ILS RWY 33L (SA CAT I), ILS RWY 33L (SA CAT II)

5 MARCH 2015

SUP:

AMDT: 11A

DATED: 05/29/2014

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
ILS STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29												
ARINC SUMMARY - 424-18 - ILS												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	JANNS	JANNS	010		IF		FB				AA 04000	
	JANNS	SPLAT	020		CF		FB		335.2 ()	005.6	AA 02400	
		SPLAT	010	FACF	IF		FB				AA 02400 GI 01500	
		GRAFE	020	FAF	CF		FB		335.0 ()	003.1	GI 01500 GS 01500	
		RW33L	030	MAP	CF		FO		335.0 ()	004.1	AT 00187	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		335.2 ()		AA 00600	
			050		VI		FB		280.0 ()			
		DATED	060		CF		FO		294.5 ()	011.0	AA 02600	
		DATED	070		HM	R	FO		187.0 ()	T01.0	AA 02600	
POINT DATA		WAYPOINT		LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS		
		BAL		N391015.83		W0763940.52		N3910.264		W07639.675		
		DATED		N391342.92		W0765821.21		N3913.715		W07658.354		
		GRAFE		N390634.30		W0763642.53		N3906.572		W07636.709		
		JANNS		N385932.32		W0763013.23		N3859.539		W07630.221		
		SPLAT		N390402.88		W0763422.59		N3904.048		W07634.377		
		RW33L		N390955.14		W0763948.33		N3909.919		W07639.806		
		IRUX (LOC)		N391110.51		W0764058.14		N3911.175		W07640.969		
RUNWAY DATA		RWY	THRESHOLD ELEVATION		TCH							
		RW33L	00132		55							



CITY AND STATE BALTIMORE, MD	ELEVATION: 146	TDZE: 143	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: BALTIMORE/WASHINGTON INTL THURGOOD MARSHALL		I-RUX	ILS OR LOC RWY 33L, AMDT 12 ILS RWY 33L (SA CAT I), ILS RWY 33L (SA CAT II)	AMDT: 11A
				5 MARCH 2015	DATED: 05/29/2014

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
LOC STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25												
ARINC SUMMARY - 424-18 - LOC												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	JANNS	JANNS	010		IF		FB				AA 04000	
	JANNS	SPLAT	020		CF		FB		335.2 ()	005.6	AA 02400	
		SPLAT	010	FACF	IF		FB				AA 02400	
		GRAFE	020	FAF	CF		FB		335.0 ()	003.1	AA 01500	
		HAXAK	021	SDF	CF		FB		335.0 ()	002.8	AA 00600	
		RW33L	030	MAP	CF		FO		335.0 ()	001.3	AT 00187	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		335.2 ()		AA 00600	
			050		VI		FB		280.0 ()			
		DATED	060		CF		FO		294.5 ()	011.0	AA 02600	
		DATED	070		HM	R	FO		187.0 ()	T01.0	AA 02600	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		BAL	N391015.83		W0763940.52		N3910.264		W07639.675			
		DATED	N391342.92		W0765821.21		N3913.715		W07658.354			
		GRAFE	N390634.30		W0763642.53		N3906.572		W07636.709			
		HAXAK	N390851.82		W0763849.67		N3908.864		W07638.828			
		JANNS	N385932.32		W0763013.23		N3859.539		W07630.221			
		SPLAT	N390402.88		W0763422.59		N3904.048		W07634.377			
		RW33L	N390955.14		W0763948.33		N3909.919		W07639.806			
		IRUX (LOC)	N391110.51		W0764058.14		N3911.175		W07640.969			
RUNWAY DATA		RWY	THRESHOLD ELEVATION		TCH							
		RW33L	00132		55							
CITY AND STATE		ELEVATION: 146		TDZE: 143		FACILITY IDENTIFIER:		PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:		SUP:		
BALTIMORE, MD		AIRPORT NAME:		BALTIMORE/WASHINGTON INTL THURGOOD MARSHALL		I-RUX		ILS OR LOC RWY 33L, AMDT 12		AMDT: 11A		
								ILS RWY 33L (SA CAT I), ILS RWY 33L (SA CAT II)		DATED: 05/29/2014		
								5 MARCH 2015				

QUALITY
15
CHECKED

U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)

Bearings, headings, courses, tracks and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated.
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

City, State	Airport	Effective Date	Amdt. No.
BALTIMORE, MD	BALTIMORE/WASHINGTON INTL THURGOOD MARSHALL	5 MARCH 2015	10

TAKEOFF MINIMUMS:

RWY 10, 15L, 15R, 28, 33L, STANDARD.

RWY 33R, STANDARD WITH MINIMUM CLIMB OF 255 FT PER NM TO 2000.

TEXTUAL DEPARTURE PROCEDURES:

RWY 28: CLIMB HEADING 285.22 TO 900 BEFORE TURNING RIGHT.

RWY 33L: CLIMB HEADING 320.21 TO 2000 BEFORE TURNING RIGHT.

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 10, BUILDINGS BEGINNING 52 FT FROM DER, 319 FT LEFT OF CENTERLINE, UP TO 10 FT AGL/133 FT MSL. TREES BEGINNING 1144 FT FROM DER, 383 FT LEFT OF CENTERLINE, UP TO 70 FT AGL/163 FT MSL.

NOTE: RWY 15L, POLES AND TREES BEGINNING 615 FT FROM DER, 547 FT LEFT OF CENTERLINE, UP TO 79 FT AGL/169 FT MSL. POLE AND TREES BEGINNING 1762 FT FROM DER, 666 FT RIGHT OF CENTERLINE, UP TO 82 FT AGL/205 FT MSL.

NOTE: RWY 15R, REIL ABEAM DER, 85 FT RIGHT OF CENTERLINE, 2 FT AGL/130 FT MSL. TREES BEGINNING 1086 FT FROM DER, 737 FT RIGHT OF CENTERLINE, UP TO 77 FT AGL/184 FT MSL.

NOTE: RWY 28, LIGHT POLE 149 FT FROM DER, 40 FT RIGHT OF CENTERLINE, 4 FT AGL/143 FT MSL. TREES BEGINNING 1293 FT FROM DER, 259 FT LEFT OF CENTERLINE, UP TO 115 FT AGL/192 FT MSL. TREES BEGINNING 2830 FT FROM DER, 838 FT RIGHT OF CENTERLINE, UP TO 135 FT AGL/212 FT MSL.

NOTE: RWY 33L, POLE AND FENCES BEGINNING 161 FT FROM DER, 520 FT RIGHT OF CENTERLINE, UP TO 33 FT AGL/156 FT MSL. POLE 910 FT FROM DER, 595 FT LEFT OF CENTERLINE, 82 FT AGL/165 FT MSL. TREES BEGINNING 1662 FT FROM DER, 629 FT RIGHT OF CENTERLINE, UP TO 73 FT AGL/214 FT MSL. ANTENNA AND BUILDINGS BEGINNING 4726 FT FROM DER, 877 FT RIGHT OF CENTERLINE, UP TO 157 FT AGL/265 FT MSL.

NOTE: RWY 33R, SIGN, FENCES, VERTICAL STRUCTURES, POLES, AND BUILDINGS BEGINNING 400 FT FROM DER, 600 FT LEFT OF CENTERLINE, UP TO 42 FT AGL/198 FT MSL. TREES BEGINNING 974 FT FROM DER, 518 FT RIGHT OF CENTERLINE, UP TO 54 FT AGL/188 FT MSL. POLES AND TREES BEGINNING 1531 FT FROM DER, 584 FT RIGHT OF CENTERLINE, UP TO 76 FT AGL/265 FT MSL. TREES BEGINNING 2453 FT FROM DER, 685 FT LEFT OF CENTERLINE, UP TO 79 FT AGL/231 FT MSL. POLE AND TREES BEGINNING 2949 FT FROM DER, 2 FT LEFT OF CENTERLINE, UP TO 116 FT AGL/291 FT MSL. POLES AND TREES BEGINNING 2736 FT FROM DER, 2 FT RIGHT OF CENTERLINE, UP TO 76 FT AGL/281 FT MSL.

CONTROLLING OBSTACLES:

RWY 33R: 1437 FT MSL TOWER 391641.69N/0764502.70W (CLIMB GRADIENT). 1504 FT MSL TOWER 391716.23N/0764537.03W (CLIMB-TO ALTITUDE).

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT:

RWY 28 – 1437 FT MSL TOWER 391641.69N/0764502.70W.

RWY 33L – 1504 FT MSL TOWER 391716.23N/0764537.03W.



U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)

Bearings, headings, courses, tracks and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated.
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

City, State	Airport	Effective Date	Amdt. No.
BALTIMORE, MD	BALTIMORE/WASHINGTON INTL THURGOOD MARSHALL	5 MARCH 2015	10

REMARKS:

1. RWY 33R DEPARTURE ROUTE THAT MEETS ATC FLOW REQUIREMENTS COULD NOT BE CONSTRUCTED. ATC HAS REQUESTED TO OPT-OUT OF PUBLISHING A VCOA AS IT IS NOT PRACTICAL DUE TO HIGH TRAFFIC VOLUME.
2. RWY 33R CLIMB GRADIENT ROUNDED UP TO 255 FT PER NM. COMPUTED VALUE IS 251 FT PER NM.

FLIGHT INSPECTED BY: *Digitally signed by*

STEPHEN M BAUER **BEV L BORDY** 12/17/2014
Jan 29, 2015

REQUIRED EFFECTIVE DATE:

ROUTINE

DEVELOPED BY: *Digitally signed by*

PETER GUIMOND **JULIE A MORGAN** 9/22/2014
Jan 23, 2015 AJV-352

APPROVED BY: *Digitally signed by*

SUSAN CRUMB **JULIE A MORGAN** 1/22/2015
Jan 23, 2015 AJV-352

COORDINATED WITH:

ATA, ALPA, APA, AOPA, NBAA, ZDC, POTOMAC APP CON, BWI TOWER, ARPT MGR

CHANGES:

1. DELETED ALL INSTANCES OF RWY 4/22.
2. AMENDED RWY 33R CLIMB GRADIENT FROM 251 FT PER NM TO 255 FT PER NM.
3. AMENDED RWY 33R CONTROLLING OBSTACLES.
4. AMENDED RWY 33L OBSTACLE MANDATING ODP ROUTE DEVELOPMENT.
5. AMENDED RWY 10, 15L, 15R, 28, 33L, AND 33R TAKEOFF OBSTACLE NOTES.

REASONS:

1. RWY 4/22 IS PERMANENTLY CLOSED.
2. ROUNDED UP TO NEXT HIGHER 5 FT INCREMENT TO PRECLUDE NOTAM ACTION SHOULD RUNWAY OR CONTROLLING OBSTACLE ELEVATIONS CHANGE.
3. NEW OBSTACLE STUDY.
4. NEW OBSTACLE STUDY.
5. NEW OBSTACLE STUDY.



RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33						Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.										
TERMINAL ROUTES											MISSED APPROACH					
FROM		TO		COURSE AND DISTANCE			ALTITUDE		LNAV: RW15 CLIMB TO 1000 THEN CLIMBING RIGHT TURN TO 3000 DIRECT DEJZU AND HOLD. ADDITIONAL FLIGHT DATA: CHART FAS OBST: 380 TREE 451331N/0673621W CHART CIRCLING ICON. AKMUY TO RW15: 3.00/50.9							
GUTYE (IAF)		DEJZU (NOPT) (FB)		209.43 / 6.00			3000									
JUNCA (IAF)		DEJZU (NOPT) (FB)		089.32 / 6.00			3000									
DEJZU (IF/IAF)		AKMUY (FB)		149.42 / 6.00			1900									
AKMUY (FAF)		ZUVAR/2.10 NM TO RW15 (FB)		149.49 / 2.88												
ZUVAR/2.10 NM TO RW15		RW15 (MAP) (FO)		149.49 / 2.10												
RW15 (MAP)		1000 MSL		149.49			1000									
1000 MSL		DEJZU (FO)					3000									
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD NW DEJZU, RT, 149.42 INBOUND, 3000 FT. IN LIEU OF PT (IAF) 3. FAC: 149.49 FAF: AKMUY _____ DIST FAF TO MAP: 4.98 THLD: 4.98 4. MIN. ALT: DEJZU 3000, AKMUY 1900, ZUVAR/2.10 NM TO RW15 980 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: _____ GS ALT AT: _____ OM: _____ MM: _____ IM: _____ 7. GS ANGLE: _____ TCH: 34:1 IS NOT CLEAR 8. MSA FROM: _____																
											MAG VAR: 17W			EPOCH YEAR: 2015		
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT											ALTERNATE: N A X					
CATEGORY =====>		A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
LNAV MDA	640	1	374	640	1	374	640	1	374	640	1	374				
CIRCLING	700	1	434	820	1	554	980	2	714	980	2 1/4	714				
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1SM NOT AUTHORIZED. CHART NOTE: PROCEDURE NA AT NIGHT. CHART NOTE: CIRCLING NA TO RWYS 06 AND 24. (SEE FORM 8260-10)																
CITY AND STATE				ELEVATION: 266 TDZE: 266				FACILITY IDENTIFIER: RNAV				PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:
PRINCETON, ME				AIRPORT NAME: PRINCETON MUNI				RNAV				RNAV (GPS) RWY 15, AMDT 1 5 MARCH 2015				AMDT: ORIG-B
																DATED 07/25/2013



**RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BANGOR ALTIMETER SETTING AND INCREASE ALL MDA 160 FT; INCREASE LNAV CAT C AND D AND CIRCLING CAT C AND D VISIBILITY 1/2 MILE.

TAA

	<u>FROM</u>	<u>TO</u>	<u>ALT</u>
1.	089/30 CW 209/30 (NOPT)	089/15 CW 209/15 (FB)	3100
2.	089/15 CW 209/15	DEJZU (IF/IAF) (FB)	3000
3.	209/30 CW 329/30	GUTYE (IAF) (FB)	3000
4.	329/30 CW 089/30	JUNCA (IAF) (FB)	3100

QUALITY
6
CHECKED

CITY AND STATE

PRINCETON, ME

ELEVATION: 266

TDZE: 266

AIRPORT NAME:

PRINCETON MUNI

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 15, AMDT 1

5 MARCH 2015

SUP:

AMDT: ORIG-B

DATED: 07/25/2013

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION <u>RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE</u> FLIGHT STANDARDS SERVICES - FAR PART 97.33	Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION <u>RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE</u> FLIGHT STANDARDS SERVICES - FAR PART 97.33	Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC PACKET - 424-18 - RNAV (GPS)

	1	2	3	4	5	6	7	8	9	0	1	2	3
WP	12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												
SUSAEANRT	AKMUY K60	W	N45153665W067393590					W0171	NAR		AKMUY		
SUSABEANRT	DEJZU K60	W	N45193961W067455217					W0171	NAR		DEJZU		
SUSAEANRT	GUTYE K60	W	N45253112W067440230					W0171	NAR		GUTYE		
SUSAEANRT	JUNCA K60	W	N45175056W067535832					W0170	NAR		JUNCA		
SUSAEANRT	ZUVAR K60	W	N45133992W067363560					W0171	WGE		ZUVAR		

[illegible][illegible][illegible]

CITY AND STATE
PRINCETON, ME

ELEVATION: 266	TDZE: 266
AIRPORT NAME:	PRINCETON MUNI

FACILITY IDENTIFIER:
RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
RNAV (GPS) RWY 15, AMDT 1
 5 MARCH 2015

SUP:	
AMDT:	ORIG-B
DATED:	07/25/2013

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - FAR PART 97.33												
ARINC SUMMARY - 424-18 - RNAV (GPS)												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	DEJZU	DEJZU	010	IAF	HF	R	FO		149.4 (132.4T)	004.0	AA 03000	
	GUTYE	GUTYE	010	IAF	IF		FB					
	GUTYE	DEJZU	020		TF		FB	1.0	209.4 (192.4T)	006.0	AA 03000	
	JUNCA	JUNCA	010	IAF	IF		FB					
	JUNCA	DEJZU	020		TF		FB	1.0	089.3 (072.3T)	006.0	AA 03000	
		DEJZU	010	FACF	IF		FB				AA 03000	
		AKMUY	020	FAF	TF		FB	0.5	149.4 (132.4T)	006.0	AA 01900	
		ZUVAR	021	SDF	TF		FB	0.3	149.5 (132.5T)	002.9	AA 00980	GS 00981
		RW15	030	MAP	TF		FO	0.3	149.5 (132.5T)	002.1	AT 00313	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		149.5 (132.5T)		AA 01000	
		DEJZU	050		DF	R	FO				AA 03000	
		DEJZU	060		HM	R	FO		149.4 (132.4T)	004.0	AA 03000	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		AKMUY	N451536.65		W0673935.90		N4515.611		W06739.598			
		DEJZU	N451939.61		W0674552.17		N4519.660		W06745.870			
		GUTYE	N452531.12		W0674402.30		N4525.519		W06744.038			
		JUNCA	N451750.56		W0675358.32		N4517.843		W06753.972			
		ZUVAR	N451339.92		W0673635.60		N4513.665		W06736.593			
		RW15	N451214.74		W0673424.26		N4512.246		W06734.404			
RUNWAY DATA		RWY	THRESHOLD ELEVATION		TCH							
		RW15	00262		51							



CITY AND STATE PRINCETON, ME	ELEVATION: 266	TDZE: 266	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 15, AMDT 1 5 MARCH 2015	SUP:
	AIRPORT NAME: PRINCETON MUNI				AMDT: ORIG-B
					DATED: 07/25/2013

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29							Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.						
TERMINAL ROUTES														MISSED APPROACH						
FROM				TO				COURSE AND DISTANCE				ALTITUDE		ILS: DA LOC: 4.75 MILES AFTER PIKLE LOM OR AT I-ESC LOC/DME 1.22 DME FIX CLIMB TO 2100 THEN CLIMBING RIGHT TURN TO 2500 DIRECT ESC VOR/DME AND HOLD, OR AS DIRECTED BY ATC. ALTERNATE MA: CLIMB TO 2100 THEN CLIMBING RIGHT TURN TO 2500 DIRECT PIKLE LOM AND HOLD. (ADF REQUIRED) ADDITIONAL FLIGHT DATA: HOLD W, RT, 085.96 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD W PIKLE LOM/I-ESC LOC/DME 5.96 DME, RT, 093.88 INBOUND. CHART FAS OBST: 907 TREE 454310N/0871021W CHART CIRCLING ICON. CHART VDP AT 2.74 DME* DISTANCE VDP TO THLD 1.53 MILES. *LOC ONLY. CHART (CFBTX) AT INTERSECTION OF VUKFI DR LEG AND INTERMEDIATE COURSE. CHART ESC R-341 AT VNZNT. CHART ESC R-216 AT MAARC. MAG VAR: 3W EPOCH YEAR: 1985						
ESC VOR/DME				PIKLE LOM/I-ESC LOC/DME 5.96 DME				269.65 / 5.69				2500								
VNZNT/ESC VOR/DME 12.00 DME CCW (IAF)				REBON/I-ESC LOC/DME 12.28 DME (NOPT)				12.00 DME ARC (ESC LR-280)				2500								
MAARC/ESC VOR/DME 12.00 DME CW (IAF)				REBON/I-ESC LOC/DME 12.28 DME (NOPT)				12.00 DME ARC (ESC LR-260)				2500								
VUKFI INT (IAF)				REBON/I-ESC LOC/DME 12.28 DME (NOPT)				138.88 / 3.29 (HDG) & 093.88 / 4.00 (I-ESC)				2500								
REBON/I-ESC LOC/DME 12.28 DME (IF)				PIKLE LOM/I-ESC LOC/DME 5.96 DME				093.88 / 6.32 (I-ESC)				2200								
1. PT <u>L</u> SIDE OF COURSE <u>273.88</u> OUTBOUND <u>2500</u> FT WITHIN <u>10</u> MILES OF <u>PIKLE LOM</u> (IAF)																				
2.																				
3. FAC: <u>093.88</u> FAF: <u>PIKLE LOM/I-ESC LOC/DME 5.96 DME</u> DIST FAF TO MAP: <u>4.75</u> THLD: <u>4.75</u>																				
4. MIN. ALT: <u>PIKLE LOM/I-ESC LOC/DME 5.96 DME 2200</u>																				
5. DIST TO THLD FROM OM: <u>4.75</u> MM: <u>-</u> IM: <u>-</u> 150 HAT: <u>-</u> 100 HAT: <u>-</u> GS ANT: <u>1219</u>																				
6. MIN GS INCPT: <u>2200</u> GS ALT AT: <u>-</u> OM: <u>2198</u> MM: <u>-</u> IM: <u>-</u>																				
7. GS ANGLE: <u>3.00</u> TCH: <u>56.1</u>																				
8. MSA FROM: <u>ES LOM 060-205 2300, 205-310 2600, 310-060 3100</u>																				
MINIMUMS																				
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		ILS: STANDARD #		LOC: STANDARD @									
CATEGORY =====>		A			B			C			D			E						
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA					
S-ILS 09	809	1/2	200	809	1/2	200	809	1/2	200	809	1/2	200								
S-LOC 09	1160	1/2	551	1160	1/2	551	1160	1 1/8	551	1160	1 1/8	551								
CIRCLING	1160	1	551	1160	1	551	1280	2	671	1480	2 3/4	871								
NOTES: CHART NOTE: ADF OR DME REQUIRED. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT VUKFI ON V7 NORTHBOUND. CHART PLANVIEW NOTE: ADF OR DME REQUIRED. CHART NOTE: NIGHT LANDING: RWY 18 NA. (SEE FORM 8260-10)																				
CITY AND STATE ESCANABA, MI				ELEVATION: 609 TDZE: 609 AIRPORT NAME: DELTA COUNTY				FACILITY IDENTIFIER: I-ESC		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 9, AMDT 3 5 MARCH 2015						SUP: AMDT: 2A DATED 03/08/2012				



**ILS - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):

CHART PLANVIEW NOTE: CAUTION: MAGNETIC DISTURBANCES OF AS MUCH AS 14 DEGREES EXIST AT GROUND LEVEL AT ESCANABA.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MARQUETTE ALTIMETER SETTING AND INCREASE ALL DA 178 FEET AND ALL MDA 180 FEET, INCREASE S-ILS 9 ALL CATS VISIBILITY 1/8 MILE, S-LOC 9 CATS C/D VISIBILITY 1/2 MILE, CIRCLING CATS C VISIBILITY 1/2 MILE AND CIRCLING CAT D VISIBILITY 1/4 MILE.

CHART NOTE: FOR INOPERATIVE MALSR WHEN USING MARQUETTE ALTIMETER SETTING, INCREASE S-ILS 9 ALL CATS VISIBILITY TO 1 MILE, AND S-LOC 9 CATS C/D VISIBILITY TO 2 MILES.

CHART PROFILE NOTE: USE I-ESC DME WHEN ON THE LOCALIZER COURSE.

QUALITY
9
CHECKED

CITY AND STATE

ESCANABA, MI

ELEVATION: 609

TDZE: 609

AIRPORT NAME:

DELTA COUNTY

FACILITY
IDENTIFIER:

I-ESC

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

ILS OR LOC RWY 9, AMDT 3

5 MARCH 2015

SUP:

AMDT: 2A

DATED: 03/08/2012

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible]

SUP:	12
AMDT:	2A
DATED:	03/08/2012

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible]

SUP:	
AMDT:	2A
DATED:	03/08/2012

Page 4 of 8 Pages

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
ILS STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29												
ARINC SUMMARY - 424-18 - ILS												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	ESC	ESC	010		IF		FB					
	ESC	PIKLE	020		TF		FB				AA 02500	
	ESC	PIKLE	030	IAF	PI	R	FB		228.9 ()	010.0	AA 02500	
	MAARC	MAARC	010	IAF	IF		FB					
	MAARC	REBON	020		AF	R	FB		216.1 ()		AA 02500	
	VNZNT	VNZNT	010	IAF	IF		FB					
	VNZNT	REBON	020		AF	L	FB		341.5 ()		AA 02500	
	VUKFI	VUKFI	010	IAF	IF		FB					
	VUKFI	CFBTX	020		TF		FB				AA 02500	
	VUKFI	REBON	030		CF		FB		093.9 ()	004.0	AA 02500	
		REBON	010	FACF	IF		FB				AA 02500	GI 02200
		PIKLE	020	FAF	CF		FB		094.0 ()	006.3		GI 02200 GS 02198
		RW09	030	MAP	CF		FO		094.0 ()	004.8	AT 00665	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		093.9 ()		AA 02100	
		ESC	050		DF	R	FO				AA 02500	
		ESC	060		HM	R	FO		086.0 ()	T01.0	AA 02500	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		ESC	N454321.49		W0870522.55		N4543.358		W08705.376			
		IESC (DME)	N454311.03		W0870458.98		N4543.184		W08704.983			
		MAARC	N453339.27		W0871526.04		N4533.655		W08715.434			
		VNZNT	N455443.94		W0871049.92		N4554.732		W08710.832			
		VUKFI	N454548.74		W0873129.46		N4545.812		W08731.491			
		CFBTX	N454326.82		W0872813.02		N4543.447		W08728.217			
		PIKLE	N454319.13		W0871329.46		N4543.319		W08713.491			
		REBON	N454323.73		W0872230.26		N4543.396		W08722.504			
		RW09	N454314.96		W0870642.97		N4543.249		W08706.716			
		IESC (LOC)	N454313.81		W0870457.18		N4543.230		W08704.953			
		ES	N454321.83		W0871329.41		N4543.364		W08713.490			
RUNWAY DATA			THRESHOLD									
		RWY	ELEVATION		TCH							
		RW09	00609		56							
CITY AND STATE		ELEVATION: 609		TDZE: 609		FACILITY IDENTIFIER:		PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:			SUP:	
ESCANABA, MI		AIRPORT NAME:		DELTA COUNTY		I-ESC		ILS OR LOC RWY 9, AMDT 3			AMDT: 2A	
								5 MARCH 2015			DATED: 03/08/2012	

QUALITY
12
CHECKED

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible]

SUP:	
AMDT:	2A
DATED:	03/08/2012

Page 6 of 8 Pages

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25

[illegible]

QUALITY
12
CHECKED

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
LOC STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25												
ARINC SUMMARY - 424-18 - LOC												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	ESC	ESC	010		IF		FB					
	ESC	PIKLE	020		TF		FB				AA 02500	
	ESC	PIKLE	030	IAF	PI	R	FB		228.9 ()	010.0	AA 02500	
	MAARC	MAARC	010	IAF	IF		FB					
	MAARC	REBON	020		AF	R	FB		216.1 ()		AA 02500	
	VNZNT	VNZNT	010	IAF	IF		FB					
	VNZNT	REBON	020		AF	L	FB		341.5 ()		AA 02500	
	VUKFI	VUKFI	010	IAF	IF		FB					
	VUKFI	CFBTX	020		TF		FB				AA 02500	
	VUKFI	REBON	030		CF		FB		093.9 ()	004.0	AA 02500	
		REBON	010	FACF	IF		FB				AA 02500	
		PIKLE	020	FAF	CF		FB		094.0 ()	006.3	AA 02200	
		RW09	030	MAP	CF		FO		094.0 ()	004.8	AT 00665	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		093.9 ()		AA 02100	
		ESC	050		DF	R	FO				AA 02500	
		ESC	060		HM	R	FO		086.0 ()	T01.0	AA 02500	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		ESC	N454321.49		W0870522.55		N4543.358		W08705.376			
		IESC (DME)	N454311.03		W0870458.98		N4543.184		W08704.983			
		MAARC	N453339.27		W0871526.04		N4533.655		W08715.434			
		VNZNT	N455443.94		W0871049.92		N4554.732		W08710.832			
		VUKFI	N454548.74		W0873129.46		N4545.812		W08731.491			
		CFBTX	N454326.82		W0872813.02		N4543.447		W08728.217			
		PIKLE	N454319.13		W0871329.46		N4543.319		W08713.491			
		REBON	N454323.73		W0872230.26		N4543.396		W08722.504			
		RW09	N454314.96		W0870642.97		N4543.249		W08706.716			
		IESC (LOC)	N454313.81		W0870457.18		N4543.230		W08704.953			
		ES	N454321.83		W0871329.41		N4543.364		W08713.490			
RUNWAY DATA			THRESHOLD									
		RWY	ELEVATION		TCH							
		RW09	00609		56							

CITY AND STATE ESCANABA, MI	ELEVATION: 609	TDZE: 609	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: DELTA COUNTY		I-ESC	ILS OR LOC RWY 9, AMDT 3	AMDT: 2A
				5 MARCH 2015	DATED: 03/08/2012

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29							Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.						
TERMINAL ROUTES										MISSED APPROACH										
FROM			TO			COURSE AND DISTANCE				ALTITUDE			ILS: DA LOC: 4.67 MILES AFTER KOLOE LOM/INT OR AT (CFCHN)							
SSM VOR/DME			KOLOE LOM/INT			247.16 / 10.59				2600			CLIMB TO 1500 THEN CLIMBING RIGHT TURN TO 2600 DIRECT KOLOE LOM/INT AND HOLD (TACAN AIRCRAFT CLIMB TO 5000 ON HEADING 160 AND ON SSM VOR/DME R-201 TO PINES/SSM 24.00 DME AND HOLD S, RT, 021.42 INBOUND).							
PINES/24.00 DME			KOLOE LOM			359.70 / 18.26				4000										
										ADDITIONAL FLIGHT DATA: HOLD NW, RT, 156.99 INBOUND. FAS OBST: 909 AAO 461818N/0843102W CHART IN PLANVIEW: (CFCHN) AT 461554.03N/0842907.10W CHART IN PLANVIEW: (CFVFD) AT 462508.45N/0843650.43W										
1. PT <u>L</u> SIDE OF COURSE <u>336.99</u> OUTBOUND <u>2600</u> FT WITHIN <u>15</u> MILES OF <u>KOLOE LOM</u> (IAF)																				
2.																				
3. FAC: <u>156.99</u> FAF: <u>KOLOE LOM/INT</u> DIST FAF TO MAP: <u>5.27</u> THLD: <u>5.27</u>																				
4. MIN. ALT: <u>KOLOE LOM/INT 2600</u>																				
5. DIST TO THLD FROM OM: <u>5.27</u> MM: <u>-</u> IM: <u>-</u> 150 HAT: <u>-</u> 100 HAT: <u>-</u> GS ANT: <u>1075</u>																				
6. MIN GS INCPT: <u>2600</u> GS ALT AT: <u>-</u> OM: <u>2563</u> MM: <u>-</u> IM: <u>-</u>																				
7. GS ANGLE: <u>3.00</u> TCH: <u>58.1</u>																				
8. MSA FROM: <u>CI LOM 135-225 4000, 225-135 3100</u>										MAG VAR: 7W EPOCH YEAR: 2015										
MINIMUMS																				
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A			ILS: STANDARD #			LOC: STANDARD @							
CATEGORY =====>		A			B			C			D			E						
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA					
S-ILS 16	1049	1/2	250	1049	1/2	250	1049	1/2	250	1049	1/2	250	1049	1/2	250					
S-LOC 16	1160	1/2	361	1160	1/2	361	1160	5/8	361	1160	5/8	361	1160	5/8	361					
CIRCLING	1260	1	461	1260	1	461	1260	1 1/2	461	1360	2	561	1380	2	581					
NOTES: CHART NOTE: ADF REQUIRED. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE SAULT STE MARIE MUNI/SANDERSON FIELD ALTIMETER SETTING AND INCREASE ALL DA 45 FEET AND ALL MDA 60 FEET, INCREASE S-LOC 16 CATS C/D/E VISIBILITY AND CIRCLING CAT E 1/4 MILE. (SEE FORM 8260-10)																				
CITY AND STATE SAULT STE MARIE, MI			ELEVATION: 799 TDZE: 799 AIRPORT NAME: CHIPPEWA COUNTY INTL				FACILITY IDENTIFIER: I-CIU		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 16, AMDT 8B 5 MARCH 2015					SUP: AMDT: 8A DATED 03/08/2012						

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.
CAT E 600-2
@ CAT E 800-2

**ILS - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):

CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-ILS 16 CAT E VISIBILITY BY 1/4 MILE AND S-LOC 16 CATS C/D/E VISIBILITY BY 3/8 MILE.

CHART NOTE: FOR INOPERATIVE MALSR WHEN USING SAULT STE MARIE MUNI/SANDERSON FIELD ALTIMETER SETTING INCREASE S-ILS 16 ALL CATS VISIBILITY BY 3/8 MILE AND S-LOC 16 CATS C/D/E VISIBILITY BY 5/8 MILE.

CHART PROFILE NOTE: LOC UNUSABLE FROM 0.6NM INBOUND. GLIDESLOPE UNUSABLE BELOW 1012 FT.



CITY AND STATE

SAULT STE MARIE, MI

ELEVATION: 799

TDZE: 799

AIRPORT NAME:

CHIPPEWA COUNTY INTL

FACILITY
IDENTIFIER:
I-CIU

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

ILS OR LOC RWY 16, AMDT 8B

5 MARCH 2015

SUP:

AMDT: 8A

DATED: 03/08/2012

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION ILS STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
ARINC SUMMARY - 424-18 - ILS												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	PINES	PINES	010		IF		FB					
	PINES	KOLOE	020		TF		FB				AA 04000	
	PINES	KOLOE	030	IAF	PI	R	FB		292.0 ()	015.0	AA 02600	
	SSM	SSM	010		IF		FB					
	SSM	KOLOE	020		TF		FB				AA 02600	
	SSM	KOLOE	030	IAF	PI	R	FB		292.0 ()	015.0	AA 02600	
		CFVFD	010	FACF	IF		FB				AA 02600 GI 02600	
		KOLOE	020	FAF	CF		FB		157.0 ()	006.0	GI 02600 GS 02563	
		RW16	030	MAP	CF		FO		157.0 ()	005.3	AT 00857	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		157.0 ()		AA 01500	
		CI	050		DF	R	FO				AA 02600	
		CI	060		HM	R	FO		157.0 ()	T01.0	AA 02600	
POINT DATA		WAYPOINT		LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS		
		SSM		N462443.60		W0841853.54		N4624.727		W08418.892		
		PINES		N460149.61		W0842912.25		N4601.827		W08429.204		
		CFVFD		N462508.45		W0843650.43		N4625.141		W08436.841		
		KOLOE		N461956.75		W0843229.58		N4619.946		W08432.493		
		RW16		N461522.87		W0842841.15		N4615.381		W08428.686		
		ICIU (LOC)		N461331.59		W0842708.56		N4613.527		W08427.143		
		CI		N461957.08		W0843232.88		N4619.951		W08432.548		
RUNWAY DATA				THRESHOLD								
		RWY		ELEVATION		TCH						
		RW16		00799		58						

QUALITY
15
CHECKED

CITY AND STATE SAULT STE MARIE, MI	ELEVATION: 799 TDZE: 799 AIRPORT NAME: CHIPPEWA COUNTY INTL	FACILITY IDENTIFIER: I-CIU	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: ILS OR LOC RWY 16, AMDT 8B 5 MARCH 2015	SUP: AMDT: 8A DATED: 03/08/2012

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION LOC STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
ARINC SUMMARY - 424-18 - LOC												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	PINES	PINES	010		IF		FB					
	PINES	KOLOE	020		TF		FB				AA 04000	
	PINES	KOLOE	030	IAF	PI	R	FB		292.0 ()	015.0	AA 02600	
	SSM	SSM	010		IF		FB					
	SSM	KOLOE	020		TF		FB				AA 02600	
	SSM	KOLOE	030	IAF	PI	R	FB		292.0 ()	015.0	AA 02600	
		CFVFD	010	FACF	IF		FB				AA 02600	
		KOLOE	020	FAF	CF		FB		157.0 ()	006.0	AA 02600	
		CFCHN	030	MAP	CF		FO		157.0 ()	004.7	AT 01055	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		157.0 ()		AA 01500	
		CI	050		DF	R	FO				AA 02600	
		CI	060		HM	R	FO		157.0 ()	T01.0	AA 02600	
POINT DATA		WAYPOINT		LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS		
		SSM		N462443.60		W0841853.54		N4624.727		W08418.892		
		PINES		N460149.61		W0842912.25		N4601.827		W08429.204		
		CFCHN		N461554.03		W0842907.10		N4615.901		W08429.118		
		CFVFD		N462508.45		W0843650.43		N4625.141		W08436.841		
		KOLOE		N461956.75		W0843229.58		N4619.946		W08432.493		
		RW16		N461522.87		W0842841.15		N4615.381		W08428.686		
		ICIU (LOC)		N461331.59		W0842708.56		N4613.527		W08427.143		
		CI		N461957.08		W0843232.88		N4619.951		W08432.548		
RUNWAY DATA		RWY	THRESHOLD ELEVATION		TCH							
		RW16	00799		58							



CITY AND STATE SAULT STE MARIE, MI	ELEVATION: 799 TDZE: 799 AIRPORT NAME: CHIPPEWA COUNTY INTL	FACILITY IDENTIFIER: I-CIU	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: ILS OR LOC RWY 16, AMDT 8B 5 MARCH 2015	SUP: AMDT: 8A DATED: 03/08/2012

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION NDB STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.27										Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.																			
TERMINAL ROUTES										MISSED APPROACH																			
FROM			TO			COURSE AND DISTANCE				ALTITUDE		MAP: 5.00 MILES AFTER CUI TE																	
PLN VORTAC (IAF)			TATOE INT			032.41 / 30.68				4000		CLIMB TO 2600 DIRECT KOLOE LOM AND HOLD.																	
TATOE INT (IF)			CUI TE INT			336.69 / 5.50 (CI BRG-157)				2400																			
										ADDITIONAL FLIGHT DATA: HOLD NW, RT, 157.00 INBOUND. FAS OBST: 908 TREE 461454N/0842516W CUI TE TO RW34: 2.95/40. CHART IN PLANVIEW ONLY: PLN 30.68 DME AT TATOE.																			
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)										MAG VAR: 7W EPOCH YEAR:2015																			
2. PROFILE STARTS AT TATOE																													
3. FAC 336.69 FAF CUI TE INT _____ DIST FAF TO MAP 5.00 THLD 5.00																													
4. MIN. ALT TATOE 4000, CUI TE 2400																													
8. MSA FROM: CI LOM 135-225 4000, 225-135 3100																													
MINIMUMS																													
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A x																			
CATEGORY =====>		A			B			C			D			E															
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA														
S-34	1220	1	424	1220	1	424	1220	1 1/4	424	1220	1 1/4	424																	
CIRCLING	1260	1	461	1260	1	461	1260	1 1/2	461	1360	2	561																	
NOTES:																													
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED,USE SAULT-STE MARIE MUNI/SANDERSON FIELD ALTIMETER SETTING AND INCREASE ALL MDA 60 FEET AND INCREASE S-34 CAT C/D VISIBILITY TO 1 3/8.																													
QUALITY 16 CHECKED																													
																CITY AND STATE SAULT STE MARIE, MI			ELEVATION: 799 TDZE: 796 AIRPORT NAME: CHIPPEWA COUNTY INTL			FACILITY IDENTIFIER: CI		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: NDB RWY 34, AMDT 5A 5 MARCH 2015				SUP	
																AMDT 5													
DATE 03/20/2003																													

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33		Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.											
TERMINAL ROUTES										MISSED APPROACH					
FROM		TO		COURSE AND DISTANCE				ALTITUDE		LNAV: RW10					
SSM VOR/DME		DACAP (FO)		249.75 / 20.42				3000		CLIMB TO 2900 DIRECT IMAPE AND TRACK 127.95 TO HITAM AND HOLD.					
PLN VORTAC		DACAP (FO)		001.49 / 37.67				3000							
WUYFO (IAF)		DACAP (NOPT) (FB)		127.41 / 11.72				3000							
DACAP (IF/IAF)		ACANO (FB)		097.02 / 5.03				2800							
ACANO (FAF)		RW10 (MAP) (FO)		097.10 / 6.07				2900		ADDITIONAL FLIGHT DATA: HOLD S, RT, 344.97 INBOUND. CHART FAS OBST: 886 TREE 461501N/0842849W ACANO WP TO RW10: 3.05/40. CHART VDP AT 1.53 NM TO RW10.					
RW10 (MAP)		1199 MSL		097.10											
1199 MSL		IMAPE (FB)													
IMAPE		HITAM (FO)		127.95 / 10.55											
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)															
2. HOLD W DACAP, RT, 097.02 INBOUND, 3000 FT. IN LIEU OF PT (IAF)															
3. FAC: 097.10 FAF: ACANO DIST FAF TO MAP: 6.07 THLD: 6.07															
4. MIN. ALT: DACAP 3000, ACANO 2800															
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____															
6. MIN GS INCPT: _____ GS ALT AT: _____ OM: _____ MM: _____ IM: _____															
7. GS ANGLE: _____ TCH: 34:1 IS CLEAR															
8. MSA FROM: RW10 4000															
MAG VAR: 7W EPOCH YEAR: 2015															
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A		STANDARD @			
CATEGORY =====>		A		B		C		D		E					
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LNAV MDA	1320	1	521	1320	1	521	1320	1 1/2	521	1320	1 1/2	521			
CIRCLING	1320	1	521	1320	1	521	1320	1 1/2	521	1360	2	561			
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON SSM VOR/DME AIRWAY RADIALS 162 CW 320. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON PLN VORTAC AIRWAY RADIALS 295 CW 023. CHART NOTE: VDP NA WITH SAULT STE MARIE ALTIMETER SETTING. (SEE FORM 8260-10)															
CITY AND STATE SAULT STE MARIE, MI		ELEVATION: 799 TDZE: 799 AIRPORT NAME: CHIPPEWA COUNTY INTL		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 10, ORIG-A 5 MARCH 2015				SUP: RNAV (GPS) RWY 9 AMDT: ORIG DATED 01/23/2003					

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE SAULT STE MARIE MUNI/SANDERSON FIELD
ALTIMETER SETTING AND INCREASE ALL MDA 60 FEET, INCREASE LNAV VISIBILITY CAT C/D AND CIRCLING CAT
C 1/4 MILE.



CITY AND STATE

SAULT STE MARIE, MI

ELEVATION: 799

TDZE: 799

AIRPORT NAME:

CHIPPEWA COUNTY INTL

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 10, ORIG-A
5 MARCH 2015

SUP:	RNAV (GPS) RWY 9
AMDT:	ORIG
DATED:	01/23/2003

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible]

SUP:	RNAV (GPS) RWY 9
AMDT:	ORIG
DATED:	01/23/2003

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

	1	2	3	4	5	6	7	8	9	0	1	2	3	
MSA	1	2	3	4	5	6	7	8	9	0	1	2	3	

SUSAP	KCIUK5SRW10	K5PG		0	18018004025									M



CITY AND STATE SAULT STE MARIE, MI	ELEVATION: 799	TDZE: 799	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 10, ORIG-A 5 MARCH 2015	SUP: RNAV (GPS) RWY 9
	AIRPORT NAME: CHIPPEWA COUNTY INTL				AMDT: ORIG
					DATED: 01/23/2003

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - FAR PART 97.33												
ARINC SUMMARY - 424-18 - RNAV (GPS)												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	PLN	PLN	010		IF		FB					
	PLN	DACAP	020		TF		FO	2.0	001.5 (354.5T)	037.7	AA 03000	
	PLN	DACAP	030	IAF	HF	R	FO		097.0 (090.0T)	004.0	AA 03000	
	SSM	SSM	010		IF		FB					
	SSM	DACAP	020		TF		FO	2.0	249.8 (242.8T)	020.4	AA 03000	
	SSM	DACAP	030	IAF	HF	R	FO		097.0 (090.0T)	004.0	AA 03000	
	WUYFO	WUYFO	010	IAF	IF		FB					
	WUYFO	DACAP	020		TF		FB	1.0	127.4 (120.4T)	011.7	AA 03000	
		DACAP	010	FACF	IF		FB				AA 03000	
		ACANO	030	FAF	TF		FB	0.5	097.0 (090.0T)	005.0	AA 02800	
		RW10	040	MAP	TF		FO	0.3	097.1 (090.1T)	006.1	AT 00831	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		097.1 (090.1T)		AA 01199	
		IMAPE	050		DF		FB					
		HITAM	060		TF		FO	1.0	128.0 (121.0T)		AA 02900	
		HITAM	070		HM	R	FO		345.0 (338.0T)	004.0	AA 02900	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		PLN	N453750.33		W0843950.79		N4537.839		W08439.847			
		SSM	N462443.60		W0841853.54		N4624.727		W08418.892			
		ACANO	N461519.13		W0843748.51		N4615.319		W08437.809			
		DACAP	N461519.45		W0844503.40		N4615.324		W08445.057			
		HITAM	N460950.89		W0841013.82		N4609.848		W08410.230			
		IMAPE	N461517.10		W0842315.15		N4615.285		W08423.253			
		WUYFO	N462116.38		W0845937.69		N4621.273		W08459.628			
		RW10	N461517.99		W0842903.47		N4615.300		W08429.058			
RUNWAY DATA			THRESHOLD									
		RWY	ELEVATION		TCH							
		RW10	00791		40							



CITY AND STATE SAULT STE MARIE, MI	ELEVATION: 799	TDZE: 799	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP: RNAV (GPS) RWY 9
	AIRPORT NAME: CHIPPEWA COUNTY INTL		RNAV	RNAV (GPS) RWY 10, ORIG-A 5 MARCH 2015	AMDT: ORIG
					DATED: 01/23/2003

RNAV - STANDARD US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION						INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33						Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.											
TERMINAL ROUTES												MISSED APPROACH											
FROM			TO			COURSE AND DISTANCE			ALTITUDE			LPV: DA LNAV/VNAV: DA LNAV: RW16 CLIMB TO 3000 DIRECT CAKRU AND ON TRACK 209.15 TO PINES AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SW, RT, 024.30 INBOUND. CHART FAS OBST: 954 TANK 461547N/0842805W DISTANCE TO THLD FROM 269 HAT: 0.66 NM. CHART VDP AT 1.14 MILES TO RW16* *LNAV ONLY. WAAS CHANNEL # 69215 REFERENCE PATH ID: W16A LTP HAE: 207.1 M											
HITAL (IAF)			JENOT (FB)			066.81 / 5.16			3000														
CATGA (IAF)			JENOT (FB)			250.71 / 6.89			3000														
JENOT (IF)			FATPA (FB)			156.89 / 6.04			2600														
FATPA (FAF)			RW16 (MAP) (FO)			156.94 / 5.39																	
RW16 (MAP)			1068 MSL			156.94																	
1068 MSL			CAKRU (FB)																				
CAKRU			PINES (FO)			209.15 / 8.99			3000														
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT JENOT 3. FAC: 156.94 FAF: FATPA DIST FAF TO MAP: 5.39 THLD: 5.39 4. MIN. ALT: JENOT 3000, FATPA 2600 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 2600 GS ALT AT: FATPA 2600 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 58.0 34:1 IS CLEAR 8. MSA FROM: RW16 4000												MAG VAR: 7W						EPOCH YEAR: 2015					
MINIMUMS																							
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A		STANDARD @											
CATEGORY =====>		A			B			C			D			E									
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA								
LPV DA	1068	1/2	269	1068	1/2	269	1068	1/2	269	1068	1/2	269											
LNAV/VNAV DA	1204	1	405	1204	1	405	1204	1	405	1204	1	405											
LNAV MDA	1220	1/2	421	1220	1/2	421	1220	3/4	421	1220	1	421											
CIRCLING	1260	1	461	1260	1	461	1260	1 1/2	461	1360	2	561											
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 54C (130F). @ NA WHEN LOCAL WEATHER NOT AVAILABLE. CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE SAULT STE MARIE MUNI/SANDERSON FIELD ALTIMETER SETTING AND INCREASE ALL DA 45 FEET AND ALL MDA 60 FEET. (SEE FORM 8260-10)																							
CITY AND STATE				ELEVATION: 799 TDZE: 799				FACILITY IDENTIFIER: RNAV				PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:							
SAULT STE MARIE, MI				AIRPORT NAME:								RNAV (GPS) RWY 16, AMDT 1A				AMDT: 1							
				CHIPPEWA COUNTY INTL								5 MARCH 2015				DATED 10/22/2009							



**RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING SAULT STE MARIE MUNI/SANDERSON FIELD ALTIMETER SETTING.

CHART NOTE: FOR INOPERATIVE MALSR, INCREASE LPV ALL CATS, LNAV/VNAV ALL CATS AND LNAV CATS A/B/C 1/2 MILE; INCREASE LNAV CAT D 1/4 MILE.

CHART NOTE: FOR INOPERATIVE MALSR, WHEN USING SAULT STE MARIE MUNI/SANDERSON FIELD ALTIMETER SETTING, INCREASE LPV ALL CATS, LNAV/VNAV ALL CATS AND LNAV ALL CATS 1/2 MILE.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL AT HITAL VIA V316 WEST BOUND.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL AT CATGA VIA V300 SOUTHEAST BOUND.



CITY AND STATE

SAULT STE MARIE, MI

ELEVATION: 799

TDZE: 799

AIRPORT NAME:

CHIPPEWA COUNTY INTL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 16, AMDT 1A

5 MARCH 2015

SUP:

AMDT: 1

DATED: 10/22/2009

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KCIU
RUNWAY	RW16
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W16A
LTP/FTP LATITUDE	461522.8710N
LTP/FTP LONGITUDE	0842841.1470W
LTP/FTP ELLIPSOIDAL HEIGHT	+02071
FPAP LATITUDE	461405.7370N
FPAP LONGITUDE	0842736.9480W
THRESHOLD CROSSING HEIGHT (TCH)	00058.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0552
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 F6FF3FE4

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02434
FPAP ORTHOMETRIC HEIGHT	+02434

QUALITY
17
CHECKED

CITY AND STATE SAULT STE MARIE, MI	ELEVATION: 799 AIRPORT NAME: CHIPPEWA COUNTY INTL	TDZE: 799 FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 16, AMDT 1A 5 MARCH 2015	SUP:
				AMDT: 1
				DATED: 10/22/2009

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible]

SUP:	
AMDT:	1
DATED:	10/22/2009

SUSAP KCIUK5SRW16 K5PG018018004025M

CITY AND STATE SAULT STE MARIE, MI	ELEVATION: 799 AIRPORT NAME: CHIPPEWA COUNTY INTL	TDZE: 799 RNAV	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 16, AMDT 1A 5 MARCH 2015	SUP:	QUALITY 17 CHECKED
					AMDT:	1
					DATED:	10/22/2009

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - FAR PART 97.33												
ARINC SUMMARY - 424-18 - RNAV (GPS)												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	CATGA	CATGA	010	IAF	IF		FB					
	CATGA	JENOT	020		TF		FB	1.0	250.7 (243.7T)	006.9	AA 03000	
	HITAL	HITAL	010	IAF	IF		FB					
	HITAL	JENOT	020		TF		FB	1.0	066.8 (059.8T)	005.2	AA 03000	
		JENOT	010	FACF	IF		FB				AA 03000	
		FATPA	020	FAF	TF		FB	0.5	156.9 (149.9T)	006.0	AA 02600	
		RW16	030	MAP	TF		FO	0.3	156.9 (149.9T)	005.4	AT 00857	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		156.9 (149.9T)		AA 01068	
		CAKRU	050		DF		FB					
		PINES	060		TF		FO	1.0	209.2 (202.2T)		AA 03000	
		PINES	070		HM	R	FO		024.3 (017.3T)	004.0	AA 03000	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		CAKRU	N461009.16		W0842420.41		N4610.153		W08424.340			
		CATGA	N462819.54		W0842801.53		N4628.326		W08428.026			
		FATPA	N462002.95		W0843234.75		N4620.049		W08432.579			
		HITAL	N462240.70		W0844324.02		N4622.678		W08443.400			
		JENOT	N462516.23		W0843656.96		N4625.271		W08436.949			
		PINES	N460149.61		W0842912.25		N4601.827		W08429.204			
		RW16	N461522.87		W0842841.15		N4615.381		W08428.686			
RUNWAY DATA		RWY	THRESHOLD ELEVATION		TCH							
		RW16	00799		58							

CITY AND STATE SAULT STE MARIE, MI	ELEVATION: 799	TDZE: 799	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:	
	AIRPORT NAME: CHIPPEWA COUNTY INTL		RNAV	RNAV (GPS) RWY 16, AMDT 1A	5 MARCH 2015	AMDT: 1
					DATED: 10/22/2009	

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33							Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.								
TERMINAL ROUTES										MISSED APPROACH					
FROM		TO			COURSE AND DISTANCE			ALTITUDE		LNAV: RW28 CLIMB TO 3000 DIRECT DACAP AND TRACK 307.59 TO WUYFO AND HOLD. ADDITIONAL FLIGHT DATA: HOLD W, RT, 090.27 INBOUND. CHART FAS OBST: 959 TANK 461547N/0842805W APOCA TO RW28: 3.05/40.					
SSM VOR/DME		DACAN (FO)			164.30 / 10.28			2900							
PLN VORTAC		DACAN (FO)			033.29 / 41.79			2900							
HITAM (IAF)		DACAN (NOPT) (FB)			346.26 / 5.77			2900							
DACAN (IF/IAF)		APOCA (FB)			277.41 / 5.07			2500							
APOCA (FAF)		RW28 (MAP) (FO)			277.06 / 5.13										
RW28 (MAP)		1199 MSL			277.06										
1199 MSL		DACAP (FB)													
DACAP		WUYFO (FO)			307.59 / 11.72			3000							
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD E DACAN, RT, 277.41 INBOUND, 2900 FT. IN LIEU OF PT (IAF) 3. FAC: 277.06 FAF: APOCA DIST FAF TO MAP: 5.13 THLD: 5.13 4. MIN. ALT: DACAN 2900, APOCA 2500 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: _____ GS ALT AT: _____ OM: _____ MM: _____ IM: _____ 7. GS ANGLE: _____ TCH: 34:1 IS NOT CLEAR 8. MSA FROM: RW28 4000															
										MAG VAR: 7W			EPOCH YEAR: 2015		
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		STANDARD @						
CATEGORY >>>>>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LNAV MDA	1220	1	421	1220	1	421	1220	1 1/4	421	1220	1 1/4	421			
CIRCLING	1260	1	461	1260	1	461	1260	1 1/2	461	1360	2	561			
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON SSM VOR/DME AIRWAY RADIALS 080 CW 162. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE SAULT STE MARIE MUNI/SANDERSON FIELD (SEE FORM 8260-10)															
CITY AND STATE SAULT STE MARIE, MI				ELEVATION: 799 TDZE: 799 AIRPORT NAME: CHIPPEWA COUNTY INTL			FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 28, ORIG-A 5 MARCH 2015				SUP: RNAV (GPS) RWY 27		
													AMDT: ORIG		
													DATED 01/23/2003		



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION			Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.	
RNAV - STANDARD				
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33				
NOTES, (CONT.): ALTIMETER SETTING AND INCREASE ALL MDA 60 FEET, INCREASE LNAV AND CIRCLING VISIBILITY CAT C/D 1/4 MILE CHART NOTE: NIGHT LANDING: RWY 28 NA.				
QUALITY 16 CHECKED				
CITY AND STATE	ELEVATION: 799	TDZE: 799	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
SAULT STE MARIE, MI	AIRPORT NAME:		RNAV	RNAV (GPS) RWY 28, ORIG-A
	CHIPPEWA COUNTY INTL			5 MARCH 2015
			SUP: RNAV (GPS) RWY 27	
			AMDT: ORIG	
			DATED: 01/23/2003	

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KCIUK5FR28	AHITAM	010HITAMK5EA0E	A	IF					18000		B JS	
SUSAP	KCIUK5FR28	AHITAM	020DACANK5EA0EE	B	010TF		34630058	+	02900			B JS	
SUSAP	KCIUK5FR28	APLN	010PLN K5D 0V		IF					18000		B JS	
SUSAP	KCIUK5FR28	APLN	020DACANK5EA0EY		020TF		03330418	+	02900			B JS	
SUSAP	KCIUK5FR28	APLN	030DACANK5EA0EE	AR	HF		27740040	+	02900			B JS	
SUSAP	KCIUK5FR28	ASSM	010SSM K5D 0V		IF					18000		B JS	
SUSAP	KCIUK5FR28	ASSM	020DACANK5EA0EY		020TF		16430103	+	02900			B JS	
SUSAP	KCIUK5FR28	ASSM	030DACANK5EA0EE	AR	HF		27740040	+	02900			B JS	
SUSAP	KCIUK5FR28	R	010DACANK5EA0E	I	IF			+	02900	18000		B JS	
SUSAP	KCIUK5FR28	R	020APOCAK5EA1E	F	051TF		27740051	+	02500		RW28 K5PGB	JS	
SUSAP	KCIUK5FR28	R	020APOCAK5EA2WN			N	ALNAV					JS	
SUSAP	KCIUK5FR28	R	030RW28 K5PGOGY	M	031TF		27710051		00839	-305		B JS	
SUSAP	KCIUK5FR28	R	040 0 M		CA		2771	+	01199			B JS	
SUSAP	KCIUK5FR28	R	050DACAPK5EA0E		DF							B JS	
SUSAP	KCIUK5FR28	R	060WUYFOK5EA0EY		010TF		3076	+	03000			B JS	
SUSAP	KCIUK5FR28	R	070WUYFOK5EA0EE	R	HM		09030040	+	03000			B JS	

QUALITY
16
CHECKED

FAA FORM 8260 - 10 / April 2006 (Computer Generated) Page 3 of 5 Pages

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

QUALITY
16
CHECKED

CITY AND STATE SAULT STE MARIE, MI	ELEVATION: 799 AIRPORT NAME: CHIPPEWA COUNTY INTL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 28, ORIG-A 5 MARCH 2015	RNAV (GPS) RWY 27	
				SUP:	
				AMDT:	ORIG
				DATED:	01/23/2003

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - FAR PART 97.33												
ARINC SUMMARY - 424-18 - RNAV (GPS)												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	HITAM	HITAM	010	IAF	IF		FB					
	HITAM	DACAN	020		TF		FB	1.0	346.3 (339.3T)	005.8	AA 02900	
	PLN	PLN	010		IF		FB					
	PLN	DACAN	020		TF		FO	2.0	033.3 (026.3T)	041.8	AA 02900	
	PLN	DACAN	030	IAF	HF	R	FO		277.4 (270.4T)	004.0	AA 02900	
	SSM	SSM	010		IF		FB					
	SSM	DACAN	020		TF		FO	2.0	164.3 (157.3T)	010.3	AA 02900	
	SSM	DACAN	030	IAF	HF	R	FO		277.4 (270.4T)	004.0	AA 02900	
		DACAN	010	FACF	IF		FB				AA 02900	
		APOCA	020	FAF	TF		FB	0.5	277.4 (270.4T)	005.1	AA 02500	
		RW28	030	MAP	TF		FO	0.3	277.1 (270.1T)	005.1	AT 00839	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		277.1 (270.1T)		AA 01199	
		DACAP	050		DF		FB					
		WUYFO	060		TF		FO	1.0	307.6 (300.6T)		AA 03000	
		WUYFO	070		HM	R	FO		090.3 (083.3T)	004.0	AA 03000	
POINT DATA		WAYPOINT		LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS		
		PLN		N453750.33		W0843950.79		N4537.839		W08439.847		
		SSM		N462443.60		W0841853.54		N4624.727		W08418.892		
		APOCA		N461516.46		W0842028.46		N4615.274		W08420.474		
		DACAN		N461514.54		W0841310.51		N4615.242		W08413.175		
		DACAP		N461519.45		W0844503.40		N4615.324		W08445.057		
		HITAM		N460950.89		W0841013.82		N4609.848		W08410.230		
		WUYFO		N462116.38		W0845937.69		N4621.273		W08459.628		
		RW28		N461518.02		W0842752.32		N4615.300		W08427.872		
RUNWAY DATA				THRESHOLD								
		RWY		ELEVATION		TCH						
		RW28	00799			40						



CITY AND STATE SAULT STE MARIE, MI	ELEVATION: 799	TDZE: 799	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP: RNAV (GPS) RWY 27
	AIRPORT NAME: CHIPPEWA COUNTY INTL		RNAV	RNAV (GPS) RWY 28, ORIG-A 5 MARCH 2015	AMDT: ORIG
					DATED: 01/23/2003

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33						Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.														
TERMINAL ROUTES											MISSED APPROACH									
FROM		TO		COURSE AND DISTANCE			ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW34 CLIMB TO 3000 DIRECT FATPA AND TRACK 070.66 TO SSM VOR/DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NE, RT, 219.00 INBOUND. CHART FAS OBST: 899 TREE 461353N/0842706W DISTANCE TO THLD FROM 250 HAT: 0.67 NM. CHART VDP AT 1.15 MILES TO RW34* *LNAV ONLY. WAAS CHANNEL # 56315 REFERENCE PATH ID: W34A LTP HAE: 205.5 M											
HITAM (IAF)		COLGO (FB)		241.39 / 8.40			4000													
PINES (IAF)		COLGO (FB)		070.84 / 7.11			4000													
COLGO (IF)		CAKRU (FB)		337.09 / 6.00			2400													
CAKRU (FAF)		RW34 (MAP) (FO)		337.04 / 4.85																
RW34 (MAP)		1046 MSL		337.04																
1046 MSL		FATPA (FB)																		
FATPA		SSM VOR/DME (FO)		070.66 / 10.57			3000													
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT COLGO 3. FAC: 337.04 FAF: CAKRU DIST FAF TO MAP: 4.85 THLD: 4.85 4. MIN. ALT: COLGO 4000, CAKRU 2400 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 2400 GS ALT AT: CAKRU 2400 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS CLEAR 8. MSA FROM: RW34 4000											MAG VAR: 7W					EPOCH YEAR: 2015				
MINIMUMS																				
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		STANDARD @											
CATEGORY =====>		A		B			C			D			E							
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA					
LPV DA	1046	1	250	1046	1	250	1046	1	250	1046	1	250								
LNAV/VNAV DA	1198	1 1/2	402	1198	1 1/2	402	1198	1 1/2	402	1198	1 1/2	402								
LNAV MDA	1200	1	404	1200	1	404	1200	1 1/4	404	1200	1 1/4	404								
CIRCLING	1260	1	461	1260	1	461	1260	1 1/2	461	1360	2	561								
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 54C (130F). @ NA WHEN LOCAL WEATHER NOT AVAILABLE. CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE SAULT STE MARIE MUNI/SANDERSON FIELD ALTIMETER SETTING AND INCREASE ALL DA 45 FEET AND ALL MDA 60 FEET; INCREASE LNAV CAT D VISIBILITY (SEE FORM 8260-10)																				
CITY AND STATE				ELEVATION: 799 TDZE: 796			FACILITY IDENTIFIER:			PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:						
SAULT STE MARIE, MI				AIRPORT NAME:			RNAV			RNAV (GPS) RWY 34, AMDT 1A				AMDT: 1						
				CHIPPEWA COUNTY INTL						5 MARCH 2015				DATED 10/22/2009						

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):

1/4 MILE.

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING SAULT STE MARIE MUNI/SANDERSON FIELD ALTIMETER SETTING.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL AT PINES VIA V193 SOUTH BOUND.

QUALITY
17
CHECKED

CITY AND STATE

SAULT STE MARIE, MI

ELEVATION: 799

TDZE: 796

AIRPORT NAME:

CHIPPEWA COUNTY INTL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 34, AMDT 1A

5 MARCH 2015

SUP:

AMDT: 1

DATED: 10/22/2009

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION**DATA FIELD****DATA**

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KCIU
RUNWAY	RW34
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W34A
LTP/FTP LATITUDE	461421.3170N
LTP/FTP LONGITUDE	0842749.9090W
LTP/FTP ELLIPSOIDAL HEIGHT	+02055
FPAP LATITUDE	461538.4495N
FPAP LONGITUDE	0842854.1175W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0552
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER

16AFF93F

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02418
FPAP ORTHOMETRIC HEIGHT	+02418

QUALITY
17
CHECKED

CITY AND STATE

SAULT STE MARIE, MI

ELEVATION: 799

TDZE: 796

AIRPORT NAME:

CHIPPEWA COUNTY INTL

 FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 34, AMDT 1A

5 MARCH 2015

SUP:

AMDT: 1

DATED: 10/22/2009

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible][illegible][illegible][illegible][illegible][illegible]

56789012
QUALITY
16
CHECKED

CITY AND STATE SAULT STE MARIE, MI	ELEVATION: 799 TDZE: 796 AIRPORT NAME: CHIPPEWA COUNTY INTL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 34, AMDT 1A 5 MARCH 2015	SUP:
				AMDT: 1
				DATED: 10/22/2009

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible]

QUALITY
16
CHECKED

CITY AND STATE SAULT STE MARIE, MI	ELEVATION: 799 AIRPORT NAME: CHIPPEWA COUNTY INTL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
			RNAV (GPS) RWY 34, AMDT 1A	AMDT: 1
			5 MARCH 2015	DATED: 10/22/2009

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - FAR PART 97.33												
ARINC SUMMARY - 424-18 - RNAV (GPS)												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	HITAM	HITAM	010	IAF	IF		FB					
	HITAM	COLGO	020		TF		FB	1.0	241.4 (234.4T)	008.4	AA 04000	
	PINES	PINES	010	IAF	IF		FB					
	PINES	COLGO	020		TF		FB	1.0	070.8 (063.8T)	007.1	AA 04000	
		COLGO	010	FACF	IF		FB				AA 04000	
		CAKRU	020	FAF	TF		FB	0.5	337.1 (330.1T)	006.0	AA 02400	
		RW34	030	MAP	TF		FO	0.3	337.0 (330.0T)	004.9	AT 00833	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		337.0 (330.0T)		AA 01046	
		FATPA	050		DF		FB					
		SSM	060		TF		FO	1.0	070.7 (063.7T)		AA 03000	
		SSM	070		HM	R	FO		219.0 (212.0T)	004.0	AA 03000	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		SSM	N462443.60		W0841853.54		N4624.727		W08418.892			
		CAKRU	N461009.16		W0842420.41		N4610.153		W08424.340			
		COLGO	N460457.27		W0842002.15		N4604.955		W08420.036			
		FATPA	N462002.95		W0843234.75		N4620.049		W08432.579			
		HITAM	N460950.89		W0841013.82		N4609.848		W08410.230			
		PINES	N460149.61		W0842912.25		N4601.827		W08429.204			
		RW34	N461421.32		W0842749.91		N4614.355		W08427.832			
RUNWAY DATA		RWY	THRESHOLD ELEVATION		TCH							
		RW34	00793		40							



CITY AND STATE SAULT STE MARIE, MI	ELEVATION: 799	TDZE: 796	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: CHIPPEWA COUNTY INTL		RNAV	RNAV (GPS) RWY 34, AMDT 1A	AMDT: 1
				5 MARCH 2015	DATED: 10/22/2009

U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)

Bearings, headings, courses, tracks and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated.
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

City, State	Airport	Effective Date	Amdt. No.
SAULT STE MARIE, MI	CHIPPEWA COUNTY INTL	5 MARCH 2015	ORIG-A

TAKEOFF MINIMUMS:

RWY 10,16, 28, 34, STANDARD

TEXTUAL DEPARTURE PROCEDURES:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 10, POLES BEGINNING 156 FT FROM DER, 518 FT LEFT AND 439 FT RIGHT OF CENTERLINE UP TO 45 FT AGL/839 FT MSL. BUILDINGS BEGINNING 379 FT FROM DER, 532 FT RIGHT OF CENTERLINE, UP TO 55 FT AGL/848 FT MSL. BUILDING 416 FT FROM DER, 503 FT LEFT OF CENTERLINE, 31 FT AGL/823 FT MSL. TREES BEGINNING 348 FT FROM DER, 456 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/899 FT MSL. TANK 1475 FT FROM DER, 75 FT RIGHT OF CENTERLINE, 49 FT AGL/842 FT MSL.

NOTE: RWY 16, TREES BEGINNING 3645 FT FROM DER, EXTENDING FROM 1018 FT RIGHT OF CENTERLINE TO 1221 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/899 FT MSL.

NOTE: RWY 28, VERTICAL STRUCTURE, 11 FT FROM DER, 4 FT RIGHT OF CENTERLINE, 2 FT AGL/794 FT MSL. NATURAL HIGH POINT, 33 FT FROM DER, 355 FT LEFT OF CENTERLINE, 0 FT AGL/793 FT MSL. VEHICLE ON ROAD, 412 FT FROM DER, 510 FT LEFT OF CENTERLINE, UP TO 15 FT AGL/804 FT MSL. TREES BEGINNING 520 FT FROM DER, EXTENDING FROM 581 FT LEFT OF CENTERLINE TO 827 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/879 FT MSL.

CONTROLLING OBSTACLES:



U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)

Bearings, headings, courses, tracks and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated.
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

City, State	Airport	Effective Date	Amdt. No.
SAULT STE MARIE, MI	CHIPPEWA COUNTY INTL	5 MARCH 2015	ORIG-A

REMARKS:

<u>FLIGHT INSPECTED BY:</u>	<i>Digitally signed by</i> JACOB POWERS Jan 23, 2015	<u>REQUIRED EFFECTIVE DATE:</u>
FLIGHT INSPECTION NOT REQUIRED, GEORGE L. GONZALEZ	AJV-353 08/17/2009	CONCURRENT WITH KCIU ILS OR LOC RWY 16 AMDT 8B.
<u>DEVELOPED BY:</u>	<i>Digitally signed by</i> JACOB POWERS Dec 22, 2014	
JEROME A MCCULLOUGH	AJV-353 10/28/2014	
<u>APPROVED BY:</u>	<i>Digitally signed by</i> JACOB POWERS Jan 23, 2015	
GEORGE GONZALEZ	AJV-353	
<u>COORDINATED WITH:</u>		

CHANGES:

1. CHANGED ALL REFERENCE RWY 9/27 TO RWY 10/28.
2. UPDATED TAKEOFF OBSTACLE NOTES.

REASONS:

1. AIRPORT MAGVAR CHANGED FROM 6W TO 7W.
2. NEW SURVEY



ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29							Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.									
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO		COURSE AND DISTANCE			ALTITUDE		ILS: DA LOC: 6.62 MILES AFTER WASHY INT/7.77 DME/RADAR OR AT 1.15 DME FIX CLIMB TO 1300, THEN CLIMBING LEFT TURN TO 3000 ON MSP VOR/DME R-096 TO KANAC INT/MSP 13.13 DME AND HOLD, OR AS DIRECTED BY ATC. ALTERNATE MA: CLIMB TO 1300, THEN CLIMBING LEFT TURN TO 3000 ON HEADING 080 AND GEP VORTAC R-125 TO KANAC INT/GEP 25.16 DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD E, RT, 275.59 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD SE KANAC INT/GEP 25.16 DME, RT, 305.47 INBOUND. CHART FAS OBST: 951 TREE 445416N/0931534W CHART VDP AT 2.16 DME* ; DISTANCE VDP TO THLD 1.01 MILES. *LOC ONLY. CHART CIRCLING ICON.							
CCJAY INT/20.33 DME (IAF)		UBTYA INT/17.19 DME		121.33 / 3.14 (I-PJL)			6000									
UBTYA INT/17.19 DME		ALGIN INT/14.05 DME		121.33 / 3.14 (I-PJL)			5000									
ALGIN INT/14.05 DME (IF)		HAMML INT/10.91 DME		121.33 / 3.14 (I-PJL)			4000									
HAMML INT/10.91 DME		WASHY INT/7.77 DME/RADAR		121.33 / 3.14 (I-PJL)			3000									
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. PROFILE STARTS AT CCJAY 3. FAC: <u>121.33</u> FAF: WASHY INT/7.77 DME/RADAR DIST FAF TO MAP: <u>6.62</u> THLD: <u>6.62</u> 4. MIN. ALT: CCJAY 7000, UBTYA 6000, ALGIN 5000, HAMML 4000, WASHY 3000, AASUN/2.85 DME/RADAR 1420* 5. DIST TO THLD FROM OM: <u> </u> - <u> </u> MM: <u> </u> - <u> </u> IM: <u>902</u> 150 HAT: <u>1874</u> 100 HAT: <u>920</u> GS ANT: <u>1345</u> 6. MIN GS INCPT: <u>3000</u> GS ALT AT: WASHY 3000 OM: <u> </u> - <u> </u> MM: <u> </u> - <u> </u> IM: <u>938</u> 7. GS ANGLE: <u>3.00</u> TCH: 52.2 8. MSA FROM: MSP VOR/DME 090-270 2800, 270-090 3500										MAG VAR: 0E		EPOCH YEAR: 2015				
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		ILS: #		LOC: STANDARD @					
CATEGORY =====>		A		B		C		D		E						
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
S-ILS 12L	1039	1800	200	1039	1800	200	1039	1800	200	1039	1800	200	1039	1800	200	
S-LOC 12L	1420	2400	581	1420	2400	581	1420	1 1/4	581	1420	1 1/4	581	1420	1 1/4	581	
CIRCLING	1420	1	578	1420	1	578	1460	1 3/4	618	1660	2 3/4	818	1800	3	958	
AASUN FIX MINIMUMS																
S-LOC 12L	1240	2400	401	1240	2400	401	1240	4000	401	1240	4000	401	1240	4000	401	
CIRCLING	1360	1	518	1360	1	518	1460	1 3/4	618	1660	2 3/4	818	1800	3	958	
NOTES: SA CATEGORY I ILS SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED S-ILS 12L: CAT A, B, C, D, RA 147, RVR 1400, HAT 150, DA 989 MSL. CATEGORY II ILS SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED S-ILS 12L: CAT A, B, C, D, RA 91, RVR 1200, HAT 100, DA 939 MSL. (SEE FORM 8260-10)																
CITY AND STATE		ELEVATION: 842 TDZE: 839		FACILITY IDENTIFIER:		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:						SUP:				
MINNEAPOLIS, MN		AIRPORT NAME:		I-PJL		ILS OR LOC RWY 12L, AMDT 10 3/5/2015						AMDT: 9				
		MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN				ILS RWY 12L (SA CAT I)						DATED 05/02/2013				
						ILS RWY 12L (CAT II), ILS RWY 12L (CAT III)										



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION			Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.		
ILS - STANDARD					
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29					
NOTES, (CONT.): CATEGORY III ILS SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED. S-ILS- 12L: CAT IIIa CAT A,B,C,D, RVR 700. CAT IIIb CAT A,B,C,D, RVR 600. CAT IIIc NA. CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 12R. CHART NOTE: FOR INOPERATIVE ALSF, INCREASE S-ILS 12L CAT E VISIBILITY TO RVR 4000, S-LOC 12L CAT E VISIBILITY TO 1 3/4 MILE. AASUN FIX MINIMUMS: INCREASE S-LOC 12L CAT C/D/E VISIBILITY TO 1 1/8 MILE. CHART PLANVIEW: RADAR REQUIRED. CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT. SA CAT I CHART NOTE: REQUIRES SPECIFIC OPSEC, MSPEC, OR LOA APPROVAL AND USE OF HUD TO DH. CAT II RVR 1000 CHART NOTE: RVR 1000 AUTHORIZED WITH SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF AUTOLAND OR HUD TO TOUCHDOWN.					
CITY AND STATE MINNEAPOLIS, MN	ELEVATION: 842	TDZE: 839	FACILITY IDENTIFIER: I-PJL	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 12L, AMDT 10 3/5/2015 ILS RWY 12L (SA CAT I) ILS RWY 12L (CAT II) , ILS RWY 12L (CAT III)	SUP:
	AIRPORT NAME: MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN				AMDT: 9
					DATED: 05/02/2013



U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
ILS STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29												
ARINC SUMMARY - 424-18 - ILS												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	CCJAY	CCJAY	010	IAF	IF		FB				AA 07000	
	CCJAY	UBTYA	020		TF		FB				AA 06000	
	CCJAY	ALGIN	030		TF		FB				AA 05000	
	CCJAY	HAMML	040		CF		FB		121.3 ()	003.1	AA 04000	
		HAMML	010	FACF	IF		FB				AA 04000	GI 03000
		WASHY	020	FAF	CF		FB		121.0 ()	003.1	GI 03000	GS 03000
		RW12L	030	MAP	CF		FO		121.0 ()	006.6	AT 00891	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		121.3 ()		AA 01300	
		KANAC	050		CF		FO		095.6 ()	012.0	AA 03000	
		KANAC	060		HM	R	FO		275.6 ()	T01.0	AA 03000	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		MSP	N445347.40		W0931411.53		N4453.790		W09314.192			
		KANAC	N445201.91		W0925553.14		N4452.032		W09255.886			
		ALGIN	N450016.07		W0932847.59		N4500.268		W09328.793			
		CCJAY	N450330.66		W0933622.44		N4503.511		W09336.374			
		HAMML	N445838.58		W0932500.46		N4458.643		W09325.008			
		UBTYA	N450153.43		W0933234.92		N4501.891		W09332.582			
		WASHY	N445700.96		W0932113.54		N4457.016		W09321.226			
		RW12L	N445334.63		W0931315.57		N4453.577		W09313.260			
		IPJL (LOC)	N445250.33		W0931133.25		N4452.839		W09311.554			
RUNWAY DATA			THRESHOLD									
	RWY	ELEVATION		TCH								
	RW12L	00839		52								



CITY AND STATE MINNEAPOLIS, MN	ELEVATION: 842	TDZE: 839	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN		I-PJL	ILS OR LOC RWY 12L, AMDT 10 3/5/2015 ILS RWY 12L (SA CAT I)	AMDT: 9
				ILS RWY 12L (CAT II), ILS RWY 12L (CAT III)	DATED: 05/02/2013

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
LOC STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25												
ARINC SUMMARY - 424-18 - LOC												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	CCJAY	CCJAY	010	IAF	IF		FB				AA 07000	
	CCJAY	UBTYA	020		TF		FB				AA 06000	
	CCJAY	ALGIN	030		TF		FB				AA 05000	
	CCJAY	HAMML	040		CF		FB		121.3 ()	003.1	AA 04000	
		HAMML	010	FACF	IF		FB				AA 04000	
		WASHY	020	FAF	CF		FB		121.0 ()	003.1	AA 03000	
		AASUN	021	SDF	CF		FB		121.0 ()	004.9	AA 01420	
		RW12L	030	MAP	CF		FO		121.0 ()	001.7	AT 00891	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		121.3 ()		AA 01300	
		KANAC	050		CF		FO		095.6 ()	012.0	AA 03000	
		KANAC	060		HM	R	FO		275.6 ()	T01.0	AA 03000	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		MSP	N445347.40		W0931411.53		N4453.790		W09314.192			
		KANAC	N445201.91		W0925553.14		N4452.032		W09255.886			
		AASUN	N445427.64		W0931518.16		N4454.461		W09315.303			
		ALGIN	N450016.07		W0932847.59		N4500.268		W09328.793			
		CCJAY	N450330.66		W0933622.44		N4503.511		W09336.374			
		HAMML	N445838.58		W0932500.46		N4458.643		W09325.008			
		UBTYA	N450153.43		W0933234.92		N4501.891		W09332.582			
		WASHY	N445700.96		W0932113.54		N4457.016		W09321.226			
		RW12L	N445334.63		W0931315.57		N4453.577		W09313.260			
		IPJL (LOC)	N445250.33		W0931133.25		N4452.839		W09311.554			
RUNWAY DATA		RWY	THRESHOLD ELEVATION		TCH							
		RW12L	00839		52							



CITY AND STATE MINNEAPOLIS, MN	ELEVATION: 842	TDZE: 839	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN		I-PJL	ILS OR LOC RWY 12L, AMDT 10 3/5/2015	AMDT: 9
	ILS RWY 12L (SA CAT I)			DATED: 05/02/2013	
ILS RWY 12L (CAT II), ILS RWY 12L (CAT III)					

ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29						Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.										
TERMINAL ROUTES											MISSED APPROACH					
FROM			TO			COURSE AND DISTANCE			ALTITUDE		ILS: DA LOC: 6.62 MILES AFTER KINNS INT/I-HKZ 8.08 DME/RADAR OR AT I-HKZ 1.46 DME FIX CLIMB TO 1300 THEN CLIMBING RIGHT TURN TO 3000 DIRECT FGT VORTAC AND HOLD, OR AS DIRECTED BY ATC. ALTERNATE MA: CLIMB TO 1300 THEN CLIMBING RIGHT TURN TO 3000 DIRECT FCM VOR/DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD S, RT, 358.03 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD W FCM VOR/DME, RT, 085.00 INBOUND. CHART FAS OBST: 949 TOWER 445330N/0931505W CHART VDP AT 2.50 DME* ; DISTANCE VDP TO THLD 1.04 MILES. *LOC ONLY. CHART IN PLANVIEW: FCM VOR/DME. CHART CIRCLING ICON.					
PAETN INT/I-HKZ 20.64 DME (IAF)			UTHNK INT/I-HKZ 17.50 DME			121.33 / 3.14 (I-HKZ)			6000							
UTHNK INT/I-HKZ 17.50 DME			WAYZA INT/I-HKZ 14.36 DME			121.33 / 3.14 (I-HKZ)			5000							
WAYZA INT/I-HKZ 14.36 DME (IF)			ZESTY INT/I-HKZ 11.22 DME/RADAR			121.33 / 3.14 (I-HKZ)			4000							
ZESTY INT/I-HKZ 11.22 DME/RADAR			KINNS INT/I-HKZ 8.08 DME/RADAR			121.33 / 3.14 (I-HKZ)			3000							
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. PROFILE STARTS AT PAETN 3. FAC: <u>121.33</u> FAF: KINNS INT/I-HKZ 8.08 DME/RADAR DIST FAF TO MAP: <u>6.62</u> THLD: <u>6.62</u> 4. MIN. ALT: PAETN 7000, UTHNK 6000, WAYZA 5000, ZESTY 4000, KINNS 3000, WABBS/3.16 DME/RADAR 1420* 5. DIST TO THLD FROM OM: <u> </u> - <u> </u> MM: <u> </u> - <u> </u> IM: <u>859</u> 150 HAT: <u>1910</u> 100 HAT: <u>957</u> GS ANT: <u>1029</u> 6. MIN GS INCPT: <u>3000</u> GS ALT AT: KINNS 3000 OM: <u> </u> - <u> </u> MM: <u> </u> - <u> </u> IM: <u>937</u> 7. GS ANGLE: <u>3.00</u> TCH: 50.0 8. MSA FROM: MSP VOR/DME 090-270 2800, 270-090 3500											MAG VAR: 0E		EPOCH YEAR: 2015			
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		ILS: STANDARD #		LOC: STANDARD @					
CATEGORY =====>		A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
S-ILS 12R	1042	1800	200	1042	1800	200	1042	1800	200	1042	1800	200	1042	1800	200	
S-LOC 12R	1420	2400	578	1420	2400	578	1420	1 1/4	578	1420	1 1/4	578	1420	1 1/4	578	
CIRCLING	1420	1	578	1420	1	578	1460	1 3/4	618	1660	2 3/4	818	1800	3	958	
WABBS FIX MINIMUMS																
S-LOC 12R	1240	2400	398	1240	2400	398	1240	3500	398	1240	3500	398	1240	3500	398	
CIRCLING	1360	1	518	1360	1	518	1460	1 3/4	618	1660	2 3/4	818	1800	3	958	
NOTES: SA CATEGORY I ILS SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED S-ILS 12R: CAT A, B, C, D, RA 168, RVR 1400, HAT 150, DA 992 MSL. CATEGORY II ILS SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED S-ILS 12R: CAT A, B, C, D, RA 102, RVR 1200, HAT 100, DA 942 MSL.(SEE FORM 8260-10)																
CITY AND STATE				ELEVATION: 842 TDZE: 842				FACILITY IDENTIFIER:		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:		
MINNEAPOLIS, MN				AIRPORT NAME: MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN				I-HKZ		ILS OR LOC RWY 12R, AMDT 11 3/5/2015 ILS RWY 12R (SA CAT I) ILS RWY 12R (CAT II) , ILS RWY 12R (CAT III)				AMDT: 10A		
														DATED 06/27/2013		



INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

CAT II RVR 1000 CHART NOTE: RVR 1000 AUTHORIZED WITH SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF AUTOLAND OR HUD TO TOUCHDOWN.

QUALITY
5
CHECKED

CITY AND STATE MINNEAPOLIS, MN	ELEVATION: 842	TDZE: 842	FACILITY IDENTIFIER: I-HKZ	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
	AIRPORT NAME:			ILS OR LOC RWY 12R, AMDT 11 3/5/2015	AMDT: 10
	MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN			ILS RWY 12R (SA CAT I) ILS RWY 12R (CAT II) , ILS RWY 12R (CAT III)	DATED: 06/27/2013

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
ILS STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29												
ARINC SUMMARY - 424-18 - ILS												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	PAETN	PAETN	010	IAF	IF		FB				AA 07000	
	PAETN	UTHNK	020		TF		FB				AA 06000	
	PAETN	WAYZA	030		TF		FB				AA 05000	
	PAETN	ZESTY	040		CF		FB		121.3 ()	003.1	AA 04000	
		ZESTY	010	FACF	IF		FB				AA 04000	GI 03000
		KINNS	020	FAF	CF		FB		121.0 ()	003.1	GI 03000	GS 03000
		RW12R	030	MAP	CF		FO		121.0 ()	006.6	AT 00892	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		121.3 ()		AA 01300	
		FGT	050		DF		FO				AA 03000	
		FGT	060		HM	R	FO		358.0 ()	T01.0	AA 03000	
POINT DATA		WAYPOINT	LAT IN SECS			LONG IN SECS			LAT IN MINS		LONG IN MINS	
		FGT	N443751.40			W0931055.39			N4437.857		W09310.923	
		MSP	N445347.40			W0931411.53			N4453.790		W09314.192	
		KINNS	N445642.28			W0932200.56			N4456.705		W09322.009	
		PAETN	N450311.97			W0933709.39			N4503.200		W09337.157	
		UTHNK	N450134.74			W0933321.87			N4501.579		W09333.365	
		WAYZA	N445957.38			W0932934.57			N4459.956		W09329.576	
		ZESTY	N445819.89			W0932547.46			N4458.332		W09325.791	
		RW12R	N445316.04			W0931402.87			N4453.267		W09314.048	
		IHKZ (LOC)	N445220.38			W0931154.35			N4452.340		W09311.906	
RUNWAY DATA			THRESHOLD									
	RWY	ELEVATION		TCH								
	RW12R	00842		50								



CITY AND STATE MINNEAPOLIS, MN	ELEVATION: 842	TDZE: 842	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN		I-HKZ	ILS OR LOC RWY 12R, AMDT 11 3/5/2015	AMDT: 10A
				ILS RWY 12R (SA CAT I) ILS RWY 12R (CAT II), ILS RWY 12R (CAT III)	DATED: 06/27/2013

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
LOC STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25												
ARINC SUMMARY - 424-18 - LOC												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	PAETN	PAETN	010	IAF	IF		FB				AA 07000	
	PAETN	UTHNK	020		TF		FB				AA 06000	
	PAETN	WAYZA	030		TF		FB				AA 05000	
	PAETN	ZESTY	040		CF		FB		121.3 ()	003.1	AA 04000	
		ZESTY	010	FACF	IF		FB				AA 04000	
		KINNS	020	FAF	CF		FB		121.0 ()	003.1	AA 03000	
		WABBS	021	SDF	CF		FB		121.0 ()	004.9	AA 01420	
		RW12R	030	MAP	CF		FO		121.0 ()	001.7	AT 00892	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		121.3 ()		AA 01300	
		FGT	050		DF		FO				AA 03000	
		FGT	060		HM	R	FO		358.0 ()	T01.0	AA 03000	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		FGT	N443751.40		W0931055.39		N4437.857		W09310.923			
		MSP	N445347.40		W0931411.53		N4453.790		W09314.192			
		KINNS	N445642.28		W0932200.56		N4456.705		W09322.009			
		PAETN	N450311.97		W0933709.39		N4503.200		W09337.157			
		UTHNK	N450134.74		W0933321.87		N4501.579		W09333.365			
		WABBS	N445409.07		W0931605.43		N4454.151		W09316.091			
		WAYZA	N445957.38		W0932934.57		N4459.956		W09329.576			
		ZESTY	N445819.89		W0932547.46		N4458.332		W09325.791			
		RW12R	N445316.04		W0931402.87		N4453.267		W09314.048			
		IHKZ (LOC)	N445220.38		W0931154.35		N4452.340		W09311.906			
RUNWAY DATA		RWY	THRESHOLD ELEVATION		TCH							
		RW12R	00842		50							



CITY AND STATE MINNEAPOLIS, MN	ELEVATION: 842	TDZE: 842	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN		I-HKZ	ILS OR LOC RWY 12R, AMDT 11 3/5/2015	AMDT: 10A
				ILS RWY 12R (SA CAT I) ILS RWY 12R (CAT II), ILS RWY 12R (CAT III)	DATED: 06/27/2013

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29							Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.						
TERMINAL ROUTES										MISSED APPROACH										
FROM			TO			COURSE AND DISTANCE			ALTITUDE		ILS: DA									
HASTI INT/I-MSP 19.43 DME (IAF)			PINKE INT/I-MSP 16.30 DME			301.36 / 3.14 (I-MSP)			6000		CLIMB TO 1300 THEN CLIMBING RIGHT TURN TO 3000 DIRECT GEP VORTAC AND HOLD, OR AS DIRECTED BY ATC. ALTERNATE MA: CLIMB TO 1300 THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 147 AND ON MSP VOR/DME R-096 TO KANAC INT/MSP 13.13 DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NW, LT, 117.00 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD E KANAC INT/MSP 13.13 DME, RT, 275.59 INBOUND. CHART IN PLANVIEW: KANAC INT/MSP 13.13 DME.									
PINKE INT/I-MSP 16.30 DME			PIGZI INT/I-MSP 13.16 DME			301.36 / 3.14 (I-MSP)			5000											
PIGZI INT/I-MSP 13.16 DME (IF)			AABEZ INT/I-MSP 10.02 DME			301.36 / 3.14 (I-MSP)			4000											
AABEZ INT/I-MSP 10.02 DME			NARCO INT/I-MSP 6.88 DME			301.36 / 3.14 (I-MSP)			3000											
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)										MAG VAR: 0E EPOCH YEAR: 2015										
2. PROFILE STARTS AT HASTI																				
3. FAC: 301.36 FAF: _____ DIST FAF TO MAP: _____ THLD: _____																				
4. MIN. ALT: HASTI 7000, PINKE 6000, PIGZI 5000, AABEZ 4000, NARCO 3000																				
5. DIST TO THLD FROM OM: 6.69 MM: - IM: 1019 150 HAT: - 100 HAT: - GS ANT: 1102																				
6. MIN GS INCPT: 3000 GS ALT AT: NARCO 3000 OM: - MM: - IM: 922																				
7. GS ANGLE: 3.00 TCH: 54.6																				
8. MSA FROM: MSP VOR/DME 090-270 2800, 270-090 3500																				
MINIMUMS																				
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A X													
CATEGORY =====>		A		B		C		D		E										
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA					
S-ILS 30L	1173	4000	350	1173	4000	350	1173	4000	350	1173	4000	350	1173	4000	350					
NOTES: CHART PLANVIEW NOTE: RADAR REQUIRED. CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT. CHART NOTE: FOR INOPERATIVE ALSF-2, INCREASE VISIBILITY ALL CATS TO 1 1/8 MILE. CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH ILS V RWY 35 (CONVERGING). CHART PROFILE NOTE: USE I-MSP DME WHEN ON THE LOCALIZER COURSE.																				
CITY AND STATE MINNEAPOLIS, MN			ELEVATION: 842 TDZE: 823 AIRPORT NAME: MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN				FACILITY IDENTIFIER: I-MSP		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS V RWY 30L (CONVERGING), AMDT 2 5 MARCH 2015				SUP: CONVERGING ILS RWY 30L AMDT: 1 DATED 05/02/2013							



U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
ILS STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29												
ARINC SUMMARY - 424-18 - ILS												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	HASTI	HASTI	010	IAF	IF		FB				AA 07000	
	HASTI	PINKE	020		TF		FB				AA 06000	
	HASTI	PIGZI	030		TF		FB				AA 05000	
	HASTI	AABEZ	040		CF		FB		301.4 ()	003.1	AA 04000	
		AABEZ	010	FACF	IF		FB				AA 04000	GI 03000
		NARCO	020	FAF	CF		FB		301.0 ()	003.1	GI 03000	GS 03000
		RW30L	030	MAP	CF		FO		301.0 ()	006.7	AT 00869	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		301.4 ()		AA 01300	
		GEP	050		DF		FO				AA 03000	
		GEP	060		HM	L	FO		117.0 ()	T01.0	AA 03000	
POINT DATA		WAYPOINT		LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS		
		GEP		N450844.47		W0932223.45		N4508.741		W09322.391		
		MSP		N445347.40		W0931411.53		N4453.790		W09314.192		
		IMSP (DME)		N445226.93		W0931220.56		N4452.449		W09312.343		
		AABEZ		N444717.10		W0930016.96		N4447.285		W09300.283		
		HASTI		N444221.30		W0924901.33		N4442.355		W09249.022		
		NARCO		N444855.46		W0930402.61		N4448.924		W09304.044		
		PIGZI		N444538.62		W0925631.53		N4445.644		W09256.526		
		PINKE		N444400.02		W0925246.32		N4444.000		W09252.772		
		RW30L		N445224.68		W0931204.27		N4452.411		W09312.071		
		IMSP (LOC)		N445322.46		W0931417.70		N4453.374		W09314.295		
RUNWAY DATA				THRESHOLD								
		RWY		ELEVATION		TCH						
		RW30L	00814			55						



CITY AND STATE MINNEAPOLIS, MN	ELEVATION: 842	TDZE: 823	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP: CONVERGING ILS
	AIRPORT NAME: MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN		I-MSP	ILS V RWY 30L (CONVERGING), AMDT 2	RWY 30L
				5 MARCH 2015	1
					DATED: 05/02/2013

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29		Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.											
TERMINAL ROUTES										MISSED APPROACH					
FROM		TO		COURSE AND DISTANCE		ALTITUDE		ILS: DA							
GROVZ INT/19.40 DME (IAF)		WULAM INT/16.26 DME		301.35 / 3.14 (I-INN)		6000		CLIMB TO 1500, THEN CLIMBING RIGHT TURN TO 3000 DIRECT GEP VORTAC AND HOLD, OR AS DIRECTED BY ATC. ALTERNATE MA: CLIMB TO 1500, THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 130 AND MSP VOR/DME R-096 TO KANAC INT/MSP 13.13 DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NW, LT, 117.00 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD E KANAC INT/MSP 13.13 DME, RT, 275.59 INBOUND. CHART IN PLANVIEW: KANAC INT/MSP 13.13 DME.							
WULAM INT/16.26 DME		BONNA INT/13.12 DME		301.35 / 3.14 (I-INN)		5000									
BONNA INT/13.12 DME (IF)		SAMMZ INT/9.98 DME		301.35 / 3.14 (I-INN)		4000									
SAMMZ INT/9.98 DME		JACKO INT/6.85 DME/RADAR		301.35 / 3.14 (I-INN)		3000									
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT GROVZ 3. FAC: 301.35 FAF: _____ DIST FAF TO MAP: _____ THLD: _____ 4. MIN. ALT: WULAM 6000, BONNA 5000, SAMMZ 4000, JACKO 3000 5. DIST TO THLD FROM OM: 6.67 MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 1025 6. MIN GS INCPT: 3000 GS ALT AT: JACKO 3000 OM: - MM: - IM: - 7. GS ANGLE: 3.00 TCH: 54.9 8. MSA FROM: MSP VOR/DME 090-270 2800, 270-090 3500										MAG VAR: 0E		EPOCH YEAR: 2015			
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT				ALTERNATE: N A X											
CATEGORY >>>>>	A		B		C			D			E				
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
S-ILS 30R	1272	1 1/4	450	1272	1 1/4	450	1272	1 1/4	450	1272	1 1/4	450	1272	1 1/4	450
NOTES: CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH ILS V RWY 35 (CONVERGING). CHART NOTE: FOR INOPERATIVE MALSF, INCREASE S-ILS 30R ALL CATS VISIBILITY TO 1 1/2 MILE. CHART PLANVIEW: RADAR REQUIRED. CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT.															
CITY AND STATE MINNEAPOLIS, MN		ELEVATION: 842 TDZE: 822 AIRPORT NAME: MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN		FACILITY IDENTIFIER: I-INN		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS V RWY 30R (CONVERGING), AMDT 3 5 MARCH 2015				SUP: CONVERGING ILS RWY 30R AMDT: 2 DATED 05/02/2013					

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
ILS STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29												
ARINC SUMMARY - 424-18 - ILS												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	GROVZ	GROVZ	010	IAF	IF		FB					
	GROVZ	WULAM	020		TF		FB				AA 06000	
	GROVZ	BONNA	030		TF		FB				AA 05000	
	GROVZ	SAMMZ	040		CF		FB		301.4 ()	003.1	AA 04000	
		SAMMZ	010	FACF	IF		FB				AA 04000	GI 03000
		JACKO	020	FAF	CF		FB		301.0 ()	003.1	GI 03000	GS 03000
		RW30R	030	MAP	CF		FO		301.0 ()	006.7	AT 00875	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		301.4 ()		AA 01500	
		GEP	050		DF		FO				AA 03000	
		GEP	060		HM	L	FO		117.0 ()	T01.0	AA 03000	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		GEP	N450844.47		W0932223.45		N4508.741		W09322.391			
		MSP	N445347.40		W0931411.53		N4453.790		W09314.192			
		IINN (DME)	N445303.68		W0931148.87		N4453.061		W09311.815			
		BONNA	N444608.17		W0925609.02		N4446.136		W09256.150			
		GROVZ	N444250.91		W0924838.71		N4442.849		W09248.645			
		JACKO	N444924.96		W0930340.22		N4449.416		W09303.670			
		SAMMZ	N444746.62		W0925954.51		N4447.777		W09259.909			
		WULAM	N444429.60		W0925223.75		N4444.493		W09252.396			
		RW30R	N445253.54		W0931140.67		N4452.892		W09311.678			
		IINN (LOC)	N445340.84		W0931329.92		N4453.681		W09313.499			
RUNWAY DATA		RWY	THRESHOLD ELEVATION		TCH							
		RW30R	00820		55							



CITY AND STATE MINNEAPOLIS, MN	ELEVATION: 842	TDZE: 822	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP: CONVERGING ILS
	AIRPORT NAME: MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN		I-INN	ILS V RWY 30R (CONVERGING), AMDT 3	RWY 30R
				5 MARCH 2015	2
					DATED: 05/02/2013

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29							Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.						
TERMINAL ROUTES										MISSED APPROACH										
FROM			TO			COURSE AND DISTANCE			ALTITUDE		ILS: DA LOC: 6.69 MILES AFTER NARCO INT/I-MSP 6.88 DME OR AT I-MSP 0.20 DME FIX									
HASTI INT/I-MSP 19.43 DME (IAF)			PINKE INT/I-MSP 16.30 DME			301.36 / 3.14 (I-MSP)			6000		CLIMB TO 1300 THEN CLIMB TO 3000 ON HEADING 301 AND ON MSP VOR/DME R-298 TO WOXEB INT/GEP VORTAC 11.83 DME AND HOLD, OR AS DIRECTED BY ATC. ALTERNATE MA: CLIMB TO 1300 THEN CLIMBING LEFT TURN TO 3000 ON HEADING 275 AND ON FCM VOR/DME R-330 TO WOBEX /15.60 DME AND HOLD (DME REQUIRED). ADDITIONAL FLIGHT DATA: HOLD SW, RT, 056.12 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD SE WOXEB INT/15.60 DME, RT, 330.28 INBOUND. CHART FAS OBST: 1000 TREE 445116N/0931001W CHART VDP AT 1.40 DME* DISTANCE VDP TO THLD 1.21 MILES. *LOC ONLY. CHART CIRCLING ICON.									
PINKE INT/I-MSP 16.30 DME			PIGZI INT/I-MSP 13.16 DME			301.36 / 3.14 (I-MSP)			5000											
PIGZI INT/I-MSP 13.16 DME (IF)			AABEZ INT/I-MSP 10.02 DME			301.36 / 3.14 (I-MSP)			4000											
AABEZ INT/I-MSP 10.02 DME			NARCO INT/I-MSP 6.88 DME			301.36 / 3.14 (I-MSP)			3000											
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)										MAG VAR: 0E EPOCH YEAR: 2015										
2. PROFILE STARTS AT HASTI																				
3. FAC: 301.36 FAF: NARCO INT/I-MSP 6.88 DME DIST FAF TO MAP: 6.69 THLD: 6.69																				
4. MIN. ALT: HASTI 7000, PINKE 6000, PIGZI 5000, AABEZ 4000, NARCO 3000, EAGAN/2.29 DME/RADAR 1520*																				
5. DIST TO THLD FROM OM: - MM: - IM: 1019 150 HAT: 1985 100 HAT: 1033 GS ANT: 1102																				
6. MIN GS INCPT: 3000 GS ALT AT: NARCO 3000 OM: - MM: - IM: 922																				
7. GS ANGLE: 3.00 TCH: 54.6																				
8. MSA FROM: MSP VOR/DME 090-270 2800, 270-090 3500																				
MINIMUMS																				
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		ILS: #		LOC: STANDARD @									
CATEGORY ==>>>		A		B		C		D		E										
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA					
S-ILS 30L	1023	1800	200	1023	1800	200	1023	1800	200	1023	1800	200	1023	1800	200					
S-LOC 30L	1520	2400	697	1520	2400	697	1520	1 1/2	697	1520	1 1/2	697	1520	1 1/2	697					
CIRCLING	1520	1	678	1520	1	678	1520	2	678	1660	2 3/4	818	1800	3	958					
EAGAN FIX MINIMUMS (DME OR RADAR REQUIRED)																				
S-LOC 30L	1280	2400	457	1280	2400	457	1280	4500	457	1280	4500	457	1280	4500	457					
CIRCLING	1360	1	518	1360	1	518	1460	1 3/4	618	1660	2 3/4	818	1800	3	958					
NOTES: SA CATEGORY 1 ILS: SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED S-ILS 30L: CAT A, B, C, D RA 255, RVR 1400, HAT 150, DA 973 MSL. CATEGORY II ILS SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED S-ILS 30L: CAT A, B, C, D RA 113, RVR 1200, HAT 100, DA 923 MSL. (SEE FORM 8260-10)																				
CITY AND STATE MINNEAPOLIS, MN		ELEVATION: 842 TDZE: 823 AIRPORT NAME: MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN			FACILITY IDENTIFIER: I-MSP		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS Z OR LOC RWY 30L, AMDT 46 3/5/2015 ILS Z RWY 30L (SA CAT I) ILS Z RWY 30L (CAT II)					SUP: ILS OR LOC RWY 30L AMDT: 45 DATED 05/02/2013								



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION			Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.	
ILS - STANDARD				
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29				
NOTES, (CONT.): CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT. CHART NOTE: FOR INOPERATIVE ALSF-2, INCREASE S-ILS 30L CAT E VISIBILITY TO RVR 4000, AND INCREASE S-LOC 30L CAT E VISIBILITY TO 2 MILES. CHART NOTE: EAGAN FIX MINIMUMS: FOR INOPERATIVE ALSF-2, INCREASE S-LOC 30L CAT E VISIBILITY TO 1 3/8 MILE. SA CAT I CHART NOTE: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF HUD TO DH. CAT II RVR 1000 CHART NOTE: RVR 1000 AUTHORIZED WITH SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF AUTOLAND OR HUD TO TOUCHDOWN. CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 30R. CHART PLANVIEW NOTE: RADAR REQUIRED.				
QUALITY 6 CHECKED				
CITY AND STATE	ELEVATION: 842	TDZE: 823	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:
MINNEAPOLIS, MN	AIRPORT NAME:		I-MSP	ILS Z OR LOC RWY 30L, AMDT 46 3/5/2015
	MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN			ILS Z RWY 30L (SA CAT I)
				ILS Z RWY 30L (CAT II)
				SUP: ILS OR LOC RWY 30L
				AMDT: 45
				DATED: 05/02/2013

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
ILS STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29												
ARINC SUMMARY - 424-18 - ILS												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	HASTI	HASTI	010	IAF	IF		FB				AA 07000	
	HASTI	PINKE	020		TF		FB				AA 06000	
	HASTI	PIGZI	030		TF		FB				AA 05000	
	HASTI	AABEZ	040		CF		FB		301.4 ()	003.1	AA 04000	
		AABEZ	010	FACF	IF		FB				AA 04000	GI 03000
		NARCO	020	FAF	CF		FB		301.0 ()	003.1	GI 03000	GS 03000
		RW30L	030	MAP	CF		FO		301.0 ()	006.7	AT 00869	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		301.4 ()		AA 01300	
			050		VI		FB		301.0 ()			
		WOXEB	060		CF		FO		298.1 ()	020.0	AA 03000	
		WOXEB	070		HM	R	FO		056.1 ()	T01.0	AA 03000	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		MSP	N445347.40		W0931411.53		N4453.790		W09314.192			
		IMSP (DME)	N445226.93		W0931220.56		N4452.449		W09312.343			
		WOXEB	N450311.70		W0933708.36		N4503.195		W09337.139			
		AABEZ	N444717.10		W0930016.96		N4447.285		W09300.283			
		HASTI	N444221.30		W0924901.33		N4442.355		W09249.022			
		NARCO	N444855.46		W0930402.61		N4448.924		W09304.044			
		PIGZI	N444538.62		W0925631.53		N4445.644		W09256.526			
		PINKE	N444400.02		W0925246.32		N4444.000		W09252.772			
		RW30L	N445224.68		W0931204.27		N4452.411		W09312.071			
		IMSP (LOC)	N445322.46		W0931417.70		N4453.374		W09314.295			
RUNWAY DATA		RWY	THRESHOLD ELEVATION		TCH							
		RW30L	00814		55							



CITY AND STATE MINNEAPOLIS, MN	ELEVATION: 842	TDZE: 823	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP: ILS OR LOC RWY 30L
	AIRPORT NAME: MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN		I-MSP	ILS Z OR LOC RWY 30L, AMDT 46 3/5/2015 ILS Z RWY 30L (SA CAT I) ILS Z RWY 30L (CAT II)	AMDT: 45
					DATED: 05/02/2013

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
LOC STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25												
ARINC SUMMARY - 424-18 - LOC												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	HASTI	HASTI	010	IAF	IF		FB				AA 07000	
	HASTI	PINKE	020		TF		FB				AA 06000	
	HASTI	PIGZI	030		TF		FB				AA 05000	
	HASTI	AABEZ	040		CF		FB		301.4 ()	003.1	AA 04000	
		AABEZ	010	FACF	IF		FB				AA 04000	
		NARCO	020	FAF	CF		FB		301.0 ()	003.1	AA 03000	
		EAGAN	021	SDF	CF		FB		301.0 ()	004.6	AA 01520	
		RW30L	030	MAP	CF		FO		301.0 ()	002.1	AT 00869	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		301.4 ()		AA 01300	
			050		VI		FB		301.0 ()			
		WOXEB	060		CF		FO		298.1 ()	020.0	AA 03000	
		WOXEB	070		HM	R	FO		056.1 ()	T01.0	AA 03000	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		MSP	N445347.40		W0931411.53		N4453.790		W09314.192			
		IMSP (DME)	N445226.93		W0931220.56		N4452.449		W09312.343			
		WOXEB	N450311.70		W0933708.36		N4503.195		W09337.139			
		AABEZ	N444717.10		W0930016.96		N4447.285		W09300.283			
		EAGAN	N445119.08		W0930933.00		N4451.318		W09309.550			
		HASTI	N444221.30		W0924901.33		N4442.355		W09249.022			
		NARCO	N444855.46		W0930402.61		N4448.924		W09304.044			
		PIGZI	N444538.62		W0925631.53		N4445.644		W09256.526			
		PINKE	N444400.02		W0925246.32		N4444.000		W09252.772			
		RW30L	N445224.68		W0931204.27		N4452.411		W09312.071			
		IMSP (LOC)	N445322.46		W0931417.70		N4453.374		W09314.295			
RUNWAY DATA			THRESHOLD									
		RWY	ELEVATION		TCH							
		RW30L	00814		55							



CITY AND STATE MINNEAPOLIS, MN	ELEVATION: 842	TDZE: 823	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP: ILS OR LOC RWY 30L
	AIRPORT NAME: MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN		I-MSP	ILS Z OR LOC RWY 30L, AMDT 46 3/5/2015 ILS Z RWY 30L (SA CAT I) ILS Z RWY 30L (CAT II)	AMDT: 45
					DATED: 05/02/2013

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29							Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.						
TERMINAL ROUTES										MISSED APPROACH										
FROM			TO			COURSE AND DISTANCE			ALTITUDE		ILS: DA LOC: 6.67 MILES AFTER JACKO INT/I-INN 6.85 DME OR AT 0.19 DME FIX									
GROVZ INT/19.40 DME (IAF)			WULAM INT/16.26 DME			301.35 / 3.14 (I-INN)			6000		CLIMB TO 1300, THEN CLIMBING RIGHT TURN TO 3000 DIRECT GEP VORTAC AND HOLD, OR AS DIRECTED BY ATC. ALTERNATE MA: CLIMB TO 1300, THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 130 AND MSP VOR/DME R-096 TO KANAC INT/MSP 13.13 DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NW, LT, 117.00 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD E KANAC INT/MSP 13.13 DME, RT, 275.59 INBOUND. CHART FAS OBST: 1111 TANK 445208N/0930852W CHART VDP AT 1.58 DME* DISTANCE VDP TO THLD 1.40 MILES. *LOC ONLY. CHART IN PLANVIEW: KANAC INT/MSP 13.13 DME. CHART CIRCLING ICON.									
WULAM INT/16.26 DME			BONNA INT/13.12 DME			301.35 / 3.14 (I-INN)			5000											
BONNA INT/13.12 DME (IF)			SAMMZ INT/9.98 DME			301.35 / 3.14 (I-INN)			4000											
SAMMZ INT/9.98 DME			JACKO INT/6.85 DME			301.35 / 3.14 (I-INN)			3000											
1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)										MAG VAR: 0E EPOCH YEAR: 2015										
2. PROFILE STARTS AT GROVZ INT/19.40 DME																				
3. FAC: 301.35 FAF: JACKO INT/6.85 DME DIST FAF TO MAP: 6.67 THLD: 6.67																				
4. MIN. ALT: GROVZ 7000, WULAM 6000, BONNA 5000, SAMMZ 4000, JACKO 3000, CIJOT/2.27 DME 1520*																				
5. DIST TO THLD FROM OM: - MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 1025																				
6. MIN GS INCPT: 3000 GS ALT AT: JACKO 3000 OM: - MM: - IM: -																				
7. GS ANGLE: 3.00 TCH: 54.9																				
8. MSA FROM: MSP VOR/DME 090-270 2800, 270-090 3500																				
MINIMUMS																				
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		ILS: #		LOC: STANDARD									
CATEGORY >>>>>		A			B			C			D			E						
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA					
S-ILS 30R	1072	4000	250	1072	4000	250	1072	4000	250	1072	4000	250	1072	4000	250					
S-LOC 30R	1520	4000	698	1520	4000	698	1520	1 3/4	698	1520	1 3/4	698	1520	1 3/4	698					
CIRCLING	1520	1	678	1520	1	678	1520	2	678	1660	2 3/4	818	1800	3	958					
CIJOT FIX MINIMUMS																				
S-LOC 30R	1340	4000	518	1340	4000	518	1340	1 1/4	518	1340	1 1/4	518	1340	1 1/4	518					
CIRCLING	1360	1	518	1360	1	518	1460	1 3/4	618	1660	2 3/4	818	1800	3	958					
NOTES: CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 30L. CHART NOTE: FOR INOPERATIVE MALSF, INCREASE S-LOC 30R CAT D AND E VISIBILITY TO 2 MILES. CIJOT FIX MINIMUMS: INCREASE S-LOC 30R CAT C/D/E VISIBILITY TO 1 3/8 MILE. CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO S-ILS 30R ALL CATS. (SEE FORM 8260-10)																				
CITY AND STATE MINNEAPOLIS, MN			ELEVATION: 842 TDZE: 822 AIRPORT NAME: MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN				FACILITY IDENTIFIER: I-INN		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS Z OR LOC RWY 30R, AMDT 15 5 MARCH 2015				SUP: ILS OR LOC RWY 30R AMDT: 14 DATED 05/02/2013							

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
ILS - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):

CHART PLANVIEW: RADAR REQUIRED.

CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT.

QUALITY
6
CHECKED

CITY AND STATE

MINNEAPOLIS, MN

ELEVATION: 842

TDZE: 822

AIRPORT NAME:

MINNEAPOLIS-ST PAUL INTL/WOLD-
CHAMBERLAIN

FACILITY
IDENTIFIER:

I-INN

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

ILS Z OR LOC RWY 30R, AMDT 15

5 MARCH 2015

SUP: ILS OR LOC RWY
30R

AMDT: 14

DATED: 05/02/2013

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
ILS STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29												
ARINC SUMMARY - 424-18 - ILS												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	GROVZ	GROVZ	010	IAF	IF		FB				AA 07000	
	GROVZ	WULAM	020		TF		FB				AA 06000	
	GROVZ	BONNA	030		TF		FB				AA 05000	
	GROVZ	SAMMZ	040		CF		FB		301.4 ()	003.1	AA 04000	
		SAMMZ	010	FACF	IF		FB				AA 04000	GI 03000
		JACKO	020	FAF	CF		FB		301.0 ()	003.1	GI 03000	GS 03000
		RW30R	030	MAP	CF		FO		301.0 ()	006.7	AT 00875	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		301.4 ()		AA 01300	
		GEP	050		DF		FO				AA 03000	
		GEP	060		HM	L	FO		117.0 ()	T01.0	AA 03000	
POINT DATA		WAYPOINT	LAT IN SECS			LONG IN SECS			LAT IN MINS		LONG IN MINS	
		GEP	N450844.47			W0932223.45			N4508.741		W09322.391	
		MSP	N445347.40			W0931411.53			N4453.790		W09314.192	
		IINN (DME)	N445303.68			W0931148.87			N4453.061		W09311.815	
		BONNA	N444608.17			W0925609.02			N4446.136		W09256.150	
		GROVZ	N444250.91			W0924838.71			N4442.849		W09248.645	
		JACKO	N444924.96			W0930340.22			N4449.416		W09303.670	
		SAMMZ	N444746.62			W0925954.51			N4447.777		W09259.909	
		WULAM	N444429.60			W0925223.75			N4444.493		W09252.396	
		RW30R	N445253.54			W0931140.67			N4452.892		W09311.678	
		IINN (LOC)	N445340.84			W0931329.92			N4453.681		W09313.499	
RUNWAY DATA		RWY	THRESHOLD ELEVATION		TCH							
		RW30R	00820		55							



CITY AND STATE MINNEAPOLIS, MN	ELEVATION: 842	TDZE: 822	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP: ILS OR LOC RWY 30R
	AIRPORT NAME: MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN		I-INN	ILS Z OR LOC RWY 30R, AMDT 15	AMDT: 14
				5 MARCH 2015	DATED: 05/02/2013

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
LOC STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25												
ARINC SUMMARY - 424-18 - LOC												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	GROVZ	GROVZ	010	IAF	IF		FB				AA 07000	
	GROVZ	WULAM	020		TF		FB				AA 06000	
	GROVZ	BONNA	030		TF		FB				AA 05000	
	GROVZ	SAMMZ	040		CF		FB		301.4 ()	003.1	AA 04000	
		SAMMZ	010	FACF	IF		FB				AA 04000	
		JACKO	020	FAF	CF		FB		301.0 ()	003.1	AA 03000	
		CIJOT	021	SDF	CF		FB		301.0 ()	004.6	AA 01520	
		RW30R	030	MAP	CF		FO		301.0 ()	002.1	AT 00875	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		301.4 ()		AA 01300	
		GEP	050		DF		FO				AA 03000	
		GEP	060		HM	L	FO		117.0 ()	T01.0	AA 03000	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		GEP	N450844.47		W0932223.45		N4508.741		W09322.391			
		MSP	N445347.40		W0931411.53		N4453.790		W09314.192			
		IINN (DME)	N445303.68		W0931148.87		N4453.061		W09311.815			
		BONNA	N444608.17		W0925609.02		N4446.136		W09256.150			
		CIJOT	N445147.96		W0930909.38		N4451.799		W09309.156			
		GROVZ	N444250.91		W0924838.71		N4442.849		W09248.645			
		JACKO	N444924.96		W0930340.22		N4449.416		W09303.670			
		SAMMZ	N444746.62		W0925954.51		N4447.777		W09259.909			
		WULAM	N444429.60		W0925223.75		N4444.493		W09252.396			
		RW30R	N445253.54		W0931140.67		N4452.892		W09311.678			
		IINN (LOC)	N445340.84		W0931329.92		N4453.681		W09313.499			
RUNWAY DATA			THRESHOLD									
		RWY	ELEVATION		TCH							
		RW30R	00820		55							



CITY AND STATE MINNEAPOLIS, MN	ELEVATION: 842	TDZE: 822	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP: ILS OR LOC RWY 30R
	AIRPORT NAME: MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN		I-INN	ILS Z OR LOC RWY 30R, AMDT 15	AMDT: 14
				5 MARCH 2015	DATED: 05/02/2013

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33							Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.									
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO			COURSE AND DISTANCE			ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW12L CLIMB TO 1300, THEN CLIMBING LEFT TURN TO 3000 DIRECT KANAC AND HOLD. ADDITIONAL FLIGHT DATA: HOLD E, RT, 275.59 INBOUND. CHART FAS OBST: 996 CTRL TWR 445318N/0931318W DISTANCE TO THLD FROM 200 HAT: 0.46 NM. CHART VDP AT 1.07 MILES TO RW12L* *LNAV ONLY. WAAS CHANNEL # 45525 REFERENCE PATH ID: W12B CHART CIRLING ICON. LTP HAE: 228.4 M						
TLBAT		RAHXE (FB)			142.34 / 28.84			7000								
RAHXE		CCJAY (FB)			120.83 / 15.82			7000								
CCJAY (IAF)		UBTYA (FB)			121.06 / 3.14			6000								
UBTYA		ALGIN (FB)			121.10 / 3.14			5000								
ALGIN (IF)		HAMML (FB)			121.15 / 3.14			4000								
HAMML		WASHY (FB)			121.19 / 3.14			3000								
WASHY (FAF)		AASUN/1.70 NM TO RW12L (FB)			121.24 / 4.92											
(SEE FORM 8260-10)																
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. PROFILE STARTS AT CCJAY 3. FAC: <u>121.24</u> FAF: WASHY DIST FAF TO MAP: <u>6.62</u> THLD: <u>6.62</u> 4. MIN. ALT: CCJAY 7000, UBTYA 6000, ALGIN 5000, HAMML 4000, WASHY 3000, AASUN/1.70 NM TO RW12L 1420* 5. DIST TO THLD FROM OM: <u> </u> MM: <u> </u> IM: <u> </u> 150 HAT: <u> </u> 100 HAT: <u> </u> GS ANT: <u> </u> 6. MIN GS INCPT: <u>3000</u> GS ALT AT: WASHY 3000 OM: <u> </u> MM: <u> </u> IM: <u> </u> 7. GS ANGLE: <u>3.00</u> TCH: <u>52.2</u> 34:1 IS CLEAR 8. MSA FROM: RW12L 3500																
										MAG VAR: 0E EPOCH YEAR: 2015						
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		STANDARD @							
CATEGORY >>>>>		A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
LPV DA	1039	2400	200	1039	2400	200	1039	2400	200	1039	2400	200	1039	2400	200	
LNAV/VNAV DA	1157	3000	318	1157	3000	318	1157	3000	318	1157	3000	318	1157	3000	318	
LNAV MDA	1260	2400	421	1260	2400	421	1260	4000	421	1260	4000	421	1260	4000	421	
CIRCLING	1360	1	518	1360	1	518	1460	1 3/4	618	1660	2 3/4	818	1800	3	958	
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 12R. CHART NOTE: LNAV PROCEDURE NA DURING SIMULTANEOUS OPERATIONS. CHART NOTE: USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS. (SEE FORM 8260-10)																
CITY AND STATE MINNEAPOLIS, MN		ELEVATION: 842 TDZE: 839 AIRPORT NAME: MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Z RWY 12L, AMDT 4 5 MARCH 2015				SUP: RNAV (GPS) RWY 12L						
										AMDT: 3						
										DATED 05/02/2013						



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
AASUN/1.70 NM TO RW12L	RW12L (MAP) (FO)	121.24 / 1.70	
RW12L (MAP)	1300 MSL	121.24	1300
1300 MSL	KANAC (FO)		3000

NOTES, (CONT.):

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20C (-4F) OR ABOVE 54C (130F).

CHART NOTE: FOR INOPERATIVE ALSF-2, INCREASE LPV CAT E VISIBILITY TO RVR 4000, LNAV/VNAV ALL CATS VISIBILITY TO RVR 5000 AND LNAV CAT E VISIBILITY TO 1 1/4 MILE.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL AT TLBAT ON V2 NORTHWEST BOUND.

CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT.

QUALITY
6
CHECKED

CITY AND STATE

MINNEAPOLIS, MN

ELEVATION: 842

TDZE: 839

AIRPORT NAME:

MINNEAPOLIS-ST PAUL INTL/WOLD-
CHAMBERLAINFACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) Z RWY 12L, AMDT 4

5 MARCH 2015

SUP: RNAV (GPS) RWY
12L

AMDT: 3

DATED: 05/02/2013

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KMSP
RUNWAY	RW12L
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Z
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W12B
LTP/FTP LATITUDE	445334.6290N
LTP/FTP LONGITUDE	0931315.5660W
LTP/FTP ELLIPSOIDAL HEIGHT	+02284
FPAP LATITUDE	445248.2905N
FPAP LONGITUDE	0931128.5295W
THRESHOLD CROSSING HEIGHT (TCH)	00052.2
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0248
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

<u>CRC REMAINDER</u>	9944F69D

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+02556
FPAP ORTHOMETRIC HEIGHT	+02556

QUALITY
6
CHECKED

CITY AND STATE

MINNEAPOLIS, MN

ELEVATION: 842

TDZE: 839

AIRPORT NAME:

MINNEAPOLIS-ST PAUL INTL/WOLD-
CHAMBERLAINFACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) Z RWY 12L, AMDT 4

5 MARCH 2015

SUP: RNAV (GPS) RWY
12L

AMDT: 3

DATED: 05/02/2013

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KMSPK3FR12LZ	ARAHXE	010RAHXEK3EA0E	IF						18000		A JS	
SUSAP	KMSPK3FR12LZ	ARAHXE	020CCJAYK3EA0E	A 020TF		12080158	+	07000				A JS	
SUSAP	KMSPK3FR12LZ	ARAHXE	030UBTYAK3EA0E	010TF		12110031	+	06000				A JS	
SUSAP	KMSPK3FR12LZ	ARAHXE	040ALGINK3EA0EE	B 010TF		12110031	+	05000				A JS	
SUSAP	KMSPK3FR12LZ	ATLBAT	010TLBATK3EA0E	IF						18000		A JS	
SUSAP	KMSPK3FR12LZ	ATLBAT	020RAHXEK3EA0E	020TF		14230288	+	07000				A JS	
SUSAP	KMSPK3FR12LZ	ATLBAT	030CCJAYK3EA0E	A 020TF		12080158	+	07000				A JS	
SUSAP	KMSPK3FR12LZ	ATLBAT	040UBTYAK3EA0E	010TF		12110031	+	06000				A JS	
SUSAP	KMSPK3FR12LZ	ATLBAT	050ALGINK3EA0EE	B 010TF		12110031	+	05000				A JS	
SUSAP	KMSPK3FR12LZ	R	010ALGINK3EA0E	I IF			+	05000		18000		A JS	
SUSAP	KMSPK3FR12LZ	R	011HAMMLK3EA0E	051TF		12120031	+	04000				A JS	
SUSAP	KMSPK3FR12LZ	R	020WASHYK3EA1E	F 051TF		12120031	+	03000			RW12L K3PGA	JS	
SUSAP	KMSPK3FR12LZ	R	020WASHYK3EA2WALPV		ALNAV/VNAV	ALNAV						JS	
SUSAP	KMSPK3FR12LZ	R	021AASUNK3EA0E	S 031TF		12120049	V	0142001432		-300		A JS	
SUSAP	KMSPK3FR12LZ	R	030RW12LK3PGOGY	M 031TF		12120017		00891		-300		A JS	
SUSAP	KMSPK3FR12LZ	R	040	O M CA		1212	+	01300				A JS	
SUSAP	KMSPK3FR12LZ	R	050KANACK3EA0EY	L DF			+	03000				A JS	
SUSAP	KMSPK3FR12LZ	R	060KANACK3EA0EE	R HM		27560040	+	03000				A JS	

[illegible]

CITY AND STATE MINNEAPOLIS, MN	ELEVATION: 842	TDZE: 839	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) Z RWY 12L, AMDT 4 5 MARCH 2015	SUP: RNAV (GPS) RWY 12L
	AIRPORT NAME: MINNEAPOLIS-ST PAUL INTL/WOLD- CHAMBERLAIN				AMDT: 3
					DATED: 05/02/2013

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

	1	2	3	4	5	6	7	8	9	0	1	2	3
MSA	12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												
	SUSAP KMSPK3SRW12LK3PG			0	18018003525							M	

QUALITY
15
CHECKED

CITY AND STATE MINNEAPOLIS, MN	ELEVATION: 842	TDZE: 839	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) Z RWY 12L, AMDT 4 5 MARCH 2015	SUP: RNAV (GPS) RWY 12L
	AIRPORT NAME: MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN				AMDT: 3
					DATED: 05/02/2013

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33												
ARINC SUMMARY - 424-18 - RNAV (GPS)												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	RAHXE	RAHXE	010		IF		FB					
	RAHXE	CCJAY	020	IAF	TF		FB	2.0	120.8 (120.8T)	015.8	AA 07000	
	RAHXE	UBTYA	030		TF		FB	1.0	121.1 (121.1T)	003.1	AA 06000	
	RAHXE	ALGIN	040		TF		FB	1.0	121.1 (121.1T)	003.1	AA 05000	
	TLBAT	TLBAT	010		IF		FB					
	TLBAT	RAHXE	020		TF		FB	2.0	142.3 (142.3T)	028.8	AA 07000	
	TLBAT	CCJAY	030	IAF	TF		FB	2.0	120.8 (120.8T)	015.8	AA 07000	
	TLBAT	UBTYA	040		TF		FB	1.0	121.1 (121.1T)	003.1	AA 06000	
	TLBAT	ALGIN	050		TF		FB	1.0	121.1 (121.1T)	003.1	AA 05000	
		ALGIN	010	FACF	IF		FB				AA 05000	
		HAMML	011		TF		FB	0.5	121.2 (121.2T)	003.1	AA 04000	
		WASHY	020	FAF	TF		FB	0.5	121.2 (121.2T)	003.1	AA 03000	
		AASUN	021	SDF	TF		FB	0.3	121.2 (121.2T)	004.9	AA 01420 GS 01432	
		RW12L	030	MAP	TF		FO	0.3	121.2 (121.2T)	001.7	AT 00891	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		121.2 (121.2T)		AA 01300	
		KANAC	050		DF	L	FO				AA 03000	
		KANAC	060		HM	R	FO		275.6 (275.6T)	004.0	AA 03000	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		AASUN	N445427.64		W0931518.16		N4454.461		W09315.303			
		ALGIN	N450016.07		W0932847.59		N4500.268		W09328.793			
		CCJAY	N450330.66		W0933622.44		N4503.511		W09336.374			
		HAMML	N445838.58		W0932500.46		N4458.643		W09325.008			
		KANAC	N445201.91		W0925553.14		N4452.032		W09255.886			
		RAHXE	N451138.64		W0935532.18		N4511.644		W09355.536			
		TLBAT	N453431.10		W0942027.16		N4534.518		W09420.453			
		UBTYA	N450153.43		W0933234.92		N4501.891		W09332.582			
		WASHY	N445700.96		W0932113.54		N4457.016		W09321.226			
		RW12L	N445334.63		W0931315.57		N4453.577		W09313.260			
RUNWAY DATA			THRESHOLD									
		RWY	ELEVATION		TCH							
		RW12L	00839		52							
CITY AND STATE		ELEVATION: 842		TDZE: 839		FACILITY IDENTIFIER:		PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:			SUP: RNAV (GPS) RWY 12L	
MINNEAPOLIS, MN		AIRPORT NAME:		MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN		RNAV		RNAV (GPS) Z RWY 12L, AMDT 4			AMDT: 3	
								5 MARCH 2015			DATED: 05/02/2013	



US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.								
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO		COURSE AND DISTANCE			ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW12R							
TLBAT		NUYIS (FB)		143.60 / 28.76			7000		CLIMB TO 1300 THEN CLIMBING RIGHT TURN TO 3000 DIRECT FGT VORTAC AND HOLD.							
NUYIS		PAETN (FB)		120.83 / 15.82			7000									
PAETN (IAF)		UTHNK (FB)		121.06 / 3.14			6000									
UTHNK		WAYZA (FB)		121.10 / 3.14			5000									
WAYZA (IF)		ZESTY (FB)		121.15 / 3.14			4000									
ZESTY		KINNS (FB)		121.19 / 3.14			3000									
KINNS (FAF)		WABBS/1.70 NM TO RW12R (FB)		121.24 / 4.92					ADDITIONAL FLIGHT DATA: HOLD S, RT, 358.03 INBOUND. CHART FAS OBST: 953 TREE 445317N/0931512W DISTANCE TO THLD FROM 200 HAT: 0.47 NM. CHART VDP AT 0.98 MILES TO RW12R* *LNAV ONLY. WAAS CHANNEL # 50125 REFERENCE PATH ID: W12A CHART CIRCLING ICON LTP HAE: 229.4 M							
(SEE FORM 8260-10)																
1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)																
2. PROFILE STARTS AT PAETN																
3. FAC: 121.40 FAF: KINNS DIST FAF TO MAP: 6.62 THLD: 6.62																
4. MIN. ALT: PAETN 7000, UTHNK 6000, WAYZA 5000, ZESTY 4000, KINNS 3000, WABBS/1.70 NM TO RW12R 1420*																
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____																
6. MIN GS INCPT: 3000 GS ALT AT: KINNS 3000 OM: ____ MM: ____ IM: ____																
7. GS ANGLE: 3.00 TCH: 50.0 34:1 IS CLEAR																
8. MSA FROM: RW12R 3500										MAG VAR: 0E EPOCH YEAR: 2015						
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		STANDARD @							
CATEGORY =====>		A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
LPV DA	1042	2400	200	1042	2400	200	1042	2400	200	1042	2400	200	1042	2400	200	
LNAV/VNAV DA	1211	4000	369	1211	4000	369	1211	4000	369	1211	4000	369	1211	4000	369	
LNAV MDA	1220	2400	378	1220	2400	378	1220	3500	378	1220	3500	378	1220	3500	378	
CIRCLING	1360	1	518	1360	1	518	1460	1 3/4	618	1660	2 3/4	818	1800	3	958	
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20C (-4F) OR ABOVE 54C (130F). CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 12L. CHART NOTE: DME/DME RNP-0.3 NA. (SEE FORM 8260-10)																
CITY AND STATE MINNEAPOLIS, MN		ELEVATION: 842 TDZE: 842 AIRPORT NAME: MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN			FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Z RWY 12R, AMDT 3 5 MARCH 2015					SUP: RNAV (GPS) RWY 12R AMDT: 2 DATED 05/02/2013				

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION			Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.																	
RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33																				
TERMINAL ROUTES, (CONT.):																				
<table><tr><td>FROM</td><td>TO</td><td>COURSE AND DISTANCE</td><td>ALTITUDE</td></tr><tr><td>WABBS/1.70 NM TO RW12R</td><td>RW12R (MAP) (FO)</td><td>121.24 / 1.70</td><td></td></tr><tr><td>RW12R (MAP)</td><td>1300 MSL</td><td>121.24</td><td>1300</td></tr><tr><td>1300 MSL</td><td>FGT VORTAC (FO)</td><td></td><td>3000</td></tr></table>					FROM	TO	COURSE AND DISTANCE	ALTITUDE	WABBS/1.70 NM TO RW12R	RW12R (MAP) (FO)	121.24 / 1.70		RW12R (MAP)	1300 MSL	121.24	1300	1300 MSL	FGT VORTAC (FO)		3000
FROM	TO	COURSE AND DISTANCE	ALTITUDE																	
WABBS/1.70 NM TO RW12R	RW12R (MAP) (FO)	121.24 / 1.70																		
RW12R (MAP)	1300 MSL	121.24	1300																	
1300 MSL	FGT VORTAC (FO)		3000																	
NOTES, (CONT.): CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT TLBAT ON V2 NORTHWEST BOUND. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT. CHART NOTE: USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS. CHART NOTE: FOR INOPERATIVE ALSF-1, INCREASE LPV CAT E VISIBILITY TO RVR 4000, INCREASE LNAV/VNAV CAT E VISIBILITY TO 1 1/4 MILE, AND INCREASE LNAV CAT C/D/E VISIBILITY TO RVR 5500. CHART NOTE: LNAV PROCEDURE NA DURING SIMULTANEOUS OPERATIONS.																				
QUALITY 6 CHECKED																				
CITY AND STATE MINNEAPOLIS, MN	ELEVATION: 842 AIRPORT NAME: MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN	TDZE: 842	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (GPS) Z RWY 12R, AMDT 3 5 MARCH 2015																
				SUP: RNAV (GPS) RWY 12R AMDT: 2 DATED: 05/02/2013																

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KMSP
RUNWAY	RW12R
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Z
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W12A
LTP/FTP LATITUDE	445316.0440N
LTP/FTP LONGITUDE	0931402.8725W
LTP/FTP ELLIPSOIDAL HEIGHT	+02294
FPAP LATITUDE	445224.6800N
FPAP LONGITUDE	0931204.2680W
THRESHOLD CROSSING HEIGHT (TCH)	00050.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

<u>CRC REMAINDER</u>	F1EAFE82

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+02566
FPAP ORTHOMETRIC HEIGHT	+02566



CITY AND STATE

MINNEAPOLIS, MN

ELEVATION: 842

TDZE: 842

AIRPORT NAME:

MINNEAPOLIS-ST PAUL INTL/WOLD-
CHAMBERLAINFACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) Z RWY 12R, AMDT 3

5 MARCH 2015

SUP: RNAV (GPS) RWY
12R

AMDT: 2

DATED: 05/02/2013

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible]

QUALITY
3 15
CHECKED

CITY AND STATE MINNEAPOLIS, MN	ELEVATION: 842	TDZE: 842	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) Z RWY 12R, AMDT 3 5 MARCH 2015	SUP: RNAV (GPS) RWY 12R
	AIRPORT NAME: MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN				AMDT: 2
					DATED: 05/02/2013

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

SUSAP KMSPK3GRW12R 0100001213 N44531604W093140287-0300 +0229400842000050200IIHKZ3

```
SUSAP KMSPK3PR12RZ RW12R001Z0000W12A0N4453160440W09314028725+022940300N4452246800W09312042680106750000000500F400350F1EAFE82
SUSAP KMSPK3PR12RZ RW12R002E +02566+02566LPV 50125
```

SUSAP KMSPK3SRW12RK3PG	0	18018003525	M

QUALITY
15
CHECKED

CITY AND STATE MINNEAPOLIS, MN	ELEVATION: 842	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) Z RWY 12R, AMDT 3 5 MARCH 2015	SUP: RNAV (GPS) RWY 12R
	AIRPORT NAME: MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN			AMDT: 2
	DATED: 05/02/2013			

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33												
ARINC SUMMARY - 424-18 - RNAV (GPS)												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	PAETN	PAETN	010	IAF	IF		FB					
	PAETN	UTHNK	020		TF		FB	1.0	121.1 (121.1T)	003.1	AA 06000	
	PAETN	WAYZA	030		TF		FB	1.0	121.1 (121.1T)	003.1	AA 05000	
	TLBAT	TLBAT	010		IF		FB					
	TLBAT	NUYIS	020		TF		FB	2.0	143.6 (143.6T)	028.8	AA 07000	
	TLBAT	PAETN	030	IAF	TF		FB	2.0	120.8 (120.8T)	015.8	AA 07000	
	TLBAT	UTHNK	040		TF		FB	1.0	121.1 (121.1T)	003.1	AA 06000	
	TLBAT	WAYZA	050		TF		FB	1.0	121.1 (121.1T)	003.1	AA 05000	
		WAYZA	010	FACF	IF		FB				AA 05000	
		ZESTY	011		TF		FB	0.5	121.2 (121.2T)	003.1	AA 04000	
		KINNS	020	FAF	TF		FB	0.5	121.2 (121.2T)	003.1	AA 03000	
		WABBS	021	SDF	TF		FB	0.3	121.2 (121.2T)	004.9	AA 01420	GS 01433
		RW12R	030	MAP	TF		FO	0.3	121.2 (121.2T)	001.7	AT 00892	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		121.2 (121.2T)		AA 01300	
		FGT	050		DF	R	FO				AA 03000	
		FGT	060		HM	R	FO		358.0 (358.0T)	004.0	AA 03000	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		FGT	N443751.40		W0931055.39		N4437.857		W09310.923			
		KINNS	N445642.28		W0932200.56		N4456.705		W09322.009			
		NUYIS	N451120.05		W0935619.26		N4511.334		W09356.321			
		PAETN	N450311.97		W0933709.39		N4503.200		W09337.157			
		TLBAT	N453431.10		W0942027.16		N4534.518		W09420.453			
		UTHNK	N450134.74		W0933321.87		N4501.579		W09333.365			
		WABBS	N445409.07		W0931605.43		N4454.151		W09316.091			
		WAYZA	N445957.38		W0932934.57		N4459.956		W09329.576			
		ZESTY	N445819.89		W0932547.46		N4458.332		W09325.791			
		RW12R	N445316.04		W0931402.87		N4453.267		W09314.048			
RUNWAY DATA			THRESHOLD									
		RWY	ELEVATION		TCH							
		RW12R	00842		50							
CITY AND STATE		ELEVATION: 842		TDZE: 842		FACILITY IDENTIFIER:		PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:			SUP: RNAV (GPS) RWY 12R	
MINNEAPOLIS, MN		AIRPORT NAME:		MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN		RNAV		RNAV (GPS) Z RWY 12R, AMDT 3			AMDT: 2	
								5 MARCH 2015			DATED: 05/02/2013	



RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33							Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.								
TERMINAL ROUTES										MISSED APPROACH					
FROM	TO			COURSE AND DISTANCE			ALTITUDE			LPV: DA LNAV/VNAV: DA LNAV: RW30R CLIMB TO 1300, THEN CLIMBING RIGHT TURN TO 3000 DIRECT GEP VORTAC AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NW, LT, 117.00 INBOUND. CHART FAS OBST: 1111 TANK 445208N/0930852W DISTANCE TO THLD FROM 250 HAT: 0.61 NM. CHART VDP AT 1.59 MILES TO RW30R* *LNAV ONLY. WAAS CHANNEL # 60925 REFERENCE PATH ID: W30B CHART CIRCLING ICON. LTP HAE: 222.6 M					
ELIKE	DIYEV (FB)			018.86 / 14.52			7000								
DIYEV	GROVZ (FB)			301.84 / 15.77			7000								
GROVZ (IAF)	WULAM (FB)			301.62 / 3.14			6000								
WULAM	BONNA (FB)			301.58 / 3.14			5000								
BONNA (IF)	SAMMZ (FB)			301.53 / 3.14			4000								
SAMMZ	JACKO (FB)			301.49 / 3.14			3000								
JACKO (FAF)	CIJOT/2.10 NM TO RW30R (FB)			301.44 / 4.57											
(SEE FORM 8260-10)															
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. PROFILE STARTS AT GROVZ 3. FAC: <u>301.44</u> FAF: JACKO DIST FAF TO MAP: <u>6.67</u> THLD: <u>6.67</u> 4. MIN. ALT: GROVZ 7000, WULAM 6000, BONNA 5000, SAMMZ 4000, JACKO 3000, CIJOT/2.10 NM TO RW30R 1540* 5. DIST TO THLD FROM OM: <u> </u> MM: <u> </u> IM: <u> </u> 150 HAT: <u> </u> 100 HAT: <u> </u> GS ANT: <u> </u> 6. MIN GS INCPT: <u>3000</u> GS ALT AT: JACKO 3000 OM: <u> </u> MM: <u> </u> IM: <u> </u> 7. GS ANGLE: <u>3.00</u> TCH: <u>54.9</u> 34:1 IS CLEAR 8. MSA FROM: RW30R 3500															
										MAG VAR: 0E EPOCH YEAR: 2015					
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		STANDARD @						
CATEGORY >>>>>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA	1072	4000	250	1072	4000	250	1072	4000	250	1072	4000	250	1072	4000	250
LNAV/VNAV DA	1316	1 3/8	494	1316	1 3/8	494	1316	1 3/8	494	1316	1 3/8	494	1316	1 3/8	494
LNAV MDA	1400	4000	578	1400	4000	578	1400	1 3/8	578	1400	1 3/8	578	1400	1 3/8	578
CIRCLING	1400	1	558	1400	1	558	1460	1 3/4	618	1660	2 3/4	818	1800	3	958
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. @ CAT D 900-2 3/4, CAT E 1000-3 CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 30L. CHART NOTE: LNAV PROCEDURE NA DURING SIMULTANEOUS OPERATIONS. CHART NOTE: USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS. (SEE FORM 8260-10)															
CITY AND STATE			ELEVATION: 842 TDZE: 822			FACILITY IDENTIFIER:		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP: RNAV (GPS) RWY 30R			
MINNEAPOLIS, MN			AIRPORT NAME:			RNAV		RNAV (GPS) Z RWY 30R, AMDT 3				AMDT: 2			
			MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN					5 MARCH 2015				DATED 05/02/2013			

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
CIJOT/2.10 NM TO RW30R	RW30R (MAP) (FO)	301.44 / 2.10	
RW30R (MAP)	1300 MSL	301.44	1300
1300 MSL	GEP VORTAC (FO)		3000

NOTES, (CONT.):

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -19C (-2F) OR ABOVE 54C (130F).

CHART NOTE: FOR INOPERATIVE MALSF, INCREASE LNAV/VNAV AND LNAV CATS D/E VISIBILITY TO 1 5/8 MILE.

CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV ALL CATS.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL AT ELIKE ON V171 SOUTHEAST BOUND.

CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT.

CITY AND STATE

MINNEAPOLIS, MN

ELEVATION: 842

TDZE: 822

AIRPORT NAME:

MINNEAPOLIS-ST PAUL INTL/WOLD-
CHAMBERLAINFACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:

RNAV (GPS) Z RWY 30R, AMDT 3

5 MARCH 2015

SUP: RNAV (GPS) RWY
30R

AMDT: 2

DATED: 05/02/2013

QUALITY
4

RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KMSP
RUNWAY	RW30R
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Z
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W30B
LTP/FTP LATITUDE	445253.5425N
LTP/FTP LONGITUDE	0931140.6680W
LTP/FTP ELLIPSOIDAL HEIGHT	+02226
FPAP LATITUDE	445339.8800N
FPAP LONGITUDE	0931327.7090W
THRESHOLD CROSSING HEIGHT (TCH)	00054.9
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0312
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
<u>CRC REMAINDER</u>	C964CBB3

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+02499
FPAP ORTHOMETRIC HEIGHT	+02499

CITY AND STATE
MINNEAPOLIS, MN

ELEVATION: 842 TDZE: 822
AIRPORT NAME:
MINNEAPOLIS-ST PAUL INTL/WOLD-
CHAMBERLAIN

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) Z RWY 30R, AMDT 3
5 MARCH 2015

SUP: RNAV (GPS) RWY
30R
AMDT: 2
DATED: 05/02/2013

QUALITY
4

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC PACKET - 424-18 - RNAV (GPS)

	1	2	3	4	5	6	7	8	9	0	1	2	3
NAVAID	1234567890123456789012345678901234567890123456789012345678901234567890123456789012												
SUSAD	GEP	K3011730VTHA	N45084447W093222345	N45084447W093222345E0060008772	NARGOPHER								

	1	2	3	4	5	6	7	8	9	0	1	2	3
WP	1234567890123456789012345678901234567890123456789012345678901234567890123456789012												
SUSAEAENRT	BONNA	K30	C	N44460817W092560902	E0002	NAR	BONNA						
SUSAEAENRT	CIJOT	K30	C	N44514796W093090938	E0003	NAR	CIJOT						
SUSAEAENRT	DIYEV	K30	W	N44343337W092295161	W0002	NAR	DIYEV						
SUSAEAENRT	ELIKE	K30	R	L N44204939W092362556	W0001	NAR	ELIKE						
SUSAEAENRT	GROVZ	K30	C	N44425091W092483871	E0001	NAR	GROVZ						
SUSAEAENRT	JACKO	K30	C	N44492496W093034022	E0003	NAR	JACKO						
SUSAEAENRT	SAMMZ	K30	C	N44474662W092595451	E0002	NAR	SAMMZ						
SUSAEAENRT	WULAM	K30	C	N44442960W092522375	E0001	NAR	WULAM						

	1	2	3	4	5	6	7	8	9	0	1	2	3
AIRPORT	1234567890123456789012345678901234567890123456789012345678901234567890123456789012												
SUSAP	KMSPK3AMSP	0	110YHN44525510W093131840E000000842	1800018000C	MNAR	MINNEAPOLIS-ST PAUL INTL/WOLD-							

	1	2	3	4	5	6	7	8	9	0	1	2	3
SEGMENT	1234567890123456789012345678901234567890123456789012345678901234567890123456789012												
SUSAP	KMSPK3FR30RZ	ADIYEV	010DIYEVK3EA0E	IF						18000		A JS	
SUSAP	KMSPK3FR30RZ	ADIYEV	020GROVZK3EA0E	A 020TF		30180158	+ 07000					A JS	
SUSAP	KMSPK3FR30RZ	ADIYEV	030WULAMK3EA0E	010TF		30160031	+ 06000					A JS	
SUSAP	KMSPK3FR30RZ	ADIYEV	040BONNAK3EA0EE	B 010TF		30160031	+ 05000					A JS	
SUSAP	KMSPK3FR30RZ	AELIKE	010ELIKEK3EA0E	IF						18000		A JS	
SUSAP	KMSPK3FR30RZ	AELIKE	020DIYEVK3EA0E	020TF		01890145	+ 07000					A JS	
SUSAP	KMSPK3FR30RZ	AELIKE	030GROVZK3EA0E	A 020TF		30180158	+ 07000					A JS	
SUSAP	KMSPK3FR30RZ	AELIKE	040WULAMK3EA0E	010TF		30160031	+ 06000					A JS	
SUSAP	KMSPK3FR30RZ	AELIKE	050BONNAK3EA0EE	B 010TF		30160031	+ 05000					A JS	
SUSAP	KMSPK3FR30RZ	R	010BONNAK3EA0E	I IF						18000		A JS	
SUSAP	KMSPK3FR30RZ	R	011SAMMZK3EA0E	051TF		30150031	+ 04000					A JS	
SUSAP	KMSPK3FR30RZ	R	020JACKOK3EA1E	F 051TF		30150031	+ 03000					A JS	
SUSAP	KMSPK3FR30RZ	R	020JACKOK3EA2WALPV	ALNAV/VNAV ALNAV								JS	
SUSAP	KMSPK3FR30RZ	R	021CIJOTK3EA0E	S 031TF		30140046	V 0154001543			-300		A JS	
SUSAP	KMSPK3FR30RZ	R	030RW30RK3PGOGY	M 031TF		30140021	00875			-300		A JS	
SUSAP	KMSPK3FR30RZ	R	040	0 M CA		3014	+ 01300					A JS	
SUSAP	KMSPK3FR30RZ	R	050GEP	K3D 0VY R DF			+ 03000					A JS	
SUSAP	KMSPK3FR30RZ	R	060GEP	K3D 0VE L HM		11700040	+ 03000					A JS	

CITY AND STATE MINNEAPOLIS, MN	ELEVATION: 842	TDZE: 822	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) Z RWY 30R, AMDT 3 5 MARCH 2015	SUP: RNAV (GPS) RWY 30R
	AIRPORT NAME: MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN	AMDT: 2			
	DATED: 05/02/2013				

RUNWAY	1	2	3	4	5	6	7	8	9	0	1	2	3
	1234567890123456789012345678901234567890123456789012345678901234567890123456789012												
	SUSAP	KMSPK3GRW30R	0082003014	N44525354W093114067+0200	+0222600820020055150IIINN1								
PP	1	2	3	4	5	6	7	8	9	0	1	2	3
	1234567890123456789012345678901234567890123456789012345678901234567890123456789012												
	SUSAP	KMSPK3PR30RZ	RW30R001Z0000W30B0N4452535425W09311406680+022260300N4453398800W09313277090106750312000549F400500C964CBB3										
MSA	1	2	3	4	5	6	7	8	9	0	1	2	3
	1234567890123456789012345678901234567890123456789012345678901234567890123456789012												
	SUSAP	KMSPK3SRW30RK3PG	0	18018003525									

CITY AND STATE MINNEAPOLIS, MN	ELEVATION: 842 AIRPORT NAME: MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN	TDZE: 822 FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) Z RWY 30R, AMDT 3 5 MARCH 2015	SUP: RNAV (GPS) RWY 30R
				AMDT: 2
				DATED: 05/02/2013

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - FAR PART 97.33												
ARINC SUMMARY - 424-18 - RNAV (GPS)												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	DIYEV	DIYEV	010		IF		FB					
	DIYEV	GROVZ	020	IAF	TF		FB	2.0	301.8 (301.8T)	015.8	AA 07000	
	DIYEV	WULAM	030		TF		FB	1.0	301.6 (301.6T)	003.1	AA 06000	
	DIYEV	BONNA	040		TF		FB	1.0	301.6 (301.6T)	003.1	AA 05000	
	ELIKE	ELIKE	010		IF		FB					
	ELIKE	DIYEV	020		TF		FB	2.0	018.9 (018.9T)	014.5	AA 07000	
	ELIKE	GROVZ	030	IAF	TF		FB	2.0	301.8 (301.8T)	015.8	AA 07000	
	ELIKE	WULAM	040		TF		FB	1.0	301.6 (301.6T)	003.1	AA 06000	
	ELIKE	BONNA	050		TF		FB	1.0	301.6 (301.6T)	003.1	AA 05000	
		BONNA	010	FACF	IF		FB				AA 05000	
		SAMMZ	011		TF		FB	0.5	301.5 (301.5T)	003.1	AA 04000	
		JACKO	020	FAF	TF		FB	0.5	301.5 (301.5T)	003.1	AA 03000	
		CIJOT	021	SDF	TF		FB	0.3	301.4 (301.4T)	004.6	AA 01540	GS 01543
		RW30R	030	MAP	TF		FO	0.3	301.4 (301.4T)	002.1	AT 00875	
MISSED APPROACH												
			040		CA		FB		301.4 (301.4T)		AA 01300	
		GEP	050		DF	R	FO				AA 03000	
		GEP	060		HM	L	FO		117.0 (117.0T)	004.0	AA 03000	
POINT DATA												
	WAYPOINT			LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS		
	GEP			N450844.47		W0932223.45		N4508.741		W09322.391		
	BONNA			N444608.17		W0925609.02		N4446.136		W09256.150		
	CIJOT			N445147.96		W0930909.38		N4451.799		W09309.156		
	DIYEV			N443433.37		W0922951.61		N4434.556		W09229.860		
	ELIKE			N442049.39		W0923625.56		N4420.823		W09236.426		
	GROVZ			N444250.91		W0924838.71		N4442.849		W09248.645		
	JACKO			N444924.96		W0930340.22		N4449.416		W09303.670		
	SAMMZ			N444746.62		W0925954.51		N4447.777		W09259.909		
	WULAM			N444429.60		W0925223.75		N4444.493		W09252.396		
	RW30R			N445253.54		W0931140.67		N4452.892		W09311.678		
RUNWAY DATA												
	RWY	THRESHOLD				TCH						
	RW30R	00820				55						

CITY AND STATE MINNEAPOLIS, MN	ELEVATION: 842	TDZE: 822	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP: RNAV (GPS) RWY 30R
	AIRPORT NAME: MINNEAPOLIS-ST PAUL INTL/WOLD-CHAMBERLAIN		RNAV	RNAV (GPS) Z RWY 30R, AMDT 3	AMDT: 2
				5 MARCH 2015	DATED: 05/02/2013

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION VOR STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.								
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO			COURSE AND DISTANCE			ALTITUDE		MAP: 2.51 MILES AFTER OTB VOR/DME OR AT ZONIL/2.51 DME FIX. CLIMB TO 1500 THEN CLIMBING LEFT TURN 3000 DIRECT OTB VOR/DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SW, LT, 023.00 INBOUND. CHART FAS OBST: 449 TWR 341431N/0884717W. CHART: 489 TREE 341417N/0884832W. CHART: 494 MSL TOWER 341553.60N-0884627.88W. CHART: HAB 37.34 DME AT ZATEL INT.						
ZATEL INT		OTB VOR/DME			196.00 / 15.30			3000								
1. PT <u> L </u> SIDE OF COURSE <u> 203.00 </u> OUTBOUND <u> 2000 </u> FT WITHIN <u> 5 </u> MILES OF <u> </u> OTB VOR/DME (IAF) 2. _____ 3. FAC <u> 023.00 </u> FAF <u> </u> DIST FAF TO MAP <u> 2.51 </u> THLD <u> 2.51 </u> 4. MIN. ALT <u> OTB VOR/DME 2000 </u> 8. MSA FROM: <u> OTB VOR/DME 3400 </u>										MAG VAR: 4E		EPOCH YEAR:1965				
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT				ALTERNATE: N A				STANDARD@								
CATEGORY =====>		COPTER														
	MDA	VIS	HAS	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	
H-023	700	1	354													
NOTES: @ NA WHEN LOCAL WEATHER NOT AVAILABLE. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE COLUMBUS AFB ALTIMETER SETTING AND INCREASE MDA 120 FEET. CHART PLANVIEW NOTE: PROCEED VFR FROM (MAP) OR CONDUCT THE SPECIFIED MISSED APPROACH. CHART PLANVIEW NOTE: LIMIT ALL SEGMENTS TO 90 KIAS.																
CITY AND STATE TUPELO, MS		ELEVATION: 346 AIRPORT NAME: TUPELO RGNL		TDZE:		FACILITY IDENTIFIER: OTB		PROCEDURE NO./AMD'T NO./EFFECTIVE DATE: COPTER VOR 023, ORIG 5 MARCH 2015				SUP				
												AMD'T		NONE		
												DATE				



US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29							Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.						
TERMINAL ROUTES														MISSED APPROACH						
FROM				TO				COURSE AND DISTANCE				ALTITUDE		ILS: DA LOC: 4.72 MILES AFTER VERON LOM/I-TUP 6.06 DME OR AT I-TUP 1.32 DME FIX. CLIMB TO 3000 DIRECT ZUMHA AND HOLD. ADDITIONAL FLIGHT DATA: HOLD N, RT, 181.89 INBOUND. CHART VDP AT 2.21 DME* *LOC ONLY. DISTANCE VDP TO THLD 0.88 MILES. CHART 494 MSL TOWER 341554N/0884628W. CHART CIRCLING ICON.						
GAGYE/I-TUP 15.36 DME (IF/IAF)				VERON LOM/I-TUP 6.06 DME				001.89 / 9.32 (I-TUP)				2000								
1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)														MAG VAR: 2W EPOCH YEAR: 2015						
2. HOLD S GAGYE, LT, 001.89 INBOUND, 3000 FT. IN LIEU OF PT (IAF)																				
3. FAC: 001.89 FAF: VERON LOM/I-TUP 6.06 DME DIST FAF TO MAP: 4.72 THLD: 4.72																				
4. MIN. ALT: GAGYE 3000, VERON LOM 2000																				
5. DIST TO THLD FROM OM: 4.72 MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 1050																				
6. MIN GS INCPT: 2000 GS ALT AT: - OM: 1924 MM: - IM: -																				
7. GS ANGLE: 3.00 TCH: 54.7																				
8. MSA FROM:																				
MINIMUMS																				
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A			ILS: STANDARD #			LOC: NA							
CATEGORY >>>>>		A			B			C			D			E						
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA					
S-ILS 36	546	1/2	200	546	1/2	200	546	1/2	200	546	1/2	200								
S-LOC 36	700	1/2	354	700	1/2	354	700	5/8	354	700	5/8	354								
CIRCLING	800	1	454	800	1	454	900	1 1/2	554	1140	2 1/2	794								
NOTES: CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE COLUMBUS AFB ALTIMETER SETTING AND INCREASE ALL DA 112 FEET, INCREASE ALL MDA 120 FEET AND INCREASE S-LOC 36 CATS C AND D VISIBILITY 3/8 MILE. INCREASE CIRCLING CATS C AND D VISIBILITY 1/2 MILE. FOR INOPERATIVE MALSR WHEN USING COLUMBUS AFB ALTIMETER SETTING, INCREASE S-ILS 36 ALL CATS VISIBILITY 1/2 MILE.											# NA WHEN LOCAL WEATHER NOT AVAILABLE. # CAT D 800-2 1/2									
(SEE FORM 8260-10)																				
CITY AND STATE TUPELO, MS				ELEVATION: 346 TDZE: 346 AIRPORT NAME: TUPELO RGNL				FACILITY IDENTIFIER: I-TUP		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS Y OR LOC Y RWY 36, ORIG 5 MARCH 2015					SUP: AMDT: NONE DATED					



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
ILS - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):

CHART NOTE: GPS AND ADF OR DME REQUIRED.

CHART NOTE: VDP NA WHEN USING COLUMBUS AFB ALTIMETER SETTING.

CHART NOTE: CHART 4 NM ON OUTBOUND LEG OF HOLDING PATTERN AT GAGYE.

CHART PROFILE NOTE: USE I-TUP DME WHEN ON THE LOCALIZER COURSE.

CHART PLANVIEW NOTE: GPS REQUIRED FOR TERMINAL ARRIVAL AREA.

TAA	FROM	TO	ALT
1.	272/30 CW 092/30 (NOPT)	272/15 CW 092/15	4000
2.	272/15 CW 092/15	GAGYE (IF/IAF) (FB)	3000
3.	092/30 CW 272/30	GAGYE (IF/IAF) (FO)	3000

QUALITY
9
CHECKED

CITY AND STATE TUPELO, MS	ELEVATION: 346 TDZE: 346 AIRPORT NAME: TUPELO RGNL	FACILITY IDENTIFIER: I-TUP	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: ILS Y OR LOC Y RWY 36, ORIG 5 MARCH 2015	SUP:
				AMDT: NONE
				DATED:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION ILS STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
ARINC SUMMARY - 424-18 - ILS												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	GAGYE	GAGYE	010	IAF	HF	L	FO		001.9 ()	004.0	AA 03000	
		GAGYE	010	FACF	IF		FB				AA 03000	GI 02000
		VERON	020	FAF	CF		FB		002.0 ()	009.3	GI 02000	GS 01924
		RW36	030	MAP	CF		FO		002.0 ()	004.7	AT 00400	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		ZUMHA	040		DF		FO				AA 03000	
		ZUMHA	050		HM	R	FO		181.9 ()	004.0	AA 03000	
POINT DATA		WAYPOINT		LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS		
		ITUP (DME)		N341652.45		W0884615.45		N3416.874		W08846.258		
		GAGYE		N340129.42		W0884609.60		N3401.490		W08846.160		
		VERON		N341049.35		W0884610.87		N3410.823		W08846.181		
		ZUMHA		N342915.05		W0884613.44		N3429.251		W08846.224		
		RW36		N341533.03		W0884611.53		N3415.551		W08846.192		
		ITUP (LOC)		N341653.73		W0884611.73		N3416.896		W08846.196		
RUNWAY DATA				THRESHOLD								
		RWY		ELEVATION		TCH						
		RW36		00346		55						



CITY AND STATE TUPELO, MS	ELEVATION: 346 TDZE: 346 AIRPORT NAME: TUPELO RGNL	FACILITY IDENTIFIER: I-TUP	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: ILS Y OR LOC Y RWY 36, ORIG 5 MARCH 2015	SUP: AMDT: NONE DATED:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION LOC STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
ARINC SUMMARY - 424-18 - LOC												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	GAGYE	GAGYE	010	IAF	HF	L	FO		001.9 ()	004.0	AA 03000	
		GAGYE	010	FACF	IF		FB				AA 03000	
		VERON	020	FAF	CF		FB		002.0 ()	009.3	AA 02000	
		RW36	030	MAP	CF		FO		002.0 ()	004.7	AT 00400	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		ZUMHA	040		DF		FO				AA 03000	
		ZUMHA	050		HM	R	FO		181.9 ()	004.0	AA 03000	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		ITUP (DME)	N341652.45		W0884615.45		N3416.874		W08846.258			
		GAGYE	N340129.42		W0884609.60		N3401.490		W08846.160			
		VERON	N341049.35		W0884610.87		N3410.823		W08846.181			
		ZUMHA	N342915.05		W0884613.44		N3429.251		W08846.224			
		RW36	N341533.03		W0884611.53		N3415.551		W08846.192			
		ITUP (LOC)	N341653.73		W0884611.73		N3416.896		W08846.196			
RUNWAY DATA		RWY	THRESHOLD ELEVATION		TCH							
		RW36	00346		55							



CITY AND STATE TUPELO, MS	ELEVATION: 346 TDZE: 346 AIRPORT NAME: TUPELO RGNL	FACILITY IDENTIFIER: I-TUP	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: ILS Y OR LOC Y RWY 36, ORIG 5 MARCH 2015	SUP: AMDT: NONE DATED:

ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29						Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.										
TERMINAL ROUTES											MISSED APPROACH					
FROM		TO			COURSE AND DISTANCE				ALTITUDE		ILS: DA LOC: 4.72 MILES AFTER VERON LOM/I-TUP 6.06 DME OR AT I-TUP 1.32 DME FIX. CLIMB TO 1500 THEN CLIMBING LEFT TURN TO 3000 DIRECT OTB VOR/DME AND HOLD, OR AS DIRECTED BY ATC. ALTERNATE MA: CLIMB TO 1500 THEN CLIMBING LEFT TURN TO 3000 DIRECT VERON LOM/I-TUP 6.06 DME AND HOLD. (ADF REQUIRED) ADDITIONAL FLIGHT DATA: HOLD SW, LT, 023.00 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD S VERON LOM/I-TUP 6.06 DME, LT, 001.89 INBOUND. CHART FAS OBST: 447 COMM TWR 341314N/0884614W. CHART: 494 TWR 341554N/0884628W. CHART VDP AT 2.21 DME* DISTANCE VDP TO THLD 0.88 MILES. *LOC ONLY. CHART OTB R-235 AT CEVSI. CHART I-TUP 15.36 DME AT GAGYE. CHART CIRCLING ICON. MAG VAR: 2W EPOCH YEAR: 2015					
ZATEL INT/HAB 37.34 DME		VERON LOM/I-TUP 6.06 DME			194.65 / 17.40				3000							
ZATEL INT/HAB 37.34 DME		OTB VOR/DME			196.00 / 15.30				3000							
OTB VOR/DME		CEVSI/OTB 12.00 DME			235.00 / 12.00				3000							
OTB VOR/DME		VERON LOM/I-TUP 6.06 DME			147.27 / 2.97				3000							
CEVSI/OTB 12.00 DME CCW (IAF)		GAGYE/OTB 12.00 DME (NOPT)			12.00 DME ARC (OTB LR-179)				3000							
GAGYE/OTB 12.00 DME (IF)		VERON LOM/I-TUP 6.06 DME			001.89 / 9.32 (I-TUP)				2000							
1. PT <u> R </u> SIDE OF COURSE <u>181.89</u> OUTBOUND <u>2000</u> FT WITHIN <u>10</u> MILES OF <u>VERON LOM</u> (IAF) 2. _____ 3. FAC: <u>001.89</u> FAF: <u>VERON LOM/I-TUP 6.06 DME</u> DIST FAF TO MAP: <u>4.72</u> THLD: <u>4.72</u> 4. MIN. ALT: <u>VERON LOM 2000</u> 5. DIST TO THLD FROM OM: <u>4.72</u> MM: <u>-</u> IM: <u>-</u> 150 HAT: <u>-</u> 100 HAT: <u>-</u> GS ANT: <u>1050</u> 6. MIN GS INCPT: <u>2000</u> GS ALT AT: _____ OM: <u>1924</u> MM: <u>-</u> IM: <u>-</u> 7. GS ANGLE: <u>3.00</u> TCH: <u>54.7</u> 8. MSA FROM: <u>TU LOM 3400</u>																
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		ILS: STANDARD #		LOC: NA					
CATEGORY >>>>>		A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
S-ILS 36	546	1/2	200	546	1/2	200	546	1/2	200	546	1/2	200				
S-LOC 36	700	1/2	354	700	1/2	354	700	5/8	354	700	5/8	354				
CIRCLING	800	1	454	800	1	454	900	1 1/2	554	1140	2 1/2	794				
NOTES: CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE COLUMBUS AFB ALTIMETER SETTING AND INCREASE ALL DA 112 FEET. INCREASE ALL MDA 120 FEET AND INCREASE S-LOC 36 CATS C AND D VISIBILITY 3/8 MILE. INCREASE CIRCLING CATS C AND D VISIBILITY 1/2 MILE. FOR INOPERATIVE MALSR WHEN USING COLUMBUS AFB ALTIMETER SETTING, INCREASE S-ILS 36 ALL CATS VISIBILITY 1/2 MILE. CHART NOTE: VDP NA WHEN USING COLUMBUS AFB ALTIMETER SETTING. CHART NOTE: ADF OR DME REQUIRED. CHART PLANVIEW NOTE: ADF OR DME REQUIRED. CHART PROFILE NOTE: USE I-TUP DME WHEN ON THE LOCALIZER COURSE.											# CAT D 800-2 1/2 # NA WHEN LOCAL WEATHER NOT AVAILABLE					
CITY AND STATE		ELEVATION: 346 TDZE: 346			FACILITY IDENTIFIER:		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP: ILS OR LOC RWY 36					
TUPELO, MS		AIRPORT NAME:			I-TUP		ILS Z OR LOC Z RWY 36, AMDT 10				AMDT: 9A					
		TUPELO RGNL					5 MARCH 2015				DATED 06/02/2011					

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
ILS STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29												
ARINC SUMMARY - 424-18 - ILS												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	OTB1	OTB	010		IF		FB					
	OTB1	CEVSI	020	IAF	TF		FB				AA 03000	
	OTB1	GAGYE	030		AF	L	FB		235.0 ()		AA 03000	
	OTB2	OTB	010		IF		FB					
	OTB2	VERON	020		TF		FB				AA 03000	
	OTB2	VERON	030	IAF	PI	L	FB		226.9 ()	010.0	AA 02000	
	ZATE1	ZATEL	010		IF		FB					
	ZATE1	OTB	020		TF		FB				AA 03000	
	ZATE1	CEVSI	030	IAF	TF		FB				AA 03000	
	ZATE1	GAGYE	040		AF	L	FB		235.0 ()		AA 03000	
	ZATE2	ZATEL	010		IF		FB					
	ZATE2	VERON	020		TF		FB				AA 03000	
	ZATE2	VERON	030	IAF	PI	L	FB		226.9 ()	010.0	AA 02000	
		GAGYE	010	FACF	IF		FB				AA 03000	GI 02000
		VERON	020	FAF	CF		FB		002.0 ()	009.3	GI 02000	GS 01924
		RW36	030	MAP	CF		FO		002.0 ()	004.7	AT 00400	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		001.9 ()		AA 01500	
		OTB	050		DF	L	FO				AA 03000	
		OTB	060		HM	L	FO		023.0 ()	T01.0	AA 03000	
POINT DATA		WAYPOINT		LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS		
		OTB		N341325.79		W0884750.49		N3413.430		W08847.842		
		ITUP (DME)		N341652.45		W0884615.45		N3416.874		W08846.258		
		ZATEL		N342749.78		W0884130.76		N3427.830		W08841.513		
		CEVSI		N340713.75		W0890013.74		N3407.229		W08900.229		
		GAGYE		N340129.42		W0884609.60		N3401.490		W08846.160		
		VERON		N341049.35		W0884610.87		N3410.823		W08846.181		
		RW36		N341533.03		W0884611.53		N3415.551		W08846.192		
		ITUP (LOC)		N341653.73		W0884611.73		N3416.896		W08846.196		
		TU		N341049.27		W0884607.24		N3410.821		W08846.121		
RUNWAY DATA		RWY	THRESHOLD ELEVATION		TCH							
		RW36	00346		55							



CITY AND STATE TUPELO, MS	ELEVATION: 346	TDZE: 346	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP: ILS OR LOC RWY 36
	AIRPORT NAME: TUPELO RGNL		I-TUP	ILS Z OR LOC Z RWY 36, AMDT 10	AMDT: 9A
				5 MARCH 2015	DATED: 06/02/2011

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
LOC STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25												
ARINC SUMMARY - 424-18 - LOC												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	OTB1	OTB	010		IF		FB					
	OTB1	CEVSI	020	IAF	TF		FB				AA 03000	
	OTB1	GAGYE	030		AF	L	FB		235.0 ()		AA 03000	
	OTB2	OTB	010		IF		FB					
	OTB2	VERON	020		TF		FB				AA 03000	
	OTB2	VERON	030	IAF	PI	L	FB		226.9 ()	010.0	AA 02000	
	ZATE1	ZATEL	010		IF		FB					
	ZATE1	OTB	020		TF		FB				AA 03000	
	ZATE1	CEVSI	030	IAF	TF		FB				AA 03000	
	ZATE1	GAGYE	040		AF	L	FB		235.0 ()		AA 03000	
	ZATE2	ZATEL	010		IF		FB					
	ZATE2	VERON	020		TF		FB				AA 03000	
	ZATE2	VERON	030	IAF	PI	L	FB		226.9 ()	010.0	AA 02000	
		GAGYE	010	FACF	IF		FB				AA 03000	
		VERON	020	FAF	CF		FB		002.0 ()	009.3	AA 02000	
		RW36	030	MAP	CF		FO		002.0 ()	004.7	AT 00400	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		001.9 ()		AA 01500	
		OTB	050		DF	L	FO				AA 03000	
		OTB	060		HM	L	FO		023.0 ()	T01.0	AA 03000	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		OTB	N341325.79		W0884750.49		N3413.430		W08847.842			
		ITUP (DME)	N341652.45		W0884615.45		N3416.874		W08846.258			
		ZATEL	N342749.78		W0884130.76		N3427.830		W08841.513			
		CEVSI	N340713.75		W0890013.74		N3407.229		W08900.229			
		GAGYE	N340129.42		W0884609.60		N3401.490		W08846.160			
		VERON	N341049.35		W0884610.87		N3410.823		W08846.181			
		RW36	N341533.03		W0884611.53		N3415.551		W08846.192			
		ITUP (LOC)	N341653.73		W0884611.73		N3416.896		W08846.196			
		TU	N341049.27		W0884607.24		N3410.821		W08846.121			
RUNWAY DATA		RWY	THRESHOLD ELEVATION		TCH							
		RW36	00346		55							
CITY AND STATE		ELEVATION: 346		TDZE: 346		FACILITY IDENTIFIER:		PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:		SUP: ILS OR LOC RWY 36		
TUPELO, MS		AIRPORT NAME:		TUPELO RGNL		I-TUP		ILS Z OR LOC Z RWY 36, AMDT 10		AMDT: 9A		
								5 MARCH 2015		DATED: 06/02/2011		



U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION NDB STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.27										Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT , HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.											
TERMINAL ROUTES										MISSED APPROACH											
FROM			TO			COURSE AND DISTANCE			ALTITUDE		MAP: 4.72 MILES AFTER TU LOM										
ZATEL INT			TU LOM			196.70 / 17.40			3000		CLIMB TO 1500 THEN CLIMBING LEFT TURN TO 3000 DIRECT TU LOM AND HOLD.										
OTB VOR/DME			TU LOM			147.27 / 2.97			3000												
										ADDITIONAL FLIGHT DATA: HOLD S, LT, 001.30 INBOUND. FAS OBST: 539 AAO 341218N/0884653W TU LOM TO RW36: 3.19/55. CHART: 494 MSL TOWER 341553.60N-0884627.88W. CHART CIRCLING ICON.											
1. PT <u> R </u> SIDE OF COURSE <u> 181.30 </u> OUTBOUND <u> 2000 </u> FT WITHIN <u> 10 </u> MILES OF <u> TU LOM </u> (IAF)										MAG VAR: 2W EPOCH YEAR:2015											
2. _____																					
3. FAC <u> 001.30 </u> FAF <u> TU LOM </u> DIST FAF TO MAP <u> 4.72 </u> THLD <u> 4.72 </u>																					
4. MIN. ALT <u> TU LOM 2000 </u>																					
8. MSA FROM: <u> TU LOM 3400 </u>																					
MINIMUMS																					
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N		A		X							
CATEGORY =====>		A			B			C			D			E							
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA						
S-36	840	3/4	494	840	3/4	494	840	1	494	840	1	494									
CIRCLING	840	1	494	840	1	494	900	1 1/2	554	1140	2 1/2	794									
NOTES: CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE COLUMBUS AFB ALTIMETER SETTING AND INCREASE ALL MDA 120 FEET, INCREASE S-36 AND CIRCLING CATS C AND D VISIBILITY 3/8 MILE. CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-36 CAT C AND D VISIBILITY TO 1 3/8. CHART NOTE: FOR INOPERATIVE MALSR WHEN USING COLUMBUS AFB ALTIMETER SETTING, INCREASE S-36 CAT C AND D VISIBILITY TO 1 3/4.																					
CITY AND STATE TUPELO, MS		ELEVATION: 346 TDZE: 346 AIRPORT NAME: TUPELO RGNL			FACILITY IDENTIFIER: TU		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: NDB RWY 36, AMDT 5 5 MARCH 2015					SUP AMDT 4A DATE 06/07/2007									

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.							
TERMINAL ROUTES										MISSED APPROACH					
FROM		TO		COURSE AND DISTANCE			ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW18 CLIMB TO 3000 DIRECT GAGYE AND HOLD. ADDITIONAL FLIGHT DATA: HOLD S, LT, 001.89 INBOUND. CHART FAS OBST: 486 TWR 341711N/0884635W CHART 494 MSL TOWER 341554N/0884628W. DISTANCE TO THLD FROM 200 HAT: 0.48 NM. CHART VDP AT 1.10 MILES TO RW18* *LNAV ONLY. WAAS CHANNEL # 77712 REFERENCE PATH ID: W18A LTP HAE: 76.7 M CHART CIRCLING ICON. MAG VAR: 2W EPOCH YEAR: 2015						
1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)															
2. HOLD N ZUMHA, RT, 181.89 INBOUND, 3000 FT. IN LIEU OF PT (IAF)															
3. FAC: 181.89 FAF: BONND DIST FAF TO MAP: 5.06 THLD: 5.06															
4. MIN. ALT: ZUMHA 3000, BONND 2000, ZALIM/2.60 NM TO RW18 1200*															
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____															
6. MIN GS INCPT: 2000 GS ALT AT: BONND 2000 OM: ____ MM: ____ IM: ____															
7. GS ANGLE: 3.00 TCH: 45.0 34:1 IS CLEAR															
8. MSA FROM: ____															
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		STANDARD @						
CATEGORY =====>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA	544	3/4	200	544	3/4	200	544	3/4	200	544	3/4	200			
LNAV/VNAV DA	659	1	315	659	1	315	659	1	315	659	1	315			
LNAV MDA	740	1	396	740	1	396	740	1 1/8	396	740	1 1/8	396			
CIRCLING	800	1	454	800	1	454	900	1 1/2	554	1140	2 1/2	794			
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -9C (16F) OR ABOVE 54C (130F). CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE COLUMBUS AFB ALTIMETER SETTING AND INCREASE ALL DA 112 FEET AND ALL MDA 120 FEET; INCREASE LPV ALL CATS VISIBILITY 1/4 MILE, LNAV/VNAV ALL CATS VISIBILITY 1/2 MILE AND LNAV CATS C AND D 1/4 MILE AND CIRCLING CATS C AND D 1/2 MILE. CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: BARO-VNAV AND VDP NA WHEN USING COLUMBUS AFB ALTIMETER SETTING.															
CITY AND STATE TUPELO, MS		ELEVATION: 346 TDZE: 344 AIRPORT NAME: TUPELO RGNL		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 18, AMDT 1 5 MARCH 2015				SUP: AMDT: ORIG-B DATED 06/28/2012		QUALITY 9 CHECKED			

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

TAA			
	FROM	TO	ALT
1.	092/30 CW 272/30 (NOPT)	ZUMHA (IF/IAF) (FB)	3000
2.	272/30 CW 092/30	ZUMHA (IAF) (FO)	3000

QUALITY
9
CHECKED

CITY AND STATE TUPELO, MS	ELEVATION: 346 TDZE: 344 AIRPORT NAME: TUPELO RGNL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 18, AMDT 1 5 MARCH 2015	SUP:
				AMDT: ORIG-B
				DATED: 06/28/2012

RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KTUP
RUNWAY	RW18
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W18A
LTP/FTP LATITUDE	341643.7555N
LTP/FTP LONGITUDE	0884611.7105W
LTP/FTP ELLIPSOIDAL HEIGHT	+00767
FPAP LATITUDE	341514.5100N
FPAP LONGITUDE	0884611.4900W
THRESHOLD CROSSING HEIGHT (TCH)	00045.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0568
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
 <u>CRC REMAINDER</u>	 B1837BA5

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+01042
FPAP ORTHOMETRIC HEIGHT	+01042

QUALITY
9
CHECKED

CITY AND STATE TUPELO, MS	ELEVATION: 346 TDZE: 344 AIRPORT NAME: TUPELO RGNL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 18, AMDT 1 5 MARCH 2015	SUP:
				AMDT: ORIG-B
				DATED: 06/28/2012

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC PACKET - 424-18 - RNAV (GPS)

	1	2	3	4	5	6	7	8	9	0	1	2	3
WP	123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												
	SUSAEAEENRT	BONND K70	W	N34214813W088461240				W0018	NAR	BONND			
	SUSAEAEENRT	GAGYE K70	C	N34012942W088460960				W0018	NAR	GAGYE			
	SUSAEAEENRT	ZALIM K70	C	N34192003W088461206				W0018	NAR	ZALIM			
	SUSAEAEENRT	ZUMHA K70	W	N34291505W088461344				W0018	NAR	ZUMHA			

	1	2	3	4	5	6	7	8	9	0	1	2	3
AIRPORT	123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												
	SUSAP KTUPK7ATUP	0	071YHN34160840W088461160W002000346				1800018000C	MNAR	TUPELO	RGNL			

	1	2	3	4	5	6	7	8	9	0	1	2	3
SEGMENT	123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												
	SUSAP KTUPK7FR18	AZUMHA	010ZUMHAK7EA0EE	AR	HF			18190040	+	03000	18000	A	JS
	SUSAP KTUPK7FR18	R	010ZUMHAK7EA0E	I	IF				+	03000	18000	A	JS
	SUSAP KTUPK7FR18	R	020BONNDK7EA1E	F	051TF			18190074	+	02000		A	JS
	SUSAP KTUPK7FR18	R	020BONNDK7EA2WALPV		ALNAV/VNAV	ALNAV						JS	
	SUSAP KTUPK7FR18	R	021ZALIMK7EA0E	S	031TF			18190025	V	0120001215	-300	A	JS
	SUSAP KTUPK7FR18	R	030RW18 K7PGOGY	M	031TF			18190026		00387	-300	A	JS
	SUSAP KTUPK7FR18	R	040	0	M	CA		1819	+	00544		A	JS
	SUSAP KTUPK7FR18	R	050GAGYEK7EA0EY		DF				+	03000		A	JS
	SUSAP KTUPK7FR18	R	060GAGYEK7EA0EE	L	HM			00190040	+	03000		A	JS

	1	2	3	4	5	6	7	8	9	0	1	2	3
RUNWAY	123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												
	SUSAP KTUPK7GRW18	0071501819	N34164376W088461171+0056										

	1	2	3	4	5	6	7	8	9	0	1	2	3
PP	123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												
	SUSAP KTUPK7PR18	RW18	001	0000W18A0N3416437555W08846117105+007670300N3415145100W08846114900106750568000450F400350B1837BA5									
	SUSAP KTUPK7PR18	RW18	002E	+01042+01042LPV	77712								

QUALITY
9
CHECKED

CITY AND STATE TUPELO, MS	ELEVATION: 346 AIRPORT NAME: TUPELO RGNL	TDZE: 344 FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 18, AMDT 1 5 MARCH 2015	SUP:
				AMDT: ORIG-B
				DATED: 06/28/2012

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - FAR PART 97.33												
ARINC SUMMARY - 424-18 - RNAV (GPS)												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	ZUMHA	ZUMHA	010	IAF	HF	R	FO		181.9 (179.9T)	004.0	AA 03000	
		ZUMHA	010	FACF	IF		FB				AA 03000	
		BONND	020	FAF	TF		FB	0.5	181.9 (179.9T)	007.4	AA 02000	
		ZALIM	021	SDF	TF		FB	0.3	181.9 (179.9T)	002.5	AA 01200	GS 01215
		RW18	030	MAP	TF		FO	0.3	181.9 (179.9T)	002.6	AT 00387	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		181.9 (179.9T)		AA 00544	
		GAGYE	050		DF		FO				AA 03000	
		GAGYE	060		HM	L	FO		001.9 (359.9T)	004.0	AA 03000	
POINT DATA		WAYPOINT		LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS		
		BONND		N342148.13		W0884612.40		N3421.802		W08846.207		
		GAGYE		N340129.42		W0884609.60		N3401.490		W08846.160		
		ZALIM		N341920.03		W0884612.06		N3419.334		W08846.201		
		ZUMHA		N342915.05		W0884613.44		N3429.251		W08846.224		
		RW18		N341643.76		W0884611.71		N3416.729		W08846.195		
RUNWAY DATA		RWY	THRESHOLD ELEVATION		TCH							
		RW18	00342		45							



CITY AND STATE TUPELO, MS	ELEVATION: 346	TDZE: 344	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 18, AMDT 1 5 MARCH 2015	SUP:
	AIRPORT NAME: TUPELO RGNL				AMDT: ORIG-B
					DATED: 06/28/2012

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.							
TERMINAL ROUTES										MISSED APPROACH					
FROM		TO		COURSE AND DISTANCE				ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW36 CLIMB TO 3000 DIRECT ZUMHA AND HOLD. ADDITIONAL FLIGHT DATA: HOLD N, RT, 181.89 INBOUND. CHART FAS OBST: 458 TRMSN TWR 341436N/0884531W. CHART 494 MSL TOWER 341554N/0884628W. DISTANCE TO THLD FROM 200 HAT: 0.46 NM. CHART VDP AT 1.00 MILES TO RW36*					
GAGYE (IF/IAF)		COMBT (FB)		001.89 / 9.01				2000							
COMBT (FAF)		NATEZ/1.70 NM TO RW36 (FB)		001.89 / 3.32											
NATEZ/1.70 NM TO RW36		RW36 (MAP) (FO)		001.89 / 1.70											
RW36 (MAP)		546 MSL		001.89											
546 MSL		ZUMHA (FO)													
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD S GAGYE, LT, 001.89 INBOUND, 3000 FT. IN LIEU OF PT (IAF) 3. FAC: 001.89 FAF: COMBT DIST FAF TO MAP: 5.02 THLD: 5.02 4. MIN. ALT: GAGYE 3000, COMBT 2000, NATEZ/1.70 NM TO RW36 920* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 2000 GS ALT AT: COMBT 2000 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 54.7 34:1 IS CLEAR 8. MSA FROM: _____										*LNAV ONLY. WAAS CHANNEL # 93712 REFERENCE PATH ID: W36A LTP HAE: 77.8 M CHART CIRCLING ICON. MAG VAR: 2W EPOCH YEAR: 2015					
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		STANDARD @						
CATEGORY =====>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA	546	1/2	200	546	1/2	200	546	1/2	200	546	1/2	200			
LNAV/VNAV DA	730	3/4	384	730	3/4	384	730	3/4	384	730	3/4	384			
LNAV MDA	720	1/2	374	720	1/2	374	720	5/8	374	720	5/8	374			
CIRCLING	800	1	454	800	1	454	900	1 1/2	554	1140	2 1/2	794			
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -9C (16F) OR ABOVE 54C (130F). @ NA WHEN LOCAL WEATHER NOT AVAILABLE. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE COLUMBUS AFB ALTIMETER SETTING AND INCREASE ALL DA 112 FEET AND ALL MDA 120 FEET; INCREASE LNAV/VNAV ALL CATS VISIBILITY 1/2 MILE AND LNAV CATS C AND D 3/8 MILE AND CIRCLING CATS C AND D 1/2 MILE. @ CAT D 800-2 1/2 (SEE FORM 8260-10)															
CITY AND STATE TUPELO, MS		ELEVATION: 346 TDZE: 346 AIRPORT NAME: TUPELO RGNL		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 36, AMDT 1 5 MARCH 2015					SUP: AMDT: ORIG-B DATED 06/28/2012				

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):

CHART NOTE: FOR INOPERATIVE MALSR WHEN USING COLUMBUS AFB ALTIMETER SETTING, INCREASE LPV ALL CATS VISIBILITY 1/2 MILE.

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING COLUMBUS AFB ALTIMETER SETTING.

CHART NOTE: DME/DME RNP-0.3 NA.

TAA

	FROM	TO	ALT
1.	272/30 CW 092/30 (NOPT)	272/15 CW 092/15 (IF/IAF)	4000
2.	272/15 CW 092/15	GAGYE (IF/IAF) (FB)	3000
3.	092/30 CW 272/30	GAGYE (IF/IAF) (FO)	3000

QUALITY
9
CHECKED

CITY AND STATE

TUPELO, MS

ELEVATION: 346

TDZE: 346

AIRPORT NAME:

TUPELO RGNL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 36, AMDT 1

5 MARCH 2015

SUP:

AMDT: ORIG-B

DATED: 06/28/2012

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KTUP
RUNWAY	RW36
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W36A
LTP/FTP LATITUDE	341533.0335N
LTP/FTP LONGITUDE	0884611.5275W
LTP/FTP ELLIPSOIDAL HEIGHT	+00778
FPAP LATITUDE	341702.2800N
FPAP LONGITUDE	0884611.7400W
THRESHOLD CROSSING HEIGHT (TCH)	00054.7
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0568
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

<u>CRC REMAINDER</u>	<u>DATA</u>
	DDD9FFAD

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+01054
FPAP ORTHOMETRIC HEIGHT	+01054

QUALITY
9
CHECKED

CITY AND STATE TUPELO, MS	ELEVATION: 346 TDZE: 346 AIRPORT NAME: TUPELO RGNL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 36, AMDT 1 5 MARCH 2015	SUP:
				AMDT: ORIG-B
				DATED: 06/28/2012

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

WP	1			2			3			4			5			6			7			8			9			0			1			2			3		
	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890	1234567890							
	SUSAEAEENRT			COMBT K70			W			N34103111W088461083						W0018			NAR						COMBT														
	SUSAEAEENRT			GAGYE K70			C			N34012942W088460960						W0018			NAR						GAGYE														
	SUSAEAEENRT			NATEZ K70			W			N34135085W088461129						W0018			NAR						NATEZ														
	SUSAEAEENRT			ZUMHA K70			W			N34291505W088461344						W0018			NAR						ZUMHA														

[illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP KTUPK7FR36	AGAGYE	010GAGYEK7EA0EE	AL	HF			00190040	+	03000	18000		A	JS
SUSAP KTUPK7FR36	R	010GAGYEK7EA0E	I	IF				+	03000	18000		A	JS
SUSAP KTUPK7FR36	R	020COMBTk7EA1E	F	051TF			00190090	+	02000			A	JS
SUSAP KTUPK7FR36	R	020COMBTk7EA2WALPV			ALNAV/VNAV	ALNAV							JS
SUSAP KTUPK7FR36	R	021NATEZK7EA0E	S	031TF			00190033	V	0092000942		-300	A	JS
SUSAP KTUPK7FR36	R	030RW36 K7PG0GY	M	031TF			00190017		00400		-300	A	JS
SUSAP KTUPK7FR36	R	040	0	M	CA		0019	+	00546			A	JS
SUSAP KTUPK7FR36	R	050ZUMHAK7EA0EY		DF				+	03000			A	JS
SUSAP KTUPK7FR36	R	060ZUMHAK7EA0EE	R	HM			18190040	+	03000			A	JS

[illegible][illegible]

QUALITY
9
CHECKED

CITY AND STATE TUPELO, MS	ELEVATION: 346 TDZE: 346 AIRPORT NAME: TUPELO RGNL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
			RNAV (GPS) RWY 36, AMDT 1	AMDT: ORIG-B
			5 MARCH 2015	DATED: 06/28/2012

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICES - FAR PART 97.33								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
ARINC SUMMARY - 424-18 - RNAV (GPS)												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	GAGYE	GAGYE	010	IAF	HF	L	FO		001.9 (359.9T)	004.0	AA 03000	
		GAGYE	010	FACF	IF		FB				AA 03000	
		COMBT	020	FAF	TF		FB	0.5	001.9 (359.9T)	009.0	AA 02000	
		NATEZ	021	SDF	TF		FB	0.3	001.9 (359.9T)	003.3	AA 00920	GS 00942
		RW36	030	MAP	TF		FO	0.3	001.9 (359.9T)	001.7	AT 00400	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		001.9 (359.9T)		AA 00546	
		ZUMHA	050		DF		FO				AA 03000	
		ZUMHA	060		HM	R	FO		181.9 (179.9T)	004.0	AA 03000	
POINT DATA		WAYPOINT		LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS		
		COMBT		N341031.11		W0884610.83		N3410.519		W08846.181		
		GAGYE		N340129.42		W0884609.60		N3401.490		W08846.160		
		NATEZ		N341350.85		W0884611.29		N3413.848		W08846.188		
		ZUMHA		N342915.05		W0884613.44		N3429.251		W08846.224		
		RW36		N341533.03		W0884611.53		N3415.551		W08846.192		
RUNWAY DATA		RWY	THRESHOLD ELEVATION		TCH							
		RW36	00346		55							

QUALITY
 9
 CHECKED

CITY AND STATE TUPELO, MS	ELEVATION: 346 AIRPORT NAME:	TDZE: 346 TUPELO RGNL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 36, AMDT 1 5 MARCH 2015	SUP: AMDT: ORIG-B DATED: 06/28/2012

U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)

Bearings, headings, courses, tracks and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated.
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

City, State	Airport	Effective Date	Amdt. No.
TUPELO, MS.	TUPELO RGNL	5 MARCH 2015	1

TAKEOFF MINIMUMS:

RWY 18, 36: STANDARD.

TEXTUAL DEPARTURE PROCEDURES:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 18, RUNWAY LIGHTS 5 FT FROM DER, 4 FT LEFT AND RIGHT OF CENTERLINE, 1 FT AGL/347 MSL. TREES BEGINNING 1202 FT FROM DER, 804 FT LEFT OF CENTERLINE UP TO 100 FT AGL/400 FT MSL.

CONTROLLING OBSTACLES:



U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)

Bearings, headings, courses, tracks and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated.
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

City, State	Airport	Effective Date	Amdt. No.
TUPELO, MS.	TUPELO RGNL	5 MARCH 2015	1

REMARKS:

FLIGHT INSPECTED BY:

JOSEPH M GAINES
Digitally signed by
JULIE A MORGAN
Jan 22, 2015

FICO

1/14/2015

REQUIRED EFFECTIVE DATE:

ROUTINE

DEVELOPED BY:

ROBERT W. COOK
Digitally signed by
JULIE A MORGAN
Jan 22, 2015

AJV-352

10/21/2014

APPROVED BY:

SUE CRUMB
Digitally signed by
JULIE A MORGAN
Jan 22, 2015

AJV-352

1/22/2015

COORDINATED WITH:

ATA, AOPA, NBAA, ZME, TUP ATCT, AMGR.

CHANGES:

ADDED RWY 18 TAKEOFF OBSTACLE NOTES.

REASONS:

NEW AIRPORT AND OBSTACLE SURVEY DATA. IDENTIFY NEW LOW CLOSE-IN OBSTACLES.



U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION LOC STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.25										Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.									
TERMINAL ROUTES										MISSED APPROACH									
FROM		TO			COURSE AND DISTANCE			ALTITUDE		MAP: 5.15 MILES AFTER HXO NDB/RADAR									
SBV VORTAC		HXO NDB/RADAR			144.34 / 29.47			3000		CLIMB TO 1200 THEN CLIMBING RIGHT TURN TO 2600 DIRECT HXO NDB/RADAR AND HOLD; OR AS DIRECTED BY ATC. ALTERNATE MA: CLIMB TO 1200 THEN CLIMBING LEFT TURN TO 3000 (SEE FORM 8260-10) ADDITIONAL FLIGHT DATA: CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD N STEMM INT, RT, 200.00 INBOUND. FAS OBST: 719 AAO 361910N/0783635W 745 AAO 361842N/0783652W. CHART IN PLANVIEW: STEMM INT. HXO NDB/RADAR TO RW06: 3.36/53. CHART IN PLANVIEW: (CFBDS) AT 361538.42N/0784102.41W CHART CIRCLING ICON.									
RDU VORTAC		HXO NDB/RADAR			021.28 / 26.91			3000											
1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)										MAG VAR: 9W EPOCH YEAR:2015									
2. HOLD SW HXO NDB/RADAR, RT, 060.20 INBOUND, 2600 FT. IN LIEU OF PT (IAF)																			
3. FAC 060.20 FAF HXO NDB/RADAR DIST FAF TO MAP 5.15 THLD 5.15																			
4. MIN. ALT HXO NDB/RADAR 2400																			
8. MSA FROM: HXO NDB/RADAR 2600																			
MINIMUMS																			
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A		STANDARD @							
CATEGORY =====>	A			B			C			D			E						
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA				
S-06	980	1	454	980	1	454	980	1 3/8	454	980	1 3/8	454							
CIRCLING	980	1	454	980	1	454	1100	1 1/2	574	1280	2 1/2	754							
NOTES:																			
CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT.										@ CAT D 800-2 1/2									
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ROXBORO ALTIMETER SETTING AND INCREASE ALL MDA 80 FEET; INCREASE S-06 CAT C/D VISIBILITY 1/8 MILE AND CIRCLING CAT C AND D VISIBILITY 1/4 MILE.										@ NA WHEN LOCAL WEATHER NOT AVAILABLE.									
(SEE FORM 8260-10)																			
CITY AND STATE		ELEVATION: 526 TDZE: 526		FACILITY IDENTIFIER:		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP									
OXFORD, NC		AIRPORT NAME:		I-HNZ		LOC RWY 6, AMDT 2				AMDT 1									
		HENDERSON-OXFORD				5 MARCH 2015				DATE 09/25/2008									

LOC STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - - TITLE 14 CFR PART 97.25

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

MISSED APPROACH INSTRUCTIONS, (CONT.):

ON HEADING 240 AND RDU VORTAC R-020 TO STEMM INT AND HOLD.

NOTES, (CONT.):

CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

CHART NOTE: ADF OR RADAR REQUIRED.

CHART PLANVIEW NOTE: ADF OR RADAR REQUIRED.

CITY AND STATE

OXFORD, NC

ELEVATION: 526

TDZE: 526

AIRPORT NAME:

HENDERSON-OXFORD

FACILITY
IDENTIFIER:

I-HNZ

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

LOC RWY 6, AMDT 2

5 MARCH 2015

SUP:

AMDT: 1

DATED: 09/25/2008

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION NDB STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.27								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.									
TERMINAL ROUTES										MISSED APPROACH							
FROM		TO		COURSE AND DISTANCE				ALTITUDE		MAP: 5.15 MILES AFTER HXO NDB							
SBV VORTAC		HXO NDB		144.34 / 29.47				3000		CLIMB TO 1200 THEN CLIMBING RIGHT TURN TO 2600 DIRECT HXO NDB AND HOLD.							
RDU VORTAC		HXO NDB		021.28 / 26.91				3000									
										ADDITIONAL FLIGHT DATA: FAS OBST: 729 AAO 361946N/0783708W 745 AAO 361842N/0783652W HXO NDB TO RW06: 3.36/40.							
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD SW HXO NDB, RT, 059.02 INBOUND, 2600 FT. IN LIEU OF PT (IAF) 3. FAC 059.02 FAF HXO NDB _____ DIST FAF TO MAP 5.15 THLD 5.15 4. MIN. ALT HXO NDB 2400 8. MSA FROM: HXO NDB 2600														MAG VAR: 9W		EPOCH YEAR: 2015	
MINIMUMS																	
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		STANDARD @							
CATEGORY =====>		A			B			C			D			E			
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA		
S-06	1040	1	514	1040	1	514	1040	1 3/8	514	1040	1 3/8	514					
CIRCLING	1040	1	514	1040	1	514	1100	1 1/2	574	1280	2 1/2	754					
NOTES: CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ROXBORO ALTIMETER SETTING AND INCREASE ALL MDA 80 FEET; INCREASE S-6 CAT C AND D VISIBILITY 3/8 MILE, INCREASE CIRCLING CAT C AND D VISIBILITY 1/4 MILE. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.																	
CITY AND STATE OXFORD, NC				ELEVATION: 526 TDZE: 526 AIRPORT NAME: HENDERSON-OXFORD		FACILITY IDENTIFIER: HXO		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: NDB RWY 6, AMDT 3 5 MARCH 2015				SUP AMDT 2 DATE 09/25/2008					

**NDB STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - - TITLE 14 CFR PART 97.27**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

CITY AND STATE

OXFORD, NC

ELEVATION: 526

TDZE: 526

AIRPORT NAME:

HENDERSON-OXFORD

FACILITY
IDENTIFIER:

HXO

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

NDB RWY 6, AMDT 3

5 MARCH 2015

SUP:

AMDT:

2

DATED:

09/25/2008

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.											
TERMINAL ROUTES								MISSED APPROACH							
FROM		TO		COURSE AND DISTANCE		ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW06 CLIMB TO 3000 DIRECT VEKUC AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NE, RT, 240.32 INBOUND. CHART FAS OBST: 629 TREE 362200N/0783228W DISTANCE TO THLD FROM 284 HAT: 0.73 NM. CHART VDP AT 0.89 MILES TO RW06* *LNAV ONLY. WAAS CHANNEL # 45709 REFERENCE PATH ID: W06A CHART CIRCLING ICON. LTP HAE: 127.5 M							
YETVU (IAF)		KOVPE (NOPT) (FB)		150.04 / 6.00		3000									
WEGIT (IAF)		KOVPE (NOPT) (FB)		330.14 / 6.00		3000									
KOVPE (IF/IAF)		UCELU (FB)		060.09 / 5.00		2500									
UCELU (FAF)		HAXEG/2.00 NM TO RW06 (FB)		060.14 / 4.04											
HAXEG/2.00 NM TO RW06		RW06 (MAP) (FO)		060.14 / 2.00											
RW06 (MAP)		810 MSL		060.14											
810 MSL		VEKUC (FO)				3000									
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. HOLD SW KOVPE, RT, 060.09 INBOUND, 3000 FT. IN LIEU OF PT (IAF) 3. FAC: <u>060.14</u> FAF: <u>UCELU</u> DIST FAF TO MAP: <u>6.04</u> THLD: <u>6.04</u> 4. MIN. ALT: <u>KOVPE 3000, UCELU 2500, HAXEG/2.00 NM TO RW06 1200*</u> 5. DIST TO THLD FROM OM: <u> </u> MM: <u> </u> IM: <u> </u> 150 HAT: <u> </u> 100 HAT: <u> </u> GS ANT: <u> </u> 6. MIN GS INCPT: <u>2500</u> GS ALT AT: <u>UCELU 2500</u> OM: <u> </u> MM: <u> </u> IM: <u> </u> 7. GS ANGLE: <u>3.00</u> TCH: <u>53.2</u> 34:1 IS NOT CLEAR 8. MSA FROM: <u> </u>								MAG VAR: 9W EPOCH YEAR: 2015							
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT						ALTERNATE: N A		STANDARD @							
CATEGORY =====>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA	814	7/8	288	814	7/8	288	814	7/8	288	814	7/8	288			
LNAV/VNAV DA	810	7/8	284	810	7/8	284	810	7/8	284	810	7/8	284			
LNAV MDA	880	1	354	880	1	354	880	1	354	880	1	354			
CIRCLING	960	1	434	980	1	454	1100	1 1/2	574	1280	2 1/2	754			
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT.															
(SEE FORM 8260-10)															
CITY AND STATE OXFORD, NC				ELEVATION: 526 TDZE: 526 AIRPORT NAME: HENDERSON-OXFORD				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 6, AMDT 1 5 MARCH 2015				SUP: AMDT: ORIG DATED 09/25/2008	

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ROXBORO ALTIMETER SETTING AND INCREASE ALL DA 64 FEET AND ALL MDA 80 FEET; INCREASE LPV AND AND LNAV/VNAV ALL CATS VISIBILITY 1/4 MILE, LNAV AND CIRCLING CATS C AND D VISIBILITY 1/4 MILE.

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING ROXBORO ALTIMETER SETTING.

CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

TAA

	FROM	TO	ALT
1.	330/30 CW 150/30 (NOPT)	330/25 CW 150/25	3100
	330/25 CW 150/25	KOVPE (IF/IAF) (FB)	3000
2.	150/30 CW 240/30	YETVU (IAF) (FB)	3000
3.	240/30 CW 330/30	240/25 CW 330/25	3300
	240/25 CW 330/25	WEGIT (IAF) (FB)	3000

CITY AND STATE
 OXFORD, NC

ELEVATION: 526 TDZE: 526
 AIRPORT NAME:
 HENDERSON-OXFORD

FACILITY
 IDENTIFIER:
 RNAV

PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:
 RNAV (GPS) RWY 6, AMDT 1
 5 MARCH 2015

SUP:
 AMDT: ORIG
 DATED: 09/25/2008

RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATIONDATA FIELDDATA

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KHNZ
RUNWAY	RW06
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W06A
LTP/FTP LATITUDE	362123.0700N
LTP/FTP LONGITUDE	0783213.5780W
LTP/FTP ELLIPSOIDAL HEIGHT	+01275
FPAP LATITUDE	362218.9700N
FPAP LONGITUDE	0783047.6000W
THRESHOLD CROSSING HEIGHT (TCH)	00053.2
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1072
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER

A985DDC0

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+01595
FPAP ORTHOMETRIC HEIGHT	+01595

CITY AND STATE

OXFORD, NC

ELEVATION: 526

TDZE: 526

AIRPORT NAME:

HENDERSON-OXFORD

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 6, AMDT 1

5 MARCH 2015

SUP:

AMDT: ORIG

DATED: 09/25/2008

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC PACKET - 424-18 - RNAV (GPS)

[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP KHNZK7FR06	AKOVPE	010KOVPEK7EA0EE	AR	HF			06010040	+	03000	18000		A	JS
SUSAP KHNZK7FR06	AWEGIT	010WEGITK7EA0E	A	IF						18000		A	JS
SUSAP KHNZK7FR06	AWEGIT	020KOVPEK7EA0EE	B	010TF			33010060	+	03000			A	JS
SUSAP KHNZK7FR06	AYETVU	010YETVUK7EA0E	A	IF						18000		A	JS
SUSAP KHNZK7FR06	AYETVU	020KOVPEK7EA0EE	B	010TF			15000060	+	03000			A	JS
SUSAP KHNZK7FR06	R	010KOVPEK7EA0E	I	IF				+	03000	18000		A	JS
SUSAP KHNZK7FR06	R	020UCELUK7EA1E	F	051TF			06010050	+	02500			A	JS
SUSAP KHNZK7FR06	R	020UCELUK7EA2WALPV			ALNAV/VNAV	ALNAV						JS	
SUSAP KHNZK7FR06	R	021HAXEGK7EA0E	S	031TF			06010040	V	0120001213		-300	A	JS
SUSAP KHNZK7FR06	R	030RW06 K7PG0GY	M	031TF			06010020		00577		-300	A	JS
SUSAP KHNZK7FR06	R	040	0	M	CA		0601	+	00810			A	JS
SUSAP KHNZK7FR06	R	050VEKUCK7EA0EY		DF				+	03000			A	JS
SUSAP KHNZK7FR06	R	060VEKUCK7EA0EE	R	HM			24030040	+	03000			A	JS

[illegible][illegible]

Page 4 of 5 Pages

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	KOVPE	KOVPE	010	IAF	HF	R	FO		060.1 (051.1T)	004.0	AA 03000	
	WEGIT	WEGIT	010	IAF	IF		FB					
	WEGIT	KOVPE	020		TF		FB	1.0	330.1 (321.1T)	006.0	AA 03000	
	YETVU	YETVU	010	IAF	IF		FB					
	YETVU	KOVPE	020		TF		FB	1.0	150.0 (141.0T)	006.0	AA 03000	
		KOVPE	010	FACF	IF		FB				AA 03000	
		UCELU	020	FAF	TF		FB	0.5	060.1 (051.1T)	005.0	AA 02500	
		HAXEG	021	SDF	TF		FB	0.3	060.1 (051.1T)	004.0	AA 01200	GS 01213
		RW06	030	MAP	TF		FO	0.3	060.1 (051.1T)	002.0	AT 00577	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		060.1 (051.1T)		AA 00810	
	VEKUC	050		DF		FO				AA 03000	
	VEKUC	060		HM	R	FO		240.3 (231.3T)	004.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	HAXEG	N362007.76	W0783409.33	N3620.129	W07834.156
	KOVPE	N361426.95	W0784251.74	N3614.449	W07842.862
	UCELU	N361735.54	W0783802.94	N3617.592	W07838.049
	VEKUC	N362855.97	W0782035.14	N3628.933	W07820.586
	WEGIT	N360946.33	W0783812.49	N3609.772	W07838.208
	YETVU	N361907.38	W0784731.54	N3619.123	W07847.526
	RW06	N362123.07	W0783213.58	N3621.385	W07832.226

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW06	00523	53

CITY AND STATE
OXFORD, NC

ELEVATION: **526** TDZE: **526**
 AIRPORT NAME:
HENDERSON-OXFORD

FACILITY
 IDENTIFIER:
RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
RNAV (GPS) RWY 6, AMDT 1
5 MARCH 2015

SUP:
 AMDT: **ORIG**
 DATED: **09/25/2008**

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.								
TERMINAL ROUTES				MISSED APPROACH								
FROM	TO	COURSE AND DISTANCE	ALTITUDE	LPV: DA LNAV/VNAV: DA LNAV: RW24 CLIMB TO 3000 DIRECT KOVPE AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SW, RT, 060.09 INBOUND. CHART FAS OBST: 632 TREE 362129N/0783055W DISTANCE TO THLD FROM 250 HAT: 0.66 NM. CHART VDP AT 0.90 MILES TO RW24* *LNAV ONLY. WAAS CHANNEL # 63009 REFERENCE PATH ID: W24A CHART CIRCLING ICON. LTP HAE: 121.9 M								
TMAAC (IAF)	VEKUC (NOPT) (FB)	330.37 / 6.00	3000									
ZEPLA (IAF)	VEKUC (NOPT) (FB)	150.27 / 6.00	3000									
VEKUC (IF/IAF)	OYISE (FB)	240.32 / 5.00	2500									
OYISE (FAF)	XOJZY/2.00 NM TO RW24 (FB)	240.27 / 4.14										
XOJZY/2.00 NM TO RW24	RW24 (MAP) (FO)	240.27 / 2.00										
RW24 (MAP)	773 MSL	240.27										
773 MSL	KOVPE (FO)		3000									
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. HOLD NE VEKUC, RT, 240.32 INBOUND, 3000 FT. IN LIEU OF PT (IAF) 3. FAC: <u>240.27</u> FAF: <u>OYISE</u> DIST FAF TO MAP: <u>6.14</u> THLD: <u>6.14</u> 4. MIN. ALT: VEKUC 3000, OYISE 2500, XOJZY/2.00 NM TO RW24 1180* 5. DIST TO THLD FROM OM: <u> </u> MM: <u> </u> IM: <u> </u> 150 HAT: <u> </u> 100 HAT: <u> </u> GS ANT: <u> </u> 6. MIN GS INCPT: <u>2500</u> GS ALT AT: OYISE 2500 OM: <u> </u> MM: <u> </u> IM: <u> </u> 7. GS ANGLE: <u>3.00</u> TCH: <u>40.0</u> 34:1 IS NOT CLEAR 8. MSA FROM: <u> </u>				MAG VAR: 9W EPOCH YEAR: 2015								
MINIMUMS												
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT				ALTERNATE: N A		STANDARD @						
CATEGORY =====>	A		B		C		D		E			
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA	773	7/8	250	773	7/8	250	773	7/8	250	773	7/8	250
LNAV/VNAV DA	813	1	290	813	1	290	813	1	290	813	1	290
LNAV MDA	900	1	377	900	1	377	900	1	377	900	1	377
CIRCLING	960	1	434	980	1	454	1100	1 1/2	574	1280	2 1/2	754
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ROXBORO ALTIMETER SETTING AND INCREASE (SEE FORM 8260-10) @ CAT D 800-2 1/2 @ NA WHEN LOCAL WEATHER NOT AVAILABLE.												
CITY AND STATE		ELEVATION: 526 TDZE: 523		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:			SUP:			
OXFORD, NC		AIRPORT NAME:				RNAV (GPS) RWY 24, AMDT 1			AMDT: ORIG			
		HENDERSON-OXFORD				5 MARCH 2015			DATED 09/25/2008			

**RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):

ALL DA 64 FEET, AND ALL MDA 80 FEET; INCREASE LPV ALL CATS VISIBILITY 1/8 MILE, LNAV/VNAV ALL CATS AND CIRCLING CATS C AND D VISIBILITY 1/4 MILE, AND LNAV CATS C AND D 3/8 MILE.

CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING ROXBORO ALTIMETER SETTING

TAA

	<u>FROM</u>	<u>TO</u>	<u>ALT</u>
1.	150/30 CW 330/30 (NOPT)	VEKUC (IF/IAF) (FB)	3000
2.	330/30 CW 060/30	TMAAC (IAF) (FB)	3000
3.	060/30 CW 150/30	ZEPLA (IAF) (FB)	3000

CITY AND STATE

OXFORD, NC

ELEVATION: 526

TDZE: 523

AIRPORT NAME:

HENDERSON-OXFORD

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 24, AMDT 1

5 MARCH 2015

SUP:

AMDT: **ORIG**DATED: **09/25/2008**

RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATIONDATA FIELDDATA

OPERATION TYPE 0
SBAS SERVICE PROVIDER IDENTIFIER 0
AIRPORT IDENTIFIER KHNZ
RUNWAY RW24
APPROACH PERFORMANCE DESIGNATOR 0
ROUTE INDICATOR
REFERENCE PATH DATA SELECTOR 0
REFERENCE PATH IDENTIFIER (APPROACH ID) W24A
LTP/FTP LATITUDE 362157.1470N
LTP/FTP LONGITUDE 0783121.1720W
LTP/FTP ELLIPSOIDAL HEIGHT +01219
FPAP LATITUDE 362101.2500N
FPAP LONGITUDE 0783247.1400W
THRESHOLD CROSSING HEIGHT (TCH) 00040.0
TCH UNITS SELECTOR (METERS OR FEET USED) F
GLIDEPATH ANGLE (GPA) 03.00
COURSE WIDTH AT THRESHOLD 106.75
LENGTH OFFSET 1072
HORIZONTAL ALERT LIMIT (HAL) 40.0
VERTICAL ALERT LIMIT (VAL) 50.0

CRC REMAINDER

89A364AC

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE K7
LTP ORTHOMETRIC HEIGHT +01540
FPAP ORTHOMETRIC HEIGHT +01540

CITY AND STATE

OXFORD, NC

ELEVATION: 526

TDZE: 523

AIRPORT NAME:

HENDERSON-OXFORD

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 24, AMDT 1

5 MARCH 2015

SUP:

AMDT: ORIG

DATED: 09/25/2008

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC PACKET - 424-18 - RNAV (GPS)

[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP KHNZK7FR24	ATMAAC	010TMAACK7EA0E	A	IF						18000		A	JS
SUSAP KHNZK7FR24	ATMAAC	020VEKUCK7EA0EE	B	010TF			33040060	+	03000			A	JS
SUSAP KHNZK7FR24	AVEKUC	010VEKUCK7EA0EE	AR	HF			24030040	+	03000	18000		A	JS
SUSAP KHNZK7FR24	AZEPLA	010ZEPLAK6EA0E	A	IF						18000		A	JS
SUSAP KHNZK7FR24	AZEPLA	020VEKUCK7EA0EE	B	010TF			15030060	+	03000			A	JS
SUSAP KHNZK7FR24	R	010VEKUCK7EA0E	I	IF				+	03000	18000		A	JS
SUSAP KHNZK7FR24	R	020OYISEK7EA1E	F	051TF			24030050	+	02500			A	JS
SUSAP KHNZK7FR24	R	020OYISEK7EA2WALPV			ALNAV/VNAV	ALNAV							JS
SUSAP KHNZK7FR24	R	021XOJZYK7EA0E	S	031TF			24030041	V	0118001182		-300	A	JS
SUSAP KHNZK7FR24	R	030RW24 K7PGOGY	M	031TF			24030020		00545		-300	A	JS
SUSAP KHNZK7FR24	R	040	0	M	CA		2403	+	00773			A	JS
SUSAP KHNZK7FR24	R	050KOVPEK7EA0EY		DF				+	03000			A	JS
SUSAP KHNZK7FR24	R	060KOVPEK7EA0EE	R	HM			06010040	+	03000			A	JS

[illegible][illegible]

CITY AND STATE OXFORD, NC	ELEVATION: 526	TDZE: 523	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 24, AMDT 1 5 MARCH 2015	SUP:	
	AIRPORT NAME: HENDERSON-OXFORD				AMDT:	ORIG
					DATED:	09/25/2008

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
 FLIGHT STANDARDS SERVICES - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	TMAAC	TMAAC	010	IAF	IF		FB					
	TMAAC	VEKUC	020		TF		FB	1.0	330.4 (321.4T)	006.0	AA 03000	
	VEKUC	VEKUC	010	IAF	HF	R	FO		240.3 (231.3T)	004.0	AA 03000	
	ZEPLA	ZEPLA	010	IAF	IF		FB					
	ZEPLA	VEKUC	020		TF		FB	1.0	150.3 (141.3T)	006.0	AA 03000	
		VEKUC	010	FACF	IF		FB				AA 03000	
		OYISE	020	FAF	TF		FB	0.5	240.3 (231.3T)	005.0	AA 02500	
		XOJZY	021	SDF	TF		FB	0.3	240.3 (231.3T)	004.1	AA 01180	GS 01182
		RW24	030	MAP	TF		FO	0.3	240.3 (231.3T)	002.0	AT 00545	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		240.3 (231.3T)		AA 00773	
	KOVPE	050		DF		FO				AA 03000	
	KOVPE	060		HM	R	FO		060.1 (051.1T)	004.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	KOVPE	N361426.95	W0784251.74	N3614.449	W07842.862
	OYISE	N362548.05	W0782525.44	N3625.801	W07825.424
	TMAAC	N362414.46	W0781556.43	N3624.241	W07815.941
	VEKUC	N362855.97	W0782035.14	N3628.933	W07820.586
	XOJZY	N362312.41	W0782925.33	N3623.207	W07829.422
	ZEPLA	N363337.30	W0782514.41	N3633.622	W07825.240
	RW24	N362157.15	W0783121.17	N3621.953	W07831.353

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW24	00505	40

CITY AND STATE OXFORD, NC	ELEVATION: 526	TDZE: 523	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: HENDERSON-OXFORD		RNAV	RNAV (GPS) RWY 24, AMDT 1	AMDT: ORIG
				5 MARCH 2015	DATED: 09/25/2008

U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)

Bearings, headings, courses, tracks and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated.
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

City, State	Airport	Effective Date	Amdt. No.
OXFORD, NC	HENDERSON-OXFORD	3-5-2015	1

TAKEOFF MINIMUMS:

RWY 6, 24, STANDARD.

TEXTUAL DEPARTURE PROCEDURES:

RWY 24 – CLIMB HEADING 240.21 TO 1300 BEFORE TURNING RIGHT.

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 6, TREES BEGINNING 263 FT FROM DER, 358 FT LEFT OF CENTERLINE, UP TO 68 FT AGL/558 FT MSL. TREES BEGINNING 670 FT FROM DER, 496 FT RIGHT OF CENTERLINE, UP TO 60 FT AGL/552 FT MSL.

NOTE: RWY 24, SILO, VEHICLES ON ROAD, TELEPHONE LINE, AND TREES BEGINNING 7 FT FROM DER, 353 FT RIGHT OF CENTERLINE, UP TO 88 FT AGL /601 FT MSL. TREES BEGINNING 771 FT FROM DER, 10 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/595 FT MSL. TREES BEGINNING 1596 FT FROM DER, 248 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/618 FT MSL.

CONTROLLING OBSTACLES:

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT: RWY 24 - 1517 MSL TOWER (37-001106) 362051.39N/0783956.72W.

3
HENDERSON

U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)

Bearings, headings, courses, tracks and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated.
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

City, State	Airport	Effective Date	Amdt. No.
OXFORD, NC	HENDERSON-OXFORD	3-5-2015	1

REMARKS:

FLIGHT INSPECTED BY:

REQUIRED EFFECTIVE DATE:

CONCURRENT

DEVELOPED BY:

PENDING

DAVID SAUER

AJV-352

1/24/14

Beverly L. Bondy

APPROVED BY:

SUE CRUMB

AJV-352

for Beverly L. Bondy

JAN 29 2015

COORDINATED WITH:

ALPA, AOPA, NBAA, ZDC, RDU APP CON, HNZ AMGR

CHANGES:

1. CHANGED RWY 24 TAKEOFF MINIMUMS FROM "STANDARD WITH MINIMUM CLIMB GRADIENT OF 245 PER NM TO 1900 OR 700-3 FOR CLIMB IN VISUAL CONDITIONS" TO "STANDARD".
2. CHANGED RWY 24 TEXTUAL DEPARTURE FROM "FOR CLIMB IN VISUAL CONDITIONS: CROSS HENDERSON-OXFORD AIRPORT AT OR ABOVE 1100 MSL BEFORE PROCEEDING ON COURSE" TO "CLIMB HEADING 240.21 TO 1300 BEFORE TURNING RIGHT".
3. CHANGED RWY 6 TAKEOFF OBSTACLE NOTES FROM "TREES BEGINNING 7 FT FROM DER, 367 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/629 FT MSL" TO "TREES BEGINNING 263 FT FROM DER, 358 FT LEFT OF CENTERLINE, UP TO 68 FT AGL/558 FT MSL. TREES BEGINNING 670 FT FROM DER, 496 FT RIGHT OF CENTERLINE, 60 FT AGL/552 FT MSL".
4. CHANGED RWY 24 TAKEOFF OBSTACLE NOTES FROM "TREES BEGINNING 804 FT FROM DER, 393 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/629 FT MSL" TO "SILO, VEHICLES ON ROAD, TELEPHONE LINE, AND TREES BEGINNING 7 FT FROM DER, 353 FT RIGHT OF CENTERLINE, UP TO 88 FT AGL /601 FT MSL. TREES BEGINNING 771 FT FROM DER, 10 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/595 FT MSL. TREES BEGINNING 1596 FT FROM DER, 248 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/618 FT MSL".

REASONS:

1. NEW VG SURVEY ELIMINATED NEED TO PLANT ASSUMED OBSTACLE.
2. NEW VG SURVEY ELIMINATED NEED TO PLANT ASSUMED OBSTACLE.
3. NEW VG SURVEY ELIMINATED NEED TO PLANT ASSUMED OBSTACLE.
4. NEW VG SURVEY ELIMINATED NEED TO PLANT ASSUMED OBSTACLE.

EFFECTIVE CONCURRENT WITH: KHNZ RNAV (GPS) RWY 6, AMDT 1

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):

CHART NOTE: VDP NA WITH AINSWORTH RGNL ALTIMETER SETTING.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE AINSWORTH RGNL ALTIMETER SETTING AND INCREASE ALL DA 70 FEET AND ALL MDA 80 FEET, INCREASE LNAV/VNAV CAT A/B VISIBILITY 1/8 MILE AND CIRCLING CAT B VISIBILITY 1/4 MILE.

TAA

	FROM	TO	ALT
1.	298/30 CW 118/30 (NOPT)	298/15 CW 118/15	5100
	298/15 CW 118/15	KILEA (IF/IAF) (FB)	5000
2.	118/30 CW 298/30	KILEA (IF/IAF) (FO)	5000

CITY AND STATE
VALENTINE, NE

ELEVATION: 2595 TDZE: 2595
AIRPORT NAME:
MILLER FIELD

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 3, ORIG
5 MARCH 2015

SUP:
AMDT: NONE
DATED:

RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KVTN
RUNWAY	RW03
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	0
REFERENCE PATH DATA SELECTOR	W03A
REFERENCE PATH IDENTIFIER (APPROACH ID)	425110.1310N
LTP/FTP LATITUDE	1003319.5120W
LTP/FTP LONGITUDE	+07693
LTP/FTP ELLIPSOIDAL HEIGHT	425221.9335N
FPAP LATITUDE	1003207.7435W
FPAP LONGITUDE	00039.1
THRESHOLD CROSSING HEIGHT (TCH)	F
TCH UNITS SELECTOR (METERS OR FEET USED)	03.00
GLIDEPATH ANGLE (GPA)	106.75
COURSE WIDTH AT THRESHOLD	1624
LENGTH OFFSET	40.0
HORIZONTAL ALERT LIMIT (HAL)	35.0
VERTICAL ALERT LIMIT (VAL)	

CRC REMAINDER

98251AFC

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+07911
FPAP ORTHOMETRIC HEIGHT	+07911

CITY AND STATE
VALENTINE, NE

ELEVATION: 2595 TDZE: 2595
AIRPORT NAME:
MILLER FIELD

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 3, ORIG
5 MARCH 2015

SUP:
AMDT: NONE
DATED:

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP KVTNK3FR03	AKILEA	010KILEAK3EA0EE	AR	HF		02820050		+ 05000	18000			A JS	
SUSAP KVTNK3FR03	R	010KILEAK3EA0E	I	IF				+ 05000	18000			A JS	
SUSAP KVTNK3FR03	R	020FABISK3EA1E	F 051TF			02820050		+ 04500				A JS	
SUSAP KVTNK3FR03	R	020FABISK3EA2WALPV		ALNAV/VNAV ALNAV								JS	
SUSAP KVTNK3FR03	R	021HIGISK3EA0E	S 031TF			02830039	V	0326003271		-300		A JS	
SUSAP KVTNK3FR03	R	030RW03 K3PG0GY	M 031TF			02830020		02635		-300		A JS	
SUSAP KVTNK3FR03	R	040	Q M	CA		0283		+ 02795				A JS	
SUSAP KVTNK3FR03	R	050MAIMSK3EA0EY		DF				+ 05000				A JS	
SUSAP KVTNK3FR03	R	060MAIMSK3EA0EE	R	HM		20840050		+ 05000				A JS	

[illegible][illegible]

CITY AND STATE VALENTINE, NE	ELEVATION: 2595	TDZE: 2595	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 3, ORIG 5 MARCH 2015	SUP:
	AIRPORT NAME: MILLER FIELD	FACILITY IDENTIFIER: RNAV		AMDT: NONE
				DATED:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	KILEA	KILEA	010	IAF	HF	R	FO		028.2 (036.2T)	005.0	AA 05000	
		KILEA	010	FACF	IF		FB				AA 05000	
		FABIS	020	FAF	TF		FB	0.5	028.2 (036.2T)	005.0	AA 04500	
		HIGIS	021	SDF	TF		FB	0.3	028.3 (036.3T)	003.9	AA 03260	GS 03271
		RW03	030	MAP	TF		FO	0.3	028.3 (036.3T)	002.0	AT 02635	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		028.3 (036.3T)		AA 02795	
	MAIMS	050		DF		FO				AA 05000	
	MAIMS	060		HM	R	FO		208.4 (216.4T)	005.0	AA 05000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	FABIS	N424626.79	W1003802.14	N4246.447	W10038.036
	HIGIS	N424933.41	W1003456.10	N4249.557	W10034.935
	KILEA	N424224.77	W1004202.84	N4242.413	W10042.047
	MAIMS	N425952.20	W1002436.80	N4259.870	W10024.613
	RW03	N425110.13	W1003319.51	N4251.169	W10033.325

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW03	02595	39

CITY AND STATE VALENTINE, NE	ELEVATION: 2595	TDZE: 2595	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME:			RNAV (GPS) RWY 3, ORIG	AMDT: NONE
	MILLER FIELD	RNAV	5 MARCH 2015	DATED:	

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33		Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.	
US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION			
TERMINAL ROUTES		MISSED APPROACH	
FROM	TO	COURSE AND DISTANCE	ALTITUDE
AHOFU (IF/IAF)	CITBO (FB)	137.35 / 5.00	4400
CITBO (FAF)	HAKNO/2.20 NM TO RW14 (FB)	137.41 / 3.36	
HAKNO/2.20 NM TO RW14	RW14 (MAP) (FO)	137.41 / 2.20	
RW14 (MAP)	2860 MSL	137.41	
2860 MSL	GIYIT (FO)		5000
		LPV: DA LNAV/VNAV: DA LNAV: RW14 CLIMB TO 5000 DIRECT GIYIT AND HOLD.	
		ADDITIONAL FLIGHT DATA: HOLD SE, RT, 317.55 INBOUND. CHART FAS OBST: 3003 TOWER 425319N/1003313W DISTANCE TO THLD FROM 271 HAT: 0.73 NM. CHART VDP AT 1.67 MILES TO RW14* *LNAV ONLY. WAAS CHANNEL # 61037 REFERENCE PATH ID: W14A CHART CIRCLING ICON. LTP HAE: 766.9 M	
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF)			
2. HOLD NW AHOFU, RT, 137.35 INBOUND, 5000 FT. IN LIEU OF PT (IAF)			
3. FAC: <u>137.41</u> FAF: <u>CITBO</u> DIST FAF TO MAP: <u>5.56</u> THLD: <u>5.56</u>			
4. MIN. ALT: AHOFU 5000, CITBO 4400, HAKNO/2.20 NM TO RW14 3320*			
5. DIST TO THLD FROM OM: <u> </u> MM: <u> </u> IM: <u> </u> 150 HAT: <u> </u> 100 HAT: <u> </u> GS ANT: <u> </u>			
6. MIN GS INCPT: <u>4400</u> GS ALT AT: <u>CITBO 4400</u> OM: <u> </u> MM: <u> </u> IM: <u> </u>			
7. GS ANGLE: <u>3.00</u> TCH: <u>40.0</u> 34:1 IS NOT CLEAR			
8. MSA FROM: <u> </u>			
		MAG VAR: 8E EPOCH YEAR: 2000	
MINIMUMS			
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT		ALTERNATE: N A	
STANDARD @			
CATEGORY =====>	A	B	C
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA	DH/MDA	VIS	HAT/HAA
DH/MDA	VIS	HAT/HAA	DH/MDA
VIS	HAT/HAA	DH/MDA	VIS
HAT/HAA			

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):

CHART NOTE: VDP NA WITH AINSWORTH RGNL ALTIMETER SETTING.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE AINSWORTH RGNL ALTIMETER SETTING AND INCREASE ALL DA 70 FEET AND ALL MDA 80 FEET, INCREASE LPV CAT A/B VISIBILITY 1/8 MILE AND LNAV/VNAV CAT A/B AND CIRCLING CAT B VISIBILITY 1/4 MILE.

CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

TAA

	FROM	TO	ALT
1.	047/30 CW 227/30 (NOPT)	AHOFU (IF/IAF) (FB)	5000
2.	227/30 CW 047/30	AHOFU (IF/IAF) (FO)	5000

CITY AND STATE

VALENTINE, NE

ELEVATION: 2595

TDZE: 2589

AIRPORT NAME:

MILLER FIELD

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 14, AMDT 2

5 MARCH 2015

SUP:

AMDT:

DATED: 05/12/2005

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KVTN
RUNWAY	RW14
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W14A
LTP/FTP LATITUDE	425139.5280N
LTP/FTP LONGITUDE	1003304.5415W
LTP/FTP ELLIPSOIDAL HEIGHT	+07669
FPAP LATITUDE	425026.1085N
FPAP LONGITUDE	1003155.8755W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1432
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

<u>CRC REMAINDER</u>	3C23FCF6

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+07887
FPAP ORTHOMETRIC HEIGHT	+07887

CITY AND STATE

VALENTINE, NE

ELEVATION: 2595

TDZE: 2589

AIRPORT NAME:

MILLER FIELD

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 14, AMDT 2

5 MARCH 2015

SUP:

AMDT:

1

DATED:

05/12/2005

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP KVTNK3FR14	AAHOFU	010AHOFUK3EA0EE	AR	HF		13740050		+ 05000	18000			A JS	
SUSAP KVTNK3FR14	R	010AHOFUK3EA0E	I	IF				+ 05000	18000			A JS	
SUSAP KVTNK3FR14	R	020CITBOK3EA1E	F	051TF		13740050		+ 04400				A JS	
SUSAP KVTNK3FR14	R	020CITBOK3EA2WALPV			ALNAV/VNAV							JS	
SUSAP KVTNK3FR14	R	021HAKNOK3EA0E	S	031TF		13740034	V	0332003328		-300		A JS	
SUSAP KVTNK3FR14	R	030RW14	K3PGOGY	M	031TF	13740022		02628		-300		A JS	
SUSAP KVTNK3FR14	R	040		0	M	CA	1374		+ 02860			A JS	
SUSAP KVTNK3FR14	R	050GIYITK3EA0EY		DF				+ 05000				A JS	
SUSAP KVTNK3FR14	R	060GIYITK3EA0EE	R	HM		31760050		+ 05000				A JS	

[illegible][illegible]

CITY AND STATE VALENTINE, NE	ELEVATION: 2595	TDZE: 2589	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME:			RNAV (GPS) RWY 14, AMDT 2	AMDT: 1
	MILLER FIELD	RNAV	5 MARCH 2015	DATED: 05/12/2005	

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
 FLIGHT STANDARDS SERVICES - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	AHOFU	AHOFU	010	IAF	HF	R	FO		137.4 (145.4T)	005.0	AA 05000	
		AHOFU	010	FACF	IF		FB				AA 05000	
		CITBO	020	FAF	TF		FB	0.5	137.4 (145.4T)	005.0	AA 04400	
		HAKNO	021	SDF	TF		FB	0.3	137.4 (145.4T)	003.4	AA 03320 GS 03328	
		RW14	030	MAP	TF		FO	0.3	137.4 (145.4T)	002.2	AT 02628	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		137.4 (145.4T)		AA 02860	
	GIYIT	050		DF		FO				AA 05000	
	GIYIT	060		HM	R	FO		317.6 (325.6T)	005.0	AA 05000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	AHOFU	N430021.37	W1004114.40	N4300.356	W10041.240
	CITBO	N425614.55	W1003722.26	N4256.243	W10037.371
	GIYIT	N424225.02	W1002427.20	N4242.417	W10024.453
	HAKNO	N425328.28	W1003446.35	N4253.471	W10034.773
	RW14	N425139.53	W1003304.54	N4251.659	W10033.076

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW14	02588	40

CITY AND STATE VALENTINE, NE	ELEVATION: 2595	TDZE: 2589	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME:			RNAV (GPS) RWY 14, AMDT 2	AMDT: 1
	MILLER FIELD	RNAV	5 MARCH 2015	DATED: 05/12/2005	

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.												
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO		COURSE AND DISTANCE				ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW21 CLIMB TO 5000 DIRECT KILEA AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SW, RT, 028.22 INBOUND. CHART 2701 TOWER 425217N/1003249W. DISTANCE TO THLD FROM 250 HAT: 0.64 NM. CHART VDP AT 1.22 MILES TO RW21* *LNAV ONLY. WAAS CHANNEL # 97437 REFERENCE PATH ID: W21A CHART CIRCLING ICON. LTP HAE: 766.5 M						
MAIMS (IF/IAF)		STAPH (FB)		208.39 / 5.00				4300								
STAPH (FAF)		WADAB/1.90 NM TO RW21 (FB)		208.35 / 3.34												
WADAB/1.90 NM TO RW21		RW21 (MAP) (FO)		208.35 / 1.90												
RW21 (MAP)		2845 MSL		208.35												
2845 MSL		KILEA (FO)						5000								
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. HOLD NE MAIMS, RT, 208.39 INBOUND, 5000 FT. IN LIEU OF PT (IAF) 3. FAC: 208.35 FAF: STAPH DIST FAF TO MAP: 5.24 THLD: 5.24 4. MIN. ALT: MAIMS 5000, STAPH 4300, WADAB/1.90 NM TO RW21 3220* 5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT: 6. MIN GS INCPT: 4300 GS ALT AT: STAPH 4300 OM: MM: IM: 7. GS ANGLE: 3.00 TCH: 44.7 34:1 IS CLEAR 8. MSA FROM:										MAG VAR: 8E EPOCH YEAR: 2000						
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		STANDARD @						
CATEGORY =====>		A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
LPV DA	2845	1	250	2845	1	250		NA			NA					
LNAV/VNAV DA	2893	1	298	2893	1	298		NA			NA					
LNAV MDA	3020	1	425	3020	1	425		NA			NA					
CIRCLING	3080	1	485	3360	1	765		NA			NA					
NOTES: CHART NOTE: BARO-VNAV NA WHEN USING AINSWORTH RGNL ALTIMETER SETTING. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -24C (-11F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. (SEE FORM 8260-10)																
CITY AND STATE		ELEVATION: 2595 TDZE: 2595		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:						
VALENTINE, NE		AIRPORT NAME:		MILLER FIELD		RNAV (GPS) RWY 21, ORIG 5 MARCH 2015				AMDT: NONE						
										DATED						

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):

CHART NOTE: VDP NA WITH AINSWORTH RGNL ALTIMETER SETTING.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE AINSWORTH RGNL ALTIMETER SETTING AND INCREASE ALL DA 70 FEET AND ALL MDA 80 FEET, INCREASE LNAV/VNAV CAT A/B AND CIRCLING CAT B VISIBILITY 1/4 MILE.

TAA

	FROM	TO	ALT
1.	118/30 CW 298/30 (NOPT)	MAIMS (IF/IAF) (FB)	5000
2.	298/30 CW 118/30	MAIMS (IF/IAF) (FO)	5000

CITY AND STATE
VALENTINE, NE

ELEVATION: 2595 TDZE: 2595
AIRPORT NAME:
MILLER FIELD

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 21, ORIG
5 MARCH 2015

SUP:
AMDT: NONE
DATED:

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION**DATA FIELD****DATA**

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KVTN
RUNWAY	RW21
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W21A
LTP/FTP LATITUDE	425137.2065N
LTP/FTP LONGITUDE	1003252.4665W
LTP/FTP ELLIPSOIDAL HEIGHT	+07665
FPAP LATITUDE	425025.3730N
FPAP LONGITUDE	1003404.1640W
THRESHOLD CROSSING HEIGHT (TCH)	00044.7
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1712
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER

70392295

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+07883
FPAP ORTHOMETRIC HEIGHT	+07883

CITY AND STATE
VALENTINE, NE

ELEVATION: 2595 TDZE: 2595
AIRPORT NAME:
MILLER FIELD

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 21, ORIG
5 MARCH 2015

SUP: 
AMDT:  NONE
DATED: 

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP KVTNK3FR21	AMAIMS	010MAIMSK3EA0EE	AR	HF			20840050	+	05000	18000		A	JS
SUSAP KVTNK3FR21	R	010MAIMSK3EA0E	I	IF				+	05000	18000		A	JS
SUSAP KVTNK3FR21	R	020STAPHK3EA1E	F	051TF			20840050	+	04300			A	JS
SUSAP KVTNK3FR21	R	020STAPHK3EA2WALPV			ALNAV/VNAV	ALNAV							JS
SUSAP KVTNK3FR21	R	021WADABK3EA0E	S	031TF			20840033	V	0322003236	-300		A	JS
SUSAP KVTNK3FR21	R	030RW21 K3PG0GY	M	031TF			20840019		02631	-300		A	JS
SUSAP KVTNK3FR21	R	040	0	M	CA		2084	+	02845			A	JS
SUSAP KVTNK3FR21	R	050KILEAK3EA0EY		DF				+	05000			A	JS
SUSAP KVTNK3FR21	R	060KILEAK3EA0EE	R	HM			02820050	+	05000			A	JS

[illegible][illegible]

CITY AND STATE VALENTINE, NE	ELEVATION: 2595	TDZE: 2595	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 21, ORIG 5 MARCH 2015	SUP:
	AIRPORT NAME: MILLER FIELD	FACILITY IDENTIFIER: RNAV		AMDT: NONE
				DATED:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
 FLIGHT STANDARDS SERVICES - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	MAIMS	MAIMS	010	IAF	HF	R	FO		208.4 (216.4T)	005.0	AA 05000	
		MAIMS	010	FACF	IF		FB				AA 05000	
		STAPH	020	FAF	TF		FB	0.5	208.4 (216.4T)	005.0	AA 04300	
		WADAB	021	SDF	TF		FB	0.3	208.4 (216.4T)	003.3	AA 03220 GS 03236	
		RW21	030	MAP	TF		FO	0.3	208.4 (216.4T)	001.9	AT 02631	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		208.4 (216.4T)		AA 02845	
	KILEA	050		DF		FO				AA 05000	
	KILEA	060		HM	R	FO		028.2 (036.2T)	005.0	AA 05000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	KILEA	N424224.77	W1004202.84	N4242.413	W10042.047
	MAIMS	N425952.20	W1002436.80	N4259.870	W10024.613
	STAPH	N425550.58	W1002839.10	N4255.843	W10028.652
	WADAB	N425309.10	W1003120.67	N4253.152	W10031.345
	RW21	N425137.21	W1003252.47	N4251.620	W10032.875

RUNWAY DATA	THRESHOLD	ELEVATION	TCH
RWY			
RW21	02586		45

CITY AND STATE
VALENTINE, NE

ELEVATION: 2595 TDZE: 2595
 AIRPORT NAME:
 MILLER FIELD

FACILITY
 IDENTIFIER:
 RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
 RNAV (GPS) RWY 21, ORIG
 5 MARCH 2015

SUP:
 AMDT: NONE
 DATED:

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.			
TERMINAL ROUTES				MISSED APPROACH			
FROM	TO	COURSE AND DISTANCE	ALTITUDE	LNAV: RW30 CLIMB TO 2500 DIRECT OFFER AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NW, RT, 122.97 INBOUND. FAS OBST: 700 AAO 403703N/0743651W BUPDE TO RW30: 3.00/40. CHART CIRCLING ICON.			
AFOFY (IAF)	CARAK (FB)	236.59 / 5.82	2000				
BONIE (IAF)	CARAK (FB)	010.13 / 5.92	2000				
CARAK (IF)	BUPDE (FB)	302.12 / 4.87	1700				
BUPDE (FAF)	AKEXE/3.60 NM TO RW30 (FB)	302.03 / 1.29					
AKEXE/3.60 NM TO RW30	RW30 (MAP) (FO)	302.03 / 3.60					
RW30 (MAP)	506 MSL	302.03					
506 MSL	OFFER (FO)		2500				

1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)							
2. PROFILE STARTS AT CARAK							
3. FAC: 302.03 FAF: BUPDE DIST FAF TO MAP: 4.89 THLD: 4.89							
4. MIN. ALT: CARAK 2000, BUPDE 1700, AKEXE/3.60 NM TO RW30 1280							
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____							
6. MIN GS INCPT: _____ GS ALT AT: _____ OM: _____ MM: _____ IM: _____							
7. GS ANGLE: _____ TCH: 34:1 IS NOT CLEAR							
8. MSA FROM: RW30 2900							

MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A		@			
CATEGORY >>>>>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LNAV MDA	960	1	856	960	1 1/4	856		NA			NA				
CIRCLING	960	1 1/4	854	960	1 1/4	854		NA			NA				

NOTES: CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE MORRISTOWN ALTIMETER SETTING AND INCREASE ALL MDA 60 FEET; INCREASE LNAV CAT A VISIBILITY 1/4 MILE. (SEE FORM 8260-10)																@ CAT A, B 900-2				
CITY AND STATE												ELEVATION: 106 TDZE: 104		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:			SUP:	
SOMERVILLE, NJ												AIRPORT NAME: SOMERSET		RNAV (GPS) RWY 30, AMDT 2		AMDT: 1				
														5 MARCH 2015		DATED 05/31/2012				

**RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):**CHART PLANVIEW NOTE: RADAR REQUIRED FOR ARRIVALS AT AFOPY.****CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BONIE ON V213 SOUTHBOUND AND ON V433 WESTBOUND.****CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1SM NOT AUTHORIZED.****CHART NOTE: PROCEDURE NA AT NIGHT.**

QUALITY
24
CHECKED

CITY AND STATE

SOMERVILLE, NJ

ELEVATION: 106

TDZE: 104

AIRPORT NAME:

SOMERSET

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 30, AMDT 2

5 MARCH 2015

SUP:

AMDT: 1

DATED: 05/31/2012

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible]

QUALITY
24
CHECKED

CITY AND STATE SOMERVILLE, NJ	ELEVATION: 106 AIRPORT NAME: SOMERSET	TDZE: 104 RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 30, AMDT 2 5 MARCH 2015	SUP:
				AMDT: 1
				DATED: 05/31/2012

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - FAR PART 97.33												
ARINC SUMMARY - 424-18 - RNAV (GPS)												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	AFOPY	AFOPY	010	IAF	IF		FB					
	AFOPY	CARAK	020		TF		FB	1.0	236.6 (223.6T)	005.8	AA 02000	
	BONIE	BONIE	010	IAF	IF		FB					
	BONIE	CARAK	020		TF		FB	1.0	010.1 (357.1T)	005.9	AA 02000	
		CARAK	010	FACF	IF		FB				AA 02000	
		BUPDE	020	FAF	TF		FB	0.5	302.1 (289.1T)	004.9	AA 01700	
		AKEXE	021	SDF	TF		FB	0.3	302.0 (289.0T)	001.3	AA 01280 GS 01290	
		RW30	030	MAP	TF		FO	0.3	302.0 (289.0T)	003.6	AT 00143	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		302.0 (289.0T)		AA 00506	
		OFFER	050		DF		FO				AA 02500	
		OFFER	060		HM	R	FO		123.0 (110.0T)	004.0	AA 02500	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		AFOPY	N403830.77		W0742237.05		N4038.513		W07422.618			
		AKEXE	N403618.43		W0743531.62		N4036.307		W07435.527			
		BONIE	N402822.45		W0742729.62		N4028.374		W07427.494			
		BUPDE	N403553.22		W0743355.65		N4035.887		W07433.928			
		CARAK	N403417.55		W0742752.99		N4034.293		W07427.883			
		OFFER	N404012.33		W0745026.64		N4040.206		W07450.444			
		RW30	N403728.74		W0743959.83		N4037.479		W07439.997			
RUNWAY DATA		RWY	THRESHOLD ELEVATION		TCH							
		RW30	00103		40							



CITY AND STATE SOMERVILLE, NJ	ELEVATION: 106	TDZE: 104	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 30, AMDT 2 5 MARCH 2015	SUP:
	AIRPORT NAME: SOMERSET		RNAV		AMDT: 1
					DATED: 05/31/2012

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33		Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.												
TERMINAL ROUTES				MISSED APPROACH												
FROM		TO		COURSE AND DISTANCE		ALTITUDE		LPV: DA LNAV/VNAV: DA								
HTO VORTAC		JORNU (FO)		314.28 / 4.37		1800		CLIMB TO 2000 DIRECT BIGGA AND HOLD.								
CCC VOR/DME (IAF)		JORNU (NOPT) (FB)		097.75 / 18.26		1800										
JORNU (IF/IAF)		HURUN (FB)		101.82 / 3.20		1500		ADDITIONAL FLIGHT DATA: HOLD W, RT, 102.08 INBOUND. DISTANCE TO THLD FROM 339 HAT: 0.63 NM. WAAS CHANNEL # 77928 REFERENCE PATH ID: W10B LTP HAE: -14.7 M								
HURUN (FAF)		RW10 (MAP) (FO)		101.87 / 3.10												
DA (MAP)		394 MSL		101.87												
394 MSL		BIGGA (FO)				2000										
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)								MAG VAR: 13W EPOCH YEAR: 1980								
2. HOLD W JORNU, LT, 101.82 INBOUND, 1800 FT. IN LIEU OF PT (IAF)																
3. FAC: 101.87 FAF: _____ DIST FAF TO MAP: _____ THLD: _____																
4. MIN. ALT: JORNU 1800, HURUN 1500																
5. DIST TO THLD FROM OM: 3.10 MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____																
6. MIN GS INCPT: 1500 GS ALT AT: HURUN 1500 OM: _____ MM: _____ IM: _____																
7. GS ANGLE: 4.20 TCH: 60.0 34:1 IS NOT CLEAR																
8. MSA FROM: RW10 2600																
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT						ALTERNATE: N A		X								
CATEGORY =====>		A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
LPV DA	394	1	339		NA			NA			NA					
LNAV/VNAV DA	531	1 3/8	476		NA			NA			NA					
NOTES: CHART NOTE: BARO-VNAV NA WHEN USING WESTHAMPTON BEACH ALTIMETER SETTING. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT. (SEE FORM 8260-10)																
CITY AND STATE EAST HAMPTON, NY		ELEVATION: 55 TDZE: 55 AIRPORT NAME: EAST HAMPTON				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) X RWY 10, AMDT 1 5 MARCH 2015				SUP: AMDT: ORIG DATED 07/26/2012				

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT CCC VOR/DME ON V16 SOUTHWEST BOUND.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON HTO VORTAC AIRWAY RADIALS 236 CW 039.

CHART NOTE: PROCEDURE NA AT NIGHT.

CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE WESTHAMPTON BEACH ALTIMETER SETTING AND INCREASE ALL DA 45 FEET AND INCREASE LPV AND LNAV/VNAV VISIBILITY 1/8 MILE.



CITY AND STATE EAST HAMPTON, NY	ELEVATION: 55 TDZE: 55 AIRPORT NAME: EAST HAMPTON	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) X RWY 10, AMDT 1 5 MARCH 2015	SUP:
				AMDT: ORIG
				DATED: 07/26/2012

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KHTO
RUNWAY	RW10
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	X
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W10B
LTP/FTP LATITUDE	405731.9775N
LTP/FTP LONGITUDE	0721537.0825W
LTP/FTP ELLIPSOIDAL HEIGHT	-00147
FPAP LATITUDE	405733.6425N
FPAP LONGITUDE	0721339.4990W
THRESHOLD CROSSING HEIGHT (TCH)	00060.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	04.20
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1456
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 F7E96782

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00167
FPAP ORTHOMETRIC HEIGHT	+00167

QUALITY
9
CHECKED

CITY AND STATE EAST HAMPTON, NY	ELEVATION: 55 TDZE: 55 AIRPORT NAME: EAST HAMPTON	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) X RWY 10, AMDT 1 5 MARCH 2015	SUP:
				AMDT: ORIG
				DATED: 07/26/2012

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

QUALITY
12
CHECKED

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

QUALITY
12
CHECKED

CITY AND STATE EAST HAMPTON, NY	ELEVATION: 55 AIRPORT NAME: EAST HAMPTON	TDZE: 55	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) X RWY 10, AMDT 1 5 MARCH 2015	SUP:	
					AMDT:	ORIG
					DATED:	07/26/2012

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICES - FAR PART 97.33								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
ARINC SUMMARY - 424-18 - RNAV (GPS)												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	CCC	CCC	010	IAF	IF		FB					
	CCC	JORNU	020		TF		FB	1.0	097.8 (084.8T)	018.3	AA 01800	
	HTO	HTO	010		IF		FB					
	HTO	JORNU	020		TF		FO	2.0	314.3 (301.3T)	004.4	AA 01800	
	HTO	JORNU	030	IAF	HF	L	FO		101.8 (088.8T)	004.0	AA 01800	
		JORNU	010	FACF	IF		FB				AA 01800	
		HURUN	020	FAF	TF		FB	0.5	101.8 (088.8T)	003.2	AA 01500	
		RW10	030	MAP	TF		FO	0.3	101.9 (088.9T)	003.1	AT 00115	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		101.9 (088.9T)		AA 00394	
		BIGGA	050		DF		FO				AA 02000	
		BIGGA	060		HM	R	FO		102.1 (089.1T)	004.0	AA 02000	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		CCC	N405546.62		W0724755.89		N4055.777		W07247.932			
		HTO	N405508.38		W0721900.14		N4055.140		W07219.002			
		BIGGA	N405744.00		W0720026.43		N4057.733		W07200.441			
		HURUN	N405728.39		W0721942.86		N4057.473		W07219.714			
		JORNU	N405724.50		W0722355.90		N4057.408		W07223.932			
		RW10	N405731.98		W0721537.08		N4057.533		W07215.618			
RUNWAY DATA		RWY	THRESHOLD ELEVATION		TCH							
		RW10	00055		60							



CITY AND STATE EAST HAMPTON, NY	ELEVATION: 55	TDZE: 55	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: EAST HAMPTON		RNAV	RNAV (GPS) X RWY 10, AMDT 1 5 MARCH 2015	ORIG
				DATED: 07/26/2012	

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33		Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.											
TERMINAL ROUTES										MISSED APPROACH					
FROM		TO		COURSE AND DISTANCE			ALTITUDE		LNAV: RW10						
JORDN		MATHW (FO)		270.43 / 26.98			1800		CLIMB TO 2000 DIRECT BIGGA AND HOLD.						
HTO VORTAC		MATHW (FO)		298.18 / 8.35			1800								
MATHW (IF/IAF)		GOODI (FB)		101.77 / 5.98			1600		ADDITIONAL FLIGHT DATA: HOLD W, RT, 102.08 INBOUND. CHART FAS OBST: 249 TREE 405758N/0721612W CHART 553 TOWER 405811N/0722047W. GOODI TO RW10: 3.04/49. CHART CIRCLING ICON.						
GOODI (FAF)		LAZYE/2.40 NM TO RW10 (FB)		101.85 / 2.24											
LAZYE/2.40 NM TO RW10		RW10 (MAP) (FO)		101.85 / 2.40											
RW10 (MAP)		455 MSL		101.85											
455 MSL		BIGGA (FO)					2000								
1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)															
2. HOLD W MATHW, RT, 101.77 INBOUND, 1800 FT. IN LIEU OF PT (IAF)															
3. FAC: 101.85 FAF: GOODI DIST FAF TO MAP: 4.64 THLD: 4.64															
4. MIN. ALT: MATHW 1800, GOODI 1600, LAZYE/2.40 NM TO RW10 860															
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:															
6. MIN GS INCPT: GS ALT AT: OM: MM: IM:															
7. GS ANGLE: TCH: 34:1 IS NOT CLEAR															
8. MSA FROM: RW10 2600															
MAG VAR: 13W EPOCH YEAR: 1980															
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A X					
CATEGORY >>>>>>		A		B		C		D		E					
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LNAV MDA	500	1	445	500	1	445	500	1 3/8	445	500	1 3/8	445			
CIRCLING	600	1	545	600	1	545	640	1 1/2	585	800	2 1/2	745			
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON HTO VORTAC AIRWAY RADIALS 236 CW 285. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE WESTHAMPTON BEACH ALTIMETER SETTING AND INCREASE ALL MDA 60 FEET, INCREASE CIRCLING CAT C VISIBILITY 1/4 MILE. (SEE FORM 8260-10)															
CITY AND STATE		ELEVATION: 55 TDZE: 55		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 10, AMDT 1 5 MARCH 2015		SUP:							
EAST HAMPTON, NY		AIRPORT NAME: EAST HAMPTON						AMDT: ORIG							
								DATED 05/07/2009							

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):

CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.

CHART NOTE: PROCEDURE NA AT NIGHT.

CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT.



CITY AND STATE

EAST HAMPTON, NY

ELEVATION: 55

TDZE: 55

AIRPORT NAME:

EAST HAMPTON

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) Y RWY 10, AMDT 1

5 MARCH 2015

SUP:

AMDT: ORIG

DATED: 05/07/2009

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KHTOK6FR10-Y	AHTO	010HTO	K6D	0V					18000		B	JS
SUSAP	KHTOK6FR10-Y	AHTO	020MATHWK6EA0EY		020TF		29820084	+	01800			B	JS
SUSAP	KHTOK6FR10-Y	AHTO	030MATHWK6EA0EE	AR	HF		10180040	+	01800			B	JS
SUSAP	KHTOK6FR10-Y	AJORDN	010JORDNK6EA0E		IF					18000		B	JS
SUSAP	KHTOK6FR10-Y	AJORDN	020MATHWK6EA0EY		020TF		27040270	+	01800			B	JS
SUSAP	KHTOK6FR10-Y	AJORDN	030MATHWK6EA0EE	AR	HF		10180040	+	01800			B	JS
SUSAP	KHTOK6FR10-Y	R	010MATHWK6EA0E	I	IF			+	01800	18000		B	JS
SUSAP	KHTOK6FR10-Y	R	020GOODIK6EA1E	F	051TF		10180060	+	01600		RW10	K6PGB	JS
SUSAP	KHTOK6FR10-Y	R	020GOODIK6EA2WN			N	ALNAV						JS
SUSAP	KHTOK6FR10-Y	R	021LAZYEK6EA0E	S	031TF		10190022	V	0086000877		-304		B JS
SUSAP	KHTOK6FR10-Y	R	030RW10	K6PG0GY	M	031TF	10190024		00104		-304		B JS
SUSAP	KHTOK6FR10-Y	R	040		0	M	CA		1019				B JS
SUSAP	KHTOK6FR10-Y	R	050BIGGAK6EA0EY		DF				+	02000			B JS
SUSAP	KHTOK6FR10-Y	R	060BIGGAK6EA0EE		R	HM	10210040		+	02000			B JS

[illegible]

3 QUALITY
012 9
CHECKED

FAA FORM 8260 - 10 / April 2006 (Computer Generated) Page 3 of 5 Pages

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

SUSAP KHTOK6SRW10 K6PG

0 18018002625

M

QUALITY
9
CHECKED

CITY AND STATE

EAST HAMPTON, NY

ELEVATION: **55**

TDZE: 55

AIRPORT NAME:

EAST HAMPTON

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:

RNAV (GPS) Y RWY 10, AMDT 1

5 MARCH 2015

SUP:

AMDT:

ORIG

DATED:

05/07/2009

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - FAR PART 97.33												
ARINC SUMMARY - 424-18 - RNAV (GPS)												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	HTO	HTO	010		IF		FB					
	HTO	MATHW	020		TF		FO	2.0	298.2 (285.2T)	008.4	AA 01800	
	HTO	MATHW	030	IAF	HF	R	FO		101.8 (088.8T)	004.0	AA 01800	
	JORDN	JORDN	010		IF		FB					
	JORDN	MATHW	020		TF		FO	2.0	270.4 (257.4T)	027.0	AA 01800	
	JORDN	MATHW	030	IAF	HF	R	FO		101.8 (088.8T)	004.0	AA 01800	
		MATHW	010	FACF	IF		FB				AA 01800	
		GOODI	020	FAF	TF		FB	0.5	101.8 (088.8T)	006.0	AA 01600	
		LAZYE	021	SDF	TF		FB	0.3	101.9 (088.9T)	002.2	AA 00860	GS 00877
		RW10	030	MAP	TF		FO	0.3	101.9 (088.9T)	002.4	AT 00104	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		101.9 (088.9T)		AA 00455	
		BIGGA	050		DF		FO				AA 02000	
		BIGGA	060		HM	R	FO		102.1 (089.1T)	004.0	AA 02000	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		HTO	N405508.38		W0721900.14		N4055.140		W07219.002			
		BIGGA	N405744.00		W0720026.43		N4057.733		W07200.441			
		GOODI	N405726.57		W0722144.51		N4057.443		W07221.742			
		JORDN	N410316.92		W0715452.66		N4103.282		W07154.878			
		LAZYE	N405729.22		W0721847.11		N4057.487		W07218.785			
		MATHW	N405719.11		W0722937.93		N4057.319		W07229.632			
		RW10	N405731.98		W0721537.08		N4057.533		W07215.618			
RUNWAY DATA			THRESHOLD									
		RWY	ELEVATION		TCH							
		RW10	00055		49							



CITY AND STATE EAST HAMPTON, NY	ELEVATION: 55	TDZE: 55	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: EAST HAMPTON		RNAV	RNAV (GPS) Y RWY 10, AMDT 1	AMDT: ORIG
	5 MARCH 2015			DATED: 05/07/2009	

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.								
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO		COURSE AND DISTANCE				ALTITUDE		LP: RW28 LNAV: RW28						
JORDN (IAF)		BIGGA (FB)		230.25 / 6.96				2000		CLIMB TO 2000 DIRECT MATHW AND HOLD.						
BIGGA (IF)		FEAST (FB)		282.08 / 6.04				1600								
FEAST (FAF)		HTOAD/1.56 NM TO RW28 (FB)		282.00 / 3.20												
HTOAD/1.56 NM TO RW28		RW28 (MAP) (FO)		282.00 / 1.56												
RW28 (MAP)		400 MSL		282.00												
400 MSL		MATHW (FO)						2000		ADDITIONAL FLIGHT DATA: HOLD W, RT, 101.77 INBOUND. CHART FAS OBST: 140 TREE 405737N/0721427W CHART FAS OBST: 170 TREE 405808N/0721440W WAAS CHANNEL # 90332 REFERENCE PATH ID: W28B FEAST TO RW28: 3.00/54. CHART CIRCLING ICON. LTP HAE: -22.2 M						
1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)																
2. PROFILE STARTS AT BIGGA																
3. FAC: 282.00 FAF: FEAST DIST FAF TO MAP: 4.76 THLD: 4.76																
4. MIN. ALT: BIGGA 2000, FEAST 1600, HTOAD/1.56 NM TO RW28 580																
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____																
6. MIN GS INCPT: ____ GS ALT AT: ____ OM: ____ MM: ____ IM: ____																
7. GS ANGLE: ____ TCH: 34:1 IS NOT CLEAR																
8. MSA FROM: RW28 2600																
										MAG VAR: 13W		EPOCH YEAR: 1980				
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		X							
CATEGORY =====>		A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
LP MDA	400	1	354	400	1	354	400	1	354	400	1	354				
LNAV MDA	420	1	374	420	1	374	420	1	374	420	1	374				
CIRCLING	600	1	545	600	1	545	640	1 1/2	585	800	2 1/2	745				
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NA. CHART NOTE: PROCEDURE NA AT NIGHT. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE WESTHAMPTON BEACH ALTIMETER SETTING AND (SEE FORM 8260-10)																
CITY AND STATE EAST HAMPTON, NY		ELEVATION: 55 TDZE: 46 AIRPORT NAME: EAST HAMPTON		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 28, AMDT 1 5 MARCH 2015				SUP: RNAV (GPS) RWY 28 AMDT: ORIG DATED 05/07/2009						

RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):
INCREASE ALL MDA 60 FEET; INCREASE LP CAT C AND D VISIBILITY 1/8 MILE AND LNAV CAT C AND D VISIBILITY 1/4 MILE; INCREASE CIRCLING CAT C VISIBILITY 1/4 MILE.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT JORDN ON V268 EASTBOUND.



CITY AND STATE EAST HAMPTON, NY	ELEVATION: 55	TDZE: 46	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 28, AMDT 1 5 MARCH 2015	SUP: RNAV (GPS) RWY 28
	AIRPORT NAME:				AMDT: ORIG
	EAST HAMPTON				DATED: 05/07/2009

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KHTO
RUNWAY	RW28
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W28B
LTP/FTP LATITUDE	405732.7660N
LTP/FTP LONGITUDE	0721441.6305W
LTP/FTP ELLIPSOIDAL HEIGHT	-00222
FPAP LATITUDE	405731.0845N
FPAP LONGITUDE	0721639.2135W
THRESHOLD CROSSING HEIGHT (TCH)	00053.6
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1456
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0
 <u>CRC REMAINDER</u>	 85C39A5A

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00092
FPAP ORTHOMETRIC HEIGHT	+00092

QUALITY
9
CHECKED

CITY AND STATE EAST HAMPTON, NY	ELEVATION: 55 TDZE: 46 AIRPORT NAME: EAST HAMPTON	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 28, AMDT 1 5 MARCH 2015	SUP: RNAV (GPS) RWY 28
				AMDT: ORIG
				DATED: 05/07/2009

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KHTOK6FR28-Y	AJORDN	010JORDNK6EA0E	A	IF					18000		A	JS
SUSAP	KHTOK6FR28-Y	AJORDN	020BIGGAK6EA0EE	B	010TF		23030070	+	02000			A	JS
SUSAP	KHTOK6FR28-Y	R	010BIGGAK6EA0E	I	IF			+	02000	18000		A	JS
SUSAP	KHTOK6FR28-Y	R	020FEASTK6EA1E	F	051TF		28210060	+	01600		RW28	K6PGA	JS
SUSAP	KHTOK6FR28-Y	R	020FEASTK6EA2WALP			N	ALNAV						JS
SUSAP	KHTOK6FR28-Y	R	021HTOADK6EA0E	S	031TF		28200032	V	0058000581		-300	A	JS
SUSAP	KHTOK6FR28-Y	R	030RW28 K6PGOGY	M	031TF		28200016		00084		-300	A	JS
SUSAP	KHTOK6FR28-Y	R	040		0 M	CA	2820	+	00400			A	JS
SUSAP	KHTOK6FR28-Y	R	050MATHWK6EA0EY		DF			+	02000			A	JS
SUSAP	KHTOK6FR28-Y	R	060MATHWK6EA0EE	R	HM		10180040	+	02000			A	JS

[illegible][illegible][illegible]

QUALITY
9
CHECKED

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICES - FAR PART 97.33								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
ARINC SUMMARY - 424-18 - RNAV (GPS)												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	JORDN	JORDN	010	IAF	IF		FB					
	JORDN	BIGGA	020		TF		FB	1.0	230.3 (217.3T)	007.0	AA 02000	
		BIGGA	010	FACF	IF		FB				AA 02000	
		FEAST	020	FAF	TF		FB	0.5	282.1 (269.1T)	006.0	AA 01600	
		HTOAD	021	SDF	TF		FB	0.3	282.0 (269.0T)	003.2	AA 00580	GS 00581
		RW28	030	MAP	TF		FO	0.3	282.0 (269.0T)	001.6	AT 00084	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		282.0 (269.0T)		AA 00400	
		MATHW	050		DF		FO				AA 02000	
		MATHW	060		HM	R	FO		101.8 (088.8T)	004.0	AA 02000	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		BIGGA	N405744.00		W0720026.43		N4057.733		W07200.441			
		FEAST	N405737.93		W0720824.63		N4057.632		W07208.411			
		HTOAD	N405734.50		W0721238.11		N4057.575		W07212.635			
		JORDN	N410316.92		W0715452.66		N4103.282		W07154.878			
		MATHW	N405719.11		W0722937.93		N4057.319		W07229.632			
		RW28	N405732.77		W0721441.63		N4057.546		W07214.694			
RUNWAY DATA			THRESHOLD									
		RWY	ELEVATION		TCH							
		RW28	00030		54							



CITY AND STATE EAST HAMPTON, NY	ELEVATION: 55 AIRPORT NAME: EAST HAMPTON	TDZE: 46	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) Y RWY 28, AMDT 1 5 MARCH 2015	SUP:	RNAV (GPS) RWY 28
					AMDT:	ORIG
					DATED:	05/07/2009

RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON HTO VORTAC AIRWAY RADIALS 236 CW 285.
CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE WESTHAMPTON BEACH ALTIMETER SETTING AND INCREASE ALL DA 45 FEET; INCREASE LNAV/VNAV VISIBILITY 1/8 MILE ALL CATS.
CHART NOTE: PROCEDURE NA AT NIGHT.



CITY AND STATE EAST HAMPTON, NY	ELEVATION: 55 TDZE: 55 AIRPORT NAME: EAST HAMPTON	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Z RWY 10, AMDT 1 5 MARCH 2015	SUP:
				AMDT: ORIG-A
				DATED: 07/29/2010

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION**DATA FIELD****DATA**

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KHTO
RUNWAY	RW10
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Z
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W10A
LTP/FTP LATITUDE	405731.9775N
LTP/FTP LONGITUDE	0721537.0825W
LTP/FTP ELLIPSOIDAL HEIGHT	-00147
FPAP LATITUDE	405733.6395N
FPAP LONGITUDE	0721339.4990W
THRESHOLD CROSSING HEIGHT (TCH)	00060.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.42
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1456
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER

A2DD7E63

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00167
FPAP ORTHOMETRIC HEIGHT	+00167

QUALITY
9
CHECKED

CITY AND STATE

EAST HAMPTON, NY

ELEVATION: 55

TDZE: 55

AIRPORT NAME:

EAST HAMPTON

 FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) Z RWY 10, AMDT 1

5 MARCH 2015

SUP:

AMDT: ORIG-A

DATED: 07/29/2010

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KHTOK6FR10-Z	AHTO	010HTO	K6D 0V	IF					18000		A JS	
SUSAP	KHTOK6FR10-Z	AHTO	020MATHWK6EA0EY	020TF			29820084	+	01800			A JS	
SUSAP	KHTOK6FR10-Z	AHTO	030MATHWK6EA0EE	AR	HF		10180040	+	01800			A JS	
SUSAP	KHTOK6FR10-Z	AJORDN	010JORDNK6EA0E	IF						18000		A JS	
SUSAP	KHTOK6FR10-Z	AJORDN	020MATHWK6EA0EY	020TF			27040270	+	01800			A JS	
SUSAP	KHTOK6FR10-Z	AJORDN	030MATHWK6EA0EE	AR	HF		10180040	+	01800			A JS	
SUSAP	KHTOK6FR10-Z	R	010MATHWK6EA0E	I	IF			+	01800	18000		A JS	
SUSAP	KHTOK6FR10-Z	R	020GOODIK6EA1E	F	051TF		10180060	+	01800		RW10	K6PGA	JS
SUSAP	KHTOK6FR10-Z	R	020GOODIK6EA2WALPV			ALNAV/VNAV N							JS
SUSAP	KHTOK6FR10-Z	R	030RW10	K6PG0GY	M	031TF	10190046		00115		-342		A JS
SUSAP	KHTOK6FR10-Z	R	040		0	M	1019	+	00361				A JS
SUSAP	KHTOK6FR10-Z	R	050BIGGAK6EA0EY		DF				02000				A JS
SUSAP	KHTOK6FR10-Z	R	060BIGGAK6EA0EE		R	HM	10210040	+	02000				A JS

[illegible][illegible]

CITY AND STATE EAST HAMPTON, NY	ELEVATION: 55 TDZE: 55 AIRPORT NAME: EAST HAMPTON	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
			RNAV (GPS) Z RWY 10, AMDT 1	AMDT: ORIG-A
			5 MARCH 2015	DATED: 07/29/2010

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

SUSAP KHTOK6PR10-Z RW10 002E +00167+00167LPV 40112

	1	2	3	4	5	6	7	8	9	0	1	2	3	
MSA	1	2	3	4	5	6	7	8	9	0	1	2	3	

	SUSAP KHTOK6SRW10 K6PG			0	18018002625							M		

QUALITY
9
CHECKED

CITY AND STATE EAST HAMPTON, NY	ELEVATION: 55	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) Z RWY 10, AMDT 1 5 MARCH 2015	SUP:
	AIRPORT NAME: EAST HAMPTON			AMDT: ORIG-A
				DATED: 07/29/2010

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - FAR PART 97.33												
ARINC SUMMARY - 424-18 - RNAV (GPS)												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	HTO	HTO	010		IF		FB					
	HTO	MATHW	020		TF		FO	2.0	298.2 (285.2T)	008.4	AA 01800	
	HTO	MATHW	030	IAF	HF	R	FO		101.8 (088.8T)	004.0	AA 01800	
	JORDN	JORDN	010		IF		FB					
	JORDN	MATHW	020		TF		FO	2.0	270.4 (257.4T)	027.0	AA 01800	
	JORDN	MATHW	030	IAF	HF	R	FO		101.8 (088.8T)	004.0	AA 01800	
		MATHW	010	FACF	IF		FB				AA 01800	
		GOODI	020	FAF	TF		FB	0.5	101.8 (088.8T)	006.0	AA 01800	
		RW10	030	MAP	TF		FO	0.3	101.9 (088.9T)	004.6	AT 00115	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		101.9 (088.9T)		AA 00361	
		BIGGA	050		DF		FO				AA 02000	
		BIGGA	060		HM	R	FO		102.1 (089.1T)	004.0	AA 02000	
POINT DATA		WAYPOINT										
					LAT IN SECS	LONG IN SECS		LAT IN MINS		LONG IN MINS		
		HTO			N405508.38	W0721900.14		N4055.140		W07219.002		
		BIGGA			N405744.00	W0720026.43		N4057.733		W07200.441		
		GOODI			N405726.57	W0722144.51		N4057.443		W07221.742		
		JORDN			N410316.92	W0715452.66		N4103.282		W07154.878		
		MATHW			N405719.11	W0722937.93		N4057.319		W07229.632		
		RW10			N405731.98	W0721537.08		N4057.533		W07215.618		
RUNWAY DATA				THRESHOLD								
		RWY		ELEVATION		TCH						
		RW10	00055			60						



CITY AND STATE EAST HAMPTON, NY	ELEVATION: 55	TDZE: 55	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME:			RNAV (GPS) Z RWY 10, AMDT 1	AMDT: ORIG-A
	EAST HAMPTON	RNAV	5 MARCH 2015	DATED: 07/29/2010	

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.								
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO		COURSE AND DISTANCE				ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW28						
JORDN (IAF)		BIGGA (FB)		230.25 / 6.96				2000		CLIMB TO 2000 DIRECT MATHW AND HOLD.						
BIGGA (IF)		FEAST (FB)		282.08 / 6.04				1900								
FEAST (FAF)		HTOAD/1.56 NM TO RW28 (FB)		282.00 / 3.20												
HTOAD/1.56 NM TO RW28		RW28 (MAP) (FO)		282.00 / 1.56												
RW28 (MAP)		350 MSL		282.00												
350 MSL		MATHW (FO)						2000		ADDITIONAL FLIGHT DATA: HOLD W, RT, 101.77 INBOUND. CHART FAS OBST: 170 TREE 405808N/0721440W DISTANCE TO THLD FROM 304 HAT: 0.70 NM. WAAS CHANNEL # 49037 REFERENCE PATH ID: W28A CHART CIRCLING ICON. LTP HAE: -22.2 M						
1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)										MAG VAR: 13W EPOCH YEAR: 1980						
2. PROFILE STARTS AT BIGGA																
3. FAC: 282.00 FAF: FEAST DIST FAF TO MAP: 4.76 THLD: 4.76																
4. MIN. ALT: BIGGA 2000, FEAST 1900, HTOAD/1.56 NM TO RW28 680*																
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____																
6. MIN GS INCPT: 1900 GS ALT AT: FEAST 1900 OM: ____ MM: ____ IM: ____																
7. GS ANGLE: 3.58 TCH: 60.0 34:1 IS NOT CLEAR																
8. MSA FROM: RW28 2600																
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		X							
CATEGORY =====>		A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
LPV DA	350	1	304	350	1	304	350	1	304		NA					
LNAV/VNAV DA	356	1	310	356	1	310	356	1	310		NA					
LNAV MDA	420	1	374	420	1	374	420	1	374		NA					
CIRCLING	600	1	545	600	1	545	640	1 1/2	585		NA					
NOTES: CHART NOTE: BARO-VNAV NA WHEN USING WEST HAMPTON BEACH ALTIMETER SETTING. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 48C (118F). CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT. (SEE FORM 8260-10)																
CITY AND STATE EAST HAMPTON, NY		ELEVATION: 55 TDZE: 46 AIRPORT NAME: EAST HAMPTON			FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Z RWY 28, ORIG 5 MARCH 2015					SUP: AMDT: NONE DATED				

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):

*RNAV ONLY

CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.

CHART NOTE: PROCEDURE NA AT NIGHT.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT JORDN ON V268 EASTBOUND.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE WESTHAMPTON BEACH ALTIMETER SETTING AND INCREASE ALL DA 45 FEET AND ALL MDA 60 FEET; INCREASE RNAV CAT C AND CIRCLING CAT C VISIBILITY 1/4 MILE.



CITY AND STATE EAST HAMPTON, NY	ELEVATION: 55 TDZE: 46 AIRPORT NAME: EAST HAMPTON	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Z RWY 28, ORIG 5 MARCH 2015	SUP:
				AMDT: NONE
				DATED:

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KHTO
RUNWAY	RW28
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Z
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W28A
LTP/FTP LATITUDE	405732.7660N
LTP/FTP LONGITUDE	0721441.6305W
LTP/FTP ELLIPSOIDAL HEIGHT	-00222
FPAP LATITUDE	405731.0845N
FPAP LONGITUDE	0721639.2135W
THRESHOLD CROSSING HEIGHT (TCH)	00060.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.58
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1456
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 03F128BE

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00092
FPAP ORTHOMETRIC HEIGHT	+00092

QUALITY
9
CHECKED

CITY AND STATE EAST HAMPTON, NY	ELEVATION: 55 TDZE: 46 AIRPORT NAME: EAST HAMPTON	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Z RWY 28, ORIG 5 MARCH 2015	SUP:
				AMDT: NONE
				DATED:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION <u>RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE</u> FLIGHT STANDARDS SERVICES - FAR PART 97.33	Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION <u>RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE</u> FLIGHT STANDARDS SERVICES - FAR PART 97.33	Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC PACKET - 424-18 - RNAV (GPS)

	1	2	3	4	5	6	7	8	9	0	1	2	3
WP	12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												
SUSAE	AENRT	BIGGA K60	W	N40574400W072002643				W0141	NAR	BIGGA			
SUSAE	AENRT	FEAST K60	W	N40573793W072082463				W0140	NAR	FEAST			
SUSAE	AENRT	HTOAD K60	W	N40573450W072123811				W0140	WGE	HTOAD			
SUSAE	AENRT	JORDN K60	C L	N41031692W071545266				W0142	NAR	JORDN			
SUSAE	AENRT	MATHW K60	W	N40571911W072293793				W0139	NAR	MATHW			

[illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KHTOK6FR28-Z	AJORDN	010JORDNK6EA0E	A	IF					18000		A	JS
SUSAP	KHTOK6FR28-Z	AJORDN	020BIGGAK6EA0EE	B	010TF		23030070	+	02000			A	JS
SUSAP	KHTOK6FR28-Z	R	010BIGGAK6EA0E	I	IF			+	02000	18000		A	JS
SUSAP	KHTOK6FR28-Z	R	020FEASTK6EA1E	F	051TF		28210060	+	01900		RW28	K6PGA	JS
SUSAP	KHTOK6FR28-Z	R	020FEASTK6EA2WALPV			ALNAV/VNAV	ALNAV						JS
SUSAP	KHTOK6FR28-Z	R	021HTOADK6EA0E	S	031TF		28200032	V	0068000683		-358	A	JS
SUSAP	KHTOK6FR28-Z	R	030RW28	K6PGOGY	M	031TF	28200016		00090		-358	A	JS
SUSAP	KHTOK6FR28-Z	R	040	0	M	CA	2820	+	00350			A	JS
SUSAP	KHTOK6FR28-Z	R	050MATHWK6EA0EY		DF			+	02000			A	JS
SUSAP	KHTOK6FR28-Z	R	060MATHWK6EA0EE	R	HM		10180040	+	02000			A	JS

[illegible][illegible][illegible][illegible]

CITY AND STATE
EAST HAMPTON, NY

ELEVATION: 55	TDZE: 46
AIRPORT NAME:	
EAST HAMPTON	

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
RNAV (GPS) Z RWY 28, ORIG
 5 MARCH 2015

SUP:
AMDT: NONE
DATED:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - FAR PART 97.33												
ARINC SUMMARY - 424-18 - RNAV (GPS)												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	JORDN	JORDN	010	IAF	IF		FB					
	JORDN	BIGGA	020		TF		FB	1.0	230.3 (217.3T)	007.0	AA 02000	
		BIGGA	010	FACF	IF		FB				AA 02000	
		FEAST	020	FAF	TF		FB	0.5	282.1 (269.1T)	006.0	AA 01900	
		HTOAD	021	SDF	TF		FB	0.3	282.0 (269.0T)	003.2	AA 00680	GS 00683
		RW28	030	MAP	TF		FO	0.3	282.0 (269.0T)	001.6	AT 00090	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		282.0 (269.0T)		AA 00350	
		MATHW	050		DF		FO				AA 02000	
		MATHW	060		HM	R	FO		101.8 (088.8T)	004.0	AA 02000	
POINT DATA		WAYPOINT			LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS	
		BIGGA			N405744.00		W0720026.43		N4057.733		W07200.441	
		FEAST			N405737.93		W0720824.63		N4057.632		W07208.411	
		HTOAD			N405734.50		W0721238.11		N4057.575		W07212.635	
		JORDN			N410316.92		W0715452.66		N4103.282		W07154.878	
		MATHW			N405719.11		W0722937.93		N4057.319		W07229.632	
		RW28			N405732.77		W0721441.63		N4057.546		W07214.694	
RUNWAY DATA				THRESHOLD								
		RWY		ELEVATION		TCH						
		RW28		00030		60						

QUALITY
9
CHECKED

CITY AND STATE EAST HAMPTON, NY	ELEVATION: 55	TDZE: 46	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME:		RNAV	RNAV (GPS) Z RWY 28, ORIG	AMDT: NONE
	EAST HAMPTON			5 MARCH 2015	DATED:

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33							Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.								
TERMINAL ROUTES										MISSED APPROACH					
FROM		TO		COURSE AND DISTANCE			ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: (CFBNW) CLIMB TO 500 THEN CLIMBING RIGHT TURN TO 3000 DIRECT CHANT AND HOLD. ADDITIONAL FLIGHT DATA: HOLD S, RT, 012.00 INBOUND. CHART FAS OBST: 230 ANT 404022N/0735158W 365 AAO 404133N/0735236W DISTANCE TO THLD FROM 250 HAT: 0.61 NM. CHART VDP AT 1.22 MILES TO CFBNW* *LNAV ONLY. WAAS CHANNEL # 40337 REFERENCE PATH ID: W13A CHART CIRCLING ICON. CHART PLANVIEW NOTE: FINAL APPROACH COURSE OFFSET 2.99 DEGREES. FAC CROSSES RWY C/L EXTENDED 2600 FROM THLD. LTP HAE: -28.1 M						
VERAZ (IAF)		PORRT (FB)		056.02 / 6.18			2000								
PORRT (IF)		FVONE (FB)		116.95 / 3.28			1200								
FVONE (FAF)		(CFBNW) (MAP) (FO)		131.71 / 3.56											
(CFBNW) (MAP)		500 MSL		131.71			500								
500 MSL		CHANT (FO)					3000								
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT PORRT 3. FAC: 131.71 FAF: FVONE DIST FAF TO MAP: 3.56 THLD: 3.56 4. MIN. ALT: PORRT 2000, FVONE 1200 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 1200 GS ALT AT: FVONE 1200 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 55.0 34:1 IS CLEAR 8. MSA FROM: RW13R 2900										MAG VAR: 14W		EPOCH YEAR: 2000			
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		STANDARD						
CATEGORY =====>		A		B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA	263	4000	250	263	4000	250	263	4000	250	263	4000	250			
LNAV/VNAV DA	309	4500	296	309	4500	296	309	4500	296	309	4500	296			
LNAV MDA	480	5500	467	480	5500	467	480	1 3/8	467	480	1 3/8	467			
CIRCLING	640	1	627	640	1	627	640	1 1/2	627	660	2	647			
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -11C (13F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: RADAR REQUIRED. (SEE FORM 8260-10)															
CITY AND STATE NEW YORK, NY		ELEVATION: 13 TDZE: 13 AIRPORT NAME: JOHN F KENNEDY INTL			FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Z RWY 13R, ORIG 5 MARCH 2015					SUP: QUALITY 4 CHECKED AMDT: NONE DATED			

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):
CHART PROFILE NOTE: VGS1 AND RNAV GLIDEPATH NOT COINCIDENT.
CHART SPEED ICON IN PLANVIEW AT VERAZ: MAX 210 KIAS
CHART SPEED ICON IN PLANVIEW AT PORRT: MAX 180 KIAS

CITY AND STATE NEW YORK, NY	ELEVATION: 13 AIRPORT NAME: JOHN F KENNEDY INTL	TDZE: 13	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Z RWY 13R, ORIG 5 MARCH 2015	SUP:
					AMDT: NONE
					DATED:



**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KJFK
RUNWAY	RW13R
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Z
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W13A
LTP/FTP LATITUDE	403844.9700N
LTP/FTP LONGITUDE	0734836.5700W
LTP/FTP ELLIPSOIDAL HEIGHT	-00281
FPAP LATITUDE	403803.4405N
FPAP LONGITUDE	0734652.9970W
THRESHOLD CROSSING HEIGHT (TCH)	00055.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 26030C66

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00038
FPAP ORTHOMETRIC HEIGHT	+00038

CITY AND STATE
NEW YORK, NY

ELEVATION: 13 TDZE: 13
AIRPORT NAME:
JOHN F KENNEDY INTL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) Z RWY 13R, ORIG
5 MARCH 2015

SUP: 
AMDT: NONE
DATED:

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICES - FAR PART 97.33								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
ARINC SUMMARY - 424-18 - RNAV (GPS)												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	VERAZ	VERAZ	010	IAF	IF		FB					AB 210
	VERAZ	PORRT	020		TF		FB	1.0	056.0 (042.0T)	006.2	AA 02000	AB 180
		PORRT	010	FACF	IF		FB				AA 02000	AB 180
		FVONE	020	FAF	TF		FB	0.5	117.0 (103.0T)	003.3	AA 01200	
		CFBNW	030	MAP	TF		FO	0.3	131.7 (117.7T)	003.6	AT 00068	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		131.7 (117.7T)		AA 00500	
		CHANT	050		DF	R	FO				AA 03000	
		CHANT	060		HM	R	FO		012.0 (358.0T)	004.0	AA 03000	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		CFBNW	N403844.97		W0734836.57		N4038.750		W07348.610			
		CHANT	N401858.29		W0734524.99		N4018.972		W07345.417			
		FVONE	N404024.31		W0735244.75		N4040.405		W07352.746			
		PORRT	N404108.53		W0735656.81		N4041.142		W07356.947			
		VERAZ	N403633.00		W0740223.13		N4036.550		W07402.386			
		RW13R	N403843.78		W0734837.39		N4038.730		W07348.623			
RUNWAY DATA			THRESHOLD									
		RWY	ELEVATION		TCH							
		RW13R	00013			55						

CITY AND STATE NEW YORK, NY	ELEVATION: 13 AIRPORT NAME: JOHN F KENNEDY INTL	TDZE: 13	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) Z RWY 13R, ORIG 5 MARCH 2015	SUP: AMDT: NONE DATED:

U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)

Bearings, headings, courses, tracks and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated.
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

City, State	Airport	Effective Date	Amdt. No.
CAMBRIDGE, OH	CAMBRIDGE MUNI	5 MARCH 2015	3

TAKEOFF MINIMUMS:

RWY 04, 400-2 OR STANDARD WITH MINIMUM CLIMB OF 397 FT PER NM TO 1400.
RWY 22, 300-1 ½ OR STANDARD WITH MINIMUM CLIMB OF 685 FT PER NM TO 1100.

TEXTUAL DEPARTURE PROCEDURES:

RWY 04: CLIMB HEADING 040.11 TO 1300 BEFORE TURNING LEFT.

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 4, MULTIPLE TREES BEGINNING 161 FT FROM DER, 179 FT LEFT OF CENTERLINE, UP TO 51 FT AGL/849 FT MSL. MULTIPLE TREES BEGINNING 672 FT FROM DER, 563 FT RIGHT OF CENTERLINE, UP TO 62 FT AGL/860 FT MSL. MULTIPLE POLES BEGINNING 301 FT FROM DER, 519 FT RIGHT OF CENTERLINE, UP TO 31 FT AGL/973 FT MSL. MULTIPLE TOWERS BEGINNING 794 FT FROM DER, 659 FT LEFT OF CENTERLINE, UP TO 43 FT AGL/835 FT MSL. BLDG 639 FT FROM DER, 386 FT RIGHT OF CENTERLINE, 25 FT AGL/825 FT MSL. MULTIPLE POLES BEGINNING 990 FT FROM DER, 26 FT LEFT OF CENTERLINE, UP TO 36 FT AGL/826 FT MSL. MULTIPLE TREES BEGINNING 1147 FT FROM DER, 144 FT RIGHT OF CENTERLINE, UP TO 74 FT AGL/872 FT MSL. MULTIPLE TREES BEGINNING 1307 FT FROM DER, 2 FT LEFT OF CENTERLINE, UP TO 89 FT AGL/887 FT MSL. MULTIPLE TOWERS, POLES BEGINNING 1040 FT FROM DER, 336 FT RIGHT OF CENTERLINE, UP TO 48 FT AGL/843 FT MSL. MULTIPLE TOWERS, POLES BEGINNING 1089 FT FROM DER, 613 FT LEFT OF CENTERLINE, UP TO 36 FT AGL/833 FT MSL. SIGN 1029 FT FROM DER, 623 FT LEFT OF CENTERLINE, 35 FT AGL/832 FT MSL. MONUMENT 1.5 NM FROM DER, 402 FT LEFT OF CENTERLINE, 120 FT AGL/1098 FT MSL. MULTIPLE TREES BEGINNING 1.5 NM FROM DER, 738 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/1126 FT MSL. TOWER 2.8 NM FROM DER, 4400 FT LEFT OF CENTERLINE, 233 FT AGL/1106 FT MSL. NOTE: RWY 22, MULTIPLE TREES BEGINNING 204 FT FROM DER, 309 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/931 FT MSL. MULTIPLE POLES BEGINNING 366 FT FROM DER, 43 FT RIGHT OF CENTERLINE, UP TO 35 FT AGL/834 FT MSL. NAVAID 300 FT FROM DER, 1 FT RIGHT OF CENTERLINE, 9 FT AGL/807 FT MSL. OL ON DME 477 FT FROM DER, 168 FT RIGHT OF CENTERLINE, 19 FT AGL/817 FT MSL. MULTIPLE TREES BEGINNING 1004 FT FROM DER, 395 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/1023 FT MSL. MULTIPLE POLES BEGINNING 1165 FT FROM DER, 93 FT LEFT OF CENTERLINE, UP TO 34 FT AGL/1021 FT MSL. BLDG 1272 FT FROM DER, 426 FT RIGHT OF CENTERLINE, 21 FT AGL/881 FT MSL.

CONTROLLING OBSTACLES:

RWY 04: 1098 FT MSL MONUMENT 400005.39N/0813324.70W
RWY 22: 1021 FT MSL POLE 395745.63N/0813502.56W

OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: RWY 04; 1332 FT MSL TWR 400042.00N/0813535.00W

U.S. DEPARTMENT OF TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)

Bearings, headings, courses, tracks and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated.
Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

City, State	Airport	Effective Date	Amdt. No.
CAMBRIDGE, OH	CAMBRIDGE MUNI	5 MARCH 2015	3

REMARKS:

FLIGHT INSPECTED BY:

TODD HAIFLEY

05/01/2014

REQUIRED EFFECTIVE DATE:

ROUTINE

DEVELOPED BY:

CHRIS O'BRIEN

AJV-353

01/10/2014

APPROVED BY:

GEORGE GONZALEZ

AJV-353

NOV 21 2014

COORDINATED WITH:

ALPA, AOPA, NBAA, ZID, ZOB, AMGR

CHANGES:

1. ADDED TEXTUAL DEPARTURE PROCEDURE TO RWY 4.
2. CHANGED RWY 04 TAKEOFF MINIMUMS FROM "MINIMUM CLIMB OF 350 PER NM TO 1500" TO "MINIMUM CLIMB OF 397 FT PER NM TO 1400.
3. CHANGED RWY 22 TAKEOFF MINIMUMS FROM "MINIMUM CLIMB OF 350 PER NM TO 1500" TO "MINIMUM CLIMB OF 672 FT PER NM TO 1100.
4. UPDATE TAKEOFF OBSTACLE NOTES.

REASONS:

1. OBSTACLE IN DIVERSE "A" AREA REQUIRED MITIGATION.
- 2, 3. BASED ON NEW SURVEY DATA.
4. LOW CLOSE-IN OBSTACLES REQUIRE CHARTING.

11/15/2014: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 1/10/2014.

1. RWY 22 CLIMB GRADIENT INCREASED FROM 672'/NM TO 685'/NM.

ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.											
US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION															
TERMINAL ROUTES				MISSED APPROACH											
FROM CXR VOR/DME DJB VOR/DME DUPAY INT/I-LIZ 13.92 DME (IF/IAF)	TO DUPAY INT/I-LIZ 13.92 DME DUPAY INT/I-LIZ 13.92 DME SASCO INT/I-LIZ 7.91 DME	COURSE AND DISTANCE 255.57 / 43.90 149.37 / 6.51 056.94 / 6.01 (I-LIZ)	ALTITUDE 3100 3000 2800	ILS: DA LOC: 6.09 MILES AFTER SASCO INT/I-LIZ 7.91 DME OR AT I-LIZ 1.82 DME FIX CLIMB TO 1800 THEN CLIMBING LEFT TURN TO 3000 ON HEADING 350 AND ON DJB VOR/DME R-054 TO PASLE INT/20.00 DME AND HOLD, OR AS DIRECTED BY ATC. ALTERNATE MA: CLIMB TO 1800 THEN CLIMBING LEFT TURN TO 3000 DIRECT DJB VOR/DME AND HOLD. (GPS REQUIRED). ADDITIONAL FLIGHT DATA: HOLD SW, LT, 054.00 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD W DJB VOR/DME, RT, 077.04 INBOUND. FAS OBST: 999 AAO 412111N/081555W CHART VDP AT 3.18 DME* DISTANCE VDP TO THLD 1.36 MILES. *LOC ONLY. CHART CIRCLING ICON.											
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF)				MAG VAR: 7W EPOCH YEAR: 1990											
2. HOLD SW DUPAY, RT, 056.94 INBOUND, 3000 FT. IN LIEU OF PT (IAF)															
3. FAC: <u>056.94</u> FAF: SASCO INT/I-LIZ 7.91 DME DIST FAF TO MAP: <u>6.09</u> THLD: <u>6.09</u>															
4. MIN. ALT: DUPAY 3000, SASCO 2800, HADOS/I-LIZ 5.42 DME 2000*															
5. DIST TO THLD FROM OM: <u> </u> - <u> </u> MM: <u> </u> - <u> </u> IM: <u>879</u> 150 HAT: <u> </u> - <u> </u> 100 HAT: <u>897</u> GS ANT: <u>1036</u>															
6. MIN GS INCPT: <u>2800</u> GS ALT AT: SASCO 2800 OM: <u> </u> - <u> </u> MM: <u> </u> - <u> </u> IM: <u>872</u>															
7. GS ANGLE: <u>3.00</u> TCH: 55.0															
8. MSA FROM: DJB VOR/DME 3100															
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT				ALTERNATE: N A		ILS: #		LOC: STANDARD							
CATEGORY =====>	A		B		C		D		E						
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
S-ILS 06L	973	1800	200	973	1800	200	973	1800	200	973	1800	200			
S-LOC 06L	1260	2400	487	1260	2400	487	1260	5000	487	1260	5000	487			
SIDESTEP 06R	1260	6000	483	1260	6000	483	1260	1 1/2	483	1260	2	483			
CIRCLING	1420	1	621	1420	1	621	1420	1 3/4	621	1420	2	621			
NOTES: CATEGORY II ILS SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED S-ILS 6L: CAT A, B, C, D, RA # CAT A, B, C, D 700-2 111, RVR 1200, HAT 100, DA 873 MSL. CATEGORY III ILS SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED. S-ILS- 6L: CAT IIIa CAT A,B,C,D, RVR 700. CAT IIIb CAT A,B,C,D, RVR 600. CAT IIIc NA. (SEE FORM 8260-10)															
CITY AND STATE CLEVELAND, OH		ELEVATION: 799 TDZE: 06L 773 AIRPORT NAME: TDZE: 06R 777 CLEVELAND-HOPKINS INTL		FACILITY IDENTIFIER: I-LIZ		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 6L, AMDT 2F ILS RWY 6L (CAT II) , ILS RWY 6L (CAT III) 5 MARCH 2015				SUP: AMDT: 2E DATED 01/09/2014					



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION			Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.		
ILS - STANDARD					
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29					
NOTES, (CONT.): CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO SIDESTEP 6R. CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT. *LOC ONLY CHART NOTE ON ILS OR LOC RWY 6L: SIMULTANEOUS APPROACH AUTHORIZED WITH ILS OR LOC RWY 6R. CHART NOTE: SIMULTANEOUS OPERATIONS REQUIRE USE OF VERTICAL GUIDANCE; MAINTAIN LAST ASSIGNED ALTITUDE UNTIL ESTABLISHED ON GLIDESLOPE. CHART NOTE: SIDESTEP MANEUVER NOT AUTHORIZED PRIOR TO PASSING HADOS INT. CHART NOTE: WHEN VGSI IS INOP, CIRCLING RWY 10 NA AT NIGHT.					
CITY AND STATE CLEVELAND, OH	ELEVATION: 799	TDZE: 06L 773	FACILITY IDENTIFIER: I-LIZ	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
	AIRPORT NAME:	TDZE: 06R 777		ILS OR LOC RWY 6L, AMDT 2F ILS RWY 6L (CAT II) , ILS RWY 6L (CAT III)	AMDT: 2E
	CLEVELAND-HOPKINS INTL			5 MARCH 2015	DATED: 01/09/2014



FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NAVAID	1	2	3	4	5	6	7	8	9	0	1	2	3
12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012													
SUSAD	CXR	K5011270VDH	N41310094W081094747			N41310094W081094747W0050013172				NARCHARDON			
SUSAD	DJB	K5011360VDHA	N41212903W082094309			N41212903W082094309W0050007802				NARDRYER			
SUSAD KCLEK5	ILIZ	K5011155 IT				ILIZN41251194W081503568		007830		NARCLEVELAND-HOPKINS	INTL		

[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KCLEK5FI06L	ACXR	010CXR	K5D 0V	IF					18000		0	NS
SUSAP	KCLEK5FI06L	ACXR	020DUPAYK5PC0EY		TF			+	03100			0	NS
SUSAP	KCLEK5FI06L	ACXR	030DUPAYK5PC0EE	AR	HF	ILIZK5	237001390569T010PI	+	03000			0	NS
SUSAP	KCLEK5FI06L	ADJB	010DJB	K5D 0V	IF					18000		0	NS
SUSAP	KCLEK5FI06L	ADJB	020DUPAYK5PC0EY		TF			+	03000			0	NS
SUSAP	KCLEK5FI06L	ADJB	030DUPAYK5PC0EE	AR	HF	ILIZK5	237001390569T010PI	+	03000			0	NS
SUSAP	KCLEK5FI06L	I	010DUPAYK5PC0E	I	IF	ILIZK5	23700139	PI	J	030000280018000		0	NS
SUSAP	KCLEK5FI06L	I	020SASCOK5PC0E	F	CF	ILIZK5	2370007905700060PI	H	0280002800		-300DJB	K5D	0
SUSAP	KCLEK5FI06L	I	030RW06LK5PG0GY	M	CF	ILIZK5	2370001805700061PI		00825		-300		0
SUSAP	KCLEK5FI06L	I	040	0 M	CA		0569	+	01800			0	NS
SUSAP	KCLEK5FI06L	I	050	0	VI		3500					0	NS
SUSAP	KCLEK5FI06L	I	060PASLEK5PC0EY		CF	DJB K5	0540020005400030D	+	03000			0	NS
SUSAP	KCLEK5FI06L	I	070PASLEK5PC0EE	L	HM		0540T010	+	03000			0	NS

[illegible][illegible]

3
QUALITY
39012
-----15
CHECKED

SUP:	
AMDT:	2E
DATED:	01/09/2014

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29

SUSAP KCLEK5IILIZ3 011155RW06LN41251019W0815032900569N41240915W0815217522115 10360361300W00705500764

QUALITY
15
CHECKED

SUP:	
AMDT:	2E
DATED:	01/09/2014

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
ILS STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29												
ARINC SUMMARY - 424-18 - ILS												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	CXR	CXR	010		IF		FB					
	CXR	DUPAY	020		TF		FO				AA 03100	
	CXR	DUPAY	030	IAF	HF	R	FO		056.9 ()	T01.0	AA 03000	
	DJB	DJB	010		IF		FB					
	DJB	DUPAY	020		TF		FO				AA 03000	
	DJB	DUPAY	030	IAF	HF	R	FO		056.9 ()	T01.0	AA 03000	
		DUPAY	010	FACF	IF		FB				AA 03000 GI 02800	
		SASCO	020	FAF	CF		FB		057.0 ()	006.0	GI 02800 GS 02800	
		RW06L	030	MAP	CF		FO		057.0 ()	006.1	AT 00825	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		056.9 ()		AA 01800	
			050		VI		FB		350.0 ()			
		PASLE	060		CF		FO		054.0 ()	003.0	AA 03000	
		PASLE	070		HM	L	FO		054.0 ()	T01.0	AA 03000	
POINT DATA		WAYPOINT	LAT IN SECS			LONG IN SECS			LAT IN MINS		LONG IN MINS	
		CXR	N413100.94			W0810947.47			N4131.016		W08109.791	
		DJB	N412129.03			W0820943.09			N4121.484		W08209.718	
		ILIZ (DME)	N412511.94			W0815035.68			N4125.199		W08150.595	
		DUPAY	N411611.38			W0820441.44			N4116.190		W08204.691	
		PASLE	N413434.95			W0814936.39			N4134.583		W08149.607	
		SASCO	N412004.03			W0815835.87			N4120.067		W08158.598	
		RW06L	N412359.53			W0815224.55			N4123.992		W08152.409	
		ILIZ (LOC)	N412510.19			W0815032.90			N4125.170		W08150.548	
RUNWAY DATA		RWY	THRESHOLD ELEVATION		TCH							
		RW06L	00770		55							



CITY AND STATE CLEVELAND, OH	ELEVATION: 799	TDZE: 06L 773	FACILITY IDENTIFIER: I-LIZ	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: ILS OR LOC RWY 6L, AMDT 2F ILS RWY 6L (CAT II), ILS RWY 6L (CAT III) 5 MARCH 2015	SUP:
	AIRPORT NAME: CLEVELAND-HOPKINS INTL	TDZE: 06R 777			AMDT: 2E
	DATED: 01/09/2014				

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NAVAID	1	2	3	4	5	6	7	8	9	0	1	2	3
12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012													
SUSAD	CXR	K5011270VDH	N41310094W081094747			N41310094W081094747W0050013172				NARCHARDON			
SUSAD	DJB	K5011360VDHA	N41212903W082094309			N41212903W082094309W0050007802				NARDRYER			
SUSAD KCLEK5	ILIZ	K5011155 IT				ILIZN41251194W081503568		007830		NARCLEVELAND-HOPKINS	INTL		

[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3	
SUSAP	KCLEK5FL06L	ACXR	010CXR	K5D 0V	IF					18000		0	NS	
SUSAP	KCLEK5FL06L	ACXR	020DUPAYK5PC0EY	TF				+	03100			0	NS	
SUSAP	KCLEK5FL06L	ACXR	030DUPAYK5PC0EE	AR	HF	ILIZK5	237001390569T010PI	+	03000			0	NS	
SUSAP	KCLEK5FL06L	ADJB	010DJB	K5D 0V	IF					18000		0	NS	
SUSAP	KCLEK5FL06L	ADJB	020DUPAYK5PC0EY	TF				+	03000			0	NS	
SUSAP	KCLEK5FL06L	ADJB	030DUPAYK5PC0EE	AR	HF	ILIZK5	237001390569T010PI	+	03000			0	NS	
SUSAP	KCLEK5FL06L	L	010DUPAYK5PC0E	I	IF	ILIZK5	23700139	PI	+	03000	18000	0	NS	
SUSAP	KCLEK5FL06L	L	020SASCOK5PC0E	F	CF	ILIZK5	2370007905700060PI	+	02800		DJB	K5D	0	NS
SUSAP	KCLEK5FL06L	L	021HADOSK5PC0E	S	CF	ILIZK5	2370005405700025PI	+	02000		-308		0	NS
SUSAP	KCLEK5FL06L	L	030RW06LK5PG0GY	M	CF	ILIZK5	2370001805700036PI		00825		-308		0	NS
SUSAP	KCLEK5FL06L	L	040	0	M	CA	0569	+	01800				0	NS
SUSAP	KCLEK5FL06L	L	050	0	VI		3500						0	NS
SUSAP	KCLEK5FL06L	L	060PASLEK5PC0EY		CF	DJB K5	0540020005400030D	+	03000				0	NS
SUSAP	KCLEK5FL06L	L	070PASLEK5PC0EE	L	HM		0540T010	+	03000				0	NS

[illegible]

QUALITY
3 15
CHECKED

SUP:	
AMDT:	2E
DATED:	01/09/2014

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ILS 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012

SUSAP KCLEK5IILIZ3 011155RW06LN41251019W0815032900569N41240915W0815217522115 10360361300W00705500764

1 2 3 4 5 6 7 8 9 0 1 2 3
MSA 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012

SUSAP KCLEK5SDJB K5D 0 18018003125 M

QUALITY
15
CHECKED

CITY AND STATE
CLEVELAND, OH

ELEVATION: 799 TDZE: 06L 773
AIRPORT NAME: TDZE: 06R 777
CLEVELAND-HOPKINS INTL

FACILITY
IDENTIFIER:
I-LIZ

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
ILS OR LOC RWY 6L, AMDT 2F
ILS RWY 6L (CAT II), ILS RWY 6L (CAT III)
5 MARCH 2015

SUP:
AMDT: 2E
DATED: 01/09/2014

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
LOC STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25												
ARINC SUMMARY - 424-18 - LOC												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	CXR	CXR	010		IF		FB					
	CXR	DUPAY	020		TF		FO				AA 03100	
	CXR	DUPAY	030	IAF	HF	R	FO		056.9 ()	T01.0	AA 03000	
	DJB	DJB	010		IF		FB					
	DJB	DUPAY	020		TF		FO				AA 03000	
	DJB	DUPAY	030	IAF	HF	R	FO		056.9 ()	T01.0	AA 03000	
		DUPAY	010	FACF	IF		FB				AA 03000	
		SASCO	020	FAF	CF		FB		057.0 ()	006.0	AA 02800	
		HADOS	021	SDF	CF		FB		057.0 ()	002.5	AA 02000	
		RW06L	030	MAP	CF		FO		057.0 ()	003.6	AT 00825	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		056.9 ()		AA 01800	
			050		VI		FB		350.0 ()			
		PASLE	060		CF		FO		054.0 ()	003.0	AA 03000	
		PASLE	070		HM	L	FO		054.0 ()	T01.0	AA 03000	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		CXR	N413100.94		W0810947.47		N4131.016		W08109.791			
		DJB	N412129.03		W0820943.09		N4121.484		W08209.718			
		ILIZ (DME)	N412511.94		W0815035.68		N4125.199		W08150.595			
		DUPAY	N411611.38		W0820441.44		N4116.190		W08204.691			
		HADOS	N412140.38		W0815604.10		N4121.673		W08156.068			
		PASLE	N413434.95		W0814936.39		N4134.583		W08149.607			
		SASCO	N412004.03		W0815835.87		N4120.067		W08158.598			
		RW06L	N412359.53		W0815224.55		N4123.992		W08152.409			
		ILIZ (LOC)	N412510.19		W0815032.90		N4125.170		W08150.548			
RUNWAY DATA			THRESHOLD									
		RWY	ELEVATION		TCH							
		RW06L	00770		55							

QUALITY
15
CHECKED

CITY AND STATE CLEVELAND, OH	ELEVATION: 799	TDZE: 06L 773	FACILITY IDENTIFIER: I-LIZ	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: ILS OR LOC RWY 6L, AMDT 2F ILS RWY 6L (CAT II), ILS RWY 6L (CAT III) 5 MARCH 2015	SUP:
	AIRPORT NAME: CLEVELAND-HOPKINS INTL	TDZE: 06R 777			AMDT: 2E
					DATED: 01/09/2014

ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29							Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.									
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO			COURSE AND DISTANCE			ALTITUDE		ILS: DA LOC: 6.76 MILES AFTER ZANGI/I-PXP 7.85 DME/RADAR OR AT 1.10 DME FIX CLIMB TO 1400 THEN CLIMBING LEFT TURN TO 3000 DIRECT DJB VOR/DME AND HOLD, OR AS DIRECTED BY ATC. ALTERNATE MA: CLIMB TO 1300 THEN CLIMBING LEFT TURN TO 3000 ON HEADING 200 AND ON BSV VOR/DME R-322 TO SAROW INT/BSV 29.68 DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD W, RT, 077.04 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NW SAROW INT/BSV 29.68 DME, RT, 142.42 INBOUND. CHART FAS OBST: 955 TOWER 412446N/0814716W CHART: 1251 TOWER 412426N/0814028W CHART IN PLANVIEW: SAROW INT/BSV 29.68 DME. CHART CIRCLING ICON.						
ACO VOR/DME (IAF)		OPTOO INT/I-PXP 17.27 DME/RADAR			328.87 / 21.43			6000								
CXR VOR/DME (IAF)		OPTOO INT/I-PXP 17.27 DME/RADAR			248.56 / 15.71			6000								
OPTOO INT/I-PXP 17.27 DME/RADAR (IF)		NISYI/14.13 DME/RADAR			280.32 / 3.14 (I-PXP)			5000								
NISYI/14.13 DME/RADAR		KUYED/10.99 DME/RADAR			280.32 / 3.14 (I-PXP)			4000								
KUYED/10.99 DME/RADAR		ZANGI/7.85 DME/RADAR			280.32 / 3.14 (I-PXP)			3000								
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. PROFILE STARTS AT OPTOO 3. FAC: <u>280.32</u> FAF: <u>ZANGI/7.85 DME/RADAR</u> DIST FAF TO MAP: <u>6.76</u> THLD: <u>6.76</u> 4. MIN. ALT: OPTOO 6000, NISYI 5000, KUYED 4000, ZANGI 3000, WITLO/2.90 DME/RADAR 1420* 5. DIST TO THLD FROM OM: <u> </u> - <u> </u> MM: <u> </u> - <u> </u> IM: <u> </u> 150 HAT: <u> </u> - <u> </u> 100 HAT: <u> </u> - <u> </u> GS ANT: <u>1020</u> 6. MIN GS INCPT: <u>3000</u> GS ALT AT: <u>ZANGI 3000</u> OM: <u> </u> - <u> </u> MM: <u> </u> - <u> </u> IM: <u> </u> - <u> </u> 7. GS ANGLE: <u>3.00</u> TCH: <u>48.0</u> 8. MSA FROM: <u>DJB VOR/DME 3100</u>										MAG VAR: 7W		EPOCH YEAR: 1990				
MINIMUMS																
TAKEOFF: <u>SEE FAA FORM 8260-15A FOR THIS AIRPORT</u>							ALTERNATE: <u>N A</u>		ILS: <u>#</u>		LOC: <u>STANDARD</u>					
CATEGORY <u>=====</u>		A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
S-ILS 28**	999	4000	200	999	4000	200	999	4000	200	999	4000	200				
S-LOC 28	1420	4000	621	1420	4000	621	1420	1 1/2	621	1420	1 1/2	621				
CIRCLING	1420	1	621	1420	1	621	1420	1 3/4	621	1420	2	621				
WITLO FIX MINIMUMS (DME OR RADAR REQUIRED)																
S-LOC 28	1320	4000	521	1320	4000	521	1320	1 1/4	521	1320	1 1/4	521				
CIRCLING	1420	1	621	1420	1	621	1420	1 3/4	621	1420	2	621				
NOTES: CHART NOTE: WHEN VGSINOP, CIRCLING RWY 10 NA AT NIGHT. # CAT A, B, C, D 700-2 CHART NOTE: DME OR RADAR REQUIRED. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON ACO VOR/DME AIRWAY RADIALS 293 CW 347. *LOC ONLY (SEE FORM 8260-10)																
CITY AND STATE		ELEVATION: 799 TDZE: 799			FACILITY IDENTIFIER:		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:					SUP:				
CLEVELAND, OH		AIRPORT NAME:			I-PXP		ILS OR LOC RWY 28, AMDT 24C					AMDT: 24B				
		CLEVELAND-HOPKINS INTL					5 MARCH 2015					DATED 02/06/2014				



ILS - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):
CHART NOTE: ** RVR 2600 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA.
CHART NOTE: FOR INOPERATIVE MALSF, INCREASE S-LOC 28 CAT D VISIBILITY 1/4 MILE.



CITY AND STATE CLEVELAND, OH	ELEVATION: 799 TDZE: 799 AIRPORT NAME: CLEVELAND-HOPKINS INTL	FACILITY IDENTIFIER: I-PXP	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 28, AMDT 24C 5 MARCH 2015	SUP:
				AMDT: 24B
				DATED: 02/06/2014

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29

ARINC PACKET - 424-18 - ILS

[illegible]

QUALITY
15
CHECKED

Page 3 of 8 Pages

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible]

QUALITY
15
CHECKED

SUP:	
AMDT:	24B
DATED:	02/06/2014

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
ILS STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29												
ARINC SUMMARY - 424-18 - ILS												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	ACO	ACO	010	IAF	IF		FB					
	ACO	OPTOO	020		TF		FB				AA 06000	
	ACO	NISYI	030		TF		FB				AA 05000	
	ACO	KUYED	040		CF		FB		280.3 ()	003.1	AA 04000	
	CXR	CXR	010	IAF	IF		FB					
	CXR	OPTOO	020		TF		FB				AA 06000	
	CXR	NISYI	030		TF		FB				AA 05000	
	CXR	KUYED	040		CF		FB		280.3 ()	003.1	AA 04000	
		KUYED	010	FACF	IF		FB				AA 04000	GI 03000
		ZANGI	020	FAF	CF		FB		280.0 ()	003.1	GI 03000	GS 03000
		RW28	030	MAP	CF		FO		280.0 ()	006.8	AT 00847	
MISSED APPROACH												
		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		280.3 ()		AA 01400	
		DJB	050		DF		FO				AA 03000	
		DJB	060		HM	R	FO		077.0 ()	T01.0	AA 03000	
POINT DATA												
		WAYPOINT		LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS		
		ACO		N410628.45		W0811205.49		N4106.474		W08112.092		
		CXR		N413100.94		W0810947.47		N4131.016		W08109.791		
		DJB		N412129.03		W0820943.09		N4121.484		W08209.718		
		IPXP (DME)		N412458.72		W0815123.84		N4124.979		W08151.397		
		KUYED		N412422.66		W0813648.45		N4124.378		W08136.808		
		NISYI		N412411.19		W0813238.58		N4124.187		W08132.643		
		OPTOO		N412359.57		W0812828.74		N4123.993		W08128.479		
		ZANGI		N412433.97		W0814058.36		N4124.566		W08140.973		
		RW28		N412457.82		W0814956.44		N4124.964		W08149.941		
		IPXP (LOC)		N412501.52		W0815121.25		N4125.025		W08151.354		
RUNWAY DATA												
		RWY		THRESHOLD ELEVATION		TCH						
		RW28		00799		46						



CITY AND STATE CLEVELAND, OH	ELEVATION: 799	TDZE: 799	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: CLEVELAND-HOPKINS INTL		I-PXP	ILS OR LOC RWY 28, AMDT 24C 5 MARCH 2015	AMDT: 24B
					DATED: 02/06/2014

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25

ARINC PACKET - 424-18 - LOC

[illegible]

3
9012
---15
QUALITY
CHECKED

Page 6 of 8 Pages

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible]

QUALITY
15
CHECKED

SUP:	
AMDT:	24B
DATED:	02/06/2014

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
LOC STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25												
ARINC SUMMARY - 424-18 - LOC												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	ACO	ACO	010	IAF	IF		FB					
	ACO	OPTOO	020		TF		FB				AA 06000	
	ACO	NISYI	030		TF		FB				AA 05000	
	ACO	KUYED	040		CF		FB		280.3 ()	003.1	AA 04000	
	CXR	CXR	010	IAF	IF		FB					
	CXR	OPTOO	020		TF		FB				AA 06000	
	CXR	NISYI	030		TF		FB				AA 05000	
	CXR	KUYED	040		CF		FB		280.3 ()	003.1	AA 04000	
		KUYED	010	FACF	IF		FB				AA 04000	
		ZANGI	020	FAF	CF		FB		280.0 ()	003.1	AA 03000	
		WITLO	021	SDF	CF		FB		280.0 ()	005.0	AA 01420	
		RW28	030	MAP	CF		FO		280.0 ()	001.8	AT 00847	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		280.3 ()		AA 01400	
		DJB	050		DF		FO				AA 03000	
		DJB	060		HM	R	FO		077.0 ()	T01.0	AA 03000	
POINT DATA		WAYPOINT		LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS		
		ACO		N410628.45		W0811205.49		N4106.474		W08112.092		
		CXR		N413100.94		W0810947.47		N4131.016		W08109.791		
		DJB		N412129.03		W0820943.09		N4121.484		W08209.718		
		IPXP (DME)		N412458.72		W0815123.84		N4124.979		W08151.397		
		KUYED		N412422.66		W0813648.45		N4124.378		W08136.808		
		NISYI		N412411.19		W0813238.58		N4124.187		W08132.643		
		OPTOO		N412359.57		W0812828.74		N4123.993		W08128.479		
		WITLO		N412451.54		W0814733.14		N4124.859		W08147.552		
		ZANGI		N412433.97		W0814058.36		N4124.566		W08140.973		
		RW28		N412457.82		W0814956.44		N4124.964		W08149.941		
		IPXP (LOC)		N412501.52		W0815121.25		N4125.025		W08151.354		
RUNWAY DATA				THRESHOLD								
		RWY		ELEVATION		TCH						
		RW28	00799			46						
CITY AND STATE		ELEVATION: 799		TDZE: 799		FACILITY IDENTIFIER:		PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:			SUP:	
CLEVELAND, OH		AIRPORT NAME:		CLEVELAND-HOPKINS INTL		I-PXP		ILS OR LOC RWY 28, AMDT 24C			AMDT: 24B	
								5 MARCH 2015			DATED: 02/06/2014	



US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29							Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.						
TERMINAL ROUTES										MISSED APPROACH										
FROM			TO			COURSE AND DISTANCE			ALTITUDE		ILS: DA LOC: 6.81 MILES AFTER JEDSU/I-PVY 6.47 DME/RADAR OR AT 0.34 DME FIX CLIMB TO 1700 THEN CLIMBING RIGHT TURN TO 3000 DIRECT DJB VOR/DME AND HOLD, OR AS DIRECTED BY ATC. ALTERNATE MA: CLIMB TO 1700 THEN CLIMBING RIGHT TURN TO 3000 DIRECT DJB VOR/DME AND HOLD. (GPS REQUIRED). ADDITIONAL FLIGHT DATA: HOLD W, RT, 077.04 INBOUND. CHART FAS OBST: 879 TREE 412531N/0815002W CHART: 910 TOWER 412631N/0814819W CHART VDP AT 0.58 DME* DISTANCE VDP TO THLD 0.92 MILES. *LOC ONLY. CHART ARRIVAL HOLDING AT LACIK; HOLD NE, RT, 236.95 INBOUND, 3000. CHART CIRCLING ICON.									
CXR VOR/DME			PUDSE INT/I-PVY 15.89 DME/RADAR			288.43 / 18.94			6000											
PUDSE INT/I-PVY 15.89 DME/RADAR (IAF)			LACIK/12.75 DME/RADAR			236.95 / 3.14 (I-PVY)			5000											
LACIK/12.75 DME/RADAR			CIVAC/9.61 DME/RADAR			236.95 / 3.14 (I-PVY)			4000											
CIVAC/9.61 DME/RADAR (IF)			JEDSU/6.47 DME/RADAR			236.95 / 3.14 (I-PVY)			3000											
1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)										MAG VAR: 7W EPOCH YEAR: 1990										
2. PROFILE STARTS AT PUDSE INT/I-PVY 15.89 DME/RADAR																				
3. FAC: 236.95 FAF: JEDSU/6.47 DME/RADAR DIST FAF TO MAP: 6.81 THLD: 6.81																				
4. MIN. ALT: PUDSE 6000, LACIK 5000, CIVAC 4000, JEDSU 3000, FIDIN/2.08 DME/RADAR 1600*																				
5. DIST TO THLD FROM OM: - MM: - IM: 857 150 HAT: 1887 100 HAT: 935 GS ANT: 1064																				
6. MIN GS INCPT: 3000 GS ALT AT: JEDSU 3000 OM: - MM: - IM: 880																				
7. GS ANGLE: 3.00 TCH: 50.7																				
8. MSA FROM: DJB VOR/DME 3100																				
MINIMUMS																				
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		ILS: #		LOC: STANDARD									
CATEGORY ==>		A		B		C		D		E										
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA					
S-ILS 24R	980	1800	200	980	1800	200	980	1800	200	980	1800	200								
S-LOC 24R	1140	2400	360	1140	2400	360	1140	3000	360	1140	3000	360								
SIDESTEP 24L	1280	6000	494	1280	6000	494	1280	1 3/4	494	1280	2 1/4	494								
CIRCLING	1420	1	621	1420	1	621	1420	1 3/4	621	1420	2	621								
NOTES: CATEGORY II ILS SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED S-ILS 24R: CAT A, B, C, D, RA # CAT A, B, C, D 700-2 100, RVR 1200, HAT 100, DA 880 MSL. CATEGORY III ILS SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED. S-ILS- 24R: CAT IIIa CAT A,B,C,D, RVR 700. CAT IIIb CAT A,B,C,D, RVR 600. CAT IIIc NA. (SEE FORM 8260-10)																				
CITY AND STATE CLEVELAND, OH		ELEVATION: 799 AIRPORT NAME: CLEVELAND-HOPKINS INTL		TDZE: 24R 780 TDZE: 24L 786		FACILITY IDENTIFIER: I-PVY		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC/DME RWY 24R, AMDT 5C ILS RWY 24R (CAT II), ILS RWY 24R (CAT III), ILS RWY 24R (SA CAT I) 3/05/2015					SUP: AMDT: 5B DATED 01/09/2014							



ILS - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):

CHART NOTE: WHEN VGSI INOP, CIRCLING RWY 10 NA AT NIGHT.

CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO SIDESTEP 24L.

CHART PLANVIEW NOTE: DME REQUIRED.

CHART NOTE ON ILS OR LOC RWY 24R: SIMULTANEOUS APPROACH AUTHORIZED WITH ILS OR LOC RWY 24L.

CHART NOTE: SIMULTANEOUS OPERATIONS REQUIRE USE OF VERTICAL GUIDANCE; MAINTAIN LAST ASSIGNED ALTITUDE UNTIL ESTABLISHED ON GLIDESLOPE.

CAT II RVR 1000 CHART NOTE: RVR 1000 AUTHORIZED WITH SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF AUTOLAND OR HUD TO TOUCHDOWN.

SA CATEGORY I ILS SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED S-ILS 24R: CAT A, B, C, D,
RA 150, RVR 1400, HAT 150, DA 930 MSL.

SA CAT I CHART NOTE: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF HUD TO DA.

QUALITY
9
CHECKED

CITY AND STATE

CLEVELAND, OH

ELEVATION: 799

TDZE: 24R 780

TDZE: 24L 786

AIRPORT NAME:

CLEVELAND-HOPKINS INTL

FACILITY
IDENTIFIER:

I-PVY

PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:

ILS OR LOC/DME RWY 24R, AMDT 5C
ILS RWY 24R (CAT II), ILS RWY 24R (CAT III),
ILS RWY 24R (SA CAT I) 3/05/2015

SUP:

AMDT: 5B

DATED: 01/09/2014

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

QUALITY
3 15
CHECKED

SUP:	
AMDT:	5B
DATED:	01/09/2014

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

MSA 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012

SUSAP KCLEK5SDJB K5D 0 18018003125 M

QUALITY
15
CHECKED

CITY AND STATE
CLEVELAND, OH

ELEVATION: 799 TDZE: 24R 780
AIRPORT NAME: TDZE: 24L 786
CLEVELAND-HOPKINS INTL

FACILITY
IDENTIFIER:

I-PVY

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
ILS OR LOC/DME RWY 24R, AMDT 5C
ILS RWY 24R (CAT II), ILS RWY 24R (CAT III)
ILS RWY 24R (SA CAT I) 3/05/2015

SUP:
AMDT: 5B
DATED: 01/09/2014

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
ILS STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29												
ARINC SUMMARY - 424-18 - ILS												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	CXR	CXR	010		IF		FB					
	CXR	PUDSE	020	IAF	TF		FB				AA 06000	
	CXR	LACIK	030		TF		FB				AA 05000	
	CXR	CIVAC	040		CF		FB		237.0()	003.1	AA 04000	
		CIVAC	010	FACF	IF		FB				AA 04000	GI 03000
		JEDSU	020	FAF	CF		FB		237.0()	003.1	GI 03000	GS 03000
		RW24R	030	MAP	CF		FO		237.0()	006.8	AT 00831	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		237.0()		AA 01700	
		DJB	050		DF		FO				AA 03000	
		DJB	060		HM	R	FO		077.0()	T01.0	AA 03000	
POINT DATA		WAYPOINT		LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS		
		CXR		N413100.94		W0810947.47		N4131.016		W08109.791		
		DJB		N412129.03		W0820943.09		N4121.484		W08209.718		
		CIVAC		N413120.67		W0814045.72		N4131.345		W08140.762		
		JEDSU		N412919.62		W0814357.92		N4129.327		W08143.965		
		LACIK		N413321.62		W0813733.33		N4133.360		W08137.556		
		PUDSE		N413522.47		W0813420.75		N4135.375		W08134.346		
		RW24R		N412456.75		W0815054.15		N4124.946		W08150.903		
		IPVY (LOC)		N412353.08		W0815234.75		N4123.885		W08152.579		
RUNWAY DATA				THRESHOLD								
		RWY		ELEVATION		TCH						
		RW24R	00780			55						



CITY AND STATE CLEVELAND, OH	ELEVATION: 799	TDZE: 24R 780	FACILITY IDENTIFIER: I-PVY	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: CLEVELAND-HOPKINS INTL	TDZE: 24L 786		ILS OR LOC/DME RWY 24R, AMDT 5C	AMDT: 5B
		ILS RWY 24R (CAT II), ILS RWY 24R (CAT III)		DATED: 01/09/2014	
				ILS RWY 24R (SA CAT I)	3/05/2015

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KCLEK5FL24R	ACXR	010CXR	K5D 0V	IF					18000		0	DS
SUSAP	KCLEK5FL24R	ACXR	020PUDSEK5PC0E	A	TF			+	06000			0	DS
SUSAP	KCLEK5FL24R	ACXR	030LACIKK5PC0E	H	TF			+	05000			0	DS
SUSAP	KCLEK5FL24R	ACXR	040CIVACK5PC0EE	B	CF	IPVYK5	0569011623700031PI	+	04000			0	DS
SUSAP	KCLEK5FL24R	L	010CIVACK5PC0E	I	IF	IPVYK5	05690116	PI	+	04000	18000	0	DS
SUSAP	KCLEK5FL24R	L	020JEDSUK5PC0E	F	CF	IPVYK5	0569008523700031PI	+	03000		DJB	K5D	0 DS
SUSAP	KCLEK5FL24R	L	021FIDINK5PC0E	S	CF	IPVYK5	0569004123700044PI	+	01600		-301		0 DS
SUSAP	KCLEK5FL24R	L	030RW24RK5PGOGY	M	CF	IPVYK5	0569001623700024PI		00831		-301		0 DS
SUSAP	KCLEK5FL24R	L	040	0	M	CA	2370	+	01700				0 DS
SUSAP	KCLEK5FL24R	L	050DJB	K5D 0VY	DF			+	03000				0 DS
SUSAP	KCLEK5FL24R	L	060DJB	K5D 0VE	R	HM	0770T010	+	03000				0 DS

[illegible][illegible]

QUALITY
15
CHECKED

SUP:	
AMDT:	5B
DATED:	01/09/2014

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible]

QUALITY
15
CHECKED

SUP:	
AMDT:	5B
DATED:	01/09/2014

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
LOC STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25												
ARINC SUMMARY - 424-18 - LOC												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	CXR	CXR	010		IF		FB					
	CXR	PUDSE	020	IAF	TF		FB				AA 06000	
	CXR	LACIK	030		TF		FB				AA 05000	
	CXR	CIVAC	040		CF		FB		237.0()	003.1	AA 04000	
		CIVAC	010	FACF	IF		FB				AA 04000	
		JEDSU	020	FAF	CF		FB		237.0()	003.1	AA 03000	
		FIDIN	021	SDF	CF		FB		237.0()	004.4	AA 01600	
		RW24R	030	MAP	CF		FO		237.0()	002.4	AT 00831	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		237.0()		AA 01700	
		DJB	050		DF		FO				AA 03000	
		DJB	060		HM	R	FO		077.0()	T01.0	AA 03000	
POINT DATA		WAYPOINT			LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS	
		CXR			N413100.94		W0810947.47		N4131.016		W08109.791	
		DJB			N412129.03		W0820943.09		N4121.484		W08209.718	
		CIVAC			N413120.67		W0814045.72		N4131.345		W08140.762	
		FIDIN			N412630.02		W0814826.66		N4126.500		W08148.444	
		JEDSU			N412919.62		W0814357.92		N4129.327		W08143.965	
		LACIK			N413321.62		W0813733.33		N4133.360		W08137.556	
		PUDSE			N413522.47		W0813420.75		N4135.375		W08134.346	
		RW24R			N412456.75		W0815054.15		N4124.946		W08150.903	
		IPVY (LOC)			N412353.08		W0815234.75		N4123.885		W08152.579	
RUNWAY DATA				THRESHOLD								
		RWY		ELEVATION		TCH						
		RW24R	00780			55						



CITY AND STATE CLEVELAND, OH	ELEVATION: 799	TDZE: 24R 780	FACILITY IDENTIFIER: I-PVY	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: CLEVELAND-HOPKINS INTL	TDZE: 24L 786		ILS OR LOC/DME RWY 24R, AMDT 5C	AMDT: 5B
		ILS RWY 24R (CAT II), ILS RWY 24R (CAT III)		DATED: 01/09/2014	
				ILS RWY 24R (SA CAT I) 3/05/2015	

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33						Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.											
TERMINAL ROUTES											MISSED APPROACH						
FROM		TO			COURSE AND DISTANCE			ALTITUDE		LP: RW10 LNAV: RW10 CLIMB TO 4000 DIRECT EKUME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD E, LT, 280.51 INBOUND. CHART FAS OBST: 985 COMM TWR 412506N/0815403W WAAS CHANNEL # 73026 REFERENCE PATH ID: W10A JUUBA TO RW10: 3.00/45 LTP HAE: 199.6 M							
GILLS		TAMDE (FB)			219.58 / 26.20			3000									
TAMDE (IAF)		FIMOL (NOPT) (FB)			160.05 / 6.00			3000									
DJB VOR/DME (IAF)		FIMOL (NOPT) (FB)			039.55 / 4.94			3000									
FIMOL (IF/IAF)		JUUBA (FB)			100.09 / 6.26			2400									
JUUBA (FAF)		RW10 (MAP) (FO)			100.24 / 4.99			4000									
RW10 (MAP)		1199 MSL			100.24												
1199 MSL		EKUME (FO)															
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. HOLD W FIMOL, RT, 100.11 INBOUND, 3000 FT. IN LIEU OF PT (IAF) 3. FAC: <u>100.24</u> FAF: <u>JUUBA</u> DIST FAF TO MAP: <u>4.99</u> THLD: <u>4.99</u> 4. MIN. ALT: FIMOL 3000, JUUBA 2400 5. DIST TO THLD FROM OM: <u> </u> MM: <u> </u> IM: <u> </u> 150 HAT: <u> </u> 100 HAT: <u> </u> GS ANT: <u> </u> 6. MIN GS INCPT: <u> </u> GS ALT AT: <u> </u> OM: <u> </u> MM: <u> </u> IM: <u> </u> 7. GS ANGLE: <u> </u> TCH: <u>34:1</u> IS NOT CLEAR 8. MSA FROM: RW10 3100																	
											MAG VAR: 7W					EPOCH YEAR: 1990	
MINIMUMS																	
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		STANDARD								
CATEGORY >>>>>		A			B			C			D			E			
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA		
LP MDA	1240	1	457	1240	1	457	1240	1 3/8	457	1240	1 3/8	457					
LNAV MDA	1240	1	457	1240	1	457	1240	1 3/8	457	1240	1 3/8	457					
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON DJB VOR/DME AIRWAY RADIALS 265 CW 143. CHART NOTE: NIGHT LANDING: RWY 10 NA. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.																	
CITY AND STATE CLEVELAND, OH		ELEVATION: 799 TDZE: 783 AIRPORT NAME: CLEVELAND-HOPKINS INTL			FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 10, AMDT 3A 5 MARCH 2015					SUP:					
												AMDT: 3					
												DATED 12/15/2011					



**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KCLE
RUNWAY	RW10
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W10A
LTP/FTP LATITUDE	412501.2550N
LTP/FTP LONGITUDE	0815115.2840W
LTP/FTP ELLIPSOIDAL HEIGHT	+01996
FPAP LATITUDE	412456.1000N
FPAP LONGITUDE	0814917.0500W
THRESHOLD CROSSING HEIGHT (TCH)	00045.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0920
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0

<u>CRC REMAINDER</u>	EA53987A

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02338
FPAP ORTHOMETRIC HEIGHT	+02338

QUALITY
9
CHECKED

CITY AND STATE CLEVELAND, OH	ELEVATION: 799 TDZE: 783 AIRPORT NAME: CLEVELAND-HOPKINS INTL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 10, AMDT 3A 5 MARCH 2015	SUP:
				AMDT: 3
				DATED: 12/15/2011

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION <u>RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE</u> FLIGHT STANDARDS SERVICES - FAR PART 97.33	Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION <u>RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE</u> FLIGHT STANDARDS SERVICES - FAR PART 97.33	Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC PACKET - 424-18 - RNAV (GPS)

[illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KCLEK5FR10	ADJB	010DJB	K5D 0V	A	IF				18000		A	JS
SUSAP	KCLEK5FR10	ADJB	020FIMOLK5EA0EE	B	010TF		03960049	+	03000			A	JS
SUSAP	KCLEK5FR10	AFIMOL	010FIMOLK5EA0EE	AR	HF		10010040	+	03000	18000		A	JS
SUSAP	KCLEK5FR10	AGILLS	010GILLSK5EA0E		IF					18000		A	JS
SUSAP	KCLEK5FR10	AGILLS	020TAMDEK5EA0E	A	020TF		21960262	+	03000			A	JS
SUSAP	KCLEK5FR10	AGILLS	030FIMOLK5EA0EE	B	010TF		16010060	+	03000			A	JS
SUSAP	KCLEK5FR10	R	010FIMOLK5EA0E	I	IF			+	03000	18000		A	JS
SUSAP	KCLEK5FR10	R	020JUUBAK5EA1E	F	051TF		10010063	+	02400		RW10	K5PGA	JS
SUSAP	KCLEK5FR10	R	020JUUBAK5EA2WALP			N	ALNAV						JS
SUSAP	KCLEK5FR10	R	030RW10	K5PGOGY	M	031TF	10020050		00812	-300		A	JS
SUSAP	KCLEK5FR10	R	040	0	M	CA	1002	+	01199			A	JS
SUSAP	KCLEK5FR10	R	050EKUMK5EA0EY		DF			+	04000			A	JS
SUSAP	KCLEK5FR10	R	060EKUMK5EA0EE	L	HM		28050040	+	04000			A	JS

[illegible][illegible]

CITY AND STATE
CLEVELAND, OH

ELEVATION: 799	TDZE: 783
AIRPORT NAME: CLEVELAND-HOPKINS INTL	

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 10, AMDT 3A 5 MARCH 2015

SUP:	
AMDT:	3
DATED:	12/15/2011

FAA FORM 8260 - 10 / April 2006 (Computer Generated) Page 3 of 5 Pages

FAA FORM 8260 - 10 / April 2006 (Computer Generated) Page 3 of 5 Pages

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

SUSAP KCLEK5PR10 RW10 001 0000W10A0N4125012550W08151152840+019960300N4124561000W08149170500106750920000450F400000EA53987A
SUSAP KCLEK5PR10 RW10 002E +02338+02338LP 73026

	1	2	3	4	5	6	7	8	9	0	1	2	3
MSA	1	2	3	4	5	6	7	8	9	0	1	2	3

SUSAP KCLEK5SRW10 K5PG	0 18018003125											M	

QUALITY
9
CHECKED

CITY AND STATE CLEVELAND, OH	ELEVATION: 799 AIRPORT NAME: CLEVELAND-HOPKINS INTL	TDZE: 783 RNAV	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 10, AMDT 3A 5 MARCH 2015	SUP:
					AMDT: 3
					DATED: 12/15/2011

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - FAR PART 97.33												
ARINC SUMMARY - 424-18 - RNAV (GPS)												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	DJB	DJB	010	IAF	IF		FB					
	DJB	FIMOL	020		TF		FB	1.0	039.6 (032.6T)	004.9	AA 03000	
	FIMOL	FIMOL	010	IAF	HF	R	FO		100.1 (093.1T)	004.0	AA 03000	
	GILLS	GILLS	010		IF		FB					
	GILLS	TAMDE	020	IAF	TF		FB	2.0	219.6 (212.6T)	026.2	AA 03000	
	GILLS	FIMOL	030		TF		FB	1.0	160.1 (153.1T)	006.0	AA 03000	
		FIMOL	010	FACF	IF		FB				AA 03000	
		JUUBA	020	FAF	TF		FB	0.5	100.1 (093.1T)	006.3	AA 02400	
		RW10	030	MAP	TF		FO	0.3	100.2 (093.2T)	005.0	AT 00812	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		100.2 (093.2T)		AA 01199	
		EKUME	050		DF		FO				AA 04000	
		EKUME	060		HM	L	FO		280.5 (273.5T)	004.0	AA 04000	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		DJB	N412129.03		W0820943.09		N4121.484		W08209.718			
		EKUME	N412412.33		W0813303.50		N4124.206		W08133.058			
		FIMOL	N412538.93		W0820611.13		N4125.649		W08206.186			
		GILLS	N415307.06		W0815100.96		N4153.118		W08151.016			
		JUUBA	N412518.35		W0815752.27		N4125.306		W08157.871			
		TAMDE	N413100.06		W0820948.02		N4131.001		W08209.800			
		RW10	N412501.26		W0815115.28		N4125.021		W08151.255			
RUNWAY DATA			THRESHOLD									
		RWY	ELEVATION		TCH							
		RW10	00767		45							



CITY AND STATE CLEVELAND, OH	ELEVATION: 799	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 10, AMDT 3A 5 MARCH 2015	SUP:
	AIRPORT NAME: CLEVELAND-HOPKINS INTL			AMDT: 3
				DATED: 12/15/2011

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29							Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.						
TERMINAL ROUTES														MISSED APPROACH						
FROM				TO				COURSE AND DISTANCE				ALTITUDE		ILS: DA LOC: 4.39 MILES AFTER RAWLS OM/DJB 5.81 DME						
DJB VOR/DME				RAWLS OM/DJB 5.81 DME				245.15 / 5.81				2500		CLIMB TO 1400 THEN CLIMBING LEFT TURN TO 3000 ON HEADING 270 THEN LEFT TURN DIRECT DJB VOR/DME AND HOLD, OR AS DIRECTED BY ATC. ALTERNATE MA: CLIMB TO 1400 THEN CLIMBING LEFT TURN TO 3000 ON HEADING 270 THEN LEFT TURN DIRECT DJB VOR/DME AND HOLD. (GPS REQUIRED).						
														ADDITIONAL FLIGHT DATA: HOLD W, LT, 073.01 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD W DJB VOR/DME, RT, 077.04 INBOUND. FAS OBST: 1029 AAO 411838N/0821540W 1089 AAO 411837N/0821704W. CHART VDP AT 2.80 DME* DISTANCE VDP TO THLD 1.36 MILES. *LOC ONLY. CHART IN PLANVIEW: RAWLS OM. CHART CIRCLING ICON. CHART IN PLANVIEW (CFBLK) AT 411605N/0822338W.						
1. PT <u>R</u> SIDE OF COURSE <u>253.00</u> OUTBOUND <u>2500</u> FT WITHIN <u>10</u> MILES OF <u>RAWLS OM</u> (IAF)														MAG VAR: 8W EPOCH YEAR: 2015						
2.																				
3. FAC: <u>073.00</u> FAF: <u>RAWLS OM/DJB 5.81 DME</u> DIST FAF TO MAP: <u>4.39</u> THLD: <u>4.39</u>																				
4. MIN. ALT: <u>RAWLS OM 2500</u>																				
5. DIST TO THLD FROM OM: <u>4.39</u> MM: <u>-</u> IM: <u>-</u> 150 HAT: <u>-</u> 100 HAT: <u>-</u> GS ANT: <u>1050</u>																				
6. MIN GS INCPT: <u>2500</u> GS ALT AT: <u>-</u> OM: <u>2263</u> MM: <u>-</u> IM: <u>-</u>																				
7. GS ANGLE: <u>3.00</u> TCH: <u>53.7</u>																				
8. MSA FROM: <u>DJB VOR/DME 3100</u>																				
MINIMUMS																				
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: <u>N A</u>		ILS: <u>STANDARD #</u>		LOC: <u>STANDARD @</u>									
CATEGORY <u>=====</u>		A			B			C			D			E						
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA					
S-ILS 07	993	1/2	200	993	1/2	200	993	1/2	200	993	1/2	200								
S-LOC 07	1280	1/2	487	1280	1/2	487	1280	1	487	1280	1	487								
CIRCLING	1280	1	487	1360	1	567	1420	1 3/4	627	1420	2	627								
NOTES: CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-LOC 7 CATS C/D VISIBILITY TO 1 3/8 MILE. CHART PLANVIEW NOTE: DME REQUIRED. CHART NOTE: VDP NA WITH CLEVELAND-HOPKINS INTL ALTIMETER SETTING. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CLEVELAND-HOPKINS INTL ALTIMETER SETTING AND INCREASE ALL DA 36 FEET AND ALL MDA 40 FEET.																				
CITY AND STATE LORAIN/ELYRIA, OH				ELEVATION: 793 TDZE: 793 AIRPORT NAME: LORAIN COUNTY RGNL				FACILITY IDENTIFIER: I-LQG		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 7, AMDT 7 5 MARCH 2015						SUP: AMDT: 6C DATED 05/06/2010				



ILS - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

CITY AND STATE
LORAIN/ELYRIA, OH

ELEVATION: 793 TDZE: 793
AIRPORT NAME:
LORAIN COUNTY RGNL

FACILITY
IDENTIFIER:
I-LQG

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
ILS OR LOC RWY 7, AMDT 7
5 MARCH 2015

SUP:
AMDT: 6C
DATED: 05/06/2010

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KLPRK5FI07	ADJB	010DJB	K5D 0V	IF					18000		0 DS	
SUSAP	KLPRK5FI07	ADJB	020RAWLSK5PC0E		TF				+ 02500			0 DS	
SUSAP	KLPRK5FI07	ADJB	030RAWLSK5PC0EE	AL	PI	ILQGK5	2530005429800100	PI	+ 02500			0 DS	
SUSAP	KLPRK5FI07	I	010CFBLK5PC0E	I	IF	ILQGK5	25300114	PI	J 025000250018000			0 DS	
SUSAP	KLPRK5FI07	I	020RAWLSK5PC0E	F	CF	ILQGK5	2530005407300060	PI	H 0250002263		-300DJB	K5D 0 DS	
SUSAP	KLPRK5FI07	I	030RW07	K5PG0GY M	CF	ILQGK5	2530001007300044	PI	00847		-300	0 DS	
SUSAP	KLPRK5FI07	I	040	0 M	CA		0730		+ 01400			0 DS	
SUSAP	KLPRK5FI07	I	050	0 L	VAY		2700		+ 03000			0 DS	
SUSAP	KLPRK5FI07	I	060DJB	K5D 0VY	L	DF			+ 03000			0 DS	
SUSAP	KLPRK5FI07	I	070DJB	K5D 0VE	L	HM	0730T010		+ 03000			0 DS	

[illegible][illegible][illegible]

SUP:	
AMDT:	6C
DATED:	05/06/2010

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
ILS STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29												
ARINC SUMMARY - 424-18 - ILS												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	DJB	DJB	010		IF		FB					
	DJB	RAWLS	020		TF		FB				AA 02500	
	DJB	RAWLS	030	IAF	PI	L	FB		298.0 ()	010.0	AA 02500	
		CFBLK	010	FACF	IF		FB				AA 02500	GI 02500
		RAWLS	020	FAF	CF		FB		073.0 ()	006.0	GI 02500	GS 02263
		RW07	030	MAP	CF		FO		073.0 ()	004.4	AT 00847	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		073.0 ()		AA 01400	
			050		VA	L	FB		270.0 ()		AA 03000	
		DJB	060		DF	L	FO				AA 03000	
		DJB	070		HM	L	FO		073.0 ()	T01.0	AA 03000	
POINT DATA		WAYPOINT		LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS		
		DJB		N412129.03		W0820943.09		N4121.484		W08209.718		
		CFBLK		N411604.78		W0822338.48		N4116.080		W08223.641		
		RAWLS		N411837.48		W0821626.05		N4118.625		W08216.434		
		RW07		N412028.96		W0821109.17		N4120.483		W08211.153		
		ILQG (LOC)		N412054.05		W0820957.74		N4120.901		W08209.962		
RUNWAY DATA				THRESHOLD								
		RWY		ELEVATION		TCH						
		RW07		00793		54						



CITY AND STATE LORAIN/ELYRIA, OH	ELEVATION: 793	TDZE: 793	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME:			ILS OR LOC RWY 7, AMDT 7	AMDT: 6C
	LORAIN COUNTY RGNL	I-LQG	5 MARCH 2015	DATED: 05/06/2010	

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible][illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KLPRK5FL07	ADJB	010DJB	K5D 0V	IF					18000		0 DS	
SUSAP	KLPRK5FL07	ADJB	020RAWLSK5PC0E		TF				+ 02500			0 DS	
SUSAP	KLPRK5FL07	ADJB	030RAWLSK5PC0EE	AL	PI	ILQ GK5	2530005429800100	PI	+ 02500			0 DS	
SUSAP	KLPRK5FL07	L	010CFBLK5PC0E	I	IF	ILQ GK5	25300114	PI	+ 02500	18000		0 DS	
SUSAP	KLPRK5FL07	L	020RAWLSK5PC0E	F	CF	ILQ GK5	2530005407300060	PI	+ 02500		DJB	K5D	0 DS
SUSAP	KLPRK5FL07	L	030RW07	K5PG0GY	M	CF	ILQ GK5	2530001007300044	PI	00847	-355		0 DS
SUSAP	KLPRK5FL07	L	040	0	M	CA		0730	+ 01400			0 DS	
SUSAP	KLPRK5FL07	L	050	0	L	VAY		2700	+ 03000			0 DS	
SUSAP	KLPRK5FL07	L	060DJB	K5D 0VY	L	DF			+ 03000			0 DS	
SUSAP	KLPRK5FL07	L	070DJB	K5D 0VE	L	HM		0730T010	+ 03000			0 DS	

[illegible][illegible][illegible]

CITY AND STATE LORAIN/ELYRIA, OH	ELEVATION: 793 TDZE: 793 AIRPORT NAME: LORAIN COUNTY RGNL	FACILITY IDENTIFIER: I-LQG	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
			ILS OR LOC RWY 7, AMDT 7	AMDT: 6C
			5 MARCH 2015	DATED: 05/06/2010

FAA FORM 8260 - 10 / April 2006 (Computer Generated)

Page 5 of 6 Pages

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
LOC STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25												
ARINC SUMMARY - 424-18 - LOC												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	DJB	DJB	010		IF		FB					
	DJB	RAWLS	020		TF		FB				AA 02500	
	DJB	RAWLS	030	IAF	PI	L	FB		298.0 ()	010.0	AA 02500	
		CFBLK	010	FACF	IF		FB				AA 02500	
		RAWLS	020	FAF	CF		FB		073.0 ()	006.0	AA 02500	
		RW07	030	MAP	CF		FO		073.0 ()	004.4	AT 00847	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		073.0 ()		AA 01400	
			050		VA	L	FB		270.0 ()		AA 03000	
		DJB	060		DF	L	FO				AA 03000	
		DJB	070		HM	L	FO		073.0 ()	T01.0	AA 03000	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		DJB	N412129.03		W0820943.09		N4121.484		W08209.718			
		CFBLK	N411604.78		W0822338.48		N4116.080		W08223.641			
		RAWLS	N411837.48		W0821626.05		N4118.625		W08216.434			
		RW07	N412028.96		W0821109.17		N4120.483		W08211.153			
		ILQG (LOC)	N412054.05		W0820957.74		N4120.901		W08209.962			
RUNWAY DATA			THRESHOLD									
		RWY	ELEVATION		TCH							
		RW07	00793		54							



CITY AND STATE LORAIN/ELYRIA, OH	ELEVATION: 793	TDZE: 793	FACILITY IDENTIFIER: I-LQG	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: ILS OR LOC RWY 7, AMDT 7 5 MARCH 2015	SUP:
	AIRPORT NAME: LORAIN COUNTY RGNL	AMDT: 6C			
	DATED: 05/06/2010				

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION							RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33							Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.						
TERMINAL ROUTES										MISSED APPROACH										
FROM			TO			COURSE AND DISTANCE			ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW07 CLIMB TO 3000 DIRECT WELAL AND ON TRACK 025.05 TO OTOCE AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NE, RT, 212.82 INBOUND. CHART FAS OBST: 859 TREE 412008N/0821200W FAS OBST: 1089 AAO 411837N/0821704W DISTANCE TO THLD FROM 200 HAT: 0.46 NM. CHART VDP AT 1.54 MILES TO RW07* *LNAV ONLY. WAAS CHANNEL # 99612 REFERENCE PATH ID: W07A CHART CIRCLING ICON LTP HAE: 207.3 M									
NEWLO (IAF)			CUNER (FB)			006.10 / 10.39			3000											
HUDDZ (IAF)			CUNER (FB)			128.54 / 5.54			3000											
CUNER (IF)			HAVIN (FB)			072.87 / 6.10			2400											
HAVIN (FAF)			RW07 (MAP) (FO)			072.95 / 4.81														
RW07 (MAP)			993 MSL			072.95														
993 MSL			WELAL (FB)																	
WELAL			OTOCE (FO)			025.05 / 11.76			3000											
1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)										MAG VAR: 8W EPOCH YEAR: 2015										
2. PROFILE STARTS AT CUNER																				
3. FAC: 072.95 FAF: HAVIN DIST FAF TO MAP: 4.81 THLD: 4.81																				
4. MIN. ALT: CUNER 3000, HAVIN 2400																				
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:																				
6. MIN GS INCPT: 2400 GS ALT AT: HAVIN 2400 OM: MM: IM:																				
7. GS ANGLE: 3.00 TCH: 53.7 34:1 IS CLEAR																				
8. MSA FROM: RW07 3100																				
MINIMUMS																				
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		STANDARD @											
CATEGORY >>>>>		A		B		C		D		E										
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA					
LPV DA	993	1/2	200	993	1/2	200	993	1/2	200	993	1/2	200								
LNAV/VNAV DA	1133	3/4	340	1133	3/4	340	1133	3/4	340	1133	3/4	340								
LNAV MDA	1340	1/2	547	1340	1/2	547	1340	1 1/8	547	1340	1 1/8	547								
CIRCLING	1340	1	547	1360	1	567	1420	1 3/4	627	1420	2	627								
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 54C (130F). @ NA WHEN LOCAL WEATHER NOT AVAILABLE. CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT NEWLO ON V5 SOUTHWEST BOUND. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT HUDDZ ON V426-584 WESTBOUND. (SEE FORM 8260-10)																				
CITY AND STATE LORAIN/ELYRIA, OH			ELEVATION: 793 TDZE: 793 AIRPORT NAME: LORAIN COUNTY RGNL			FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 7, ORIG-A 5 MARCH 2015					SUP: AMDT: ORIG DATED 07/02/2009							



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CLEVELAND-HOPKINS INTL ALTIMETER SETTING AND INCREASE ALL DA 36 FEET, ALL MDA 40 FEET, INCREASE LNAV CAT C/D VISIBILITY 1/8 MILE.

CHART NOTE: VDP AND BARO-VNAV NA WHEN USING CLEVELAND-HOPKINS INTL ALTIMETER SETTING.



CITY AND STATE

LORAIN/ELYRIA, OH

ELEVATION: 793

TDZE: 793

AIRPORT NAME:

LORAIN COUNTY RGNL

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 7, ORIG-A

5 MARCH 2015

SUP:

AMDT: ORIG

DATED: 07/02/2009

RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KLPR
RUNWAY	RW07
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W07A
LTP/FTP LATITUDE	412028.9565N
LTP/FTP LONGITUDE	0821109.1740W
LTP/FTP ELLIPSOIDAL HEIGHT	+02073
FPAP LATITUDE	412106.6100N
FPAP LONGITUDE	0820921.9400W
THRESHOLD CROSSING HEIGHT (TCH)	00053.7
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1224
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
<u>CRC REMAINDER</u>	F687DE9F

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02418
FPAP ORTHOMETRIC HEIGHT	+02418

QUALITY
6
CHECKED

CITY AND STATE LORAIN/ELYRIA, OH	ELEVATION: 793 AIRPORT NAME: LORAIN COUNTY RGNL	TDZE: 793	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 7, ORIG-A 5 MARCH 2015	SUP:
					AMDT: ORIG
					DATED: 07/02/2009

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible][illegible][illegible][illegible][illegible][illegible]

CITY AND STATE LORAIN/ELYRIA, OH	ELEVATION: 793 TDZE: 793 AIRPORT NAME: LORAIN COUNTY RGNL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
			RNAV (GPS) RWY 7, ORIG-A	AMDT: ORIG
			5 MARCH 2015	DATED: 07/02/2009

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

SUSAP KLPRK5SRW07 K5PG

0 18018003125

M

QUALITY
6
CHECKED

CITY AND STATE

LORAIN/ELYRIA, OH

ELEVATION: **793**

TDZE: **793**

AIRPORT NAME:

LORAIN COUNTY RGNL

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:

RNAV (GPS) RWY 7, ORIG-A

5 MARCH 2015

SUP:

AMDT: **ORIG**

DATED: **07/02/2009**

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - FAR PART 97.33												
ARINC SUMMARY - 424-18 - RNAV (GPS)												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	HUDDZ	HUDDZ	010	IAF	IF		FB					
	HUDDZ	CUNER	020		TF		FB	1.0	128.5 (120.5T)	005.5	AA 03000	
	NEWLO	NEWLO	010	IAF	IF		FB					
	NEWLO	CUNER	020		TF		FB	1.0	006.1 (358.1T)	010.4	AA 03000	
		CUNER	010	FACF	IF		FB				AA 03000	
		HAVIN	020	FAF	TF		FB	0.5	072.9 (064.9T)	006.1	AA 02400	
		RW07	030	MAP	TF		FO	0.3	073.0 (065.0T)	004.8	AT 00847	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		073.0 (065.0T)		AA 00993	
		WELAL	050		DF		FB					
		OTOCE	060		TF		FO	1.0	025.1 (017.1T)		AA 03000	
		OTOCE	070		HM	R	FO		212.8 (204.8T)	004.0	AA 03000	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		CUNER	N411551.52		W0822415.93		N4115.859		W08224.266			
		HAVIN	N411826.76		W0821656.46		N4118.446		W08216.941			
		HUDDZ	N411840.58		W0823035.35		N4118.676		W08230.589			
		NEWLO	N410528.37		W0822348.55		N4105.473		W08223.809			
		OTOCE	N413300.02		W0820256.91		N4133.000		W08202.949			
		WELAL	N412144.99		W0820732.50		N4121.750		W08207.542			
		RW07	N412028.96		W0821109.17		N4120.483		W08211.153			
RUNWAY DATA			THRESHOLD									
		RWY	ELEVATION		TCH							
		RW07	00793		54							



CITY AND STATE LORAIN/ELYRIA, OH	ELEVATION: 793	TDZE: 793	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 7, ORIG-A 5 MARCH 2015	SUP:
	AIRPORT NAME: LORAIN COUNTY RGNL				AMDT: ORIG
					DATED: 07/02/2009

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION NDB STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.27								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.									
TERMINAL ROUTES										MISSED APPROACH							
FROM		TO		COURSE AND DISTANCE				ALTITUDE		MAP: PCW NDB							
										CLIMBING RIGHT TURN TO 2500 IN PCW NDB HOLDING PATTERN.							
										ADDITIONAL FLIGHT DATA: HOLD E, RT, 275.76 INBOUND. CHART FAS OBST: 719 TREE 413211N/0825142W 784 AAO 413037N/0824718W CHART RESTRICTED AREAS 5502 A & B. AYZEL TO RW27: 2.70/40. CHART CIRCLING ICON. FAC CROSSES RWY C/L EXTENDED 2493 FROM THLD.							
1. PT <u> L </u> SIDE OF COURSE <u> 095.76 </u> OUTBOUND <u> 2300 </u> FT WITHIN <u> 10 </u> MILES OF <u> PCW NDB </u> (IAF) 2. _____ 3. FAC <u> 275.76 </u> FAF _____ DIST FAF TO MAP _____ THLD _____ 4. MIN. ALT <u> AYZEL/DJB 30.47 DME 1400* </u> 8. MSA FROM: <u> PCW NDB 360-270 2500, 270-360 3100 </u>														MAG VAR: 7W		EPOCH YEAR: 2010	
MINIMUMS																	
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		☒							
CATEGORY =====>		A			B			C			D			E			
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA		
S-27	1400	1	812	1400	1 1/4	812	1400	2 1/2	812	1400	2 1/2	812					
CIRCLING	1400	1	810	1400	1 1/4	810	1400	2 1/2	810	1580	3	990					
AYZEL FIX MINIMUMS (DME REQUIRED)																	
S-27	1060	1	472	1060	1	472	1060	1 3/8	472	1060	1 3/8	472					
CIRCLING	1140	1	550	1140	1	550	1180	1 1/2	590	1580	3	990					
NOTES: CHART PLANVIEW NOTE: RADAR REQUIRED. CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE TOLEDO EXECUTIVE ALTIMETER SETTING AND INCREASE ALL MDA 80 FEET AND ALL VISIBILITIES 1/4 MILE. (SEE FORM 8260-10)																	
CITY AND STATE PORT CLINTON, OH		ELEVATION: 590 AIRPORT NAME: CARL R KELLER FIELD		TDZE: 588		FACILITY IDENTIFIER: PCW		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: NDB RWY 27, AMDT 14 5 MARCH 2015				SUP AMDT 13A DATE 08/27/2009					

**NDB STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - - TITLE 14 CFR PART 97.27**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):**CHART NOTE: NIGHT LANDING: RWY 9, 18, 36 NA. NIGHT LANDING: RWY 27 NA FOR CAT C/D AIRCRAFT.****CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.*****1480 WHEN USING TOLEDO EXECUTIVE ALTIMETER SETTING.**

QUALITY
CHECKED

CITY AND STATE

PORT CLINTON, OH

ELEVATION: 590

TDZE: 588

AIRPORT NAME:

CARL R KELLER FIELD

FACILITY
IDENTIFIER:

PCW

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

NDB RWY 27, AMDT 14

5 MARCH 2015

SUP:

AMDT: 13A

DATED: 08/27/2009

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.			
TERMINAL ROUTES				MISSED APPROACH			
FROM	TO	COURSE AND DISTANCE	ALTITUDE	LNAV: RW09 CLIMB TO 2500 DIRECT KUKAF AND HOLD. ADDITIONAL FLIGHT DATA: HOLD E, RT, 269.74 INBOUND. CHART FAS OBST: 825 TOWER 413045N/0825624W CHART RESTRICTED AREA 5502 A/B. FASTI TO RW09: 3.00/40. CHART CIRCLING ICON.			
SALFE (IF/IAF)	FASTI (FB)	089.44 / 6.42	2200				
FASTI (FAF)	CAGSA/3.40 NM TO RW09	089.53 / 1.53					
CAGSA/3.40 NM TO RW09	RW09 (MAP) (FO)	089.53 / 3.40					
RW09 (MAP)	990 MSL	089.53					
990 MSL	KUKAF (FO)		2500				

1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF)			
2. HOLD W SALFE, RT, 089.44 INBOUND, 3000 FT. IN LIEU OF PT (IAF)			
3. FAC: 089.53 FAF: FASTI		DIST FAF TO MAP: 4.93 THLD: 4.93	
4. MIN. ALT: SALFE 3000, FASTI 2200, CAGSA/3.40 NM TO RW09 1720			
5. DIST TO THLD FROM OM: <u> </u> MM: <u> </u> IM: <u> </u> 150 HAT: <u> </u> 100 HAT: <u> </u> GS ANT: <u> </u>			
6. MIN GS INCPT: <u> </u> GS ALT AT: <u> </u> OM: <u> </u> MM: <u> </u> IM: <u> </u>			
7. GS ANGLE: <u> </u> TCH: 34:1 IS NOT CLEAR			
8. MSA FROM: RW09 3100		MAG VAR: 7W EPOCH YEAR: 2010	

MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N/A		STANDARD @						
CATEGORY =====>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LNAV MDA	1140	1	550	1140	1	550	1140	1 5/8	550	1140	1 5/8	550			
CIRCLING	1140	1	550	1140	1	550	1180	1 5/8	590	1580	3	990			

NOTES:

CHART NOTE: DME/DME RNP-0.3 NA.

CHART PLANVIEW NOTE: NOPT FOR ARRIVAL AT SALFE ON V426 SOUTHBOUND.

CHART PROFILE NOTE: VGS1 AND DESCENT ANGLES NOT COINCIDENT.

CHART NOTE: NIGHT LANDING: RWY 9, 18, 36 NA.

(SEE FORM 8260-10)

@ CAT D 1000-3

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.

CITY AND STATE	ELEVATION: 590 TDZE: 590	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
PORT CLINTON, OH	AIRPORT NAME:	RNAV	RNAV (GPS) RWY 9, AMDT 1	AMDT: ORIG
	CARL R KELLER FIELD		5 MARCH 2015	DATED 07/02/2009

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):

CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE TOLEDO EXECUTIVE ALTIMETER SETTING AND INCREASE ALL MDA 80 FEET AND ALL CAT C/D VISIBILITIES 1/4 MILE.



CITY AND STATE PORT CLINTON, OH	ELEVATION: 590	TDZE: 590	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 9, AMDT 1 5 MARCH 2015	SUP:
	AIRPORT NAME: CARL R KELLER FIELD				AMDT: ORIG
					DATED: 07/02/2009

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP KPCWK5FR09	ASALFE	010SALFEK5EA0EE	AR	HF			08940040	+	03000	18000		B	JS
SUSAP KPCWK5FR09	R	010SALFEK5EA0E	I	IF				+	03000	18000		B	JS
SUSAP KPCWK5FR09	R	020FASTIK5EA1E	F	051TF			08940064	+	02200		RW09	K5PGB	JS
SUSAP KPCWK5FR09	R	020FASTIK5EA2WN			N	ALNAV							JS
SUSAP KPCWK5FR09	R	021CAGSAK5EA0E	S	031TF			08950015	V	0172001737		-300		B JS
SUSAP KPCWK5FR09	R	030RW09	K5PG0GY	M	031TF		08950034		00629		-300		B JS
SUSAP KPCWK5FR09	R	040		0	M	CA	0895	+	00990				B JS
SUSAP KPCWK5FR09	R	050KUKAFK5EA0EY		DF				+	02500				B JS
SUSAP KPCWK5FR09	R	060KUKAFK5EA0EE	R	HM			26970040	+	02500				B JS

[illegible][illegible]

SUP:	
AMDT:	ORIG
DATED:	07/02/2009

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	SALFE	SALFE	010	IAF	HF	R	FO		089.4 (082.4T)	004.0	AA 03000	
		SALFE	010	FACF	IF		FB				AA 03000	
		FASTI	020	FAF	TF		FB	0.5	089.4 (082.4T)	006.4	AA 02200	
		CAGSA	021	SDF	TF		FB	0.3	089.5 (082.5T)	001.5	AA 01720 GS 01737	
		RW09	030	MAP	TF		FO	0.3	089.5 (082.5T)	003.4	AT 00629	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		089.5 (082.5T)		AA 00990	
	KUKAF	050		DF		FO				AA 02500	
	KUKAF	060		HM	R	FO		269.7 (262.7T)	004.0	AA 02500	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	CAGSA	N413031.32	W0825723.27	N4130.522	W08257.388
	FASTI	N413019.37	W0825924.72	N4130.323	W08259.412
	KUKAF	N413217.05	W0823913.90	N4132.284	W08239.232
	SALFE	N412928.98	W0830752.60	N4129.483	W08307.877
	RW09	N413057.70	W0825254.00	N4130.962	W08252.900

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW09	00589	40



CITY AND STATE
PORT CLINTON, OH

ELEVATION: 590 TDZE: 590
AIRPORT NAME:
CARL R KELLER FIELD

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
RNAV (GPS) RWY 9, AMDT 1
5 MARCH 2015

SUP:
AMDT: ORIG
DATED: 07/02/2009

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33		Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.												
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO		COURSE AND DISTANCE				ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW27 CLIMB TO 3000 DIRECT MANGS AND ON TRACK 188.53 TO VASHO AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000. ADDITIONAL FLIGHT DATA: HOLD W, RT, 098.64 INBOUND. CHART FAS OBST: 706 TOWER 413032N/0825129W CHART RESTRICTED AREA 5502 A/B. DISTANCE TO THLD FROM 322 HAT: 0.89 NM. WAAS CHANNEL # 58012 REFERENCE PATH ID: W27A CHART CIRCLING ICON. LTP HAE: 143.8 M						
KUKAF (IF/IAF)		HOZDE (FB)		269.74 / 6.09				1700								
HOZDE (FAF)		RW27 (MAP) (FO)		269.65 / 3.37												
RW27 (MAP)		910 MSL		269.65												
910 MSL		MANGS (FB)														
MANGS		VASHO (FO)		188.53 / 4.12				3000								
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. HOLD E KUKAF, RT, 269.74 INBOUND, 2500 FT. IN LIEU OF PT (IAF) 3. FAC: 269.65 FAF: HOZDE _____ DIST FAF TO MAP: 3.37 THLD: 3.37 4. MIN. ALT: KUKAF 2500, HOZDE 1700 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 1700 GS ALT AT: HOZDE 1700 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS NOT CLEAR 8. MSA FROM: RW27 3100																
										MAG VAR: 7W EPOCH YEAR: 2010						
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N/A		STANDARD @						
CATEGORY ==>		A			B			C			D			E		
		DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA		910	1 1/8	322	910	1 1/8	322	910	1 1/8	322	910	1 1/8	322			
LNAV/VNAV DA		956	1 1/4	368	956	1 1/4	368	956	1 1/4	368	956	1 1/4	368			
LNAV MDA		980	1	392	980	1	392	980	1 1/8	392	980	1 1/8	392			
CIRCLING																
		1140	1	550	1140	1	550	1180	1 1/2	590	1580	3	990			
NOTES: CHART NOTE: BARO-VNAV NA WHEN USING TOLEDO EXECUTIVE ALTIMETER SETTING. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT. (SEE FORM 8260-10)																
CITY AND STATE PORT CLINTON, OH		ELEVATION: 590 TDZE: 588 AIRPORT NAME: CARL R KELLER FIELD		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 27, AMDT 1 5 MARCH 2015						SUP:				
												AMDT: ORIG				
												DATED 07/02/2009				



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):

CHART NOTE: NIGHT LANDING: RWY 9, 18, 36 NA. NIGHT LANDING: RWY 27 NA FOR CAT C/D AIRCRAFT.

CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

CHART PLANVIEW NOTE: RADAR REQUIRED.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE TOLEDO EXECUTIVE ALTIMETER SETTING AND INCREASE ALL DA/MDA 80 FEET AND ALL VISIBILITIES 1/4 MILE.



CITY AND STATE
PORT CLINTON, OH

ELEVATION: 590 TDZE: 588
AIRPORT NAME:
CARL R KELLER FIELD

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
RNAV (GPS) RWY 27, AMDT 1
5 MARCH 2015

SUP:
AMDT: ORIG
DATED: 07/02/2009

RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATIONDATA FIELDDATA

OPERATION TYPE 0
SBAS SERVICE PROVIDER IDENTIFIER 0
AIRPORT IDENTIFIER KPCW
RUNWAY RW27
APPROACH PERFORMANCE DESIGNATOR 0
ROUTE INDICATOR
REFERENCE PATH DATA SELECTOR 0
REFERENCE PATH IDENTIFIER (APPROACH ID) W27A
LTP/FTP LATITUDE 413104.6310N
LTP/FTP LONGITUDE 0825143.0280W
LTP/FTP ELLIPSOIDAL HEIGHT +01438
FPAP LATITUDE 413053.1325N
FPAP LONGITUDE 0825340.6445W
THRESHOLD CROSSING HEIGHT (TCH) 00040.0
TCH UNITS SELECTOR (METERS OR FEET USED) F
GLIDEPATH ANGLE (GPA) 03.00
COURSE WIDTH AT THRESHOLD 106.75
LENGTH OFFSET 1088
HORIZONTAL ALERT LIMIT (HAL) 40.0
VERTICAL ALERT LIMIT (VAL) 50.0

CRC REMAINDER

30F1B22E

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE K5
LTP ORTHOMETRIC HEIGHT +01793
FPAP ORTHOMETRIC HEIGHT +01793

QUALITY
CHECKED

CITY AND STATE
PORT CLINTON, OH

ELEVATION: 590 TDZE: 588
AIRPORT NAME:
CARL R KELLER FIELD

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 27, AMDT 1
5 MARCH 2015

SUP:
AMDT: ORIG
DATED: 07/02/2009

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KPCWK5FR27	AKUKAF	010KUKAFK5EA0EE	AR	HF		26970040	+	02500	18000		A	JS
SUSAP	KPCWK5FR27	R	010KUKAFK5EA0E	I	IF			+	02500	18000		A	JS
SUSAP	KPCWK5FR27	R	020HOZDEK5EA1E	F	051TF		26970061	+	01700		RW27	K5PGA	JS
SUSAP	KPCWK5FR27	R	020HOZDEK5EA2WALPV		ALNAV/VNAV	ALNAV							JS
SUSAP	KPCWK5FR27	R	030RW27 K5PG0GY	M	031TF		26970034		00628	-300		A	JS
SUSAP	KPCWK5FR27	R	040	0	M	CA	2697	+	00910			A	JS
SUSAP	KPCWK5FR27	R	050MANGSK5EA0E		DF							A	JS
SUSAP	KPCWK5FR27	R	060VASHOK5EA0EY		010TF		1885	+	03000			A	JS
SUSAP	KPCWK5FR27	R	070VASHOK5EA0EE	R	HM		09860040	+	03000			A	JS

[illegible][illegible][illegible]

SUP:	
AMDT:	ORIG
DATED:	07/02/2009

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	KUKAF	KUKAF	010	IAF	HF	R	FO		269.7 (262.7T)	004.0	AA 02500	
		KUKAF	010	FACF	IF		FB				AA 02500	
		HOZDE	020	FAF	TF		FB	0.5	269.7 (262.7T)	006.1	AA 01700	
		RW27	030	MAP	TF		FO	0.3	269.7 (262.7T)	003.4	AT 00628	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		269.7 (262.7T)		AA 00910	
	MANGS	050		DF		FB					
	VASHO	060		TF		FO	1.0	188.5 (181.5T)		AA 03000	
	VASHO	070		HM	R	FO		098.6 (091.6T)	004.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	HOZDE	N413130.57	W0824716.39	N4131.510	W08247.273
	KUKAF	N413217.05	W0823913.90	N4132.284	W08239.232
	MANGS	N413033.10	W0825705.12	N4130.552	W08257.085
	VASHO	N412625.87	W0825713.91	N4126.431	W08257.232
	RW27	N413104.63	W0825143.03	N4131.077	W08251.717

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW27	00588	40



CITY AND STATE PORT CLINTON, OH	ELEVATION: 590	TDZE: 588	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: CARL R KELLER FIELD		RNAV	RNAV (GPS) RWY 27, AMDT 1	AMDT: ORIG
				5 MARCH 2015	DATED: 07/02/2009

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
VOR/DME STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

TERMINAL ROUTES

MISSED APPROACH

FROM	TO	COURSE AND DISTANCE	ALTITUDE

ADDITIONAL FLIGHT DATA:

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
 2. ____
 3. FAC ____ FAF ____ DIST FAF TO MAP ____ THLD ____
 4. MIN. ALT ____
 8. MSA FROM: _____

MAG VAR: _____

EPOCH YEAR: _____

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: N A

CATEGORY =====>	A			B			C			D			E		
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA

NOTES:

PROCEDURE CANCELED EFFECTIVE 5 MARCH 2015



CITY AND STATE PORT CLINTON, OH	ELEVATION: 590 AIRPORT NAME: CARL R KELLER FIELD	TDZE:	FACILITY IDENTIFIER: SKY	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR/DME-A, AMDT 9A, 01/13/2011	SUP
					AMDT 9
					DATE 07/02/2009

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.											
TERMINAL ROUTES								MISSED APPROACH							
FROM		TO		COURSE AND DISTANCE		ALTITUDE		LNAV: RW23 CLIMB TO 1700 THEN CLIMBING LEFT TURN TO 3000 DIRECT AMNIO AND HOLD. ADDITIONAL FLIGHT DATA: CHART FAS OBST: 1213 SILO 393542N/0832344W BIMGY TO RW23: 3.00/40. CHART CIRCLING ICON							
JGER		AMNIO (FO)		090.82 / 5.84		3000									
LIMPS (IAF)		AMNIO (NOPT) (FB)		217.67 / 7.08		3000									
AMNIO (IF/IAF)		BIMGY (FB)		220.15 / 6.12		2600									
BIMGY (FAF)		RW23 (MAP) (FO)		220.10 / 4.98											
RW23 (MAP)		1700 MSL		220.10		1700									
1700 MSL		AMNIO (FO)				3000									
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. HOLD NE AMNIO, RT, 220.15 INBOUND, 3000 FT. IN LIEU OF PT (IAF) 3. FAC: 220.10 FAF: BIMGY DIST FAF TO MAP: 4.98 THLD: 4.98 4. MIN. ALT: AMNIO 3000, BIMGY 2600 5. DIST TO THLD FROM OM: <u> </u> MM: <u> </u> IM: <u> </u> 150 HAT: <u> </u> 100 HAT: <u> </u> GS ANT: <u> </u> 6. MIN GS INCPT: <u> </u> GS ALT AT: <u> </u> OM: <u> </u> MM: <u> </u> IM: <u> </u> 7. GS ANGLE: <u> </u> TCH: 34:1 IS NOT CLEAR 8. MSA FROM: RW23 3000								MAG VAR: 6W EPOCH YEAR: 2000							
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT						ALTERNATE: N A X									
CATEGORY =====>		A		B		C		D		E					
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LNAV MDA	1540	1	561	1540	1	561	1540	1 5/8	561	1540	1 5/8	561			
CIRCLING	1580	1	600	1640	1	660	1640	1 3/4	660	1660	2 1/4	680			
NOTES: CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT. CHART PLANVIEW NOTE: LIMIT MISSED APPROACH TO 235 KIAS CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. (SEE FORM 8260-10)															
CITY AND STATE		ELEVATION: 980 TDZE: 979		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:					
WASHINGTON COURT HOUSE, OH		AIRPORT NAME:		FAYETTE COUNTY		RNAV (GPS) RWY 23, AMDT 1 5 MARCH 2015				AMDT: ORIG					
										DATED 12/20/2007					



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE WILMINGTON AIR PARK ALTIMETER SETTING AND INCREASE ALL MDA 60 FEET. INCREASE LNAV CAT C/D VISIBILITY 1/8 MILE AND CIRCLING CAT C VISIBILITY 1/4 MILE.

CHART NOTE: NIGHT LANDING RWY 23 NA



CITY AND STATE WASHINGTON COURT HOUSE, OH	ELEVATION: 980 TDZE: 979 AIRPORT NAME: FAYETTE COUNTY	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 23, AMDT 1 5 MARCH 2015	SUP:
				AMDT: ORIG
				DATED: 12/20/2007

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP I23 K5FR23	AJ	010J	0GERK5E	A0E	IF					18000		B JS	
SUSAP I23 K5FR23	AJ	020AM	NIOK5E	A0EY	020TF		09080058	+ 03000				B JS	
SUSAP I23 K5FR23	AJ	030AM	NIOK5E	A0EE	AR HF		22020040	+ 03000				B JS	
SUSAP I23 K5FR23	AL	010L	IMPSK5E	A0E	A IF					18000		B JS	
SUSAP I23 K5FR23	AL	020AM	NIOK5E	A0EE	B 010TF		21770071	+ 03000				B JS	
SUSAP I23 K5FR23	R	010AM	NIOK5E	A0E	I IF					18000		B JS	
SUSAP I23 K5FR23	R	020B	IMGYK5E	A1E	F 051TF		22020061	+ 02600			RW23	K5PGB JS	
SUSAP I23 K5FR23	R	020B	IMGYK5E	A2WN		N	ALNAV					JS	
SUSAP I23 K5FR23	R	030RW	23 K5P	G0GY	M 031TF		22010050	01016		-300		B JS	
SUSAP I23 K5FR23	R	040		0 M	CA		2201	+ 01700				B JS	
SUSAP I23 K5FR23	R	050AM	NIOK5E	A0EY	L DF			+ 03000		235		B-JS	
SUSAP I23 K5FR23	R	060AM	NIOK5E	A0EE	R HM		22020040	+ 03000				B JS	

[illegible][illegible]

CITY AND STATE WASHINGTON COURT HOUSE, OH	ELEVATION: 980 AIRPORT NAME: FAYETTE COUNTY	TDZE: 979 RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 23, AMDT 1 5 MARCH 2015	SUP:
				AMDT: ORIG
				DATED: 12/20/2007

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	JOGER	JOGER	010		IF		FB					
	JOGER	AMNIO	020		TF		FO	2.0	090.8 (084.8T)	005.8	AA 03000	
	JOGER	AMNIO	030	IAF	HF	R	FO		220.2 (214.2T)	004.0	AA 03000	
	LIMPS	LIMPS	010	IAF	IF		FB					
	LIMPS	AMNIO	020		TF		FB	1.0	217.7 (211.7T)	007.1	AA 03000	
		AMNIO	010	FACF	IF		FB				AA 03000	
		BIMGY	020	FAF	TF		FB	0.5	220.2 (214.2T)	006.1	AA 02600	
		RW23	030	MAP	TF		FO	0.3	220.1 (214.1T)	005.0	AT 01016	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		220.1 (214.1T)		AA 01700	
	AMNIO	050		DF	L	FO				AA 03000	AB 235
	AMNIO	060		HM	R	FO		220.2 (214.2T)	004.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	AMNIO	N394346.25	W0831652.16	N3943.771	W08316.869
	BIMGY	N393841.77	W0832119.20	N3938.696	W08321.320
	JOGER	N394314.80	W0832424.54	N3943.247	W08324.409
	LIMPS	N394948.22	W0831203.00	N3949.804	W08312.050
	RW23	N393434.32	W0832455.63	N3934.572	W08324.927

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW23	00976	40

QUALITY
9
CHECKED

CITY AND STATE WASHINGTON COURT HOUSE, OH	ELEVATION: 980	TDZE: 979	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 23, AMDT 1 5 MARCH 2015	SUP:
	AIRPORT NAME: FAYETTE COUNTY		RNAV		AMDT: ORIG
					DATED: 12/20/2007

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				RNAV (RNP) - STANDARD, INSTRUMENT APPROACH PROCEDURE, TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.							
TERMINAL ROUTES										MISSED APPROACH					
FROM		TO		COURSE AND DISTANCE				ALTITUDE		RNP: DA					
GUSHR (IAF)		BEPEA (TF) (FB) (RNP 1.00)		171.24 / 7.96				4000		CLIMB TO 580 THEN CLIMBING LEFT TURN TO 4000 DIRECT CLEEP AND HOLD. ADDITIONAL FLIGHT DATA: HOLD N, RT, 203.52 INBOUND. CHART FAS OBST: 203 BLDG 300026N/0952247W DISTANCE TO THLD FROM 415 HAT: 1.12 NM. CHART MANDATORY 6000 AT GUSHR. CHART MANDATORY 3000 AT LIMEE. CHART MANDATORY 3000 AT KABBY. CHART AT OR ABOVE 3000 AT MAAKO. ROUTE TYPE: A, H. ROUTE TYPE QUALIFIER 1: F ROUTE TYPE QUALIFIER 2: S #TCH 150.3 MSL (DO NOT CHART).					
BEPEA		LIMEE (TF) (FB) (RNP 1.00)		171.36 / 2.97				3000							
LIMEE		KABBY (TF) (FB) (RNP 1.00)		123.01 / 3.57				3000							
MAAKO (IAF)		KABBY (TF) (FB) (RNP 1.00)		086.69 / 4.99				3000							
KABBY		KICKM (TF) (FB) (RNP 1.00)		086.74 / 4.24				3000							
(SEE FORM 8260-10)															
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)														MAG VAR: 3E EPOCH YEAR: 2015	
2. PROFILE STARTS AT KABBY															
3. FAC: 086.88 FAF: _____ DIST FAF TO MAP: _____ THLD: _____															
4. MIN. ALT: KABBY 3000, KICKM 3000, FLIBZ 3000, JACEN 2000															
5. DIST TO THLD FROM OM: 5.81 MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____															
6. MIN GS INCPT: 2000 GS ALT AT: JACEN 2000 OM: _____ MM: _____ IM: _____															
7. GS ANGLE: 3.00 TCH: #59.0 34:1 IS CLEAR															
8. MSA FROM: RW08L 3100															
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		STANDARD					
CATEGORY =====>		A		B		C		D		E					
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
AUTHORIZATION REQUIRED															
RNP 0.30 DA	510	4500	415	510	4500	415	510	4500	415	510	4500	415			
NOTES: CHART NOTE: GPS REQUIRED. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -3C (27F) OR ABOVE 54C (130F). CHART NOTE: FOR INOPERATIVE ALSF-2, INCREASE RNP 0.30 ALL CATS VISIBILITY TO 1 3/8 MILE. (SEE FORM 8260-10)															
CITY AND STATE		ELEVATION: 96 TDZE: 95		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:						SUP:			
HOUSTON, TX		AIRPORT NAME:		GEORGE BUSH INTERCONTINENTAL/HOUSTON		RNAV (RNP) Y RWY 8L, ORIG-A						AMDT: ORIG			
						5 MARCH 2015						DATED 05/29/2014			



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (RNP) - STANDARD,
INSTRUMENT APPROACH PROCEDURE, - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
KICKM (IF)	FLIBZ (TF) (FB) (RNP 1.00)	086.78 / 7.84	3000
FLIBZ	JACEN (TF) (FB) (RNP 1.00)	086.85 / 3.27	2000
JACEN (FAF)	RW08L (MAP) (TF) (FO)	086.88 / 5.81	
RW08L (MAP)	580 MSL (CA)	086.88	580
580 MSL	CLEEP (DF) (FO)		4000

NOTES, (CONT.):

CHART PLANVIEW NOTE AT GUSHR: MAX 210 KIAS.

CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 8R AND RWY 9.

CHART NOTE: USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS.

CHART PLANVIEW NOTE AT MAAKO: RADAR REQUIRED FOR ARRIVALS AT MAAKO.

CHART PLANVIEW NOTE AT MAAKO: MAX 210 KIAS.

QUALITY
9
CHECKED

CITY AND STATE
HOUSTON, TX

ELEVATION: 96 TDZE: 95
 AIRPORT NAME:
 GEORGE BUSH INTERCONTINENTAL/HOUSTON

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:
 RNAV (RNP) Y RWY 8L, ORIG-A
 5 MARCH 2015

SUP:
 AMDT: ORIG
 DATED: 05/29/2014

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible]

QUALITY
3 12
CHECKED

CITY AND STATE HOUSTON, TX	ELEVATION: 96	TDZE: 95	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (RNP) Y RWY 8L, ORIG-A	SUP:
	AIRPORT NAME: GEORGE BUSH			5 MARCH 2015	AMDT: ORIG
	INTERCONTINENTAL/HOUSTON				DATED: 05/29/2014

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (RNP) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

RUNWAY 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012

SUSAP KIAHK4GRW08L 0090000869 N30002578W095213165+0000 +0000500091000055150IIBZU3

1 2 3 4 5 6 7 8 9 0 1 2 3
MSA 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012

SUSAP KIAHK4SRW08LK4PG 0 18018003125 M

QUALITY
12
CHECKED

CITY AND STATE HOUSTON, TX	ELEVATION: 96	TDZE: 95	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (RNP) Y RWY 8L, ORIG-A 5 MARCH 2015	SUP:
	AIRPORT NAME: GEORGE BUSH INTERCONTINENTAL/HOUSTON	SUP:			
	DATED: 05/29/2014				

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (RNP) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - 424-18 - RNAV (RNP)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	GUSHR	GUSHR	010	IAF	IF		FB				AT 06000	AB 210
	GUSHR	BEPEA	020		TF		FB	1.0			AA 04000	
	GUSHR	LIMEE	030		TF		FB	1.0			AT 03000	
	GUSHR	KABBY	040		TF		FB	1.0			AT 03000	
	GUSHR	KICKM	050		TF		FB	1.0			AA 03000	
	GUSHR	FLIBZ	060		TF		FB	1.0			AA 03000	
	MAAKO	MAAKO	010	IAF	IF		FB				AA 03000	AB 210
	MAAKO	KABBY	020		TF		FB	1.0			AT 03000	
	MAAKO	KICKM	030		TF		FB	1.0			AA 03000	
	MAAKO	FLIBZ	040		TF		FB	1.0			AA 03000	
		FLIBZ	010	FACF	IF		FB				AA 03000	
		JACEN	020	FAF	TF		FB	1.0			AA 02000	
		RW08L	030	MAP	TF		FO	0.3			AT 00150	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		086.9 (089.9T)		AA 00580	
	CLEEP	050		DF		FO				AA 04000	
	CLEEP	060		HM	R	FO		203.5 (206.5T)	004.0	AA 04000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	CLEEP	N301738.95	W0951017.61	N3017.649	W09510.294
	BEPEA	N300526.35	W0954932.93	N3005.439	W09549.549
	FLIBZ	N300024.77	W0953158.72	N3000.413	W09531.979
	GUSHR	N301322.44	W0955028.14	N3013.374	W09550.469
	JACEN	N300025.24	W0952813.04	N3000.421	W09528.217
	KABBY	N300022.19	W0954553.21	N3000.370	W09545.887
	KICKM	N300023.27	W0954100.25	N3000.388	W09541.004
	LIMEE	N300228.43	W0954912.73	N3002.474	W09549.212
	MAAKO	N300020.69	W0955138.03	N3000.345	W09551.634
	RW08L	N300025.78	W0952131.65	N3000.430	W09521.528

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW08L	00091	55

QUALITY
12
CHECKED

CITY AND STATE HOUSTON, TX	ELEVATION: 96	TDZE: 95	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (RNP) Y RWY 8L, ORIG-A 5 MARCH 2015	SUP:
	AIRPORT NAME: GEORGE BUSH INTERCONTINENTAL/HOUSTON				AMDT: ORIG
					DATED: 05/29/2014

ILS - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.29				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.													
TERMINAL ROUTES										MISSED APPROACH							
FROM		TO			COURSE AND DISTANCE			ALTITUDE		ILS: DA LOC: 5.06 MILES AFTER ALIBI LOM OR AT I-CXO 1.37 DME FIX CLIMB TO 1000 THEN CLIMBING LEFT TURN TO 2100 DIRECT ALIBI LOM/I-CXO 6.43 DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NW, RT, 140.48 INBOUND. CHART FAS OBST: 325 TREE 302159N/0952510W FAS OBST: 589 AAO 302520N/0952831W CHART IN PLANVIEW: (CFBQR) CHART CIRCLING ICON.							
TNV VORTAC		ALIBI LOM/I-CXO 6.43 DME			065.98 / 31.41			2100									
HUB VOR/DME		ALIBI LOM/I-CXO 6.43 DME			342.44 / 47.62			2100									
DAS VORTAC		ALIBI LOM/I-CXO 6.43 DME			283.78 / 45.55			3000									
1. PT <u> L </u> SIDE OF COURSE <u>320.48</u> OUTBOUND <u>2100</u> FT WITHIN <u>10</u> MILES OF <u>ALIBI LOM/I-CXO 6.43 DME (IAF)</u> 2. _____ 3. FAC: <u>140.48</u> FAF: <u>ALIBI LOM/I-CXO 6.43 DME</u> DIST FAF TO MAP: <u>5.06</u> THLD: <u>5.06</u> 4. MIN. ALT: <u>ALIBI LOM 2100, ZUDOP/I-CXO 3.20 DME 840*</u> 5. DIST TO THLD FROM OM: <u>5.06</u> MM: <u>-</u> IM: <u>-</u> 150 HAT: <u>-</u> 100 HAT: <u>-</u> GS ANT: <u>941</u> 6. MIN GS INCPT: <u>2100</u> GS ALT AT: <u>-</u> OM: <u>1915</u> MM: <u>-</u> IM: <u>-</u> 7. GS ANGLE: <u>3.00</u> TCH: <u>47.0</u> 8. MSA FROM: <u>CX NDB 3100</u>										MAG VAR: 5E		EPOCH YEAR: 2000					
MINIMUMS																	
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A X							
CATEGORY =====>		A			B			C			D			E			
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA		
S-ILS 14	443	1/2	200	443	1/2	200	443	1/2	200	443	1/2	200					
S-LOC 14	840	1/2	597	840	1/2	597	840	1 1/4	597	840	1 1/4	597					
CIRCLING	840	1	595	840	1	595	880	1 3/4	635	960	2 1/4	715					
ZUDOP FIX MINIMUMS																	
S-LOC 14	640	1/2	397	640	1/2	397	640	5/8	397	640	5/8	397					
CIRCLING	700	1	455	700	1	455	880	1 3/4	635	960	2 1/4	715					
NOTES: CHART NOTE: ADF REQUIRED. CHART PLANVIEW NOTE: ADF REQUIRED. *LOC ONLY CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE DAVID WAYNE HOOKS MEMORIAL ALTIMETER (SEE FORM 8260-10)																	
CITY AND STATE		ELEVATION: 245 TDZE: 243				FACILITY IDENTIFIER: I-CXO		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:					
HOUSTON, TX		AIRPORT NAME: LONE STAR EXECUTIVE						ILS OR LOC RWY 14, AMDT 3, 03/05/2015				AMDT: 2B					
												DATED 04/07/2011					

ILS - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):
SETTING AND INCREASE ALL DA 57 FEET, AND ALL MDA 60 FT.; INCREASE S-LOC 14 CATS C/D 1/8 AND
CIRCLING CATS C/D VISIBILITY 1/4 MILE. ZUDOP FIX MINIMUMS: INCREASE S-LOC 14 CATS C/D AND
CIRCLING CATS C/D VISIBILITY 1/4 MILE.
CHART NOTE: FOR INOPERATIVE MALSR WHEN USING DAVID WAYNE HOOKS MEMORIAL ALTIMETER SETTING,
INCREASE S-ILS 14 ALL CATS VISIBILITY TO 7/8 MILE.



CITY AND STATE HOUSTON, TX	ELEVATION: 245 TDZE: 243 AIRPORT NAME: LONE STAR EXECUTIVE	FACILITY IDENTIFIER: I-CXO	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 14, AMDT 3, 03/05/2015	SUP:
				AMDT: 2B
				DATED: 04/07/2011

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
ILS - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

QUALITY
6
CHECKED

CITY AND STATE
HOUSTON, TX

ELEVATION: 245 TDZE: 243
AIRPORT NAME:
LONE STAR EXECUTIVE

FACILITY
IDENTIFIER:
I-CXO

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
ILS OR LOC RWY 14, AMDT 3, 03/05/2015

SUP:
AMDT: 2B
DATED: 04/07/2011

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
ILS STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29												
ARINC SUMMARY - 424-18 - ILS												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	DAS	DAS	010		IF		FB					
	DAS	ALIBI	020		TF		FB				AA 03000	
	DAS	ALIBI	030	IAF	PI	R	FB		275.5 ()	010.0	AA 02100	
	HUB	HUB	010		IF		FB					
	HUB	ALIBI	020		TF		FB				AA 02100	
	HUB	ALIBI	030	IAF	PI	R	FB		275.5 ()	010.0	AA 02100	
	TNV	TNV	010		IF		FB					
	TNV	ALIBI	020		TF		FB				AA 02100	
	TNV	ALIBI	030	IAF	PI	R	FB		275.5 ()	010.0	AA 02100	
		CFBQR	010	FACF	IF		FB				AA 02100	GI 02100
		ALIBI	020	FAF	CF		FB		140.0 ()	006.0	GI 02100	GS 01915
		RW14	030	MAP	CF		FO		140.0 ()	005.1	AT 00281	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		140.5 ()		AA 01000	
		CX	050		DF	L	FO				AA 02100	
		CX	060		HM	R	FO		140.5 ()	T01.0	AA 02100	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		DAS	N301122.96		W0943841.94		N3011.383		W09438.699			
		HUB	N293920.22		W0951635.83		N2939.337		W09516.597			
		IAH	N295724.90		W0952044.59		N2957.415		W09520.743			
		TNV	N301718.70		W0960329.66		N3017.312		W09603.494			
		ICXO (DME)	N302035.27		W0952424.01		N3020.588		W09524.400			
		ALIBI	N302556.57		W0952832.75		N3025.943		W09528.546			
		CFBQR	N303053.47		W0953229.03		N3030.891		W09532.484			
		RW14	N302145.72		W0952513.62		N3021.762		W09525.227			
		ICXO (LOC)	N302036.37		W0952418.63		N3020.606		W09524.311			
		CX	N302555.49		W0952834.56		N3025.925		W09528.576			
RUNWAY DATA		RWY	THRESHOLD ELEVATION		TCH							
		RW14	00234		47							



CITY AND STATE HOUSTON, TX	ELEVATION: 245	TDZE: 243	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: LONE STAR EXECUTIVE		I-CXO	ILS OR LOC RWY 14, AMDT 3, 03/05/2015	AMDT: 2B
					DATED: 04/07/2011

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION LOC STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
ARINC SUMMARY - 424-18 - LOC												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	DAS	DAS	010		IF		FB					
	DAS	ALIBI	020		TF		FB				AA 03000	
	DAS	ALIBI	030	IAF	PI	R	FB		275.5 ()	010.0	AA 02100	
	HUB	HUB	010		IF		FB					
	HUB	ALIBI	020		TF		FB				AA 02100	
	HUB	ALIBI	030	IAF	PI	R	FB		275.5 ()	010.0	AA 02100	
	TNV	TNV	010		IF		FB					
	TNV	ALIBI	020		TF		FB				AA 02100	
	TNV	ALIBI	030	IAF	PI	R	FB		275.5 ()	010.0	AA 02100	
		CFBQR	010	FACF	IF		FB				AA 02100	
		ALIBI	020	FAF	CF		FB		140.0 ()	006.0	AA 02100	
		ZUDOP	021	SDF	CF		FB		140.0 ()	003.3	AA 00840	
		RW14	030	MAP	CF		FO		140.0 ()	001.8	AT 00281	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		140.5 ()		AA 01000	
		CX	050		DF	L	FO				AA 02100	
		CX	060		HM	R	FO		140.5 ()	T01.0	AA 02100	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		DAS	N301122.96		W0943841.94		N3011.383		W09438.699			
		HUB	N293920.22		W0951635.83		N2939.337		W09516.597			
		IAH	N295724.90		W0952044.59		N2957.415		W09520.743			
		TNV	N301718.70		W0960329.66		N3017.312		W09603.494			
		ICXO (DME)	N302035.27		W0952424.01		N3020.588		W09524.400			
		ALIBI	N302556.57		W0952832.75		N3025.943		W09528.546			
		CFBQR	N303053.47		W0953229.03		N3030.891		W09532.484			
		ZUDOP	N302314.91		W0952624.38		N3023.249		W09526.406			
		RW14	N302145.72		W0952513.62		N3021.762		W09525.227			
		ICXO (LOC)	N302036.37		W0952418.63		N3020.606		W09524.311			
		CX	N302555.49		W0952834.56		N3025.925		W09528.576			
RUNWAY DATA			THRESHOLD									
		RWY	ELEVATION		TCH							
		RW14	00234		47							

QUALITY
12
CHECKED

CITY AND STATE HOUSTON, TX	ELEVATION: 245	TDZE: 243	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: LONE STAR EXECUTIVE		I-CXO	ILS OR LOC RWY 14, AMDT 3, 03/05/2015	AMDT: 2B
					DATED: 04/07/2011

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION NDB STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.27										Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.									
TERMINAL ROUTES										MISSED APPROACH									
FROM			TO			COURSE AND DISTANCE				ALTITUDE		MAP: 5.06 MILES AFTER ALIBI LOM							
DAS VORTAC			ALIBI LOM			283.78 / 45.54				3000		CLIMB TO 1000 THEN CLIMBING LEFT TURN TO 2100 DIRECT ALIBI LOM AND HOLD.							
HUB VOR/DME			ALIBI LOM			342.44 / 47.62				2100									
TNV VORTAC			ALIBI LOM			065.98 / 31.41				2100									
										ADDITIONAL FLIGHT DATA: HOLD NW, RT, 140.48 INBOUND. FAS OBST: 569 AAO 302505N/0952726W ALIBI LOM TO RW14: 3.39/47. CHART CIRCLING ICON. 599 AAO 302537N/0952857W									
1. PT <u>L</u> SIDE OF COURSE <u>320.09</u> OUTBOUND <u>2100</u> FT WITHIN <u>10</u> MILES OF <u>ALIBI LOM</u> (IAF)																			
2.																			
3. FAC <u>140.09</u> FAF <u>ALIBI LOM</u> DIST FAF TO MAP <u>5.06</u> THLD <u>5.06</u>																			
4. MIN. ALT <u>ALIBI LOM 2100</u>																			
8. MSA FROM: <u>CX LOM 3100</u>										MAG VAR: 5E EPOCH YEAR: 2000									
MINIMUMS																			
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A		STANDARD @							
CATEGORY =====>		A			B			C			D			E					
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA				
S-14	880	3/4	637	880	3/4	637	880	1 3/8	637	880	1 3/8	637							
CIRCLING	880	1	635	880	1	635	880	1 3/4	635	960	2 1/4	715							
NOTES:																			
CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT.										@ CAT D 800-2 1/4									
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE DAVID WAYNE HOOKS MEMORIAL ALTIMETER SETTING AND INCREASE ALL MDAS 60 FEET INCREASE S-14 CAT C/D VISIBILITY TO 1 1/2 MILES, CIRCLING CAT C VISIBILITY TO 2 MILES, AND CAT D VISIBILITY TO 2 1/2 MILES.										@ NA WHEN LOCAL WEATHER NOT AVAILABLE.									
(SEE FORM 8260-10)																			
CITY AND STATE HOUSTON, TX				ELEVATION: 245 TDZE: 243 AIRPORT NAME: LONE STAR EXECUTIVE				FACILITY IDENTIFIER: CX		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: NDB RWY 14, AMDT 3, 03/05/2015				SUP AMDT 2B DATE 04/07/2011					



**NDB STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - - TITLE 14 CFR PART 97.27**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):**CHART NOTE: FOR INOPERATIVE MALSR, INCREASE CAT C/D VISIBILITY TO 1 3/4 MILE.****CHART NOTE: FOR INOPERATIVE MALSR WHEN USING DAVID WAYNE HOOKS MEMORIAL ALTIMETER SETTING,
INCREASE CAT D VISIBILITY TO 2 MILES.**

CITY AND STATE

HOUSTON, TX

ELEVATION: 245

TDZE: 243

AIRPORT NAME:

LONE STAR EXECUTIVE

FACILITY
IDENTIFIER:
CX

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

NDB RWY 14, AMDT 3, 03/05/2015

SUP:

AMDT: 2B

DATED: 04/07/2011

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.								
TERMINAL ROUTES										MISSED APPROACH						
FROM		TO		COURSE AND DISTANCE			ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW14 CLIMBING LEFT TURN TO 3100 DIRECT CLEEP AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3100. ADDITIONAL FLIGHT DATA: HOLD N, RT, 199.13 INBOUND. CHART FAS OBST: 389 TREE 302326N/0952539W DISTANCE TO THLD FROM 200 HAT: 0.51 NM. WAAS CHANNEL # 99512 REFERENCE PATH ID: W14A LTP HAE: 43.8 M							
HEKRI (IAF)		AXTEP (FB)		230.46 / 6.30			2100									
CEKRU (IAF)		AXTEP (FB)		050.36 / 6.30			2100									
AXTEP (IF)		FOBNA (FB)		140.41 / 6.30			2100									
FOBNA (FAF)		ANADE/2.10 NM TO RW14 (FB)		140.45 / 3.61												
ANADE/2.10 NM TO RW14		RW14 (MAP) (FO)		140.45 / 2.10												
RW14 (MAP)		443 MSL		140.45			3100									
443 MSL		CLEEP (FO)														
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)										MAG VAR: 5E EPOCH YEAR: 2000						
2. PROFILE STARTS AT AXTEP																
3. FAC: 140.45 FAF: FOBNA DIST FAF TO MAP: 5.71 THLD: 5.71																
4. MIN. ALT: AXTEP 2100, FOBNA 2100, ANADE/2.10 NM TO RW14 940*																
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____																
6. MIN GS INCPT: 2100 GS ALT AT: FOBNA 2100 OM: _____ MM: _____ IM: _____																
7. GS ANGLE: 3.00 TCH: 47.0 34:1 IS CLEAR																
8. MSA FROM: RW14 3100																
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		STANDARD @							
CATEGORY =====>		A			B			C			D			E		
		DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA		443	1/2	200	443	1/2	200	443	1/2	200	443	1/2	200			
LNAV/VNAV DA		498	1/2	255	498	1/2	255	498	1/2	255	498	1/2	255			
LNAV MDA		640	1/2	397	640	1/2	397	640	5/8	397	640	5/8	397			
CIRCLING		700	1	455	700	1	455	880	1 3/4	635	960	2 1/4	715			
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -6C (-22F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: RADAR REQUIRED. (SEE FORM 8260-10)																
CITY AND STATE HOUSTON, TX		ELEVATION: 245 TDZE: 243 AIRPORT NAME: LONE STAR EXECUTIVE			FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 14, AMDT 1, 03/05/2015						SUP: AMDT: ORIG DATED 08/27/2009			

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION			Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.		
RNAV - STANDARD					
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33					
NOTES, (CONT.): CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE DAVID WAYNE HOOKS MEMORIAL ALTIMETER SETTING AND INCREASE ALL DA 57 FEET, AND ALL MDA 60 FEET; INCREASE ALL CATS LNAV/VNAV VISIBILITY TO 5/8 , INCREASE LNAV CAT C/D AND CIRCLING C/D VISIBILITY 1/4 MILE. CHART NOTE: BARO-VNAV NA WHEN USING DAVID WAYNE HOOKS MEMORIAL ALTIMETER SETTING. CHART NOTE: FOR INOPERATIVE MALSR WHEN USING DAVID WAYNE HOOKS MEMORIAL ALTIMETER SETTING; INCREASE LPV ALL CATS VISIBILITY TO 7/8 MILE. *LNAV ONLY					
CITY AND STATE HOUSTON, TX	ELEVATION: 245 AIRPORT NAME: LONE STAR EXECUTIVE	TDZE: 243	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 14, AMDT 1, 03/05/2015	SUP:
					AMDT: ORIG
					DATED: 08/27/2009



RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KCXO
RUNWAY	RW14
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W14A
LTP/FTP LATITUDE	302145.7165N
LTP/FTP LONGITUDE	0952513.6155W
LTP/FTP ELLIPSOIDAL HEIGHT	+00438
FPAP LATITUDE	302032.1280N
FPAP LONGITUDE	0952415.4645W
THRESHOLD CROSSING HEIGHT (TCH)	00047.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	143.75
LENGTH OFFSET	0464
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
<u>CRC REMAINDER</u>	63F7C59C

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+00714
FPAP ORTHOMETRIC HEIGHT	+00714

QUALITY
5
CHECKED

CITY AND STATE HOUSTON, TX	ELEVATION: 245 TDZE: 243 AIRPORT NAME: LONE STAR EXECUTIVE	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 14, AMDT 1, 03/05/2015	SUP:
				AMDT: ORIG
				DATED: 08/27/2009

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible]

SUP:	
AMDT:	ORIG
DATED:	08/27/2009

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

SUSAP KCXOK4SRW14 K4PG

0 18018003125

M

QUALITY
5
CHECKED

CITY AND STATE
HOUSTON, TX

ELEVATION: **245** TDZE: **243**
AIRPORT NAME:
LONE STAR EXECUTIVE

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
RNAV (GPS) RWY 14, AMDT 1, 03/05/2015

SUP:
AMDT: ORIG
DATED: 08/27/2009

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - FAR PART 97.33												
ARINC SUMMARY - 424-18 - RNAV (GPS)												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	CEKRU	CEKRU	010	IAF	IF		FB					
	CEKRU	AXTEP	020		TF		FB	1.0	050.4 (055.4T)	006.3	AA 02100	
	HEKRI	HEKRI	010	IAF	IF		FB					
	HEKRI	AXTEP	020		TF		FB	1.0	230.5 (235.5T)	006.3	AA 02100	
		AXTEP	010	FACF	IF		FB				AA 02100	
		FOBNA	020	FAF	TF		FB	0.5	140.4 (145.4T)	006.3	AA 02100	
		ANADE	021	SDF	TF		FB	0.3	140.5 (145.5T)	003.6	AA 00940 GS 00949	
		RW14	030	MAP	TF		FO	0.3	140.5 (145.5T)	002.1	AT 00281	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		140.5 (145.5T)		AA 00443	
		CLEEP	050		DF	L	FO				AA 03100	
		CLEEP	060		HM	R	FO		199.1 (204.1T)	004.0	AA 03100	
POINT DATA		WAYPOINT		LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS		
		ANADE		N302329.77		W0952636.18		N3023.496		W09526.603		
		AXTEP		N303140.66		W0953306.52		N3031.678		W09533.109		
		CEKRU		N302805.43		W0953906.60		N3028.091		W09539.110		
		CLEEP		N301738.95		W0951017.61		N3017.649		W09510.294		
		FOBNA		N302628.69		W0952858.28		N3026.478		W09528.971		
		HEKRI		N303515.61		W0952706.00		N3035.260		W09527.100		
		RW14		N302145.72		W0952513.62		N3021.762		W09525.227		
RUNWAY DATA				THRESHOLD								
		RWY		ELEVATION		TCH						
		RW14	00234			47						



CITY AND STATE HOUSTON, TX	ELEVATION: 245	TDZE: 243	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: LONE STAR EXECUTIVE		RNAV	RNAV (GPS) RWY 14, AMDT 1, 03/05/2015	AMDT: ORIG
					DATED: 08/27/2009

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33						Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.										
TERMINAL ROUTES											MISSED APPROACH					
FROM		TO			COURSE AND DISTANCE			ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW32 CLIMB TO 2100 DIRECT AXTEP AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NW, RT, 140.41 INBOUND. CHART FAS OBST: 324 TREE 302057N/0952414W DISTANCE TO THLD FROM 250 HAT: 0.64 NM. WAAS CHANNEL # 62819 REFERENCE PATH ID: W32A CHART CIRCLING ICON LTP HAE: 46 M						
IWUHU (IAF)		BRZZI (FB)			230.60 / 3.50			3000								
BRZZI		RILAY (FB)			230.57 / 3.50			2400								
RILAY (IF)		NORLE (FB)			320.54 / 6.30			2000								
NORLE (FAF)		CAGAR/1.40 NM TO RW32 (FB)			320.51 / 3.97											
CAGAR/1.40 NM TO RW32		RW32 (MAP) (FO)			320.51 / 1.40											
RW32 (MAP)		495 MSL			320.51			2100								
495 MSL		AXTEP (FO)														
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT RILAY 3. FAC: <u>320.51</u> FAF: <u>NORLE</u> DIST FAF TO MAP: <u>5.37</u> THLD: <u>5.37</u> 4. MIN. ALT: <u>RILAY 2400, NORLE 2000, CAGAR/1.40 NM TO RW32 720*</u> 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: <u>2000</u> GS ALT AT: <u>NORLE 2000</u> OM: _____ MM: _____ IM: _____ 7. GS ANGLE: <u>3.00</u> TCH: <u>50.0</u> 34:1 IS NOT CLEAR 8. MSA FROM: <u>RW32 3100</u>																
											MAG VAR: 5E EPOCH YEAR: 2000					
MINIMUMS																
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		STANDARD @							
CATEGORY =====>		A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
LPV DA	495	3/4	250	495	3/4	250	495	3/4	250	495	3/4	250				
LNAV/VNAV DA	505	7/8	260	505	7/8	260	505	7/8	260	505	7/8	260				
LNAV MDA	580	1	335	580	1	335	580	1	335	580	1	335				
CIRCLING	700	1	455	700	1	455	880	1 3/4	635	960	2 1/4	715				
NOTES: CHART NOTE: BARO-VNAV NA WHEN USING DAVID WAYNE HOOKS MEMORIAL ALTIMETER SETTING. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -6C (-22F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. (SEE FORM 8260-10)																
CITY AND STATE HOUSTON, TX				ELEVATION: 245 TDZE: 245 AIRPORT NAME: LONE STAR EXECUTIVE				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 32, AMDT 2, 03/05/2015				SUP: AMDT: 1 DATED 09/23/2010		



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):

CHART PLANVIEW NOTE: RADAR REQUIRED.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE DAVID WAYNE HOOKS MEMORIAL ALTIMETER

SETTING AND INCREASE ALL DA 57 FEET AND ALL MDA 60 FEET. INCREASE LPV AND LNAV/VNAV ALL CATS

VISIBILITY TO 1 MILE AND INCREASE LNAV CATS C AND D VISIBILITY TO 1 1/8 MILE, AND INCREASE

CIRCLING CAT C AND D 1/4 MILE.

CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

*LNAV ONLY.

QUALITY
5
CHECKED

CITY AND STATE

HOUSTON, TX

ELEVATION: 245

TDZE: 245

AIRPORT NAME:

LONE STAR EXECUTIVE

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 32, AMDT 2, 03/05/2015

SUP:

AMDT: 1

DATED: 09/23/2010

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION**DATA FIELD****DATA**

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KCXO
RUNWAY	RW32
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W32A
LTP/FTP LATITUDE	302044.5405N
LTP/FTP LONGITUDE	0952425.1015W
LTP/FTP ELLIPSOIDAL HEIGHT	+00460
FPAP LATITUDE	302158.1220N
FPAP LONGITUDE	0952523.4670W
THRESHOLD CROSSING HEIGHT (TCH)	00050.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0464
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER

F7BEEFF3

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+00735
FPAP ORTHOMETRIC HEIGHT	+00735

QUALITY
5
CHECKED

CITY AND STATE

HOUSTON, TX

ELEVATION: 245

TDZE: 245

AIRPORT NAME:

LONE STAR EXECUTIVE

FACILITY
IDENTIFIER:
RNAVPROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 32, AMDT 2, 03/05/2015

SUP:

AMDT: 1

DATED: 09/23/2010

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KCXOK4FR32	AIWUHU	010IWUHU	K4EA0E	A	IF				18000		A	JS
SUSAP	KCXOK4FR32	AIWUHU	020BRZZIK4EA0E		010TF		23060035	+	03000			A	JS
SUSAP	KCXOK4FR32	AIWUHU	030RILAYK4EA0EE	B	010TF		23060035	+	02400			A	JS
SUSAP	KCXOK4FR32	R	010RILAYK4EA0E	I	IF			+	02400	18000		A	JS
SUSAP	KCXOK4FR32	R	020NORLEK4EA1E	F	051TF		32050063	+	02000		RW32	K4PGA	JS
SUSAP	KCXOK4FR32	R	020NORLEK4EA2WALPV			ALNAV/VNAV	ALNAV						JS
SUSAP	KCXOK4FR32	R	021CAGARK4EA0E	S	031TF		32050040	V	0072000737		-300	A	JS
SUSAP	KCXOK4FR32	R	030RW32	K4PGOGY	M	031TF	32050014		00291		-300	A	JS
SUSAP	KCXOK4FR32	R	040		0	M	CA	3205	+	00495		A	JS
SUSAP	KCXOK4FR32	R	050AXTEPK4EA0EY		DF			+	02100			A	JS
SUSAP	KCXOK4FR32	R	060AXTEPK4EA0EE	R	HM		14040040	+	02100			A	JS

[illegible][illegible][illegible]

CITY AND STATE HOUSTON, TX	ELEVATION: 245 AIRPORT NAME: LONE STAR EXECUTIVE	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 32, AMDT 2, 03/05/2015	SUP:	CHECKED
				AMDT:	1
				DATED:	09/23/2010

QUALITY
5
CHECKED

SUSAP KCXOK4SRW32 K4PG

018018003125

M



CITY AND STATE HOUSTON, TX	ELEVATION: 245 AIRPORT NAME: LONE STAR EXECUTIVE	TDZE: 245 RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 32, AMDT 2, 03/05/2015	SUP:
				AMDT: 1
				DATED: 09/23/2010

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - FAR PART 97.33												
ARINC SUMMARY - 424-18 - RNAV (GPS)												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	IWUHU	IWUHU	010	IAF	IF		FB					
	IWUHU	BRZZI	020		TF		FB	1.0	230.6 (235.6T)	003.5	AA 03000	
	IWUHU	RILAY	030		TF		FB	1.0	230.6 (235.6T)	003.5	AA 02400	
		RILAY	010	FACF	IF		FB				AA 02400	
		NORLE	020	FAF	TF		FB	0.5	320.5 (325.5T)	006.3	AA 02000	
		CAGAR	021	SDF	TF		FB	0.3	320.5 (325.5T)	004.0	AA 00720	GS 00737
		RW32	030	MAP	TF		FO	0.3	320.5 (325.5T)	001.4	AT 00291	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		320.5 (325.5T)		AA 00495	
		AXTEP	050		DF		FO				AA 02100	
		AXTEP	060		HM	R	FO		140.4 (145.4T)	004.0	AA 02100	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		AXTEP	N303140.66		W0953306.52		N3031.678		W09533.109			
		BRZZI	N301305.32		W0951327.59		N3013.089		W09513.460			
		CAGAR	N301935.15		W0952330.11		N3019.586		W09523.502			
		IWUHU	N301504.30		W0951007.61		N3015.072		W09510.127			
		NORLE	N301618.61		W0952054.41		N3016.310		W09520.907			
		RILAY	N301106.25		W0951647.44		N3011.104		W09516.791			
		RW32	N302044.54		W0952425.10		N3020.742		W09524.418			
RUNWAY DATA		RWY	THRESHOLD ELEVATION		TCH							
		RW32	00241		50							



CITY AND STATE HOUSTON, TX	ELEVATION: 245	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 32, AMDT 2, 03/05/2015	SUP:
	AIRPORT NAME: LONE STAR EXECUTIVE			AMDT: 1
				DATED: 09/23/2010

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.											
US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION															
TERMINAL ROUTES										MISSED APPROACH					
FROM		TO		COURSE AND DISTANCE				ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW16L CLIMB DIRECT CAVOB TO CROSS CAVOB AT OR BELOW 2000 THEN CLIMB TO 5000 ON TRACK 162.91 TO MILLT AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5000. ADDITIONAL FLIGHT DATA: HOLD S, RT, 342.66 INBOUND. FAS OBST: 574 TREE 472805N/1221800W CHART 696 CTRL TWR 472720N/1221805W. DISTANCE TO THLD FROM 266 HAT: 0.67 NM. CHART VDP AT 1.03 MILES TO RW16L* *LNAV ONLY. WAAS CHANNEL # 63202 REFERENCE PATH ID: W16A CHART AT/ABOVE 6000 AT GRIFY. CHART CIRCLING ICON. CHART KBFI CHART MAXIMUM 2000 AT CAVOB. LTP HAE: 108.8 M					
PAE VOR/DME		KENMO (FB)		167.89 / 13.25				5000							
KENMO (IAF)		HELZR (FB)		163.34 / 3.14				4000							
GRIFY (IAF)		HELZR (FB)		134.93 / 8.27				4000							
HELZR (IF)		KARFO (FB)		163.34 / 2.51				3200							
KARFO		DGLAS (FB)		163.34 / 4.08				1900							
DGLAS		RW16L (MAP) (FO)		163.34 / 4.44											
RW16L (MAP)		699 MSL		163.34											
(SEE FORM 8260-10)															
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT HELZR 3. FAC: 163.34 FAF: DGLAS DIST FAF TO MAP: 4.44 THLD: 4.44 4. MIN. ALT: HELZR 4000, KARFO 3200, DGLAS 1900 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 1900 GS ALT AT: DGLAS 1900 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 53.6 34:1 IS CLEAR 8. MSA FROM: RW16L 6400										MAG VAR: 17E		EPOCH YEAR: 2010			
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		STANDARD					
CATEGORY ==>		A		B		C		D		E					
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA	699	2400	266	699	2400	266	699	2400	266	699	2400	266			
LNAV/VNAV DA	765	3200	332	765	3200	332	765	3200	332	765	3200	332			
LNAV MDA	840	2400	407	840	2400	407	840	4000	407	840	4000	407			
CIRCLING	1000	1	567	1000	1	567	1000	1 1/2	567	1000	2	567			
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -6C (22F) OR ABOVE 54C (130F). CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 16R. CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON PAE VOR/DME AIRWAY RADIALS 163 CW 236. (SEE FORM 8260-10)															
CITY AND STATE		ELEVATION: 433 TDZE: 433		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:		QUALITY 4 CHECKED			
SEATTLE, WA		AIRPORT NAME:		SEATTLE-TACOMA INTL		RNAV (GPS) Y RWY 16L, AMDT 4A				AMDT: 4					
						5 MARCH 2015				DATED 11/13/2014					

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
699 MSL	CAVOB (FB)		
CAVOB	MILLT (FO)	162.91 / 8.65	

NOTES, (CONT.):

CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT.

CHART NOTE: USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS.

CHART NOTE: LNAV PROCEDURE NA DURING SIMULTANEOUS OPERATIONS.

CHART NOTE: FOR INOPERATIVE ALSF-2, INCREASE LPV ALL CATS VISIBILITY TO RVR 4500, AND INCREASE LNAV CATS C/D VISIBILITY TO RVR 6000.

CITY AND STATE
SEATTLE, WA

ELEVATION: 433 TDZE: 433
AIRPORT NAME:
SEATTLE-TACOMA INTL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) Y RWY 16L, AMDT 4A
5 MARCH 2015

SUP:
AMDT: 4
DATED: 11/13/2014

QUALITY
4
CHECKED

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KSEA
RUNWAY	RW16L
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W16A
LTP/FTP LATITUDE	472749.6635N
LTP/FTP LONGITUDE	1221827.9040W
LTP/FTP ELLIPSOIDAL HEIGHT	+01088
FPAP LATITUDE	472552.2165N
FPAP LONGITUDE	1221828.9440W
THRESHOLD CROSSING HEIGHT (TCH)	00053.6
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 3683A0B5

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+01318
FPAP ORTHOMETRIC HEIGHT	+01318

CITY AND STATE
SEATTLE, WA

ELEVATION: 433 TDZE: 433
AIRPORT NAME:
SEATTLE-TACOMA INTL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) Y RWY 16L, AMDT 4A
5 MARCH 2015

SUP: **QUALITY
4
CHECKED**
AMDT: 4
DATED: 11/13/2014

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible][illegible][illegible][illegible][illegible]

CITY AND STATE SEATTLE, WA	ELEVATION: 433 AIRPORT NAME: SEATTLE-TACOMA INTL	TDZE: 433	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) Y RWY 16L, AMDT 4A 5 MARCH 2015	SUP: 4
					AMDT: 4
					DATED: 11/13/2014

QUALITY
4
CHECKED

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

[illegible]

SUP:	
AMDT:	4
DATED:	11/13/2014

Page 5 of 6 Pages

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - FAR PART 97.33												
ARINC SUMMARY - 424-18 - RNAV (GPS)												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	GRIFY	GRIFY	010	IAF	IF		FB				AA 06000	
	GRIFY	HELZR	020		TF		FB	1.0	134.9 (151.9T)	008.3	AA 04000	
	PAE	PAE	010		IF		FB					
	PAE	KENMO	020	IAF	TF		FB	2.0	167.9 (184.9T)	013.3	AA 05000	
	PAE	HELZR	030		TF		FB	1.0	163.3 (180.3T)	003.1	AA 04000	
		HELZR	010	FACF	IF		FB				AA 04000	
		KARFO	011	SDF	TF		FB	0.5	163.3 (180.3T)	002.5	AA 03200	
		DGLAS	020	FAF	TF		FB	0.5	163.3 (180.3T)	004.1	AA 01900	
		RW16L	030	MAP	TF		FO	0.3	163.3 (180.3T)	004.4	AT 00486	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		163.3 (180.3T)		AA 00699	
		CAVOB	050		DF		FB				AB 02000	
		MILLT	060		TF		FO	1.0	162.9 (179.9T)		AA 05000	
		MILLT	070		HM	R	FO		342.7 (359.7T)	005.0	AA 05000	
POINT DATA		WAYPOINT			LAT IN SECS	LONG IN SECS			LAT IN MINS	LONG IN MINS		
		PAE			N475511.40	W1221640.08			N4755.190	W12216.668		
		CAVOB			N472346.29	W1221830.05			N4723.772	W12218.501		
		DGLAS			N473215.90	W1221825.57			N4732.265	W12218.426		
		GRIFY			N474609.02	W1222407.43			N4746.150	W12224.124		
		HELZR			N473851.30	W1221822.09			N4738.855	W12218.368		
		KARFO			N473620.68	W1221823.42			N4736.345	W12218.390		
		KENMO			N474159.57	W1221820.43			N4741.993	W12218.341		
		MILLT			N471507.75	W1221828.81			N4715.129	W12218.480		
		RW16L			N472749.66	W1221827.90			N4727.828	W12218.465		
RUNWAY DATA				THRESHOLD								
		RWY		ELEVATION		TCH						
		RW16L	00433			54						



CITY AND STATE SEATTLE, WA	ELEVATION: 433	TDZE: 433	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: SEATTLE-TACOMA INTL		RNAV	RNAV (GPS) Y RWY 16L, AMDT 4A	AMDT: 4
				5 MARCH 2015	DATED: 11/13/2014

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33				Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.											
TERMINAL ROUTES										MISSED APPROACH					
FROM		TO		COURSE AND DISTANCE				ALTITUDE		LPV: DA LNAV/VNAV: DA LNAV: RW01 CLIMB TO 1000 THEN CLIMBING LEFT TURN TO 3900 DIRECT HADCI AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3900. ADDITIONAL FLIGHT DATA: CHART FAS OBST: 650 TREE 425057N/0764717W 839 AAO 424721N/0764747W 677 TREE 425031N/0764709W DISTANCE TO THLD FROM 250 HAT: 0.66 NM. WAAS CHANNEL # 81936 REFERENCE PATH ID: W01A CHART CIRCLING ICON LTP HAE: 115.6 M					
EBIHY (IAF)		HADCI (NOPT) (FB)		097.32 / 6.00				3900							
FEHLO (IAF)		HADCI (NOPT) (FB)		277.50 / 6.00				3900							
HADCI (IF/IAF)		CEBUV (FB)		007.41 / 7.79				2200							
CEBUV (FAF)		ZETEM/1.90 NM TO RW01 (FB)		007.40 / 3.34											
ZETEM/1.90 NM TO RW01		RW01 (MAP) (FO)		007.40 / 1.90											
RW01 (MAP)		1000 MSL		007.40				1000							
1000 MSL		HADCI (FO)						3900							
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. HOLD S HADCI, RT, 007.41 INBOUND, 3900 FT. IN LIEU OF PT (IAF) 3. FAC: 007.40 FAF: CEBUV DIST FAF TO MAP: 5.24 THLD: 5.24 4. MIN. ALT: HADCI 3900, CEBUV 2200, ZETEM/1.90 NM TO RW01 1120* 5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT: 6. MIN GS INCPT: 2200 GS ALT AT: CEBUV 2200 OM: MM: IM: 7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS NOT CLEAR 8. MSA FROM:										MAG VAR: 12W EPOCH YEAR: 1985					
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A X							
CATEGORY >>>>>		A		B		C		D		E					
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA	742	1	250	742	1	250		NA			NA				
LNAV/VNAV DA	959	1 5/8	467	959	1 5/8	467		NA			NA				
LNAV MDA	900	1	408	900	1	408		NA			NA				
CIRCLING	980	1	488	1180	1	688		NA			NA				
NOTES: CHART NOTE: BARO-VNAV NA WHEN USING SYRACUSE ALTIMETER SETTING. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (4F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. *LNAV ONLY (SEE FORM 8260-10)															
CITY AND STATE		ELEVATION: 492 TDZE: 492				FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:			
SENECA FALLS, NY		AIRPORT NAME:				FINGER LAKES RGNL		RNAV (GPS) RWY 1, AMDT 3A				AMDT: 3			
								2 APRIL 2015				DATED 11/13/2014			



**RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):

CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE SYRACUSE ALTIMETER SETTING AND INCREASE

ALL DA 86 FT AND ALL MDA 100 FT; INCREASE LPV ALL CATS VISIBILITY 1/8 MILE, LNAV/VNAV ALL CATS

VISIBILITY 1/4 MILE.

CHART NOTE: NIGHT LANDING: RWY 1 NA.

TAA

	FROM	TO	ALT
1.	277/30 CW 097/30 (NOPT)	277/4 CW 097/4	4600
2.	277/4 CW 097/4	HADCI (IF/IAF) (FB)	3900
3.	097/30 CW 187/30	EBIHY (IAF) (FB)	4500
4.	187/30 CW 277/30	FEHLO (IAF) (FB)	4700

QUALITY
9
CHECKED

CITY AND STATE

SENECA FALLS, NY

ELEVATION: 492

TDZE: 492

AIRPORT NAME:

FINGER LAKES RGNL

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 1, AMDT 3A

2 APRIL 2015

SUP:

AMDT: 3

DATED: 11/13/2014

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	0G7
RUNWAY	RW01
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W01A
LTP/FTP LATITUDE	425240.5420N
LTP/FTP LONGITUDE	0764653.7280W
LTP/FTP ELLIPSOIDAL HEIGHT	+01156
FPAP LATITUDE	425409.3770N
FPAP LONGITUDE	0764703.4725W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1472
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 <u>CRC REMAINDER</u>	 3D89E798

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+01498
FPAP ORTHOMETRIC HEIGHT	+01498

QUALITY
9
CHECKED

CITY AND STATE SENECA FALLS, NY	ELEVATION: 492 TDZE: 492 AIRPORT NAME: FINGER LAKES RGNL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 1, AMDT 3A 2 APRIL 2015	SUP:
				AMDT: 3
				DATED: 11/13/2014

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION <u>RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE</u> FLIGHT STANDARDS SERVICES - FAR PART 97.33	Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION <u>RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE</u> FLIGHT STANDARDS SERVICES - FAR PART 97.33	Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC PACKET - 424-18 - RNAV (GPS)

[illegible][illegible][illegible][illegible][illegible]

QUALITY
9
CHECKED

CITY AND STATE
SENECA FALLS, NY

ELEVATION: 492	TDZE: 492
AIRPORT NAME:	
FINGER LAKES RGNL	

FACILITY
IDENTIFIER:

RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
RNAV (GPS) RWY 1, AMDT 3A
 2 APRIL 2015

SUP:	
AMDT:	3
DATED:	11/13/2014

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION								Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.				
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE												
FLIGHT STANDARDS SERVICES - FAR PART 97.33												
ARINC SUMMARY - 424-18 - RNAV (GPS)												
ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	EBIHY	EBIHY	010	IAF	IF		FB					
	EBIHY	HADCI	020		TF		FB	1.0	097.3 (085.3T)	006.0	AA 03900	
	FEHLO	FEHLO	010	IAF	IF		FB					
	FEHLO	HADCI	020		TF		FB	1.0	277.5 (265.5T)	006.0	AA 03900	
	HADCI	HADCI	010	IAF	HF	R	FO		007.4 (355.4T)	004.0	AA 03900	
		HADCI	010	FACF	IF		FB				AA 03900	
		CEBUV	020	FAF	TF		FB	0.5	007.4 (355.4T)	007.8	AA 02200	
		ZETEM	021	SDF	TF		FB	0.3	007.4 (355.4T)	003.3	AA 01120	GS 01137
		RW01	030	MAP	TF		FO	0.3	007.4 (355.4T)	001.9	AT 00532	
MISSED APPROACH		FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
			040		CA		FB		007.4 (355.4T)		AA 01000	
		HADCI	050		DF	L	FO				AA 03900	
		HADCI	060		HM	R	FO		007.4 (355.4T)	004.0	AA 03900	
POINT DATA		WAYPOINT	LAT IN SECS		LONG IN SECS		LAT IN MINS		LONG IN MINS			
		CEBUV	N424727.11		W0764619.41		N4247.452		W07646.324			
		EBIHY	N423911.73		W0765334.84		N4239.196		W07653.581			
		FEHLO	N424009.36		W0763722.13		N4240.156		W07637.369			
		HADCI	N423940.83		W0764528.55		N4239.681		W07645.476			
		ZETEM	N425046.88		W0764641.27		N4250.781		W07646.688			
		RW01	N425240.54		W0764653.73		N4252.676		W07646.896			
RUNWAY DATA		RWY	THRESHOLD ELEVATION		TCH							
		RW01	00492		40							
CITY AND STATE		ELEVATION: 492		TDZE: 492		FACILITY IDENTIFIER:		PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:			SUP:	
SENECA FALLS, NY		AIRPORT NAME:		FINGER LAKES RGNL		RNAV		RNAV (GPS) RWY 1, AMDT 3A			AMDT: 3	
								2 APRIL 2015			DATED: 11/13/2014	



[4910-13]

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 97

[Docket No. [31002](#); Amdt. No. [3630](#)]

**Standard Instrument Approach Procedures, and Takeoff Minimums
and Obstacle Departure Procedures; Miscellaneous Amendments**

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Final rule.

SUMMARY: This rule amends, suspends, or removes Standard Instrument Approach Procedures (SIAPs) and associated Takeoff Minimums and Obstacle Departure Procedures for operations at certain airports. These regulatory actions are needed because of the adoption of new or revised criteria, or because of changes occurring in the National Airspace System, such as the commissioning of new navigational facilities, adding new obstacles, or changing air traffic requirements. These changes are designed to provide for the safe and efficient use of the navigable airspace and to promote safe flight operations under instrument flight rules at the affected airports.

DATES: This rule is effective [INSERT DATE OF PUBLICATION IN THE FEDERAL REGISTER]. The compliance date for each SIAP, associated Takeoff Minimums, and ODP is specified in the amendatory provisions.

The incorporation by reference of certain publications listed in the regulations is approved by the Director of the Federal Register as of [INSERT DATE OF PUBLICATION IN THE FEDERAL REGISTER].

ADDRESSES: Availability of matter incorporated by reference in the amendment is as follows:

For Examination

1. U.S. Department of Transportation, Docket Ops-M30, 1200 New Jersey Avenue SE, West Bldg., Ground Floor, Washington, D.C., 20590-0001;

2. The FAA Air Traffic Organization Service Area in which the affected airport is located;

3. The office of Aeronautical Navigation Products, 6500 South MacArthur Blvd., Oklahoma City, OK 73169 or,

4. The National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to:

http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html.

Availability

All SIAPs and Takeoff Minimums and ODPs are available online free of charge. Visit the National Flight Data Center online at nfdc.faa.gov to register. Additionally, individual SIAP and Takeoff Minimums and ODP copies may be obtained from the FAA Air Traffic Organization Service Area in which the affected airport is located.

FOR FURTHER INFORMATION CONTACT: Richard A. Dunham III,
Flight Procedure Standards Branch (AFS-420)Flight Technologies
and Procedures Division, Flight Standards Service, Federal
Aviation Administration, Mike Monroney Aeronautical Center,
6500 South MacArthur Blvd., Oklahoma City, OK. 73169 (Mail
Address: P.O. Box 25082 Oklahoma City, OK. 73125) telephone:
(405) 954-4164.

SUPPLEMENTARY INFORMATION:

This rule amends Title 14, Code of Federal Regulations,
Part 97 (14 CFR part 97) by amending the referenced SIAPs.
The complete regulatory description of each SIAP is listed on
the appropriate FAA Form 8260, as modified by the National
Flight Data Center (NFDC)/Permanent Notice to Airmen (P-
NOTAM), and is incorporated by reference under 5 U.S.C.
552(a), 1 CFR part 51, and 14 CFR §97.20. The large number
of SIAPs, their complex nature, and the need for a special
format make their verbatim publication in the **Federal Register**
expensive and impractical. Further, airmen do not use the
regulatory text of the SIAPs, but refer to their graphic
depiction on charts printed by publishers of aeronautical
materials. Thus, the advantages of incorporation by reference
are realized and publication of the complete description of
each SIAP contained on FAA form documents is unnecessary.

This amendment provides the affected CFR sections, and specifies the SIAPs and Takeoff Minimums and ODPs with their applicable effective dates. This amendment also identifies the airport and its location, the procedure and the amendment number.

Availability and Summary of Material Incorporated by Reference

The material incorporated by reference is publicly available as listed in the ADDRESSES section.

The material incorporated by reference describes SIAPs, Takeoff Minimums and ODPs as identified in the amendatory language for part 97 of this final rule.

The Rule

This amendment to 14 CFR part 97 is effective upon publication of each separate SIAP and Takeoff Minimums and ODP as amended in the transmittal. For safety and timeliness of change considerations, this amendment incorporates only specific changes contained for each SIAP and Takeoff Minimums and ODP as modified by FDC permanent NOTAMs.

The SIAPs and Takeoff Minimums and ODPs, as modified by FDC permanent NOTAM, and contained in this amendment are based on the criteria contained in the U.S. Standard for Terminal Instrument Procedures (TERPS). In developing these changes to SIAPs and Takeoff Minimums and ODPs, the TERPS criteria were applied only to specific conditions existing at the affected

airports. All SIAP amendments in this rule have been previously issued by the FAA in a FDC NOTAM as an emergency action of immediate flight safety relating directly to published aeronautical charts.

The circumstances that created the need for these SIAP and Takeoff Minimums and ODP amendments require making them effective in less than 30 days.

Because of the close and immediate relationship between these SIAPs, Takeoff Minimums and ODPs, and safety in air commerce, I find that notice and public procedure under 5 U.S.C. 553(b) are impracticable and contrary to the public interest and, where applicable, under 5 U.S.C. 553(d), good cause exists for making these SIAPs effective in less than 30 days.

The FAA has determined that this regulation only involves an established body of technical regulations for which frequent and routine amendments are necessary to keep them operationally current. It, therefore--(1) is not a "significant regulatory action" under Executive Order 12866;(2) is not a "significant rule " under DOT Regulatory Policies and Procedures (44 FR 11034; February 26,1979) ; and (3)does not warrant preparation of a regulatory evaluation as the anticipated impact is so minimal. For the same reason, the FAA certifies that this amendment will not have a significant economic impact on a substantial number of small entities under the criteria of the Regulatory Flexibility Act.

List of Subjects in 14 CFR part 97:

Air Traffic Control, Airports, Incorporation by reference, and Navigation (Air).

Issued in Washington, DC on [JANUARY 30, 2015](#)

A handwritten signature in black ink, appearing to read "John Duncan", with a long, sweeping horizontal stroke extending to the right.

John Duncan
Director, Flight Standards Service

ADOPTION OF THE AMENDMENT

Accordingly, pursuant to the authority delegated to me, Title 14, Code of Federal regulations, Part 97, (14 CFR part 97), is amended by amending Standard Instrument Approach Procedures and Takeoff Minimums and ODPs, effective at 0901 UTC on the dates specified, as follows:

PART 97 - STANDARD INSTRUMENT APPROACH PROCEDURES

1. The authority citation for part 97 continues to read as follows:

AUTHORITY: 49 U.S.C. 106(g), 40103, 40106, 40113, 40114, 40120, 44502, 44514, 44701, 44719, 44721-44722.

2. Part 97 is amended to read as follows:

By amending: §97.23 VOR, VOR/DME, VOR or TACAN, and VOR/DME or TACAN; §97.25 LOC, LOC/DME, LDA, LDA/DME, SDF, SDF/DME; §97.27 NDB, NDB/DME; §97.29 ILS, ILS/DME, MLS, MLS/DME, MLS/RNAV; §97.31 RADAR SIAPs; §97.33 RNAV SIAPs; and §97.35 COPTER SIAPs, Identified as follows:

.....EFFECTIVE UPON PUBLICATION

AIRAC DATE	STATE	CITY	AIRPORT	FDC NUMBER	FDC DATE	SUBJECT
5-Mar-15	PA	Doylestown	Doylestown	4/2203	01/13/15	This NOTAM, published in TL 15-05, is hereby rescinded in its entirety.
5-Mar-15	PA	Doylestown	Doylestown	4/2204	01/13/15	This NOTAM, published in TL 15-05, is hereby rescinded in its entirety.
AIRAC DATE	STATE	CITY	AIRPORT	FDC NUMBER	FDC DATE	SUBJECT
5-Mar-15	MN	Austin	Austin Muni	4/0072	01/13/15	RNAV (GPS) RWY 17, Amdt 1
5-Mar-15	MN	Willmar	Willmar Muni-John L Rice Field	4/0101	01/13/15	RNAV (GPS) RWY 31, Amdt 1
5-Mar-15	ND	Bismark	Bismark Muni	4/1055	01/13/15	RNAV (GPS) RWY 13, Orig
5-Mar-15	ND	Bismark	Bismark Muni	4/1078	01/13/15	RNAV (GPS) RWY 3, Amdt 2
5-Mar-15	ND	Bismark	Bismark Muni	4/1082	01/13/15	RNAV (GPS) RWY 21, Amdt 1
5-Mar-15	IL	Peoria	Mount Hawley Auxiliary	4/1094	01/20/15	RNAV (GPS) RWY 18, Amdt 1
5-Mar-15	MA	Pittsfield	Pittsfield Muni	4/1842	01/15/15	RNAV (GPS) RWY 26, Amdt 1
5-Mar-15	MA	Pittsfield	Pittsfield Muni	4/1971	01/15/15	RNAV (GPS) RWY 8, Amdt 1
5-Mar-15	MA	Boston	General Edward Lawrence Logan Intl	4/2040	01/13/15	Takeoff Minimums and (Obstacle) DP, Amdt 13
5-Mar-15	NY	Penn Yan	Penn Yan	4/2208	01/20/15	NDB RWY 28, Amdt 6C
5-Mar-15	NY	Penn Yan	Penn Yan	4/2209	01/20/15	RNAV (GPS) RWY 19, Orig-B
5-Mar-15	KS	Clay Center	Clay Center Muni	4/2532	01/20/15	RNAV (GPS) RWY 17, Orig
5-Mar-15	WI	New Lisbon	Mauston-New Lisbon Union	4/7206	01/13/15	Takeoff Minimums and (Obstacle) DP, Orig
5-Mar-15	LA	Bogalusa	George R Carr Memorial Air Fld	5/0810	01/08/15	Takeoff Minimums and (Obstacle) DP, Amdt 3
5-Mar-15	NY	Farmingdale	Republic	5/2582	01/13/15	ILS OR LOC RWY 14, Amdt 8C
5-Mar-15	ND	Kindred	Robert Odegaard Field	5/2805	01/13/15	Takeoff Minimums and (Obstacle) DP, Orig
5-Mar-15	TX	Plainview	Hale County	5/2973	01/20/15	VOR RWY 4, Amdt 9B
5-Mar-15	TX	Plainview	Hale County	5/2974	01/20/15	RNAV (GPS) RWY 4, Orig
5-Mar-15	AR	Little Rock	Bill And Hillary Clinton National/Adams Field	5/3530	01/20/15	RNAV (GPS) RWY 18, Amdt 1C

5-Mar-15	AR	Little Rock	Bill And Hillary Clinton National/ Adams Field	5/3531	01/20/15	ILS OR LOC RWY 22R, ILS RWY 22R (CAT II & III), Amdt 2C
5-Mar-15	AR	Little Rock	Bill And Hillary Clinton National/ Adams Field	5/3532	01/20/15	RNAV (GPS) RWY 22R, Amdt 1A
5-Mar-15	AR	Little Rock	Bill And Hillary Clinton National/ Adams Field	5/3533	01/20/15	ILS OR LOC RWY 22L, Orig-B
5-Mar-15	AR	Little Rock	Bill And Hillary Clinton National/ Adams Field	5/3534	01/20/15	RNAV (GPS) RWY 22L, Amdt 1B
5-Mar-15	MI	Grand Rapids	Gerald R Ford Intl	5/3682	01/20/15	VOR RWY 17, Orig-D
5-Mar-15	AR	Nashville	Howard County	5/3701	01/20/15	RNAV (GPS) RWY 1, Orig
5-Mar-15	AR	Paragould	Kirk Field	5/3708	01/20/15	VOR RWY 4, Amdt 5
5-Mar-15	IL	Cahokia/St Louis	St Louis Downtown	5/3910	01/20/15	RNAV (GPS) RWY 30L, Orig
5-Mar-15	IL	Cahokia/St Louis	St Louis Downtown	5/3911	01/20/15	RNAV (GPS) RWY 30R, Orig
5-Mar-15	IL	Benton	Benton Muni	5/3926	01/20/15	RNAV (GPS) RWY 18, Orig
5-Mar-15	IA	Hampton	Hampton Muni	5/4099	01/20/15	VOR/DME RWY 35, Amdt 1C
5-Mar-15	IN	Logansport	Logansport/Cass County	5/4127	01/20/15	RNAV (GPS) RWY 27, Amdt 1
5-Mar-15	MA	Nantucket	Nantucket Memorial	5/4420	01/20/15	RNAV (GPS) RWY 15, Orig
5-Mar-15	MA	Nantucket	Nantucket Memorial	5/4421	01/20/15	RNAV (GPS) RWY 33, Amdt 1
5-Mar-15	IL	Alton/St Louis	St Louis Rgnl	5/4741	01/20/15	RNAV (GPS) RWY 29, Amdt 1
5-Mar-15	IL	Alton/St Louis	St Louis Rgnl	5/4742	01/20/15	RNAV (GPS) RWY 35, Amdt 1
5-Mar-15	IL	Alton/St Louis	St Louis Rgnl	5/4743	01/20/15	LOC BC RWY 11, Amdt 9
5-Mar-15	IL	Alton/St Louis	St Louis Rgnl	5/4744	01/20/15	ILS OR LOC RWY 29, Amdt 12
5-Mar-15	IL	Alton/St Louis	St Louis Rgnl	5/4745	01/20/15	RNAV (GPS) RWY 17, Amdt 1
5-Mar-15	IL	Alton/St Louis	St Louis Rgnl	5/4746	01/20/15	NDB RWY 17, Amdt 12
5-Mar-15	IL	Alton/St Louis	St Louis Rgnl	5/4747	01/20/15	RNAV (GPS) RWY 11, Amdt 2
5-Mar-15	IL	Kewanee	Kewanee Muni	5/4748	01/20/15	RNAV (GPS) RWY 19, Amdt 1
5-Mar-15	IL	Kewanee	Kewanee Muni	5/4749	01/20/15	RNAV (GPS) RWY 27, Amdt 1
5-Mar-15	IL	Kewanee	Kewanee Muni	5/4750	01/20/15	RNAV (GPS) RWY 9, Amdt 1
5-Mar-15	IL	Kewanee	Kewanee Muni	5/4751	01/20/15	RNAV (GPS) RWY 1, Amdt 1
5-Mar-15	OH	Galion	Galion Muni	5/4755	01/20/15	VOR RWY 23, Amdt 13
5-Mar-15	OH	Galion	Galion Muni	5/4756	01/20/15	RNAV (GPS) RWY 23, Orig
5-Mar-15	OH	Galion	Galion Muni	5/4757	01/20/15	RNAV (GPS) RWY 5, Orig

5-Mar-15	OH	Hillsboro	Highland County	5/4759	01/20/15	RNAV (GPS) RWY 23, Orig
5-Mar-15	OH	Hillsboro	Highland County	5/4760	01/20/15	NDB RWY 23, Amdt 5
5-Mar-15	OH	Dayton	Greene County-Lewis A Jackson Rgnl	5/4761	01/20/15	VOR RWY 7, Orig
5-Mar-15	OH	Lebanon	Warren County/John Lane Field	5/4762	01/20/15	RNAV (GPS) RWY 1, Amdt 2
5-Mar-15	IL	Chicago/ Rockford	Chicago/Rockford Intl	5/5023	01/20/15	RNAV (GPS) RWY 19, Amdt 2
5-Mar-15	PA	New Castle	New Castle Muni	5/5070	01/21/15	RNAV (GPS) RWY 5, Amdt 1A
5-Mar-15	PA	New Castle	New Castle Muni	5/5071	01/21/15	RNAV (GPS) RWY 23, Amdt 1A
5-Mar-15	PA	New Castle	New Castle Muni	5/5072	01/21/15	NDB RWY 23, Amdt 3A
5-Mar-15	TN	Nashville	Nashville Intl	5/5075	01/21/15	ILS OR LOC RWY 31, Amdt 9
5-Mar-15	NY	Penn Yan	Penn Yan	5/5126	01/20/15	RNAV (GPS) RWY 1, Amdt 3A

AIRAC Date: 5 MARCH 2015

FDC **4/0072** AUM IAP AUSTIN MUNI, AUSTIN, MN. RNAV (GPS) RWY 17, AMDT 1... LPV DA 1484. LNAV/VNAV DA 1508. LNAV HAT 466 ALL CATS. CHART TDZE 1234 DELETE THRE 1231. DELETE PROFILE NOTE: VGSI AND RNAV GLIDESLOPE NOT COINCIDENT. THIS IS RNAV (GPS) RWY 17, AMDT 1A. 1404111230-PERM

FDC **4/0101** BDH IAP WILLMAR MUNI-JOHN L RICE FIELD, WILLMAR, MN. RNAV (GPS) RWY 31, AMDT 1... CHANGE THRE 1126 TO TDZE 1126. THIS IS RNAV (GPS) RWY 31, AMDT 1A. 1404111233-PERM

FDC **4/1055** BIS IAP BISMARCK MUNI, BISMARCK, ND. RNAV (GPS) RWY 13, ORIG... LPV DA 1855. LNAV/VNAV DA 2083. LNAV HAT 445 ALL CATS. CHART TDZE 1655 DELETE THRE 1654. THIS IS RNAV (GPS) RWY 13, ORIG-A. 1404111413-PERM

FDC **4/1078** BIS IAP BISMARCK MUNI, BISMARCK, ND. RNAV (GPS) RWY 3, AMDT 2... CHART TDZE 1661 DELETE THRE 1661. THIS IS RNAV (GPS) RWY 3, AMDT 2A. 1404111413-PERM

FDC **4/1082** BIS IAP BISMARCK MUNI, BISMARCK, ND. RNAV (GPS) RWY 21, AMDT 1... CHART TDZE 1661 DELETE THRE 1661. THIS IS RNAV (GPS) RWY 21, AMDT 1A. 1404111413-PERM

FDC **4/1094** 3MY IAP MOUNT HAWLEY AUXILIARY, PEORIA, IL. RNAV (GPS) RWY 18, AMDT 1... CHANGE THRE 794 TO TDZE 794. THIS IS RNAV (GPS) RWY 18, AMDT 1A. 1404111421-PERM

FDC **4/1842** PSF IAP PITTSFIELD MUNI, PITTSFIELD, MA. RNAV (GPS) RWY 26, AMDT 1... LPV CAT C HAT 797. LPV CAT D DA 1956. DELETE NOTE: PROCEDURE NA AT NIGHT. CHART NOTE: NIGHT LANDING: RWY 8 NA. DELETE NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NA. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. THIS IS RNAV (GPS) RWY 26, AMDT 1A. 1412221313-PERM

FDC **4/1971** PSF IAP PITTSFIELD MUNI, PITTSFIELD, MA. RNAV (GPS) RWY 8, AMDT 1... CHART NOTE: NIGHT LANDING: RWY 8 NA. CHART NOTE: CIRCLING NOT AUTHORIZED SOUTH OF RUNWAYS 8 AND 32. THIS IS RNAV (GPS) RWY 8, AMDT 1A. 1412231503-PERM

FDC **4/2040** BOS ODP GENERAL EDWARD LAWRENCE LOGAN INTL, BOSTON, MA. TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES AMDT 13... TAKEOFF MINIMUMS: RWY 9, 300-1 1/4 OR STANDARD WITH MINIMUM CLIMB OF 272 FT PER NM TO 300. RWY 27, STANDARD WITH MINIMUM CLIMB OF 477 FT PER NM TO 1300. NOTE: RWY 9, SHIPS 762 FT FROM DER, ON CENTERLINE, UP TO 65 FT AGL/65 FT MSL. ANTENNA 5884 FT FROM DER, 1456 FT LEFT OF CENTERLINE, 120 FT AGL/217 FT MSL. TANK 5904 FT FROM DER, 1463 FT LEFT OF CENTERLINE, 109 FT AGL/208 FT MSL. NOTE: RWY 27, LIGHT AND POLE AND ROD BEGINNING 1690 FT FROM DER, 759 FT RIGHT OF CENTERLINE, UP TO 60 FT AGL/100 FT MSL. ANTENNA 1.7 NM FROM DER, 2424 FT RIGHT OF CENTERLINE, 620 FT AGL/643 FT. ALL OTHER DATA REMAINS AS PUBLISHED. THIS IS TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES, AMDT 13A. 1412231941-PERM

FDC **4/2208** PEO IAP PENN YAN, PENN YAN, NY. NDB RWY 28, AMDT 6C... DELETE NOTE: CIRCLING TO RWY 1 NA AT NIGHT. THIS IS NDB RWY 28, AMDT 6D. 1412241806-PERM

FDC **4/2209** PEO IAP PENN YAN, PENN YAN, NY. RNAV (GPS) RWY 19, ORIG-B... DELETE NOTE: CIRCLING TO RWY 1 NA AT NIGHT. THIS IS RNAV (GPS) RWY 19 ORIG-C. 1412241806-PERM

FDC **4/2532** CYW IAP CLAY CENTER MUNI, CLAY CENTER, KS. RNAV (GPS) RWY 17, ORIG... CHANGE THRE 1208 TO TDZE 1208. THIS IS RNAV (GPS) RWY 17 ORIG-A. 1412291918-PERM

FDC **4/7206** 82C ODP MAUSTON-NEW LISBON UNION, NEW LISBON, WI. TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES ORIG... TAKE-OFF OBSTACLE NOTES: NOTE: RWY 14, VEHICLE ON ROAD BEGINNING 22 FT FROM DER, 153 FT LEFT OF CENTERLINE, UP TO 15 FT AGL/907 FT MSL. TREES BEGINNINGS 20 FT FROM DER, 15 FT RIGHT OF CENTERLINE, UP TO 87 FT AGL/987 FT MSL. TREES BEGINNING 715 FT FROM DER, 39 FT LEFT OF CENTERLINE, UP TO 95 FT AGL/985 FT MSL. NOTE: RWY 32, FENCE BEGINNING 67 FT FROM DER, 300 FT RIGHT OF CENTERLINE, UP TO 6 FT AGL/918 FT MSL. VEHICLE ON ROAD BEGINNING 72 FT FROM DER, 5 FT RIGHT AND LEFT OF CENTERLINE, UP TO 15 FT AGL/954 FT MSL. TREES BEGINNING 110 FT FROM DER, 146 FT LEFT AND RIGHT OF CENTERLINE, UP TO 97 FT AGL/1007 FT MSL. TERRAIN BEGINNING 190 FT FROM DER, 43 FT LEFT AND RIGHT OF CENTERLINE, UP TO 941 FT MSL. BUILDINGS BEGINNING 2202 FT FROM DER, 398 FT LEFT AND RIGHT OF CENTERLINE, UP TO 64 FT AGL/981 FT MSL. REST REMAINS AS PUBLISHED. THIS IS TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES, ORIG-A. 1405272150-PERM

FDC **5/0810** BXA ODP GEORGE R CARR MEMORIAL AIR FLD, BOGALUSA, LA. TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES AMDT 3... TAKEOFF MINIMUMS: RWY 18, 500-3 OR STANDARD WITH MINIMUM CLIMB OF 253 FT PER NM TO 800. ALL OTHER DATA REMAINS AS PUBLISHED. THIS IS TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES, AMDT 3A. 1501062041-PERM

FDC **5/2582** FRG IAP REPUBLIC, FARMINGDALE, NY. ILS OR LOC RWY 14, AMDT 8C... MSA FROM FR LOM 235-325 2900, 325-235 2100. THIS IS ILS OR LOC RWY 14, AMDT 8D. 1501101832-PERM

FDC **5/2805** K74 ODP HAMRY FIELD, KINDRED, ND. TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES ORIG... CHANGE AIRPORT NAME TO : ROBERT ODEGAARD FIELD. THIS IS TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES, ORIG-A. 1501121307-PERM

FDC **5/2973** PVW IAP HALE COUNTY, PLAINVIEW, TX. VOR RWY 4, AMDT 9B... CIRCLING CAT A MDA 3920/HAA 546, S-4 CAT C/D VIS 1 3/8. MSA PLAINVIEW (PVW) VOR/DME 25 NM 5300. CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LUBBOCK ALTIMETER SETTING AND INCREASE ALL MDA 100 FEET, INCREASE S-4 VISIBILITY CAT C TO 1 1/2, CAT D AND CIRCLING CAT C TO 1 3/4. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 MILE NOT AUTHORIZED.. THIS IS VOR RWY 4, AMDT 9C. 1501121742-PERM

FDC **5/2974** PVW IAP HALE COUNTY, PLAINVIEW, TX. RNAV (GPS) RWY 4, ORIG... LNAV MDA 3800/HAT 426 ALL CATS. VISIBILITY CAT C 1 1/4. CHART VDP AT 0.99 MILES TO RW04* *LNAV ONLY. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. CHART NOTE: WHEN LOCAL ALTIMETER SETTING IS NOT RECEIVED, USE LUBBOCK ALTIMETER SETTING: INCREASE ALL DA 83 FEET AND INCREASE ALL LPV AND LNAV/VNAV VISIBILITY 1/4 MILE, INCREASE ALL MDA 100 FEET AND LNAV CAT C/D AND CIRCLING CAT C VISIBILITY 1/4 MILE. DELETE NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA.. THIS IS RNAV (GPS) RWY 4 ORIG-A. 1501121742-PERM

FDC **5/3530** LIT IAP BILL AND HILLARY CLINTON NATIONAL/ADAMS FIELD, LITTLE ROCK, AR. RNAV (GPS) RWY 18, AMDT 1C... CHANGE THRE 259 TO TDZE 259. THIS IS RNAV (GPS) RWY 18, AMDT 1D. 1501132332-PERM

FDC **5/3531** LIT IAP BILL AND HILLARY CLINTON NATIONAL/ADAMS FIELD, LITTLE ROCK, AR. ILS OR LOC RWY 22R, AMDT 2C... ILS RWY 22R (CAT II & III) AMDT 2C... CHANGE THRE 262 TO TDZE 262 THIS IS ILS RWY 22R (CAT II & III) AMDT 2D. THIS IS ILS OR LOC RWY 22R, AMDT 2D. 1501132332-PERM

FDC **5/3532** LIT IAP BILL AND HILLARY CLINTON NATIONAL/ADAMS FIELD, LITTLE ROCK, AR. RNAV (GPS) RWY 22R, AMDT 1A... CHANGE THRE 262 TO TDZE 262. THIS IS RNAV (GPS) RWY 22R, AMDT 1B. 1501132332-PERM

FDC **5/3533** LIT IAP BILL AND HILLARY CLINTON NATIONAL/ADAMS FIELD, LITTLE ROCK, AR. ILS OR LOC RWY 22L, ORIG-B... CHANGE THRE 259 TO TDZE 259. THIS IS ILS OR LOC RWY 22L, ORIG-C. 1501132332-PERM

FDC **5/3534** LIT IAP BILL AND HILLARY CLINTON NATIONAL/ADAMS FIELD, LITTLE ROCK, AR. RNAV (GPS) RWY 22L, AMDT 1B... CHANGE THRE 259 TO TDZE 259. THIS IS RNAV (GPS) RWY 22L, AMDT 1C. 1501132332-PERM

FDC **5/3682** GRR IAP GERALD R. FORD INTL, GRAND RAPIDS, MI. VOR RWY 17, ORIG-D... CHART VDP AT 7.44 DME. ALTERNATE MINIMUMS: STANDARD, EXCEPT NA WHEN LOCAL WEATHER NOT AVAILABLE.. THIS IS VOR RWY 17 ORIG-E. 1501141516-PERM

FDC **5/3701** M77 IAP HOWARD COUNTY, NASHVILLE, AR. RNAV (GPS) RWY 1, ORIG... LP HAT 390 ALL CATS. LNAV HAT 390 ALL CATS. CHART TDZE 550. DELETE THRE 530. THIS IS RNAV (GPS) RWY 1 ORIG-A. 1501141612-PERM

FDC **5/3708** PGR IAP KIRK FIELD, PARAGOULD, AR. VOR RWY 4, AMDT 5... CHANGE THRE 290 TO TDZE 290. DELETE NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. THIS IS VOR RWY 4, AMDT 5A. 1501141630-PERM

FDC **5/3910** CPS IAP ST LOUIS DOWNTOWN, CAHOKIA/ST LOUIS, IL. RNAV (GPS) RWY 30L, ORIG... LNAV DA 611. LNAV/VNAV DA 827. LNAV HAT 529 ALL CATS. CHART TDZE 411 DELETE THRE 409. THIS IS RNAV (GPS) RWY 30L, ORIG-A. 1501142305-PERM

FDC **5/3911** CPS IAP ST LOUIS DOWNTOWN, CAHOKIA/ST LOUIS, IL. RNAV (GPS) RWY 30R, ORIG... LNAV HAT 512 ALL CATS. CHART TDZE 408 DELETE THRE 407. THIS IS RNAV (GPS) RWY 30R, ORIG-A. 1501142305-PERM

FDC **5/3926** H96 IAP BENTON MUNI, BENTON, IL. RNAV (GPS) RWY 18, ORIG... LNAV HAT 416 ALL CATS. CHART TDZE 444. DELETE THRE 440. THIS IS RNAV (GPS) RWY 18 ORIG-A. 1501150043-PERM

FDC **5/4099** HPT IAP HAMPTON MUNI, HAMPTON, IA. VOR/DME RWY 35, AMDT 1C... S-35 CAT A/B HAT 812. CHART TDZE 1168. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. THIS IS VOR/DME RWY 35, AMDT 1D. 1501151617-PERM

FDC **5/4127** GGP IAP LOGANSPOUT/CASS COUNTY, LOGANSPOUT, IN. RNAV (GPS) RWY 27, AMDT 1... CHANGE THRE 738 TO TDZE 738. THIS IS RNAV (GPS) RWY 27, AMDT 1A. 1501151654-PERM

FDC **5/4420** ACK IAP NANTUCKET MEMORIAL, NANTUCKET, MA. RNAV (GPS) RWY 15, ORIG... DELETE NOTE: PROCEDURE NA AT NIGHT. CHANGE HELICOPTER VISIBILITY REDUCTION NOTE TO READ: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. CHANGE THRE 45 TO TDZE 45. THIS IS RNAV (GPS) RWY 15 ORIG-A. 1501161343-PERM

FDC **5/4421** ACK IAP NANTUCKET MEMORIAL, NANTUCKET, MA. RNAV (GPS) RWY 33, AMDT 1... DELETE NOTE: PROCEDURE NA AT NIGHT. DELETE NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NA. DELETE THRE 40. CHART TDZE 41. LPV DA 291. LNAV/VNAV DA 301. LNAV HAT 339 ALL CATS. THIS IS RNAV (GPS) RWY 33, AMDT 1A. 1501161343-PERM

FDC **5/4741** ALN IAP ST LOUIS RGNL, ALTON/ST LOUIS, IL. RNAV (GPS) RWY 29, AMDT 1... LPV: DA 731. LNAV/VNAV: DA 825. LNAV: HAT 369 ALL CATS. CHART TDZE 531 DELETE THRE 526. THIS IS RNAV (GPS) RWY 29, AMDT 1A. 1501172307-PERM

FDC **5/4742** ALN IAP ST LOUIS RGNL, ALTON/ST LOUIS, IL. RNAV (GPS) RWY 35, AMDT 1... LNAV: HAT 476 ALL CATS. CHART TDZE 544 DELETE THRE 543. THIS IS RNAV (GPS) RWY 35, AMDT 1A. 1501172307-PERM

FDC **5/4743** ALN IAP ST LOUIS RGNL, ALTON/ST LOUIS, IL. LOC BC RWY 11, AMDT 9... S-LOC 11: HAT 521 ALL CATS. CHART TDZE 539 DELETE THRE 538. THIS IS LOC BC RWY 11, AMDT 9A. 1501172307-PERM

FDC **5/4744** ALN IAP ST LOUIS RGNL, ALTON/ST LOUIS, IL. ILS OR LOC RWY 29, AMDT 12... S-ILS 29: DA 731. S-LOC 29: HAT 449 ALL CATS. WULIB FIX MINIMUMS: S-LOC 29: HAT 349 ALL CATS. CHART TDZE 531 DELETE THRE 526. THIS IS ILS OR LOC RWY 29, AMDT 12A. 1501172307-PERM

FDC **5/4745** ALN IAP ST LOUIS RGNL, ALTON/ST LOUIS, IL. RNAV (GPS) RWY 17, AMDT 1... LNAV: HAT 377 ALL CATS. CHART TDZE 543. DELETE THRE 534. THIS IS RNAV (GPS) RWY 17, AMDT 1A. 1501172307-PERM

FDC **5/4746** ALN IAP ST LOUIS RGNL, ALTON/ST LOUIS, IL. NDB RWY 17, AMDT 12... S-17: HAT 837 ALL CATS. DORSY FIX MINIMUMS: S-17: HAT 577 ALL CATS. CHART TDZE 543. DELETE THRE 534. THIS IS NDB RWY 17, AMDT 12A. 1501172307-PERM

FDC **5/4747** ALN IAP ST LOUIS RGNL, ALTON/ST LOUIS, IL. RNAV (GPS) RWY 11, AMDT 2... LPV: DA 794. LNAV/VNAV: DA 881. LNAV: HAT 441 ALL CATS. CHART TDZE 539. DELETE THRE 538. THIS IS RNAV (GPS) RWY 11, AMDT 2A. 1501172307-PERM

FDC **5/4748** EZI IAP KEWANEE MUNI, KEWANEE, IL. RNAV (GPS) RWY 19, AMDT 1... LPV: DA 1182. LNAV/VNAV: DA 1416. LNAV: HAT 543 ALL CATS. CHART TDZE 857 DELETE THRE 838. THIS IS RNAV (GPS) RWY 19, AMDT 1A. 1501172309-PERM

FDC **5/4749** EZI IAP KEWANEE MUNI, KEWANEE, IL. RNAV (GPS) RWY 27, AMDT 1... LPV: DA 1183. LNAV/VNAV: DA 1212. LNAV: HAT 482 ALL CATS. CHART TDZE 858 DELETE THRE 856. THIS IS RNAV (GPS) RWY 27, AMDT 1A. 1501172309-PERM

FDC **5/4750** EZI IAP KEWANEE MUNI, KEWANEE, IL. RNAV (GPS) RWY 9, AMDT 1... LPV: DA 1181. LNAV/VNAV: DA 1181. LNAV: HAT 444 ALL CATS. CHART TDZE 856. DELETE THRE 854. THIS IS RNAV (GPS) RWY 9, AMDT 1A. 1501172309-PERM

FDC **5/4751** EZI IAP KEWANEE MUNI, KEWANEE, IL. RNAV (GPS) RWY 1, AMDT 1... LPV: DA 1182. LNAV/VNAV: DA 1212. LNAV: HAT 443 ALL CATS. CHART TDZE 857 DELETE THRE 855. THIS IS RNAV (GPS) RWY 1, AMDT 1A. 1501172309-PERM

FDC **5/4755** GQQ IAP GALION MUNI, GALION, OH. VOR RWY 23, AMDT 13... S-23 CAT A/B/C HAT 776. CUBYS FIX MINIMUMS: S-23 CAT A/B/C HAT 536. CHART TDZE 1224. DELETE THRE 1218. THIS IS VOR RWY 23, AMDT 13A. 1501172356-PERM

FDC **5/4756** GQQ IAP GALION MUNI, GALION, OH. RNAV (GPS) RWY 23, ORIG... LP CAT A/B/C HAT 396. LNAV CAT A/B/C HAT 536. CHART TDZE 1224. DELETE THRE 1218.. THIS IS RNAV (GPS) RWY 23 ORIG-A. 1501172356-PERM

FDC **5/4757** GQQ IAP GALION MUNI, GALION, OH. RNAV (GPS) RWY 5, ORIG... LP CAT A/B/C HAT 356. LNAV CAT A/B/C HAT 376. CHART TDZE 1224. DELETE THRE 1223.. THIS IS RNAV (GPS) RWY 5 ORIG-A. 1501172356-PERM

FDC **5/4759** HOC IAP HIGHLAND COUNTY, HILLSBORO, OH. RNAV (GPS) RWY 23, ORIG... LP CAT A/B/C/D HAT 351. LNAV CAT A/B/C/D HAT 511. CHART TDZE 969. DELETE THRE 931. THIS IS RNAV (GPS) RWY 23 ORIG-A. 1501180014-PERM

FDC **5/4760** HOC IAP HIGHLAND COUNTY, HILLSBORO, OH. NDB RWY 23, AMDT 5... S-23 CAT A/B/C HAT 711. CHART TDZE 969. DELETE THRE 931. THIS IS NDB RWY 23, AMDT 5A. 1501180014-PERM

FDC **5/4761** I19 IAP GREENE COUNTY-LEWIS A. JACKSON RGNL, DAYTON, OH. VOR RWY 7, ORIG... S-7 CAT A/B/C HAT 604. CHART TDZE 936. DELETE THRE 914. THIS IS VOR RWY 7 ORIG-A. 1501180029-PERM

FDC **5/4762** I68 IAP WARREN COUNTY/JOHN LANE FIELD, LEBANON, OH. RNAV (GPS) RWY 1, AMDT 2... LPV DA 1157. LNAV/VNAV DA 1189. LNAV CAT A/B/C/D HAT 367. CHART TDZE 893. DELETE THRE 883. THIS IS RNAV (GPS) RWY 1, AMDT 2A. 1501180040-PERM

FDC **5/5023** RFD IAP CHICAGO/ROCKFORD INTL, CHICAGO/ROCKFORD, IL. RNAV (GPS) RWY 19, AMDT 2... CHANGE THRE 736 TO TDZE 736. THIS IS RNAV (GPS) RWY 19, AMDT 2A. 1501201215-PERM

FDC **5/5070** UCP IAP NEW CASTLE MUNI, NEW CASTLE, PA. RNAV (GPS) RWY 5, AMDT 1A... DELETE NOTE: CIRCLING TO RWY 13/31 NA AT NIGHT. CHANGE VISIBILITY REDUCTION BY HELICOPTERS NA NOTE TO READ: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.. THIS IS RNAV (GPS) RWY 5, AMDT 1B. 1501201335-PERM

FDC **5/5071** UCP IAP NEW CASTLE MUNI, NEW CASTLE, PA. RNAV (GPS) RWY 23, AMDT 1A... DELETE NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA. DELETE NOTE: CIRCLING TO RWY 13/31 NA AT NIGHT. THIS IS RNAV (GPS) RWY 23, AMDT 1B. 1501201335-PERM

FDC **5/5072** UCP IAP NEW CASTLE MUNI, NEW CASTLE, PA. NDB RWY 23, AMDT 3A... DELETE NOTE: WHEN VGSI INOP, CIRCLING RWY 31 NA AT NIGHT. THIS IS NDB RWY 23, AMDT 3B. 1501201335-PERM

FDC **5/5075** BNA IAP NASHVILLE INTL, NASHVILLE, TN. ILS OR LOC RWY 31, AMDT 9... DELETE PLANVIEW AND PROFILE NOTE: *3000 WHEN ASSIGNED BY ATC. THIS IS ILS OR LOC RWY 31, AMDT 9A. 1501201348-PERM

FDC **5/5126** PEO IAP PENN YAN, PENN YAN, NY. RNAV (GPS) RWY 1, AMDT 3A... DELETE NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NA. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. DELETE NOTE: RWY 1 STRAIGHT-IN AND CIRCLING MINIMUMS NA AT NIGHT. THIS IS RNAV (GPS) RWY 1, AMDT 3B. 1501201622-PERM