U.S. Department
of Transportation

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

**Federal Aviation
Administration**

Transmittal Letter 18-26 **November 2, 2018**

**PREPARED BY THE AERONAUTICAL INFORMATION GROUP, AJV-53
(AVAILABLE ON THE WEB AT 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 originally published in TL 18-25 on October 19, 2018.

Bay Minette, AL, Bay Minette Muni, RNAV (GPS) RWY 8, Amdt 1B
Miami, FL, Miami Intl, ILS OR LOC RWY 9, Amdt 10B
Grenada, MS, Grenada Muni, RNAV (GPS) RWY 4, Amdt 1C
Grenada, MS, Grenada Muni, RNAV (GPS) RWY 22, Amdt 1C
Grenada, MS, Grenada Muni, RNAV (GPS) RWY 31, Amdt 1B
Billings, MT, Billings Logan Intl, ILS Y OR LOC Y RWY 10L, Amdt 26A
Bozeman, MT, Bozeman Yellowstone Intl, RNAV (GPS) Y RWY 12, Orig-C
Houston, TX, Houston-Southwest, RNAV (GPS) RWY 9, Amdt 2A

The following procedures, previously published in TL 18-25, on October 19, 2018, have been rescinded in their entirety.

New Smyrna Beach, FL, New Smyrna Beach Muni, Takeoff Minimums and Obstacle DP, Amdt 3
College Station, TX, Easterwood Field, VOR OR TACAN RWY 11, Amdt 19E

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.33

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

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
BAY MINETTE MUNI	K1R8	RNAV (GPS) RWY 8	1B	BAY MINETTE	AL

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
248	231	RNAV (GPS) RWY 8	1A	05/28/2015	0E	2000

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
RNAV		3 JANUARY 2019	ROUTINE	

TERMINAL ROUTES THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISED IN TL 18-25.

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
GIKEY	IAF	UMMAP	NOPT	TF	FB	1.00	100.60	12.87	2000
UMMAP	IF/IAF	OTZOT		TF	FB	1.00	085.65	6.50	2000
OTZOT	FAF	RW08	MAP	TF	FO	0.30	085.72	5.51	
RW08	MAP	800 MSL		CA			085.72		800
800 MSL		UMMAP		DF	FO	1.00			2000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW08

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 800 THEN CLIMBING LEFT TURN TO 2000 DIRECT UMMAP AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. HOLD W UMMAP, RT, 085.65 INBOUND, 2000 FT. IN LIEU OF PT (IAF), MAX 4000.

3. FAC: 085.72 **FAF:** OTZOT **DIST FAF TO MAP:** 5.51 **DIST FAF TO THLD:** 5.51

4. MIN ALT: UMMAP 2000, OTZOT 2000

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **405 HAT:** 1.14 **GS ANT:**

6. MIN GP INCPT: 2000 **GP ALT AT FAF :** OTZOT 2000 **OM:** **MM:** **IM:**

7. GP ANGLE: 3.00 **34:1:** IS CLEAR **20:1:** IS CLEAR **TCH:** 40.0

8. MSA FROM: RW08 3100

QUALITY 41 CHECKED

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: BARO-VNAV NA.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT GIKEY ON V11 NORTHWEST BOUND.
CHART NOTE: USE MOBILE REGIONAL ALTIMETER SETTING, WHEN NOT RECEIVED, USE MOBILE DOWNTOWN ALTIMETER SETTING AND INCREASE ALL DA/MDA 20 FEET; INCREASE LNAV/VNAV ALL CATS VISIBILITY 1/8 MILE.
CHART NOTE: CIRCLING RWY 26 NA AT NIGHT.

ADDITIONAL FLIGHT DATA:

CHART MOBILE REGIONAL ASOS.
CHART CIRCLING ICON.
CHART FAS OBST: 348 TREE 305204N/0875005W
CHART A-292
WAAS CHANNEL #56620
REFERENCE PATH ID: W08A
LTP HAE: 34.6 M

MINIMUMS:
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA [X]

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LPV DA	636	1 3/8	405	636	1 3/8	405	636	1 3/8	405		NA				
LNAV/VNAV DA	718	1 5/8	487	718	1 5/8	487	718	1 5/8	487		NA				
LNAV MDA	660	1	429	660	1	429	660	1 3/8	429		NA				
CIRCLING	740	1	492	840	1	592	1020	2 1/4	772		NA				

QUALITY 35 CHECKED

CHANGES - REASONS

1. TERMINAL ROUTES: CHANGED CA LEG FROM 700 TO 800 - TO CORRECT TURNING POINT FOR MISSED.
2. CHANGED MISSED APPROACH FROM CLIMB TO 700 THEN CLIMBING LEFT TURN TO 2000 DIRECT UMMAP AND HOLD TO CLIMB TO 800 THEN CLIMBING LEFT TURN TO 2000 DIRECT UMMAP AND HOLD - TO CORRECT CA LEG ALTITUDE.
3. DELETED CHART NOTE: DME/DME RNP-0.3 NA AND ADDED PBN EQUIPMENT REQUIREMENTS NOTE: RNP APCH - PER 8260.19H DOCUMENTATION CRITERIA.
4. NOTES: DELETED HELICOPTER VISIBILITY NOTE FROM VISIBILITY REDUCTION BY HELICOPTERS NA - 34:1 PENS NO LONGER EXIST.
5. MINIMUMS: UPDATED DAS AND MDAS AND LNAV HAT - INCORPORATED AMENDMENT 1A (P-NOTAM).
6. NOTES: CHANGED CHART NOTE FROM NIGHT LANDING: RWY 26 NA TO CIRCLING RWY 26 NA AT NIGHT - CRITERIA: 8260.19H, PARA 8-6-11 O(2G).
7. ADDITIONAL FLIGHT DATA: DELETED CHART WAAS SYMBOL - INCORPORATED AMENDMENT 1A (P-NOTAM).
8. CIRCLING MINIMUMS: INCREASED CIRCLING MDA CAT B FROM 740 TO 840 - NEW OBSTACLE EVALUATION AND VISCHECK CALCULATIONS.
9. CIRCLING MINIMUMS: INCREASED CIRCLING MDA CAT C FROM 740 TO 1020; VISIBILITY FROM 1 1/2 TO 2 1/4 - NEW OBSTACLE EVALUATIONAND VISCHECK CALCULATIONS.
10. ADDITIONAL FLIGHT DATA: ADDED CHART CIRCLING ICON - UPDATED CIRCLING AREA RADII.
11. FAS DATA BLOCK: CHANGED FPAFP FROM 305217.7400N/0874757.7700W TO 30521.7385N/0874757.7710W, CRC REMAINDER FROM E3F284BB TO 20A6CB0B.

08/30/18: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 06/21/18:
1. ADDITIONAL FLIGHT DATA: DELETED CHART MOBILE REGIONAL ASOS 135.575 - NO LONGER REQUIRED.

10/11/18: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 09/24/18:
1. ADDITIONAL FLIGHT DATA: ADDED FAS OBST INFORMATION.
2. MINIMUMS: CHANGED CIRCLING CAT B VISIBILITY BACK TO 1; CHANGED CIRCLING CAT C VISIBILITY FROM 3 TO 2 1/4 - CORRECTED VISCHECK CALCULATIONS.

10/17/18: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 09/24/18:
1. ADDITIONAL FLIGHT DATA: ADDED CHART MOBILE REGIONAL ASOS - TO CORRECT ADMINISTRATIVE ERROR.

CANCELS T-NOTAM 8/3363.

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZJX, MOB APP CON, AIRPORT MGR

FLIGHT CHECKED BY	*Digitally signed by*	**OFFICE**	**DATE**	
JEFFREY ECKMAN	***DAVID DANNER***	FICO	9/19/18	
	Oct 18, 2018			
DEVELOPED BY	*Digitally signed by*	**OFFICE**	**DATE**	
JAMES ROGERS	***JAMES ROGERS***	AJV-5421	06/21/2018	
	Oct 17, 2018			
APPROVED BY	*Digitally signed by*	**OFFICE**	**DATE**	**TITLE**
JULIE MORGAN	***DAVID DANNER***	AJV-5420		MANAGER
	Oct 18, 2018			

QUALITY 35 CHECKED

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	1R8
RUNWAY	RW08
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W08A
LTP/FTP LATITUDE	305211.1625N
LTP/FTP LONGITUDE	0874941.0185W
LTP/FTP ELLIPSOIDAL HEIGHT	+00346
FPAP LATITUDE	305217.7385N
FPAP LONGITUDE	0874757.7710W
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	20A6CB0B

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+00629
FPAP ORTHOMETRIC HEIGHT	+00629

QUALITY 41 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.29

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

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
MIAMI INTL	KMIA	ILS OR LOC RWY 9	10B	MIAMI	FL

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
9	7	ILS OR LOC RWY 9	10A	03/30/2017	5W	2000

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
I-BUL		3 JANUARY 2019	ROUTINE	

TERMINAL ROUTES THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 18-25.

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
GRITT/I-BUL 11.11 DME/RADAR	IF	INESS/I-BUL 6.12 DME/RADAR					092.38	4.99 (I-BUL)	1500

MISSED APPROACH

MAP:

ILS: DA
LOC: 3.99 NM AFTER INESS/I-BUL 6.12 DME/RADAR OR AT I-BUL 2.13 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 800 THEN CLIMBING RIGHT TURN TO 3000 DIRECT VKZ VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000.

ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):

CLIMB TO 800 THEN CLIMBING RIGHT TURN TO 3000 ON DHP VORTAC R-109 TO ZOMGU/DHP 10.90 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000. (DME REQUIRED)

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. PROFILE STARTS AT GRITT

3. FAC: 092.38 **FAF:** INESS/I-BUL 6.12 DME/RADAR **DIST FAF TO MAP:** 3.99 **DIST FAF TO THLD:** 3.99

4. MIN ALT: GRITT/I-BUL 11.11 DME/RADAR 3000, INESS/I-BUL 6.12 DME/RADAR 1500

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **GS ANT:** 1071

6. MIN GS INCPT: 1500 **GS ALT AT FAF :** **OM:** **MM:** **IM:**

7. GP ANGLE: 3.00 **34:1:** **20:1:** **TCH:** 56.0

8. MSA FROM: DHP VORTAC 090-270 2900, 270-090 2100

EQUIPMENT REQUIREMENTS NOTES:

RADAR REQUIRED FOR PROCEDURE ENTRY.
DME REQUIRED FOR LOC ONLY.

QUALITY 41 CHECKED

NOTES:

CHART NOTE: AUTOPILOT COUPLED APPROACH NA.
CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART PLANVIEW NOTE: CAUTION: LIGHTS ON HIGHWAY 1/4 MILE SOUTH OF FINAL APPROACH COURSE MAY BE MISTAKEN FOR RUNWAY.
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-ILS 9 CAT E VISIBILITY TO RVR 4000 AND S-LOC 9 CAT C/D VISIBILITY TO 1 3/8 SM.
CHART NOTE: **RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA.

ADDITIONAL FLIGHT DATA:

CHART IN PLANVIEW: ZOMGU/DHP 10.90 DME
CHART VDP AT 3.38 DME*
DISTANCE VDP TO THLD 1.25 NM
* LOC ONLY
FAS OBST: 214 AAO 254700N/0802233W.
CHART 271 TOWER 254623N/0802513W.
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD E ZOMGU/DHP 10.90 DME, LT, 289.22 INBOUND.
HOLD SE, LT, 300.00 INBOUND

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: **NA** ☐ ILS: STANDARD; LOC: STANDARD

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
S-ILS 09**	207	2400	200	207	2400	200	207	2400	200	207	2400	200	207	2400	200
S-LOC 09	480	2400	473	480	2400	473	480	5000	473	480	5000	473		NA	

CHANGES - REASONS

1. REMOVED ALL REFERNCES TO INESS OM AND REPLACED WITH INESS. - INESS OM BEING DECOMMISSIONED.
2. ADDED EQUIPMENT REQUIREMENTS NOTE - REQUIRMENT AS PER 8260-19H PARA 8-6-8.

10/16/18: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 10/11/2018.
1. DELETED S-LOC 09 CAT E MINIMUMS - CAT E MINIMUMS DO NOT APPLY.
2. CHANGED INOPERATIVE TABLE NOTE FROM "FOR INOPERATIVE ALS, INCREASE S-ILS 9 CAT E VISIBILITY TO RVR 4000 AND S-LOC 9 CAT C/D/E VISIBILITY TO 1 3/8 SM" TO "FOR INOPERATIVE ALS, INCREASE S-ILS 9 CAT E VISIBILITY TO RVR 4000 AND S-LOC 9 CAT C/D VISIBILITY TO 1 3/8 SM" - S-LOC 09 CAT E MINIMUMS REMOVED.

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZMA, MIA ATCT, MIA AMGR

FLIGHT CHECKED BY

FLIGHT INSPECTION REVIEW NOT REQUIRED - PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, DEC 22, 2017.

OFFICE

DATE *Digitally signed by* ***ROBERT G HAMILTON*** Oct 16, 2018

DEVELOPED BY

LONNIE EVERHART (JOSHUA DUGAN)

OFFICE AJV-5400

DATE 08/29/2018 *Digitally signed by* ***ROBERT G HAMILTON*** Oct 16, 2018

APPROVED BY

LONNIE EVERHART

Digitally signed by ***ROBERT G HAMILTON*** Oct 16, 2018

OFFICE AJV-5400

DATE

TITLE MANAGER

QUALITY 35 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.33

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AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
GRENADA MUNI	KGNF	RNAV (GPS) RWY 4	1C	GRENADA	MS

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
208	197	RNAV (GPS) RWY 4	1B	10/12/2017	1E	1995

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
RNAV		3 JANUARY 2019	ROUTINE	

TAA THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 18-25.

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 321/30 CW 141/30	NOPT	YIDGE	IF/IAF	3000
2. 141/30 CW 321/30	PT	YIDGE	IF/IAF	3000

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
YIDGE	IF/IAF	AZMAY		TF	FB	1.00	050.74	6.00	1900
AZMAY	FAF	OWHIN/2.50 NM TO RW04		TF	FB	0.30	050.79	2.74	
OWHIN/2.50 NM TO RW04		RW04	MAP	TF	FO	0.30	050.79	2.50	
RW04	MAP	608 MSL		CA			050.79		
608 MSL		EPGAF		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LNAV: RW04

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT EPGAF AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY 41 CHECKED

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. HOLD SW YIDGE, RT, 050.74 INBOUND, 3000 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 050.79 **FAF:** AZMAY **DIST FAF TO MAP:** 5.24 **DIST FAF TO THLD:** 5.24

4. MIN ALT: YIDGE 3000, AZMAY 1900, OWHIN/2.50 NM TO RW04 1020

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **GS ANT:**

6. MIN GP INCPT: **GP ALT AT FAF :** **OM:** **MM:** **IM:**

7. GP ANGLE: **34:1:** IS NOT CLEAR **20:1:** IS NOT CLEAR **TCH:**

8. MSA FROM:

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: RWY 4 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART NOTE: STRAIGHT-IN MINIMUMS NA AT NIGHT.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE GREENWOOD ALTIMETER SETTING: INCREASE ALL MDAS 80 FEET AND VISIBILITY LNAV CATS C AND D AND CIRCLING ALL CATS 1/4 SM.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES.
CHART FAS OBST: 346 OL WTR TWR 334958N/0894834W.
CHART: 451 TWR 334719N/0895018W.
HOLD NE, RT, 230.94 INBOUND

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: **NA** [X]

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LNAV MDA	680	1	483	680	1	483	680	1 3/8	483	680	1 3/8	483			
CIRCLING	1000	1	792	1000	1	792	1000	2 1/4	792	1060	2 3/4	852			

QUALITY 35 CHECKED

CHANGES - REASONS

1. TERMINAL ARRIVAL AREA MINIMUM ALTITUDES INCREASED FROM 2200 TO 3000 - ATC RADIO COMMUNICATIONS UNSATISFACTORY BELOW 3000.
2. CA LEG ALTITUDE INCREASED FROM 600 TO 608 - 400 FEET ABOVE AIRPORT ELEVATION.
3. MISSED APPROACH ALTITUDE INCREASED FROM 2100 TO 3000 - ATC RADIO COMMUNICATIONS UNSATISFACTORY BELOW 3000.
4. PROFILE SECTION, LINE 2, COURSE REVERSAL MINIMUM ALTITUDE INCREASED FROM 2200 TO 3000 - ATC RADIO COMMUNICATIONS UNSATISFACTORY BELOW 3000.
5. PROFILE SECTION, LINE 2, ADDED MAXIMUM HOLDING ALTITUDE - CURRENT DOCUMENTATION POLICY.
6. PROFILE SECTION, LINE 7, ADDED "20:1 IS NOT CLEAR" - CURRENT DOCUMENTATION POLICY.
7. REPLACED DME/DME NOTE WITH PBN REQUIREMENTS NOTE - CURRENT DOCUMENTATION POLICY.
8. REPLACED NOTE "NIGHT LANDING: RWY 4, 22 NA" WITH "STRAIGHT-IN MINIMUMS NA AT NIGHT" - CIRCLING TO RWY 13/31 ALLOWED AT NIGHT, RWY 22 IS NOT LIT AND THEREFORE DOES NOT REQUIRE A NOTE.
9. ADDED RUNWAY NUMBER TO HELICOPTER VISIBILITY NOTE - CURRENT DOCUMENTATION POLICY.
10. ADDED CIRCLING ICON - EXPANDED CIRCLING AREAS EVALUATED.
11. CIRCLING CAT D MDA - VIS - HAA INCREASED FROM 1000 - 2 1/2 - 792 TO 1060 - 2 3/4 - 852 - NEW CONTROLLING OBSTACLE.
12. CHANGED BACKUP ALTIMETER NOTE FROM "...INCREASE ALL MDA 80 FT, AND INCREASE LNAV VISIBILITY CATS C AND D 1/4 MILE, INCREASE CIRCLING VISIBILITY ALL CATS 1/4 MILE" TO "...INCREASE ALL MDAS 80 FEET AND VISIBILITY LNAV CATS C AND D AND CIRCLING ALL CATS 1/4 SM." - UPDATED WORDING TO CURRENT POLICY.

10/15/18: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 9/27/18.
1. PROFILE SECTION, LINE 4, MIN ALT AT YIDGE CHANGED FROM 2200 TO 3000 - ALTITUDE OF TAA AND HOLDING PATTERN.

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZME, AIRPORT MANAGER

FLIGHT CHECKED BY	*Digitally signed by* ***DAVID DANNER*** Oct 15, 2018	**OFFICE**	**DATE**	
JAMES LUTHER REINEBOLD		FIOG	09/22/2018	
DEVELOPED BY	*Digitally signed by* ***RUSSELL ROSLEWSKI*** Oct 15, 2018	**OFFICE**	**DATE**	
RUSS ROSLEWSKI		AJV-5421	08/16/2018	
APPROVED BY	*Digitally signed by* ***DAVID DANNER*** Oct 15, 2018	**OFFICE**	**DATE**	**TITLE**
JULIE MORGAN		AJV-5420		MANAGER

QUALITY 35 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.33

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

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
GRENADA MUNI	KGNF	RNAV (GPS) RWY 22	1C	GRENADA	MS

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
208	201	RNAV (GPS) RWY 22	1B	10/12/2017	1E	1995

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
RNAV		3 JANUARY 2019	ROUTINE	

TAA THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 18-25.

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 141/30 CW 321/30	NOPT	141/18 CW 321/18		3200
1. 141/18 CW 321/18		EPGAF	IF/IAF	3000
2. 321/30 CW 141/30	PT	EPGAF	IF/IAF	3000

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
EPGAF	IF/IAF	RELOF		TF	FB	1.00	230.94	6.00	1900
RELOF	FAF	RW22	MAP	TF	FO	0.30	230.89	5.21	
RW22	MAP	608 MSL		CA			230.89		
608 MSL		YIDGE		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LNAV: RW22

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT YIDGE AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY 41 CHECKED

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. HOLD NE EPGAF, RT, 230.94 INBOUND, 3000 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 230.89 **FAF:** RELOF **DIST FAF TO MAP:** 5.21 **DIST FAF TO THLD:** 5.21

4. MIN ALT: EPGAF 3000, RELOF 1900

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **GS ANT:**

6. MIN GP INCPT: **GP ALT AT FAF :** **OM:** **MM:** **IM:**

7. GP ANGLE: **34:1:** IS NOT CLEAR **20:1:** IS NOT CLEAR **TCH:**

8. MSA FROM:

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: RWY 22 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART NOTE: STRAIGHT-IN MINIMUMS NA AT NIGHT.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE GREENWOOD ALTIMETER SETTING: INCREASE ALL MDAS 80 FEET AND VISIBILITY LNAV CATS C AND D AND CIRCLING ALL CATS 1/4 SM.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES.
CHART FAS OBST: 484 TREE 335123N/0894526W.
502 AAO 335224N/0894118W.
HOLD SW, RT, 050.74 INBOUND

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: **NA** X

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LNAV MDA	740	1	539	740	1	539	740	1 1/2	539	740	1 1/2	539			
CIRCLING	1000	1	792	1000	1	792	1000	2 1/4	792	1060	2 3/4	852			

QUALITY 35 CHECKED

CHANGES - REASONS

1. TERMINAL ARRIVAL AREA MINIMUM ALTITUDES INCREASED FROM 2100 TO 3000 - ATC RADIO COMMUNICATIONS UNSATISFACTORY BELOW 3000.
2. MISSED APPROACH ALTITUDE INCREASED FROM 2200 TO 3000 - ATC RADIO COMMUNICATIONS UNSATISFACTORY BELOW 3000.
3. PROFILE SECTION, LINE 2, COURSE REVERSAL MINIMUM ALTITUDE INCREASED FROM 2200 TO 3000 - ATC RADIO COMMUNICATIONS UNSATISFACTORY BELOW 3000.
4. PROFILE SECTION, LINE 2, ADDED MAXIMUM HOLDING ALTITUDE - CURRENT DOCUMENTATION POLICY.
5. PROFILE SECTION, LINE 7, ADDED "20:1 IS NOT CLEAR" - CURRENT DOCUMENTATION POLICY.
6. REPLACED DME/DME NOTE WITH PBN REQUIREMENTS NOTE - CURRENT DOCUMENTATION POLICY.
7. REPLACED NOTE "NIGHT LANDING: RWY 4, 22 NA" WITH "STRAIGHT-IN MINIMUMS NA AT NIGHT" - CIRCLING TO RWY 13/31 ALLOWED AT NIGHT, RWY 22 IS NOT LIT AND THEREFORE DOES NOT REQUIRE A NOTE.
8. ADDED RUNWAY NUMBER TO HELICOPTER VISIBILITY NOTE - CURRENT DOCUMENTATION POLICY.
9. CHANGED BACKUP ALTIMETER NOTE FROM "... INCREASE ALL MDA 80 FT, AND ALL VISIBILITIES 1/4 MILE" TO "INCREASE ALL MDAS 80 FEET AND VISIBILITY LNAV CATS C AND D AND CIRCLING ALL CATS 1/4 SM" - RECALCULATION.
10. ADDED CIRCLING ICON - EXPANDED CIRCLING AREAS EVALUATED.
11. CIRCLING CAT D MDA - VIS - HAA INCREASED FROM 1000 - 2 1/2 - 792 TO 1060 - 2 3/4 - 852 - NEW CONTROLLING OBSTACLE.

10/23/2018: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 9/27/2018:
1. PROFILE SECTION, LINE 4, CHANGED MIN ALT AT EPGAF FROM 2100 TO 3000 TO MATCH HOLD-IN-LIEU ALTITUDE.

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZME, AIRPORT MANAGER

FLIGHT CHECKED BY	*Digitally signed by* ***DAVID DANNER*** Oct 25, 2018	**OFFICE**	**DATE**	
JAMES LUTHER REINEBOLD		FIOG	09/22/2018	
DEVELOPED BY	*Digitally signed by* ***RUSSELL ROSLEWSKI*** Oct 24, 2018	**OFFICE**	**DATE**	
RUSS ROSLEWSKI		AJV-5421	08/17/2018	
APPROVED BY	*Digitally signed by* ***DAVID DANNER*** Oct 25, 2018	**OFFICE**	**DATE**	**TITLE**
JULIE MORGAN		AJV-5420		MANAGER

QUALITY 35 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.33

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

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
GRENADA MUNI	KGNF	RNAV (GPS) RWY 31	1B	GRENADA	MS

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
208	202	RNAV (GPS) RWY 31	1A	09/17/2015	1E	1995

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
RNAV		3 JANUARY 2019	ROUTINE	

TAA THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 18-25.

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 221/30 CW 041/30	NOPT	221/14 CW 041/14		3200
1. 221/14 CW 041/14		ODPOF	IF/IAF	3000
2. 041/30 CW 221/30	PT	ODPOF	IF/IAF	3000

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
ODPOF	IF/IAF	PAKMY		TF	FB	1.00	310.94	9.70	2000
PAKMY	FAF	HUPIR/2.50 NM TO RW31		TF	FB	0.30	310.86	2.80	
HUPIR/2.50 NM TO RW31		RW31	MAP	TF	FO	0.30	310.86	2.50	
RW31	MAP	513 MSL		CA			310.86		
513 MSL		WUKNA		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW31

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT WUKNA AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY 41 CHECKED

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. HOLD SE ODPOF, RT, 310.94 INBOUND, 3000 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 310.86 **FAF:** PAKMY **DIST FAF TO MAP:** 5.30 **DIST FAF TO THLD:** 5.30

4. MIN ALT: ODPOF 3000, PAKMY 2000, HUPIR/2.50 NM TO RW31 1080*

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **311 HAT:** 0.78 **GS ANT:**

6. MIN GP INCPT: 2000 **GP ALT AT FAF :** PAKMY 2000 **OM:** **MM:** **IM:**

7. GP ANGLE: 3.10 **34:1:** IS NOT CLEAR **20:1:** IS CLEAR **TCH:** 59.0

8. MSA FROM:

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING GREENWOOD ALTIMETER SETTING.
CHART NOTE: RWY 31 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -9C OR ABOVE 46C.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED USE GREENWOOD ALTIMETER SETTING: INCREASE ALL DAS 65 FEET AND VISIBILITY LNAV/VNAV CAT C AND D 1/8 SM; INCREASE ALL MDAS 80 FEET AND VISIBILITY LNAV CATS C AND D AND CIRCLING ALL CATS 3/8 SM.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
CHART VDP AT 1.46 NM TO RW31*
*LNAV ONLY
WAAS CHANNEL #40029
REFERENCE PATH ID: W31A
CHART FAS OBST: 438 TREE 334757N/0894603W.
HOLD NW, RT, 130.72 INBOUND
LTP HAE: 33.7 M

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: **NA** [X]

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LPV DA	513	1	311	513	1	311	513	1	311	513	1	311			
LNAV/VNAV DA	679	1 1/2	477	679	1 1/2	477	679	1 1/2	477	679	1 1/2	477			
LNAV MDA	720	1	518	720	1	518	720	1 1/4	518	720	1 1/4	518			
CIRCLING	1000	1	792	1000	1	792	1000	2 1/4	792	1060	2 3/4	852			

QUALITY 35 CHECKED

CHANGES - REASONS

1. TAA ALTITUDES CHANGED FROM 2100 TO 3000 - ATC RADIO COMMUNICATIONS UNSATISFACTORY BELOW 3000.
2. MISSED APPROACH CA LEG CHANGED FROM 509 MSL TO 513 MSL - HATH TO HAT CHANGE.
3. PROFILE SECTION, LINE 2, ADDED MAXIMUM HOLDING ALTITUDE - CURRENT DOCUMENTATION POLICY.
4. PROFILE SECTION, LINE 5, CHANGED 311 HATH TO 311 HAT AND DISTANCE FROM 0.76 TO 0.78 - HATH TO HAT CHANGE.
5. PROFILE SECTION, LINE 7, ADDED "20:1 IS CLEAR" - CURRENT DOCUMENTATION POLICY.
6. REMOVED FAHRENHEIT VALUES FROM BARO-VNAV NOTE - CURRENT DOCUMENTATION POLICY.
7. REPLACED DME/DME NOTE WITH PBN REQUIREMENTS NOTE - CURRENT DOCUMENTATION POLICY.
8. ADDED RUNWAY NUMBER TO HELICOPTER NOTE - CURRENT DOCUMENTATION POLICY.
9. ADDED VDP NA NOTE WHEN USING REMOTE ALTIMETER SETTING - VDP ESTABLISHED.
10. CHANGED BACKUP ALTIMETER NOTE FROM "...INCREASE LPV DA TO 574, LNAV/VNAV DA TO 740 FT AND ALL VISIBILITIES 1/4 MILE; INCREASE ALL MDA 80 FT AND LNAV VISIBILITY CATS C AND D 1/4 MILE, CIRCLING VISIBILITY ALL CATS 1/4 MILE" TO "...INCREASE ALL DAS 65 FEET AND VISIBILITY LNAV/VNAV CAT C AND D 1/8 SM; INCREASE ALL MDAS 80 FEET AND VISIBILITY LNAV CATS C AND D AND CIRCLING ALL CATS 3/8 SM" - RECALCULATION.
11. REMOVED NIGHT LANDING NA NOTE - RUNWAY 4/22 IS UNLIT AND THEREFORE DOES NOT REQUIRE A NOTE.
12. ADDED CIRCLING ICON - UPDATED CIRCLING AREAS TO CURRENT SIZES.
13. ADDED VDP - 20:1 IS CLEAR.
14. LNAV CAT C AND D VIS CHANGED FROM 1 1/4 TO 1 3/8 - RECALCULATION.
15. CIRCLING CAT D MDA-VIS-HAA CHANGED FROM 1000 - 2 1/2 - 792 TO 1060 - 2 3/4 - 852 - NEW CONTROLLING OBSTACLE.

10/23/2018: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 9/27/2018:
1. PROFILE SECTION, LINE 4, CHANGED MIN ALT AT ODPOF FROM 2100 TO 3000 TO MATCH HOLD-IN-LIEU ALTITUDE.

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZME, AIRPORT MANAGER

FLIGHT CHECKED BY	*Digitally signed by*	**OFFICE**	**DATE**	
JAMES LUTHER REINEBOLD	***DAVID DANNER***	FIOG	09/22/2018	
	Oct 25, 2018			
DEVELOPED BY	*Digitally signed by*	**OFFICE**	**DATE**	
RUSS ROSLEWSKI	***RUSSELL ROSLEWSKI***	AJV-5421	08/08/2018	
	Oct 24, 2018			
APPROVED BY		**OFFICE**	**DATE**	**TITLE**
JULIE MORGAN	*Digitally signed by*	AJV-5420		MANAGER
	DAVID DANNER			
	Oct 25, 2018			

QUALITY 35 CHECKED

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KGNF
RUNWAY	RW31
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W31A
LTP/FTP LATITUDE	334942.9715N
LTP/FTP LONGITUDE	0894728.8595W
LTP/FTP ELLIPSOIDAL HEIGHT	+00337
FPAP LATITUDE	335042.4830N
FPAP LONGITUDE	0894848.5820W
THRESHOLD CROSSING HEIGHT (TCH)	00059.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.10
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0616
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	CAC4F903

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+00603
FPAP ORTHOMETRIC HEIGHT	+00603

QUALITY 41 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.29

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

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
BILLINGS LOGAN INTL	KBIL	ILS Y OR LOC Y RWY 10L	26A	BILLINGS	MT

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
3662	3585	ILS Y OR LOC Y RWY 10L	26	02/01/2018	10E	2020

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
I-BIL		3 JANUARY 2019	ROUTINE	

TERMINAL ROUTES THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 18-25.

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
BIL VORTAC		HEXOS/I-BIL LOC/DME 5.04 DME	FAF/IAF				304.52	2.91	6200
BEARE	IAF	WIBON	NOPT	TF	FB	1.00	064.40	5.68	6000
LRSUN	IAF	WIBON	NOPT	TF	FB	1.00	111.11	6.62	6000
WIBON/I-BIL LOC/DME 11.04 DME	IF	HEXOS/I-BIL LOC/DME 5.04 DME					101.71	6.00 (I-BIL)	5300

MISSED APPROACH

MAP:

ILS: DA
LOC: 5.23 NM AFTER HEXOS/I-BIL 5.04 DME OR AT I-BIL 0.19 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4500 THEN CLIMBING RIGHT TURN TO 6000 ON BIL VORTAC R-122 TO BIL VORTAC AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT L **SIDE OF COURSE** 281.71 **OUTBOUND** 5800 **FT WITHIN** 10 **MILES OF** HEXOS/I-BIL LOC/DME 5.04 DME (IAF)

2.

3. FAC: 101.71 **FAF:** HEXOS/I-BIL LOC/DME 5.04 DME **DIST FAF TO MAP:** 5.23 **DIST FAF TO THLD:** 5.23

4. MIN ALT: HEXOS/I-BIL LOC/DME 5.04 DME 5300, ZOBUM/I-BIL LOC/DME 2.12 DME 4360*

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **200 HAT:** 0.47 **GS ANT:** 1135

6. MIN GS INCPT: 5300 **GS ALT AT FAF :** HEXOS/I-BIL LOC/DME 5.04 DME 5300 **OM:** **MM:** **IM:**

7. GP ANGLE: 3.00 **34:1:** **20:1:** **TCH:** 50.6

8. MSA FROM: BIL VORTAC 130-220 8300, 220-130 6300

QUALITY 4 CHECKED

EQUIPMENT REQUIREMENTS NOTES:

DME REQUIRED

PBN REQUIREMENTS NOTE: FROM BEARE, LRSUN: RNAV 1-GPS REQUIRED.

NOTES:

CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC 10L CAT C/D VISIBILITY TO RVR 6000.
CHART SPEED ICON IN PLANVIEW AT BEARE: MAX 210 KIAS.
CHART SPEED ICON IN PLANVIEW AT LRSUN: MAX 230 KIAS.
CHART NOTE: **RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA.

ADDITIONAL FLIGHT DATA:

CHART IN PROFILE VIEW: I-BIL DME ANTENNA.
CHART IN PLANVIEW: HEXOS/BIL VORTAC 2.92 DME
CHART MANDATORY 8000 AT BEARE.
CHART MANDATORY 8000 AT LRSUN
CHART CIRCLING ICON.
CHART VDP AT 0.96 DME*
DISTANCE VDP TO THLD 1.14 NM
* LOC ONLY
CHART FAS OBST: 3732 TREE 454908N/1083544W.
HOLD SE, RT, 303.00 INBOUND

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ ILS: STANDARD; LOC: STANDARD - CAT D 1000-3

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
S-ILS 10L**	3785	2400	200	3785	2400	200	3785	2400	200	3785	2400	200			
S-LOC 10L	4000	2400	415	4000	2400	415	4000	4000	415	4000	4000	415			
CIRCLING	4100	1	438	4160	1	498	4180	1 1/2	518	4580	3	918			

CHANGES - REASONS

1. TERMINAL ROUTES: ADDED "NOPT" TO BEARE AND LRSUN TRANSITIONS - NO PT REQUIRED FROM THESE IAF FIXES.
2. REMOVED EQUIPMENT REQUIREMENT NOTE "RNAV 1-GPS OR DME REQUIRED FOR PROCEDURE ENTRY - SUPERFLUOUS INFO, DME AND RNAV NOTES ALREADY ESTABLISHED.
3. REMOVED NOTE "CHART PBN NAVSPEC REQUIREMENT NOTE: RNAV 1 - SUPERFLUOUS INFO COVERED BY PBN REQUIREMENT NOTE.
4. REPLACED EQUIPMENT REQUIREMENTS NOTE WITH PBN REQUIREMENTS NOTE: FROM BEARE, LRSUN: RNAV 1-GPS REQUIRED - IAF WAYPOINTS ARE TIED TO RNAV ARRIVALS.
5. LINE 5, ADDED DIST TO THLD FROM 200 HAT: 0.47, AND FROM GS ANT: 1135 - PRECISION APPROACH.
6. ADDITIONAL FLIGHT DATA: ADDED "CHART IN PLANVIEW: HEXOS/BIL VORTAC 2.92 DME" - PER FLIGHT INSPECTION REQUEST TO ADD DME TO IAF FROM BILLINGS VORTAC.
7. CHART NOTE CHANGED FROM "**RVR 1800 AUTHORIZED WITH THE USE OF FD OR AP OR HUD TO DA." TO "**RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA." - NEW VERBIAGE PER 8260.19H.

10/11/18: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 10/02/18.
1. CHANGED CIRCLING HAA CAT A FROM 448 TO 438; CAT B FROM 508 TO 498; CAT C FROM 528 TO 518; CAT D FROM 928 TO 918 - DUE TO AIRPORT ELEVATION CHANGE FROM 3652 TO 3662.
2. ADDED TO CHANGES AND REASONS: CHART NOTE CHANGED FROM "**RVR 1800 AUTHORIZED WITH THE USE OF FD OR AP OR HUD TO DA." TO "**RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA." - NEW VERBIAGE PER 8260.19H.

QUALITY 4 CHECKED

COORDINATED WITH:

A4A [X] **ALPA** [X] **AOPA** [X] **APA** [X] **HAI** [ ] **NBAA** [X] **OTHER:** ZLC, BIL ATCT, BIL APP CON, AMGR, ATA

FLIGHT CHECKED BY		OFFICE	DATE	
FLIGHT INSPECTION REVIEW NOT REQUIRED - PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, DEC 22, 2017.	Digitally signed by ***DONALD H LANIER*** Oct 15, 2018			
DEVELOPED BY		**OFFICE**	**DATE**	
COLTON CROWDER	Digitally signed by ***COLTON CROWDER*** Oct 11, 2018	AJV-5431	08/30/2018	
APPROVED BY		**OFFICE**	**DATE**	**TITLE**
PATRICK MULQUEEN	Digitally signed by ***DONALD H LANIER*** Oct 15, 2018	AJV-5430		MANAGER

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.33

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

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
BOZEMAN YELLOWSTONE INTL	KBZN	RNAV (GPS) Y RWY 12	ORIG-C	BOZEMAN	MT

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
4473	4443	RNAV (GPS) Y RWY 12	ORIG-B	05/24/2018	13E	2010

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
RNAV		3 JANUARY 2019	ROUTINE	

TERMINAL ROUTES THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 18-25.

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
HIA VOR/DME		HEBIV		TF	FB	1.00	065.36	19.00	9500
HEBIV		THESE		TF	FB	1.00	065.66	7.87	8300
LVM VOR/DME		QIVHY		TF	FB	1.00	278.01	32.00	12300
QIVHY		FEVIM		TF	FO	1.00	277.51	10.93	9000
RANEY		POPWI		TF	FB	1.00	340.34	14.00	10000
POPWI		FEVIM		TF	FO	1.00	340.31	12.50	8000
THESE	IAF	FEVIM	NOPT	TF	FB	1.00	074.31	5.91	8000
GODFE	IAF	FEVIM	NOPT	TF	FB	1.00	162.51	18.51	8000
FEVIM	IF/IAF	HAYCI		TF	FB	1.00	122.59	4.80	7300
HAYCI		OLENY		TF	FB	1.00	122.65	2.05	6800
OLENY	FAF	RW12	MAP	TF	FO	0.30	122.67	7.15	
RW12	MAP	4693 MSL		CA			122.67		
4693 MSL		WOLAT		DF	FB	1.00			
WOLAT		CISED		TF	FB	1.00	228.51	10.00	8300
CISED		THESE		TF	FO	1.00	316.88	21.29	8300

QUALITY 18 CHECKED

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW12

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 8300 DIRECT WOLAT AND RIGHT TURN ON TRACK 228.51 TO CISED AND ON TRACK 316.88 TO THESE AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. HOLD NW FEVIM, RT, 122.59 INBOUND, 8000 FT. IN LIEU OF PT (IAF), MAX 10000.

3. FAC: 122.67 **FAF:** OLENY **DIST FAF TO MAP:** 7.15 **DIST FAF TO THLD:** 7.15

4. MIN ALT: FEVIM 8000, HAYCI 7300, OLENY 6800

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **250 HAT:** 0.68 **GS ANT:**

6. MIN GP INCPT: 6800 **GP ALT AT FAF :** OLENY 6800 **OM:** **MM:** **IM:**

7. GP ANGLE: 3.00 **34:1:** IS CLEAR **20:1:** IS CLEAR **TCH:** 52.5

8. MSA FROM: RW12 12300

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: CIRCLING NA TO RWYS 3-21 AND 11-29.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -23C OR ABOVE 49C.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV VISIBILITY TO 1 7/8 SM AND LNAV VISIBILITY CATS C AND D TO 1 3/8 SM.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
CHART VDP AT 1.51 NM TO RW12*
*LNAV ONLY
WAAS CHANNEL #72816
REFERENCE PATH ID: W12A
FAS OBST: 4539 AAO 454933N/1111336W.
HOLD W, RT, 074.31 INBOUND
LTP HAE: 1337.3 M

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: **NA** ☐ STANDARD - CAT D 900-3

QUALITY 35 CHECKED

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LPV DA	4693	1/2	250	4693	1/2	250	4693	1/2	250	4693	1/2	250			
LNAV/VNAV DA	5094	1 3/4	651	5094	1 3/4	651	5094	1 3/4	651	5094	1 3/4	651			
LNAV MDA	4960	1/2	517	4960	1/2	517	4960	1	517	4960	1 1/4	517			
CIRCLING	4960	1	487	4960	1	487	5160	2	687	5360	3	887			

CHANGES - REASONS

1. CHANGED FEEDER RNP VALUES FROM 2.00 TO 1.00 - 8260.58A CHG 1 NAVSPEC TABLE.
2. ADDED COURSE FOR MISSED APPROACH CA LEG - CURRENT DOCUMENTATION POLICY.
3. PROFILE SECTION, LINE 2, ADDED MAX HOLDING ALTITUDE OF 17500 - CURRENT DOCUMENTATION POLICY.
4. PROFILE SECTION, LINE 7, ADDED "20:1 IS CLEAR" - CURRENT DOCUMENTATION POLICY.
5. REPLACED RNAV-1 NOTE WITH PBN REQUIREMENTS NOTE - CURRENT DOCUMENTATION POLICY.
6. REMOVED FAHRENHEIT VALUES FROM BARO-VNAV NOTE - CURRENT DOCUMENTATION POLICY.
7. ADDED NOTE RESTRICTING CIRCLING TO RWYS 3/21 AND 11/29 - AS ADVISED BY AIRPORT AND FPT.
8. DELETED PLANVIEW NOTES "PROCEDURE NA FOR ARRIVALS..." - DUE TO LAYOUT OF IAFS, AIRCRAFT WOULD HAVE TO ALREADY PASS ONE IAF TO GET TO THE ONE WITH A NOTE.
9. ADDED INOPERATIVE ALS NOTE - RECALCULATION.

PDF EDIT:
1. PROFILE SECTION, LINE 2, CHANGED MAX HOLDING ALTITUDE FROM 17500 TO 10000.

10/24/2018: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 9/13/2018:
1. PROFILE SECTION, LINE 2, CHANGED MAX HOLDING ALTITUDE FROM 17500 TO 10000.

QUALITY 35 CHECKED

COORDINATED WITH:

A4A [X] **ALPA** [X] **AOPA** [X] **APA** [X] **HAI** [ ] **NBAA** [X] **OTHER:** ZLC, BIG SKY APP CON, BZN ATCT, AMGR

FLIGHT CHECKED BY		OFFICE	DATE
FLIGHT INSPECTION REVIEW NOT REQUIRED - PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, DEC 22, 2017.	*Digitally signed by* ***DAVID DANNER*** Oct 25, 2018		
DEVELOPED BY		**OFFICE**	**DATE**
RUSS ROSLEWSKI	*Digitally signed by* ***RUSSELL ROSLEWSKI*** Sep 10, 2018	AJV-5421	08/01/2018
APPROVED BY		**OFFICE**	**DATE**
JULIE MORGAN	*Digitally signed by* ***DAVID DANNER*** Oct 25, 2018	AJV-5420	

TITLE
MANAGER

QUALITY 35 CHECKED

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KBZN
RUNWAY	RW12
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W12A
LTP/FTP LATITUDE	454717.1070N
LTP/FTP LONGITUDE	1110959.3340W
LTP/FTP ELLIPSOIDAL HEIGHT	+13373
FPAP LATITUDE	454613.2800N
FPAP LONGITUDE	1110830.5310W
THRESHOLD CROSSING HEIGHT (TCH)	00052.5
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0008
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	238D1187

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+13487
FPAP ORTHOMETRIC HEIGHT	+13487

QUALITY 18 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.33

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

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
HOUSTON-SOUTHWEST	KAXH	RNAV (GPS) RWY 9	2A	HOUSTON	TX

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
69	69	RNAV (GPS) RWY 9	2	05/10/2007	5E	2000

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
RNAV		3 JANUARY 2019	ROUTINE	

TERMINAL ROUTES THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 18-25.

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
ZABRO	IAF	BEBAY		TF	FB	1.00	359.11	5.00	2000
BEBAY	IF	JIVIX		TF	FB	1.00	089.11	6.30	2000
JIVIX	FAF	RW09	MAP	TF	FO	0.30	089.17	5.82	
RW09	MAP	469 MSL		CA			089.17		
469 MSL		WENPI		DF	FB	1.00			
WENPI		HEBUR		TF	FB	1.00	179.20	8.40	
HEBUR		KEEDS		TF	FO	1.00	266.77	10.55	2700

MISSED APPROACH

MAP:

LNAV: RW09

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2700 DIRECT WENPI AND ON TRACK 179.20 TO HEBUR AND ON TRACK 266.77 TO KEEDS AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY 35 CHECKED

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
HOUSTON-SOUTHWEST	KAXH	RNAV (GPS) RWY 9	2A	HOUSTON	TX

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. PROFILE STARTS AT BEBAY

3. FAC: 089.17 **FAF:** JIVIX **DIST FAF TO MAP:** 5.82 **DIST FAF TO THLD:** 5.82

4. MIN ALT: BEBAY 2000, JIVIX 2000

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **GS ANT:**

6. MIN GP INCPT: **GP ALT AT FAF :** **OM:** **MM:** **IM:**

7. GP ANGLE: **34:1:** IS NOT CLEAR **20:1:** IS CLEAR **TCH:**

8. MSA FROM: RW09 3100

PBN REQUIREMENTS NOTE:

RNP APCH

NOTES:

CHART NOTE: CIRCLING RWY 27 NA AT NIGHT.
CHART NOTE: RWY 09 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

ADDITIONAL FLIGHT DATA:

CHART VDP AT 1.24 NM TO RW09
FAS OBST: 269 AAO 293032N/0953434W.
HOLD S, RT, 360.00 INBOUND

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: **NA** ☐ STANDARD

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LNAV MDA	580	1	511	580	1	511	580	1 1/2	511		NA				
CIRCLING	620	1	551	620	1	551	620	1 1/2	551		NA				

QUALITY 35 CHECKED

CHANGES - REASONS

- REMOVED LPV AND LNAV/VNAV LINES OF MINIMA AND ALL ASSOCIATED NOTES AND DATA. - GQS 126 FOOT TREE, OFF AIRPORT NOT GOING TO BE RESOLVED PER FPT.
- "VIA" CHANGED TO "ON" IN MISSED APPROACH INSTRUCTIONS.
- FAS OBS CHANGED FROM 205 TOWER 293037N/0953032W TO 269 AAO 293032N/0953434W. - APPLIED 200 FOOT AAO.
- ADDED "20:1 IS CLEAR". - NO 20:1'S IDENTIFIED.
- ADDED CHART NOTE: CIRCLING RWY 27 NA AT NIGHT. - MED RISK 20:1 IDENTIFIED IN CIRC VISUAL AREA. UPDATED NOTE.
- ALTERNATE MINIMUMS CHANGED FROM NA TO STANDARD. - BOTH ALTIMETER SOURCES ARE ON WMSCR.
- SECONDARY ALTIMETER SOURCE NOTED ADDED TO BACK OF 8260-9 FOR CONTINGENCY PURPOSES.
- LNAV HAT/CIRCLING HAA CHANGED FROM 512 TO 511 AND 552 TO 551. - NEW AIRNAV DATA. ELEVATION AND TDZE CHANGED FROM 68 TO 69 FT.
- CHANGED CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA TO CHART NOTE: RWY 09 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. - ONLY DOCUMENTED 34:1'S IDENTIFIED.
- REMOVED CHART NOTE: DME/DME RNP-0.3 NA, ADDED PBN REQUIREMENT NOTES: RNP APCH.
- CHANGED CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT TO VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). - REMOVAL OF PA'S.
- DELETED "CHART PLANVIEW NOTE: RADAR REQUIRED" - RADAR NO LONGER REQUIRED ON GPS PROCEDURES.
- REMOVED "DO NOT CHART" FROM MISSED HOLDING INSTRUCTIONS.
- ADDED CA LEG TO TERMINAL ROUTES FOR CODING.

10/29/18: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 10/10/18.
1. ADDED "AND HOLD " TO MISSED APPROACH INSTRUCTIONS.

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZHU, AIRPORT MANAGER, ST.AV.DIR

FLIGHT CHECKED BY	*Digitally signed by* ***DAVID DANNER*** Oct 30, 2018		**OFFICE**	**DATE**	
GREGORY ALAN MILLS			FIOG	10/02/2018	
DEVELOPED BY	*Digitally signed by* ***LEO PALMER*** Oct 29, 2018		**OFFICE**	**DATE**	
LEO PALMER			AJV-5421	08/22/2018	
APPROVED BY		*Digitally signed by* ***DAVID DANNER*** Oct 30, 2018	**OFFICE**	**DATE**	**TITLE**
JULIE MORGAN			AJV-5420		MANAGER

QUALITY 35 CHECKED

[4910-13]

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 97

[Docket No. 31222; Amdt. No. 3825]

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: Thomas J. Nichols, Flight Procedures and Airspace Group, Flight Technologies and Procedures Division, Flight Standards Service, Federal Aviation Administration. Mailing Address: FAA Mike Monroney Aeronautical Center, Flight Procedures and Airspace Group, 6500 South MacArthur Blvd, Registry Bldg 29 Room 104, 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, Navigation (Air).

Issued in Washington, DC on NOVEMBER 2, 2018.

Rick Domingo
Executive 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(f), 106(g), 40103, 40106, 40113, 40114, 40120, 44502, 44514, 44701, 44719, 44721-44722.

2. Part 97 is amended to read as follows:

Effective 6 December 2018

Estherville, IA, Estherville Muni, RANV (GPS) RWY 16, Amdt 1B
Rexburg, ID, Rexburg-Madison County, Takeoff Minimums and Obstacle DP, Amdt 5
Philipsburg, PA, Mid-State, RNAV (GPS) RWY 16, Orig-C
Breckenridge, TX, Stephens County, RNAV (GPS) RWY 17, Orig-B
Breckenridge, TX, Stephens County, RNAV (GPS) RWY 35, Orig-B

Effective 3 January 2019

Brevig Mission, AK, Brevig Mission, BREVIG TWO, Graphic DP
Brevig Mission, AK, Brevig Mission, RNAV (GPS) RWY 12, Amdt 1
Brevig Mission, AK, Brevig Mission, RNAV (GPS) RWY 30, Amdt 1
Brevig Mission, AK, Brevig Mission, Takeoff Minimums and Obstacle DP, Orig-A
Hot Springs, AR, Memorial Field, VOR RWY 5, Amdt 4D
Crescent City, CA, Jack Mc Namara Field, Takeoff Minimums and Obstacle DP, Amdt 2A
Reedley, CA, Reedley Muni, RNAV (GPS) RWY 16, Orig
Reedley, CA, Reedley Muni, RNAV (GPS) RWY 34, Orig
Reedley, CA, Reedley Muni, Takeoff Minimums and Obstacle DP, Orig
Canon City, CO, Fremont County, RNAV (GPS) RWY 29, Amdt 1
Canon City, CO, Fremont County, RNAV (RNP) RWY 11, Orig-B, CANCELED
Canon City, CO, Fremont County, RNAV (RNP) Z RWY 29, Orig-B, CANCELED
Bridgeport, CT, Igor I Sikorsky Memorial, RNAV (GPS) RWY 29, Amdt 2
Oxford, CT, Waterbury-Oxford, ILS OR LOC RWY 36, Amdt 15
Oxford, CT, Waterbury-Oxford, RNAV (GPS) RWY 18, Amdt 3
Oxford, CT, Waterbury-Oxford, RNAV (GPS) RWY 36, Amdt 3
Idaho Falls, ID, Idaho Falls Rgnl, ILS OR LOC RWY 21, Amdt 12
Idaho Falls, ID, Idaho Falls Rgnl, LOC BC RWY 3, Amdt 7
Idaho Falls, ID, Idaho Falls Rgnl, RNAV (GPS) Y RWY 3, Amdt 2
Idaho Falls, ID, Idaho Falls Rgnl, RNAV (GPS) Y RWY 21, Amdt 2
Idaho Falls, ID, Idaho Falls Rgnl, RNAV (RNP) Z RWY 3, Amdt 1
Idaho Falls, ID, Idaho Falls Rgnl, RNAV (RNP) Z RWY 21, Amdt 1
Idaho Falls, ID, Idaho Falls Rgnl, Takeoff Minimums and Obstacle DP, Amdt 5
Idaho Falls, ID, Idaho Falls Rgnl, VOR RWY 3, Amdt 6D
Idaho Falls, ID, Idaho Falls Rgnl, VOR RWY 21, Amdt 10B
Chicago, IL, Chicago O'Hare Intl, ILS OR LOC RWY 9R, Amdt 12B
Mount Vernon, IL, Mount Vernon, ILS OR LOC RWY 23, Amdt 12
Mount Vernon, IL, Mount Vernon, VOR RWY 5, Amdt 16C, CANCELED
Pittsfield, IL, Pittsfield Penstone Muni, RNAV (GPS) RWY 31, Orig-A
Connersville, IN, Mettel Field, ILS OR LOC RWY 18, Amdt 1

Connersville, IN, Mettel Field, VOR-A, Amdt 1B, CANCELED
Peru, IN, Peru Muni, RNAV (GPS) RWY 1, Orig-B
Junction City, KS, Freeman Field, RNAV (GPS) RWY 36, Orig-E
Eunice, LA, Eunice, RNAV (GPS) RWY 34, Orig-A
Taunton, MA, Taunton Muni - King Field, RNAV (GPS) RWY 30, Amdt 2
Albert Lea, MN, Albert Lea Muni, VOR RWY 35, Amdt 1C
Bigfork, MN, Bigfork Muni, RNAV (GPS) RWY 15, Orig-C
Bigfork, MN, Bigfork Muni, RNAV (GPS) RWY 33, Orig-C
St Louis, MO, St Louis Lambert Intl, ILS OR LOC RWY 6, Amdt 2
St Louis, MO, St Louis Lambert Intl, ILS OR LOC RWY 11, ILS RWY 11 CAT II, ILS RWY 11 CAT III, Amdt 1
St Louis, MO, St Louis Lambert Intl, ILS OR LOC RWY 29, Amdt 2
St Louis, MO, St Louis Lambert Intl, ILS OR LOC RWY 30L, Amdt 12D
St Louis, MO, St Louis Lambert Intl, ILS OR LOC RWY 30R, ILS RWY 30R CAT II, ILS RWY 30R CAT III, Amdt 12
Greensboro, NC, Piedmont Triad Intl, ILS OR LOC RWY 5R, ILS RWY 5R SA CAT II, Amdt 7C
Grand Forks, ND, Grand Forks Intl, RNAV (GPS) RWY 17R, Amdt 1
Nebraska City, NE, Nebraska City Muni, NDB RWY 33, Amdt 2
Pender, NE, Pender Muni, RNAV (GPS) RWY 15, Orig-B
Pender, NE, Pender Muni, RNAV (GPS) RWY 33, Orig-B
Carson City, NV, Carson, RNAV (GPS)-B, Orig
Ticonderoga, NY, Ticonderoga Muni, Takeoff Minimums and Obstacle DP, Amdt 1
Dayton, OH, James M Cox Dayton Intl, ILS OR LOC RWY 24L, Amdt 11
Dayton, OH, James M Cox Dayton Intl, RNAV (GPS) RWY 24L, Amdt 2
Dayton, OH, James M Cox Dayton Intl, RNAV (GPS) Z RWY 6L, Amdt 1E
Dayton, OH, James M Cox Dayton Intl, RNAV (GPS) Z RWY 24R, Amdt 2B
Clearfield, PA, Clearfield-Lawrence, RNAV (GPS) RWY 30, Amdt 1B
Philadelphia, PA, Philadelphia Intl, ILS OR LOC RWY 27L, Amdt 14B
Tullahoma, TN, Tullahoma Rgnl Arpt/Wm Northern Field, NDB RWY 18, Amdt 3B, CANCELED
Tullahoma, TN, Tullahoma Rgnl Arpt/Wm Northern Field, RNAV (GPS) RWY 6, Amdt 2
Borger, TX, Hutchinson County, Takeoff Minimums and Obstacle DP, Amdt 2
Corpus Christi, TX, Corpus Christi Intl, ILS OR LOC RWY 36, Amdt 14
Corpus Christi, TX, Corpus Christi Intl, RNAV (GPS) Y RWY 36, Amdt 3
Beaver, UT, Beaver Muni, Takeoff Minimums and Obstacle DP, Orig-A
Stafford, VA, Stafford Rgnl, RNAV (GPS) RWY 33, Amdt 1A
Olympia, WA, Olympia Rgnl, VOR-A, Amdt 2
Kenosha, WI, Kenosha Rgnl, ILS OR LOC RWY 7L, Amdt 3A
Kenosha, WI, Kenosha Rgnl, RNAV (GPS) RWY 7L, Orig-A

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.33

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

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
ESTHERVILLE MUNI	KEST	RNAV (GPS) RWY 16	1B	ESTHERVILLE	IA

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
1319	1319	RNAV (GPS) RWY 16	1A	11/08/2018	1E	2020

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
RNAV		6 DECEMBER 2018	ROUTINE	

TAA

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 078/30 CW 259/30	NOPT	UYJOR	IF/IAF	3400
2. 259/30 CW 349/30		QUKJI	IAF	3400
3. 349/30 CW 078/30		OXESY	IAF	3400

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
OXESY	IAF	UYJOR	NOPT	TF	FB	1.00	078.48	5.00	3400
QUKJI	IAF	UYJOR	NOPT	TF	FB	1.00	258.64	5.00	3400
UYJOR	IF/IAF	XUMYI		TF	FB	1.00	168.56	6.10	2900
XUMYI	FAF	RW16	MAP	TF	FO	0.30	168.58	4.81	
RW16	MAP	1569 MSL		CA			168.58		
1569 MSL		OHYEQ		DF	FO	1.00			3400

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW16

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3400 DIRECT OHYEQ AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY 4 CHECKED

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. HOLD N UYJOR, RT, 168.56 INBOUND, 3400 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 168.58 **FAF:** XUMYI **DIST FAF TO MAP:** 4.81 **DIST FAF TO THLD:** 4.81

4. MIN ALT: UYJOR 3400, XUMYI 2900

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **250 HAT:** 0.69 **GS ANT:**

6. MIN GP INCPT: 2900 **GP ALT AT FAF :** XUMYI 2900 **OM:** **MM:** **IM:**

7. GP ANGLE: 3.00 **34:1:** IS CLEAR **20:1:** IS CLEAR **TCH:** 30.0

8. MSA FROM:

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: CIRCLING NA TO RWYS 6 AND 24.
CHART NOTE: BARO-VNAV AND VDP NA WHEN USING JACKSON ALTIMETER SETTING.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C OR ABOVE 54°C.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE JACKSON ALTIMETER SETTING AND INCREASE ALL DA/MDA 60 FEET.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
CHART VDP AT 1.14 NM TO RW16*
*LNAV ONLY
WAAS CHANNEL #40104
REFERENCE PATH ID: W16A
CHART FAS OBST: 1421 TREE 432732N/0944451W.
HOLD S, RT, 348.62 INBOUND
LTP HAE: 373 M

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: **NA** ☐ STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE.

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LPV DA	1569	1	250	1569	1	250		NA			NA				
LNAV/VNAV DA	1608	1	289	1608	1	289		NA			NA				
LNAV MDA	1720	1	401	1720	1	401		NA			NA				
CIRCLING	1720	1	401	1840	1	521		NA			NA				

CHANGES - REASONS

1. LTP/FTP ELLIPSOIDAL HEIGHT CHANGED FROM "+00373" TO "+03730" - FIXED SIAP ERROR PER ARINC 424-20.

QUALITY 4 CHECKED

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZMP, AMGR

FLIGHT CHECKED BY		OFFICE	DATE	
FLIGHT INSPECTION REVIEW NOT REQUIRED - PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, Dec 22, 2017.				*Digitally signed by* ***MARK D ADAMS*** Oct 23, 2018
DEVELOPED BY	*Digitally signed by* ***VICTOR C BOONE*** Oct 16, 2018	**OFFICE**	**DATE**	
VICTOR BOONE		AJV-5412	10/16/2018	
APPROVED BY	*Digitally signed by* ***MARK D ADAMS*** Oct 19, 2018	**OFFICE**	**DATE**	**TITLE**
LONNIE EVERHART		AJV-5410		MANAGER

QUALITY 4 CHECKED

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KEST
RUNWAY	RW16
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W16A
LTP/FTP LATITUDE	432453.0175N
LTP/FTP LONGITUDE	0944453.7020W
LTP/FTP ELLIPSOIDAL HEIGHT	+03730
FPAP LATITUDE	432325.3685N
FPAP LONGITUDE	0944431.6230W
THRESHOLD CROSSING HEIGHT (TCH)	00030.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1288
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	5DCB52D0

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+04013
FPAP ORTHOMETRIC HEIGHT	+04013

QUALITY 4 CHECKED

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
TITLE 14 CFR PART 97.37

Bearings, headings, courses, tracks and radials are magnetic. Elevations 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
REXBURG, ID	REXBURG-MADISON COUNTY	6 DECEMBER 2018	5

TAKEOFF MINIMUMS:
RWY 17, 35, STANDARD.

TEXTUAL DEPARTURE PROCEDURES:
RWY 17, CLIMBING RIGHT TURN ON HEADING 215 AND IDA VOR/DME R-015 TO RIGBY INT TO MEA FOR ROUTE OF FLIGHT, IF NOT AT MEA CONTINUE CLIMB IN RIGBY INT HOLDING PATTERN (HOLD N, RT, 195 INBOUND) TO CROSS RIGBY INT AT OR ABOVE MEA BEFORE PROCEEDING ON COURSE.
RWY 35, CLIMBING LEFT TURN ON HEADING 165 AND IDA VOR/DME R-015 TO RIGBY INT TO MEA FOR ROUTE OF FLIGHT BEFORE PROCEEDING ON COURSE.

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:
NOTE: RWY 17, LT SUPPORT STRUCTURE 7 FT FROM DER, 6 FT RIGHT OF CENTERLINE, 4860 FT MSL. BLDG, REIL, NAVAID, AND VEHICLE ON ROAD BEGINNING 22 FT FROM DER, 113 FT RIGHT OF CENTERLINE, UP TO 23 FT AGL/4880 FT MSL. TREE AND FENCE BEGINNING 27 FT FROM DER, 135 FT LEFT OF CENTERLINE, UP TO 23 FT AGL/4882 FT MSL. POLE, BLDG AND TREES BEGINNING 104 FT FROM DER, 51 FT LEFT OF CENTERLINE, UP TO 4913 FT MSL. POLE 237 FT FROM DER, 515 FT RIGHT OF CENTERLINE, 39 FT AGL/4896 FT MSL. TREES BEGINNING 281 FT FROM DER, 291 FT RIGHT OF CENTERLINE, UP TO 4901 FT MSL. TREES, POLE AND VEHICLE ON ROAD BEGINNING 296 FT FROM DER, 311 FT RIGHT OF CENTERLINE, UP TO 4906 FT MSL. TREES BEGINNING 1732 FT FROM DER, 481 FT RIGHT OF CENTERLINE, UP TO 4920 FT MSL. TREES BEGINNING 1968 FT FROM DER, 403 FT RIGHT OF CENTERLINE, UP TO 4928 FT MSL.

NOTE: RWY 35, TREE 18 FT FROM DER, 367 FT RIGHT OF CENTERLINE, 48 FT AGL/4898 FT MSL. TREES AND VEHICLE ON ROAD BEGINNING 23 FT FROM DER, 41 FT RIGHT OF CENTERLINE, UP TO 4937 FT MSL. TREE 27 FT FROM DER, 125 FT LEFT OF CENTERLINE, 4861 FT MSL. TREE 57 FT FROM DER, 449 FT LEFT OF CENTERLINE, 4866 FT MSL. TREE 188 FT FROM DER, 424 FT LEFT OF CENTERLINE, 4872 FT MSL. TREES BEGINNING 204 FT FROM DER, 470 FT LEFT OF CENTERLINE, UP TO 4898 FT MSL. TREES BEGINNING 240 FT FROM DER, 28 FT LEFT OF CENTERLINE, UP TO 4924 FT MSL.

CONTROLLING OBSTACLES:
OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: 13956 FEET MSL AAO 434424.00N/1104812.00W.

REMARKS:

FLIGHT INSPECTED BY: CHARLES D CUNNINGHAM	*Digitally signed by* ***DAVID DANNER*** Oct 18, 2018	**OFFICE SYMBOL:** FICO	**DATE:** 10/14/18
DEVELOPED BY: HEIDI SNIDER	*Digitally signed by* ***HEIDI SNIDER*** Aug 14, 2018	**OFFICE SYMBOL:** AJV-5423	**DATE:** 07/31/2018
APPROVED BY: JULIE MORGAN	*Digitally signed by* ***DAVID DANNER*** Oct 18, 2018	**OFFICE SYMBOL:** AJV-5420	**DATE:**

REQUIRED EFFECTIVE DATE:
ROUTINE

COORDINATED WITH:

A4A	ALPA	AOPA	APA	HAI	NBAA
☐	☒	☒	☐	☐	☒

OTHER:
ZLC, IDA ATCT, ARPT MGR

QUALITY 3 CHECKED

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
TITLE 14 CFR PART 97.37

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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
REXBURG, ID	REXBURG-MADISON COUNTY	6 DECEMBER 2018	5

CHANGES - REASONS:

1. UPDATED TAKEOFF DEPARTURE PROCEDURES:
FROM RWY 17, CLIMBING RIGHT TURN. RWY 35, CLIMBING LEFT TURN.
ALL AIRCRAFT CLIMB VIA IDA VORIDME R-015 TO RIGBY INT TO MEA FOR ROUTE OF FLIGHT BEFORE PROCEEDING ON COURSE.
TO RWY 17, CLIMBING RIGHT TURN ON HEADING 215 AND IDA VOR/DME R-015 TO RIGBY INT TO MEA FOR ROUTE OF FLIGHT, IF NOT AT MEA CONTINUE CLIMB IN RIGBY INT HOLDING PATTERN (HOLD N, RT, 195 INBOUND) TO CROSS RIGBY INT AT OR ABOVE MEA BEFORE PROCEEDING ON COURSE. RWY 35, CLIMBING LEFT TURN ON HEADING 165 AND IDA VOR/DME R-015 TO RIGBY INT TO MEA FOR ROUTE OF FLIGHT BEFORE PROCEEDING ON COURSE. - ADDED HEADING TO INTERSECT POSITIVE COURSE GUIDANCE IAW 8260.3C 14-3-5, RWY 17 REQUIRES CLIMB IN HOLD TO REACH MEA.
2. UPDATED TAKEOFF OBSTACLE NOTES - NEW OBSTACLE EVALUATION TRANSCRIBED USING OBSTACLE GROUPER.
3. UPDATED CONTROLLING OBSTACLES - NEW OBSTACLE EVALUATION DOCUMENTED IAW 8260.46F.

QUALITY 3 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.33

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

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
MID-STATE	KPSB	RNAV (GPS) RWY 16	ORIG-C	PHILIPSBURG	PA

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
1948	1948	RNAV (GPS) RWY 16	ORIG-B	06/25/2015	11W	2010

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
RNAV		6 DECEMBER 2018	ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
PSB VORTAC		JEKUR		TF	FO	2.00	323.32	11.55	4400
ETG VORTAC	IAF	JEKUR	NOPT	TF	FB	1.00	200.67	10.29	4400
JEKUR	IF/IAF	WIDIP		TF	FB	1.00	167.01	6.86	3000
WIDIP	FAF	RW16	MAP	TF	FO	0.30	167.05	3.14	
RW16	MAP	2800 MSL		CA			167.05		2800
2800 MSL		JEKUR		DF	FO	1.00			4400

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW16

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2800 THEN CLIMBING RIGHT TURN TO 4400 DIRECT JEKUR AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY 19 CHECKED

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. HOLD N JEKUR, RT, 167.01 INBOUND, 4400 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 167.05 **FAF:** WIDIP **DIST FAF TO MAP:** 3.14 **DIST FAF TO THLD:** 3.14

4. MIN ALT: JEKUR 4400, WIDIP 3000

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **375 HAT:** 1.01 **GS ANT:**

6. MIN GP INCPT: 3000 **GP ALT AT FAF :** WIDIP 3000 **OM:** **MM:** **IM:**

7. GP ANGLE: 3.00 **34:1:** IS NOT CLEAR **20:1:** IS CLEAR **TCH:** 52.0

8. MSA FROM: RW16 4200

PBN REQUIREMENTS NOTE:

RNP APCH

NOTES:

CHART NOTE: CIRCLING TO RWY 24 NA AT NIGHT.
CHART NOTE: RWY 16 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: BARO-VNAV NA.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON ETG VORTAC AIRWAY RADIALS 276 CW 290 AND ON PSB VORTAC AIRWAY RADIALS 282 CW 039.
CHART NOTE: WHEN UNIVERSITY PARK ALTIMETER SETTING NOT RECEIVED USE CLEARFIELD ALTIMETER.

ADDITIONAL FLIGHT DATA:

WAAS CHANNEL #97521
REFERENCE PATH ID: W16A
CHART FAS OBST: 2121 TREE 405501N/0780553W.
LTP HAE: 560.7 M

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: **NA** [X]

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LPV DA	2323	1	375	2323	1	375	2323	1	375	2323	1	375			
LNAV/VNAV DA	2332	1 1/8	384	2332	1 1/8	384	2332	1 1/8	384	2332	1 1/8	384			
LNAV MDA	2520	1	572	2520	1	572	2520	1 5/8	572	2520	1 5/8	572			
CIRCLING	2640	1	692	2680	1	732	2760	2 1/2	812	2780	2 3/4	832			

QUALITY 19 CHECKED

CHANGES - REASONS

1. UPDATED CHART NOTE FROM NIGHT LANDING: RWY 6, 24, 34 NA TO CIRCLING TO RWY 24 NA AT NIGHT-UPDATED SURVEY INFORMATION AND DOCUMENTATION CRITERIA.
2. UPDATED CHART NOTE FROM HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED TO CHART NOTE: RWY 16 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED- UPDATED DOCUMENTATION CRITERIA.
3. UPDATED CHART NOTE FROM FOR UNCOMPENSATED BARO-VNAV SYSTEMS LNAV/VNAV NA BELOW -18°C (0°F) OR ABOVE 31°C (87°F) TO CHART NOTE: BARO-VNAV NA-PRIMARY ALTIMETER DECOMMISSIONED, FULL TIME REMOTE ALTIMETER.
4. UPDATED CHART NOTE FROM WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE UNIVERSITY PARK ALTIMETER SETTING AND INCREASE LPV DA TO 2323, LNAV/VNAV DA TO 2332, AND ALL MDA 140 FEET; INCREASE LPV ALL CATS, LNAV/VNAV ALL CATS LNAV ALL CATS, AND CIRCLING CATS C/D VISIBILITY 1/2 MILE TO CHART NOTE: WHEN UNIVERSITY PARK ALTIMETER SETTING NOT RECEIVED USE CLEARFIELD ALTIMETER- PRIMARY ALTIMETER DECOMMISSIONED, FULL TIME REMOTE ALTIMETER.
5. DELETED CHART NOTE: DME/DME RNP-0.3 NA- NO LONGER REQUIRED.
6. ADDED PBN EQUIPMENT REQUIREMENT NOTE: RNP APCH-REQUIRED NOTE.
7. UPDATED LPV DA/VIS/HAT ALL CATS FROM 2198/3/4/250 TO 2323/1/375-PRIMARY ALTIMETER DECOMMISSIONED, FULL TIME REMOTE ALTIMETER.
8. UPDATED LNAV/VNAV DA/VIS/HAT ALL CATS FROM 2207/3/4/259 TO 2332/1 1/8/384-PRIMARY ALTIMETER DECOMMISSIONED, FULL TIME REMOTE ALTIMETER.
9. UPDATED LNAV CATS A/B MDA/HAT FROM 2380/432 TO 2520/572, LNAV CATS C/D MDA/VIS/HAT FROM 2380/1 1/4/432 TO 2580/1 5/8/572-PRIMARY ALTIMETER DECOMMISSIONED, FULL TIME REMOTE ALTIMETER.
10. UPDATED CIRCLING CATS A/B MDA/HAA FROM 2500/552 TO 2640/692, CIRCLING CAT C MDA/VIS/HAA FROM 2620/2/672 TO 2760/2 1/2/812 AND CIRCLING CAT D MDA/VIS/HAA FROM 2640/2 1/4/692 TO 2780/2 3/4/832-PRIMARY ALTIMETER DECOMMISSIONED, FULL TIME REMOTE ALTIMETER
11. DELETED ADDITIONAL FLIGHT DATA NOTE: CHART VDP AT 1.19 MILES TO RWY 16* LNAV ONLY-PRIMARY ALTIMETER DECOMMISSIONED, FULL TIME REMOTE ALTIMETER.
12. UPDATED ADDITIONAL FLIGHT DATA NOTE: FROM DISTANCE TO THLD FROM 250 HATH: 0.62 NM TO DISTANCE TO THLD FROM 375 HATH: 1.01 NM-PRIMARY ALTIMETER DECOMMISSIONED USING REMOTE ALTIMETER MINIMUMS.
13. UPDATED FAS DATA: LTP LATITUDE/LONGITUDE FROM 405336.2100N/0780529.3600W TO 405336.2040N/0780529.3650W, FPAP LATITUDE/LONGITUDE FROM 405214.7200N/0780441.7200W TO 405214.7095N/0780441.7285W, CRC REMAINDER CHANGED FROM OBDC8C51TO E7CD1BE3-UPDATED SURVEY INFORMATION.

COORDINATED WITH:

A4A ☐ **ALPA** ☐ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZNY, AMGR, NEW YORK APP CON

FLIGHT CHECKED BY	*Digitally signed by* ***DAVID DANNER*** Oct 26, 2018	**OFFICE**	**DATE**
JORGE A MALCUN		FICO	10/21/18
DEVELOPED BY	*Digitally signed by* ***JOHN HAZELTON*** Aug 15, 2018	**OFFICE**	**DATE**
JOHN HAZELTON		AJV-5421	07/13/2018
APPROVED BY	*Digitally signed by* ***DAVID DANNER*** Oct 26, 2018	**OFFICE**	**DATE**
JULIE MORGAN		AJV-5420	

TITLE

MANAGER

QUALITY 19 CHECKED

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KPSB
RUNWAY	RW16
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W16A
LTP/FTP LATITUDE	405336.2040N
LTP/FTP LONGITUDE	0780529.3650W
LTP/FTP ELLIPSOIDAL HEIGHT	+05607
FPAP LATITUDE	405214.7095N
FPAP LONGITUDE	0780441.7285W
THRESHOLD CROSSING HEIGHT (TCH)	00052.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1016
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	E7CD1BE3

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+05937
FPAP ORTHOMETRIC HEIGHT	+05937

QUALITY 19 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.33

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Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or feet RVR.

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
STEPHENS COUNTY	KBKD	RNAV (GPS) RWY 17	ORIG-B	BRECKENRIDGE	TX

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
1284	1265	RNAV (GPS) RWY 17	ORIG-A	10/16/2014	7E	1985

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
RNAV		6 DECEMBER 2018	ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
WAPEV		TISEE		TF	FO	2.00	007.51	19.14	3600
AJAHO	IAF	TISEE	NOPT	TF	FB	1.00	138.85	14.70	3600
CIYAL	IAF	TISEE	NOPT	TF	FB	1.00	203.77	8.86	3600
TISEE	IF/IAF	LEVYY		TF	FB	0.50	172.63	6.28	2800
LEVYY	FAF	AYONA/2.20 NM TO RW17		TF	FB	0.30	172.63	2.52	
AYONA/2.20 NM TO RW17		RW17	MAP	TF	FO	0.30	172.63	2.20	
RW17	MAP	1580 MSL		CA			172.63		
1580 MSL		RUCOS		DF	FO	1.00			3600

MISSED APPROACH

MAP:

LP: RW17
LNAV: RW17

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3600 DIRECT RUCOS AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY 41 CHECKED

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. HOLD N TISEE, RT, 172.63 INBOUND, 3600 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 172.63 **FAF:** LEVYY **DIST FAF TO MAP:** 4.72 **DIST FAF TO THLD:** 4.72

4. MIN ALT: TISEE 3600, LEVYY 2800, AYONA/2.20 NM TO RW17 1980

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **GS ANT:**

6. MIN GP INCPT: **GP ALT AT FAF :** **OM:** **MM:** **IM:**

7. GP ANGLE: **34:1:** IS NOT CLEAR **20:1:** IS NOT CLEAR **TCH:**

8. MSA FROM: RW17 3500

PBN REQUIREMENTS NOTE:

RNP APCH

NOTES:

CHART NOTE: RWY 17 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ABILENE RGNL ALTIMETER SETTING: INCREASE ALL MDA 180 FEET AND LP, LNAV VISIBILITY CATS C AND D 3/8 SM, CIRCLING VISIBILITY CATS C AND D 1/4 SM.
CHART NOTE: PROCEDURE NA AT NIGHT.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WAPEV ON V66 WEST BOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT CIYAL ON V16 NORTHEAST BOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT AJAHO ON V77 NORTHEAST BOUND.

ADDITIONAL FLIGHT DATA:

LEVYY TO RW17: 3.00/40
WAAS CHANNEL #65828
REFERENCE PATH ID: W17A
CHART FAS OBST: 1324 TREE 324338N/0985323W, 1449 TOWER 324555N/0985345W.
HOLD S, RT, 352.63 INBOUND
LTP HAE: 354.2 M

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE.

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LP MDA	1580	1	315	1580	1	315	1580	1	315	1580	1	315			
LNAV MDA	1700	1	435	1700	1	435	1700	1 3/8	435	1700	1 3/8	435			
CIRCLING	1720	1	436	1740	1	456	1740	1 1/2	456	1840	2	556			

QUALITY 41 CHECKED

CHANGES - REASONS

1. REMOVED DME/DME RNP-0.3 NA AND ADDED EQUIPMENT REQUIREMENTS NOTE: RNP APCH - 8260.58A TABLE 1-2-1.
2. ADDED 20:1 IS NOT CLEAR TO LINE 7 - NEW DOCUMENTATION REQUIREMENT.
3. ADDED NOTE: PROCEDURE NA AT NIGHT. - 20:1 PENETRATIONS.
4. CHANGED HELICOPTER NOTE FROM "VISIBILITY REDUCTION BY HELICOPTERS NA" TO "RWY 17: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. - NEW DOCUMENTATION REQUIREMENT.
5. REMOVED NOTE: CIRCLING TO RWY 4, 13, 22, 31 NA AT NIGHT. - 20:1 PENETRATIONS.
6. REMOVED NOTE: WHEN VGSI INOP, STRAIGHT-IN/CIRCLING RWY 17 PROCEDURE NA AT NIGHT. - 20:1 PENETRATIONS.
7. REMOVED NOTE: WHEN VGSI INOP, CIRCLING RWY 35 NA AT NIGHT. - 20:1 PENETRATIONS.
8. TERMINAL ROUTE WAPEV TO TISEE DISTANCE CHANGED FROM 19.41 TO 19.14. - INCORRECT DISTANCE.

QUALITY 41 CHECKED

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZFW, AMGR

FLIGHT CHECKED BY		OFFICE	DATE
FLIGHT INSPECTION REVIEW NOT REQUIRED - PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, DEC 22, 2017.	*Digitally signed by* ***DEZ SILAGYI*** Aug 30, 2018		
DEVELOPED BY		**OFFICE**	**DATE**
JIMMY S. HUGHES	*Digitally signed by* ***JIMMY S HUGHES*** Aug 28, 2018	AJV-5422	07/12/2018
APPROVED BY		**OFFICE**	**DATE**
JULIE MORGAN	*Digitally signed by* ***DEZ SILAGYI*** Aug 30, 2018	AJV-5420	

TITLE
MANAGER

QUALITY 41 CHECKED

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KBKD
RUNWAY	RW17
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W17A
LTP/FTP LATITUDE	324332.4800N
LTP/FTP LONGITUDE	0985327.5770W
LTP/FTP ELLIPSOIDAL HEIGHT	+03542
FPAP LATITUDE	324203.2100N
FPAP LONGITUDE	0985326.9000W
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)	0.0
CRC REMAINDER	BD4AB862

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+03834
FPAP ORTHOMETRIC HEIGHT	+03834

QUALITY 41 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.33

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

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
STEPHENS COUNTY	KBKD	RNAV (GPS) RWY 35	ORIG-B	BRECKENRIDGE	TX

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
1284	1284	RNAV (GPS) RWY 35	ORIG-A	05/29/2014	7E	1985

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
RNAV		6 DECEMBER 2018	ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
WAPEV		RUCOS		TF	FO	2.00	123.82	6.56	4000
SITNA		HUSNI		TF	FB	2.00	006.13	14.50	4000
ZOSKU		HEPLO		TF	FB	2.00	307.75	22.11	4000
HUSNI	IAF	RUCOS	NOPT	TF	FB	1.00	037.58	7.00	3600
HEPLO	IAF	RUCOS	NOPT	TF	FB	1.00	307.68	7.00	3600
RUCOS	IF/IAF	LADIY		TF	FB	1.00	352.63	6.37	2800
LADIY	FAF	DIDCE/2.20 NM TO RW35		TF	FB	0.30	352.63	2.42	
DIDCE/2.20 NM TO RW35		RW35	MAP	TF	FO	0.30	352.63	2.20	
RW35	MAP	1680 MSL		CA			352.63		
1680 MSL		TISEE		DF	FO	1.00			3600

MISSED APPROACH

MAP:

LP: RW35
LNAV: RW35

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3600 DIRECT TISEE AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY 35 CHECKED

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. HOLD S RUCOS, RT, 352.63 INBOUND, 3600 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 352.63 **FAF:** LADIY **DIST FAF TO MAP:** 4.63 **DIST FAF TO THLD:** 4.63

4. MIN ALT: RUCOS 3600, LADIY 2800, DIDCE/2.20 NM TO RW35 2020

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **GS ANT:**

6. MIN GP INCPT: **GP ALT AT FAF :** **OM:** **MM:** **IM:**

7. GP ANGLE: **34:1:** IS NOT CLEAR **20:1:** IS NOT CLEAR **TCH:**

8. MSA FROM: RW35 3500

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: RWY 35 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ABILENE RGNL ALTIMETER SETTING: INCREASE ALL MDA 180 FEET AND INCREASE LP VISIBILITY, CAT C AND D 1/2 SM; INCREASE LNAV VISIBILITY, CAT C AND D 5/8 SM; INCREASE CIRCLING VISIBILITY, CAT C AND D 1/4 SM.
CHART NOTE: PROCEDURE NA AT NIGHT.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WAPEV ON V66 WEST BOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ZOSKU ON V62-94 EAST BOUND.

ADDITIONAL FLIGHT DATA:

LADIY TO RW35: 3.00/40
1599 AAO 323750N/0985256W
WAAS CHANNEL #61128
REFERENCE PATH ID: W35A
CHART FAS OBST: 1414 TREE 324127N/0985337W, 1444 TREE 324041N/0985407W.
HOLD N, RT, 172.63 INBOUND
LTP HAE: 362.2 M

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: **NA** ☐ STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE.

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LP MDA	1680	1	396	1680	1	396	1680	1 1/8	396	1680	1 1/8	396			
LNAV MDA	1700	1	416	1700	1	416	1700	1 1/8	416	1700	1 1/8	416			
CIRCLING	1720	1	436	1740	1	456	1740	1 1/2	456	1840	2	556			

QUALITY 41 CHECKED

CHANGES - REASONS

1. REMOVED DME/DME RNP-0.3 NA AND ADDED EQUIPMENT REQUIREMENTS NOTE: RNP APCH - 8260.58A TABLE 1-2-1.
2. ADDED 20:1 IS NOT CLEAR TO LINE 7 - NEW DOCUMENTATION REQUIREMENT.
3. ADDED NOTE: PROCEDURE NA AT NIGHT. - 20:1 PENETRATIONS.
4. CHANGED HELICOPTER NOTE FROM "HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NA" TO "RWY 35: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. - NEW DOCUMENTATION REQUIREMENT.
5. REMOVED NOTE: CIRCLING TO RWY 4, 13, 22, 31 NA AT NIGHT. - 20:1 PENETRATIONS.
6. REMOVED NOTE: WHEN VGSI INOP, STRAIGHT-IN/CIRCLING RWY 17 PROCEDURE NA AT NIGHT. - 20:1 PENETRATIONS.
7. REMOVED NOTE: WHEN VGSI INOP, CIRCLING RWY 35 NA AT NIGHT. - 20:1 PENETRATIONS.

10/15/18: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 08/30/2018.
1. CHANGED THRE TO TDZE.

QUALITY 35 CHECKED

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZFW, AMGR

FLIGHT CHECKED BY	OFFICE	DATE
FLIGHT INSPECTION REVIEW NOT REQUIRED - PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, DEC 22, 2017.		*Digitally signed by* ***ROBERT G HAMILTON*** Oct 15, 2018

DEVELOPED BY		OFFICE	DATE
JIMMY S. HUGHES	*Digitally signed by* ***JIMMY S HUGHES*** Aug 28, 2018		07/12/2018

APPROVED BY	OFFICE	DATE	TITLE
JULIE MORGAN	AJV-5420	*Digitally signed by* ***ROBERT G HAMILTON*** Oct 15, 2018	MANAGER

QUALITY 35 CHECKED

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KBKD
RUNWAY	RW35
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W35A
LTP/FTP LATITUDE	324243.0385N
LTP/FTP LONGITUDE	0985327.1980W
LTP/FTP ELLIPSOIDAL HEIGHT	+03622
FPAP LATITUDE	324412.3100N
FPAP LONGITUDE	0985327.8800W
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)	0.0
CRC REMAINDER	6772AA93

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+03914
FPAP ORTHOMETRIC HEIGHT	+03914

QUALITY 41 CHECKED

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
GRAPHIC DEPARTURE PROCEDURES (DP)

Bearings, headings, courses, tracks and radials are magnetic. Elevations 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 statue miles or feet RVR unless otherwise indicated.

DP NAME	NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	EFFECTIVE DATE
BREVIG	TWO	KTS2.JIPAK	ONE	05/29/2014	3 JANUARY 2019

TYPE:	OBSTACLE	COPTER	SID	SPECIAL	RNAV
	☒	☐	☐	☐	☒

DP ROUTE DESCRIPTION:
TAKEOFF RWY 12: CLIMB HEADING 120.69 TO 600 THEN RIGHT TURN DIRECT JIPAK, THENCE ...
TAKEOFF RWY 23: CLIMB HEADING 225.69 TO 600 THEN LEFT TURN DIRECT JIPAK, THENCE ...
TAKEOFF RWY 30: CLIMB HEADING 300.68 TO 600 THEN LEFT TURN DIRECT JIPAK, THENCE ...

... CONTINUE CLIMB IN HOLD AT JIPAK (HOLD NW, RT, 9 MILE LEGS, 124.89 INBOUND) TO AT OR ABOVE 6000 BEFORE PROCEEDING ON COURSE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

TRANSITION NAME	TRANSITION COMPUTER CODE	FROM FIX/NAVAID	TO FIX/NAVAID	COURSE	DISTANCE	MEA	MOCA	CROSSING ALTITUDE/FIXES

PROCEDURAL DATA NOTES:
NOTE: GPS REQUIRED.
NOTE: RNAV 1.

TAKEOFF MINIMUMS:
RWY 5: NA - TERRAIN.
RWY 12, 23: STANDARD.
RWY 30: 400 - 2 3/4 OR STANDARD WITH MINIMUM CLIMB OF 280 FT PER NM TO 600.

TAKEOFF OBSTACLES NOTES:
NOTE: RWY 12: BUSH 153 FT FROM DER, 373 FT RIGHT OF CENTERLINE, 15 FT AGL/40 FT MSL.

NOTE: RWY 23: TERRAIN 103 FT FROM DER, 300 FT RIGHT OF CENTERLINE, 69 FT MSL. POLE 263 FT FROM DER, 542 FT RIGHT OF CENTERLINE, 35 FT AGL/60 FT MSL. VEHICLES ON ROAD 135 FT FROM DER, 440 FT LEFT OF CENTERLINE, 14 FT AGL/39 FT MSL.

NOTE: RWY 30: TERRAIN BEGINNING 142 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 85 FT MSL.

CONTROLLING OBSTACLES:
RWY 30: 427 FT MSL AAO 652154.00N/1663130.00W (CEIL/VIS/CGTA), 399 FT MSL AAO 652133.05N/1663042.96W (CG).

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:
REFERENCE MAGVAR: PFKT 9E EPOCH YR 2020.
DME/DME ASSESSMENT: NOT CONDUCTED.
CHART HOLDING AT JIPAK (HOLD NW, RT 124.89 INBOUND, 9NM).

QUALITY 3 CHECKED

AIRPORTS SERVED:

AIRPORT NAME	CITY	STATE
BREVIG MISSION (PFKT)	BREVIG MISSION	AK

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
GRAPHIC DEPARTURE PROCEDURES (DP)

Bearings, headings, courses, tracks and radials are magnetic. Elevations 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 statue miles or feet RVR unless otherwise indicated.

DP NAME	NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	EFFECTIVE DATE
BREVIG	TWO	KTS2.JIPAK	ONE	05/29/2014	3 JANUARY 2019

COMMUNICATIONS:
AWOS-3P, ZAN, CTAF

FIXES AND/OR NAVAIDS:

REMARKS:
ABBREVIATED AMENDMENT:
NOTE: 15 FT VEGETATION USED PER FPT

Digitally signed by
DONALD H LANIER
Jul 31, 2018

FLIGHT INSPECTED BY: **OFFICE SYMBOL:** **DATE:**

FLIGHT INSPECTION REVIEW NOT REQUIRED - PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, DEC 22, 2017

DEVELOPED BY:
LONNIE EVERHART
(TARA N. MARTINELLI)

Digitally signed by
DONALD H LANIER
Jul 31, 2018

OFFICE SYMBOL: AJV-5400 **DATE:** 06/11/2018

APPROVED BY:
LONNIE EVERHART

Digitally signed by
DONALD H LANIER
Jul 31, 2018

OFFICE SYMBOL: AJV-5400 **DATE:**

REQUIRED EFFECTIVE DATE:
ROUTINE

COORDINATED WITH:

A4A	ALPA	AOPA	APA	HAI	NBAA
☐	☐	☒	☐	☐	☒

OTHER:
ZAN, AMGR

CHANGES - REASONS:
1. CHANGED THE DP COMPUTER CODE FROM FKT1.FKT TO KTS2.JIPAK PER PTS FPT/ATC REQUEST.
2. DP ROUTE DESCRIPTION BLOCK: UPDATED RWY 12 HEADING FROM 117.68 TO 120.69 DUE TO UPDATED MAGVAR 2020 EPOCH 9E.
3. DP ROUTE DESCRIPTION BLOCK: CHANGED RWY 22 TO RWY 23 TO CORRESPOND WITH WORKING AIRNAV DATA SHEET 11-8-2018.
4. DP ROUTE DESCRIPTION BLOCK: UPDATED RWY 23 HEADING FROM 222.70 TO 225.69 DUE TO UPDATED MAGVAR 2020 EPOCH 9E.
5. DP ROUTE DESCRIPTION BLOCK: UPDATED RWY 30 HEADING FROM 297.96 TO 300.68 DUE TO UPDATED MAGVAR 2020 EPOCH 9E.
6. DP ROUTE DESCRIPTION BLOCK: CHANGED CONTINUE CLIMB IN HOLD TO AT OR ABOVE 6000 BEFORE PROCEEDING ON COURSE TO CONTINUE CLIMB IN HOLD AT JIPAK (HOLD NW, RT, 9 MILE LEGS, 124.89) TO AT OR ABOVE 6000 BEFORE PROCEEDING ON COURSE.
7. PROCEDURAL DATA NOTES BLOCK: CHANGED RWY 4 TO RWY 5 AND RWY 22 TO RWY 23 TO CORRESPOND WITH WORKING AIRNAV DATA SHEET 11-8-2018.
8. TAKEOFF MINIMUMS BLOCK: CHANGED RWY 22 TO RWY 23 TO CORRESPOND WITH WORKING AIRNAV DATA SHEET 11-8-2018.
9. ADDITIONAL FLIGHT DATA BLOCK: MAGVAR CHANGED FROM 2010 12E TO 2020 9E.
10. ADDITIONAL FLIGHT DATA BLOCK: UPDATED JIPAK HOLDING FROM 121.89 TO 124.89.
11. COMMUNICATIONS BLOCK: MATCHED FREQUENCIES WITH DEPARTURE PLATE.
12. FORM 8260-15C CHANGED RW22 TO RW23.
13. FORM 8260-15C CHANGED ALTITUDE INFORMATION FROM 6000 TO AT/ABOVE 6000.

QUALITY 3 CHECKED

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
DEPARTURE (DATA RECORD)

DP NAME	NUMBER	DP COMPUTER CODE	SUPERSEDED NUMBER	DATED	EFFECTIVE DATE
BREVIG	TWO	KTS2.JIPAK	ONE	05/29/2014	3 JANUARY 2019

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW12 (AER)	652000.45N/1662818.71W	N	-	-	-	-			
600 MSL	-	-	-	VA	129.69	-			
JIPAK	650632.36N/1664639.96W	Y	FO	DF	-	-			RIGHT TURN
JIPAK	650632.36N/1664639.96W	Y	FO	HA	133.89	9	AT/ABOVE 6000		RIGHT TURN
RW23 (AER)	652001.18N/1662743.38W	N	-	-	-	-			
600 MSL	-	-	-	VA	234.69	-			
JIPAK	650632.36N/1664639.96W	Y	FO	DF	-	-			LEFT TURN
JIPAK	650632.36N/1664639.96W	Y	FO	HA	133.89	9	AT/ABOVE 6000		RIGHT TURN
RW30 (AER)	651941.66N/1662724.52W	N	-	-	-	-			
600 MSL	-	-	-	VA	309.68	-			CG 280 FT PER NM TO 600
JIPAK	650632.36N/1664639.96W	Y	FO	DF	-	-			LEFT TURN
JIPAK	650632.36N/1664639.96W	Y	FO	HA	133.89	9	AT/ABOVE 6000		RIGHT TURN

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.33

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

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
BREVIG MISSION	PFKT	RNAV (GPS) RWY 12	1	BREVIG MISSION	AK

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
38	37	RNAV (GPS) RWY 12	ORIG-A	03/31/2016	9E	2020

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
RNAV		3 JANUARY 2019	ROUTINE	

TAA

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 030/30 CW 210/30	NOPT	WIGBO	IF/IAF	5100
2. 210/30 CW 300/30		ZOBOL	IAF	5100
3. 300/30 CW 030/30		JOVDO	IAF	5100

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
JOVDO	IAF	WIGBO	NOPT	TF	FB	1.00	030.23	6.50	5100
ZOBOL	IAF	WIGBO	NOPT	TF	FB	1.00	210.15	6.50	5100
WIGBO	IF/IAF	WOPAK		TF	FB	1.00	120.23	4.00	3900
WOPAK		CUTIR		TF	FB	1.00	120.35	4.00	2700
CUTIR	FAF	DIBAC/4.00 NM TO RW12		TF	FB	0.30	120.46	3.92	
DIBAC/4.00 NM TO RW12		RW12	MAP	TF	FO	0.30	120.46	4.00	
RW12	MAP	287 MSL		CA			120.46		
287 MSL		CUSEW		DF	FO	1.00			6300

QUALITY 10 CHECKED

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW12

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 6300 DIRECT CUSEW AND HOLD, CONTINUE CLIMB-IN-HOLD TO 6300.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. HOLD NW WIGBO, RT, 120.23 INBOUND, 5100 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 120.46 **FAF:** CUTIR **DIST FAF TO MAP:** 7.92 **DIST FAF TO THLD:** 7.92

4. MIN ALT: WIGBO 5100, WOPAK 3900, CUTIR 2700, DIBAC/4.00 NM TO RW12 1360*

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **250 HAT:** 0.66 **GS ANT:**

6. MIN GP INCPT: 2700 **GP ALT AT FAF :** CUTIR 2700 **OM:** **MM:** **IM:**

7. GP ANGLE: 3.00 **34:1:** IS CLEAR **20:1:** IS CLEAR **TCH:** 40.0

8. MSA FROM:

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: CIRCLING NA N OF OF RWYS 12 AND 23.
CHART NOTE: CIRCLING RWY 23 NA AT NIGHT.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -25°C OR ABOVE 54°C.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
CHART VDP AT 0.89 NM TO RW12*
*LNAV ONLY
WAAS CHANNEL #77628
REFERENCE PATH ID: W12A
CHART FAS OBST: 99 TOWER 651958N/1662908W.
HOLD SE, RT, 301.13 INBOUND
LTP HAE: 15.2 M

QUALITY 10 CHECKED

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ STANDARD

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LPV DA	287	1	250	287	1	250		NA			NA				
LNAV/VNAV DA	287	1	250	287	1	250		NA			NA				
LNAV MDA	360	1	323	360	1	323		NA			NA				
CIRCLING	620	1	582	1460	1 1/2	1422		NA			NA				

CHANGES - REASONS

1. UPDATED PROCEDURE FOR AIRPORT MAGVAR CHANGE - MAGVAR CHANGED FROM 12E TO 9E 2020.
2. REMOVED CHART NOTE: DME/DME RNP - 0.3NA - CRITERIA CHANGE.
3. ADDED PBN REQUIREMENT NOTE: RNP APCH - CRITERIA CHANGE.
4. UPDATED RWY 22 TO RWY 23 ON 8260-3 AND 8260-9. - RUNWAY MAGVAR CHANGE.
5. ADDED NEW FIXES TO PROCEDURE FOR TAA. - TAA CHANGED FROM AN I TO A T.
6. CHANGED MISSED APPROACH FROM CLIMB TO 6200 DIRECT GUSPE AND HOLD, CONTINUE TO CLIMB-IN-HOLD TO 6200 TO CLIMB TO 6300 DIRECT CUSEW AND HOLD, CONTINUE CLIMB-IN-HOLD TO 6300. - CLEAR CLIMB-IN-HOLD LEVEL SURFACE OBSTACLE.
7. REPLACED INITIAL APPROACH FIX BEVEH WITH WIGBO. - FIX MOVED MORE THAN 1 NM.
8. ADDED APPROACH FIX ZOBOL (LEFT BASE). - TAA INITIAL SEGMENT ADDED PER ATC.
9. ADDED INITIAL APPROACH FIX JOVDO (RIGHT BASE).- TAA INITIAL SEGMENT ADDED PER ATC.
10. LPV MINIMUMS CHANGED FROM 288/HAT 251 TO 287/HAT 250, AND VISIBILITY RAISED FROM 7/8 SM TO 1 SM. - FAF INCREASED 2600 TO 2700.
11. LNAV/VNAV LINE OF MINIMA 287/HAT250, VISIBILITY 1SM. - LNAV/VNAV MINIMA ADDED TO PROCEDURE.
12. LNAV MINIMA DECREASE FROM 700/ HAT 663 TO 360/HAT 323. - FAF INCREASED 2600 TO 2700.
13. CIRCLING CAT A DECREASED FROM 700/HAA 662 TO 400/HAA 362. - NEW CONTROLLING OBSTACLE IDENTIFIED
14. CIRCLING CAT B INCREASED FROM 700/HAA 662 TO 1460/HAA 1422, VISIBILITY 1SM TO 1 1/2 SM. - NEW CONTROLLING OBSTACLE USED.
15. UPDATED CHART NOTE: CIRCLING NA N OF RWYS 12 AND 23.- RWY DESIGNATOR CHANGED FROM 22 TO 23.
16. UPDATED CHART NOTE: CIRCLING RWY 23 NA AT NIGHT- THIS CANCELS NOTAM 5/8215 AND UPDATED RWY DESIGNATOR FROM 22 TO 23.
17. DELETED BACKUP ALTIMETER SETTING NOTE - MOVED TO -9 AS A CONTINGENCY NOTE.
18. H-I-L ALTITUDE RAISED FROM 4500 TO 5100 - ATC REQUEST.
19. FAF ALTITUDE RAISED FROM 2600 TO 2700 - ATC REQUEST.
20. STEPDOWN RAISED FROM 1340 TO 1360 - STABILIZED DESCENT ANGLE.
21. ADDED VDP - ADDED ALTERNATE MINIMUMS - LOCAL WEATHER SOURCE ON WMSCR.
22. ADDED NOTE: "CHART CIRCLING ICON" - NEW CIRCLING CRITERIA APPLIED.

QUALITY 10 CHECKED

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZAN, PFKT AMGR

FLIGHT CHECKED BY		OFFICE	DATE
THOMAS CONKLIN	*Digitally signed by* ***ROBERT G HAMILTON*** Oct 29, 2018	FICO	10/23/18

DEVELOPED BY		OFFICE	DATE
LONNIE EVERHART (MARSHALL SCOTT)	*Digitally signed by* ***ROBERT G HAMILTON*** Oct 29, 2018	AJV-5400	06/11/2018

APPROVED BY		OFFICE	DATE	TITLE
LONNIE EVERHART	*Digitally signed by* ***ROBERT G HAMILTON*** Oct 29, 2018	AJV-5400		MANAGER

QUALITY 10 CHECKED

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	PFKT
RUNWAY	RW12
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W12A
LTP/FTP LATITUDE	652000.4465N
LTP/FTP LONGITUDE	1662818.7100W
LTP/FTP ELLIPSOIDAL HEIGHT	+00152
FPAP LATITUDE	651903.7300N
FPAP LONGITUDE	1662535.2400W
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	1840
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	99A95C37

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	PA
LTP ORTHOMETRIC HEIGHT	+00111
FPAP ORTHOMETRIC HEIGHT	+00111

QUALITY 10 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.33

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

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
BREVIG MISSION	PFKT	RNAV (GPS) RWY 30	1	BREVIG MISSION	AK

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
38	37	RNAV (GPS) RWY 30	ORIG-A	03/31/2016	9E	2020

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
RNAV		3 JANUARY 2019	ROUTINE	

TAA

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 211/30 CW 031/30	NOPT	211/9 CW 031/9		7000
2. 211/9 CW 031/9		CUSEW	IF/IAF	4600
3. 031/30 CW 121/30		YEGUK	IAF	4600
4. 121/30 CW 211/30		JOMSO		4600

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
YEGUK	IAF	CUSEW	NOPT	TF	FB	1.00	030.97	6.50	4600
JOMSO	IAF	CUSEW	NOPT	TF	FB	1.00	211.29	6.50	4600
CUSEW	IF/IAF	FETUP		TF	FB	1.00	301.13	8.00	2600
FETUP	FAF	EZIDU/4.00 NM TO RW30		TF	FB	0.30	300.91	3.93	
EZIDU/4.00 NM TO RW30		RW30	MAP	TF	FO	0.30	300.91	4.00	
RW30	MAP	287 MSL		CA			300.91		
287 MSL		WIGBO		DF	FO	1.00			5100

QUALITY 10 CHECKED

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW30

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 5100 DIRECT WIGBO AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5100.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. HOLD SE CUSEW, RT, 301.13 INBOUND, 4600 FT. IN LIEU OF PT (IAF), MAX 6300.

3. FAC: 300.91 **FAF:** FETUP **DIST FAF TO MAP:** 7.93 **DIST FAF TO THLD:** 7.93

4. MIN ALT: CUSEW 4600, FETUP 2600, EZIDU/4.00 NM TO RW30 1340*

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **250 HAT:** 0.67 **GS ANT:**

6. MIN GP INCPT: 2600 **GP ALT AT FAF :** FETUP 2600 **OM:** **MM:** **IM:**

7. GP ANGLE: 3.00 **34:1:** IS CLEAR **20:1:** IS CLEAR **TCH:** 40.0

8. MSA FROM:

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: CIRCLING NA N OF RWYS 12 AND RWY 23.
CHART NOTE: CIRCLING RWY 23 NA AT NIGHT.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -25°C OR ABOVE 54°C.

ADDITIONAL FLIGHT DATA:

849 AAO 651346N/1661354W.
CHART CIRCLING ICON.
CHART VDP AT 3.13 NM TO RW30*
*LNAV ONLY
WAAS CHANNEL #81928
REFERENCE PATH ID: W30A
FAS OBST: 249 AAO 651845N/1662408W.
HOLD NW, RT, 120.23 INBOUND
LTP HAE: 14.7 M

QUALITY 10 CHECKED

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ CAT A 1100-4, CAT B 1500-4, CAT C 1800-4

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LPV DA	287	1 1/4	250	287	1	250	287	1	250		NA				
LNAV/VNAV DA	960	4	923	960	4	923	960	4	923		NA				
LNAV MDA	1080	1 1/4	1043	1080	1 1/2	1043	1080	3	1043		NA				
CIRCLING	1080	1 1/4	1042	1460	2 1/2	1422	1580	3	1542		NA				

CHANGES - REASONS

1. UPDATED PROCEDURE FOR AIRPORT MAGVAR CHANGE - MAGVAR CHANGED FROM 12E TO 9E 2020.
2. REMOVED CHART NOTE: DME/DME RNP - 0.3NA - CRITERIA CHANGE.
3. ADDED PBN REQUIREMENT NOTES: RNP APCH - CRITERIA CHANGE.
4. ADDED CHART CIRCLING ICON. - NEW CIRCLING CRITERIA APPLIED.
5. UPDATED RWY 22 TO RWY 23 ON 8260-3 AND 8260-9. - RUNWAY MAGVAR CHANGE.
6. ADDED NEW FIXES TO PROCEDURE FOR TAA.-TAA CHANGED FROM I TO T.
7. REPLACED MISSED APPROACH FIX BEVEH WITH WIGBO. - FIX MOVED MORE THAN 1 NM.
8. REPALCED INITIAL APPROACH FIX GUSPE WITH CUSEW. - FIX MOVED MORE THAN 1 NM.
9. ADDED INITIAL APPROACH FIX YEGUK (LEFT BASE). - ESTABLISTED FIX FOR TAA.
10. ADDED INITIAL APPROACH FIX JOMSO (RIGHT BASE). - ESTABLISTED FIX FOR TAA.
11. LPV MINIMUMS DECREASED FROM 288/HAT 251 TO 287/HAT 250, VISIBILITY RAISED FROM 7/8 SM TO 1 SM. - HAT INCREASED 2 FEET.
12. LNAV MINIMUMS INCREASED FROM 1120/HAT 1083 TO 1080/HAT 1043, VISIBILITY INCREASED FROM 1 SM TO 1 1/2 SM. - LNAV MINIMUMS ADDED TO PROCEDURE ATC REQUEST.
13. CIRCLING CAT A MINIMUMS DECREASED FROM 1120/ HAA 1082 TO 1080/ HAA 1042. - NEW CIRCLING CRITERIA APPLED.
14. CIRCLING CAT B MINIMUMS INCREASED FROM 1120/ HAA 1082 TO 1460/ HAA 1422. - NEW CIRCLING CRITERIA APPLED.
15. UPDATED CHART NOTE: CIRCLING NA N OF RWYS 12 AND 23.- RWY DESIGNATOR CHANGED FROM 22 TO 23.
16. UPDATED CHART NOTE: CIRCLING RWY 23 NA AT NIGHT.-THIS CANCELS NOTAM 5/8216 AND RWY DESIGNATOR CHANGED FROM 22 TO 23.
17. ADDED CAT C MINIMUMS. - ATC REQUESTS.
18. ADDED ALTERNATE MINIMUMS - LOCAL WEATHER SOURCE ON WMSCR.
19. DELETED BACKUP ALTIMETER SETTING NOTE - MOVED TO -9 AS A CONTINGENCY NOTE.
20. H-I-L ALTITUDE RAISED FROM 4500 TO 4600 - ATC REQUEST.
21. STEPDOWN RAISED FROM 1320 TO 1340 - NEW OBSTACLE EVALUATION.
22. ADDED VDP - LOCAL ALTIMETER SOURCE ON WMSCR.

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZAN, PFKT AMGR

FLIGHT CHECKED BY	OFFICE	DATE	
THOMAS CONKLIN	FICO	10/23/18	*Digitally signed by* ***ROBERT G HAMILTON*** Oct 29, 2018

DEVELOPED BY	OFFICE	DATE	
LONNIE EVERHART (MARSHALL SCOTT)	AJV-5400	06/12/2018	*Digitally signed by* ***ROBERT G HAMILTON*** Oct 29, 2018

APPROVED BY	OFFICE	DATE	TITLE
LONNIE EVERHART	AJV-5400	*Digitally signed by* ***ROBERT G HAMILTON*** Oct 29, 2018	MANAGER

QUALITY 10 CHECKED

QUALITY 10 CHECKED

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	PFKT
RUNWAY	RW30
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W30A
LTP/FTP LATITUDE	651941.6625N
LTP/FTP LONGITUDE	1662724.5195W
LTP/FTP ELLIPSOIDAL HEIGHT	+00147
FPAP LATITUDE	652038.3400N
FPAP LONGITUDE	1663008.1200W
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	1840
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	AD2C5170

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	PA
LTP ORTHOMETRIC HEIGHT	+00106
FPAP ORTHOMETRIC HEIGHT	+00106

QUALITY 10 CHECKED

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
TITLE 14 CFR PART 97.37

Bearings, headings, courses, tracks and radials are magnetic. Elevations 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
BREVIG MISSION, AK	BREVIG MISSION	3 JANUARY 2019	ORIG-A

TAKEOFF MINIMUMS:
RWY 5: NA - TERRAIN

TEXTUAL DEPARTURE PROCEDURES:
RWY 12, 23, 30: USE BREVIG DEPATURE

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:
NOTE: RWY 12: BUSH 153 FT FROM DER, 373 FT RIGHT OF CENTERLINE, 15 FT AGL/40 FT MSL.

NOTE: RWY 23: TERRAIN 103 FT FROM DER, 300 FT RIGHT OF CENTERLINE, 69 FT MSL. POLE 263 FT FROM DER, 542 FT RIGHT OF CENTERLINE, 35 FT AGL/60 FT MSL. VEHICLES ON ROAD 135 FT FROM DER, 440 FT LEFT OF CENTERLINE, 14 FT AGL/39 FT MSL.

NOTE: RWY 30: TERRAIN BEGINNING 142 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 85 FT MSL.

CONTROLLING OBSTACLES:

REMARKS:

FLIGHT INSPECTED BY: *Digitally signed by* ***DONALD H LANIER*** Jul 31, 2018 **OFFICE SYMBOL:** **DATE:**

FLIGHT INSPECTION REVIEW NOT REQUIRED - PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, DEC 22, 2017.

DEVELOPED BY: LONNIE EVERHART (TARA N. MARTINELLI) *Digitally signed by* ***DONALD H LANIER*** Jul 31, 2018 **OFFICE SYMBOL:** AJV-5400 **DATE:** 06/11/2018

APPROVED BY: LONNIE EVERHART *Digitally signed by* ***DONALD H LANIER*** Jul 31, 2018 **OFFICE SYMBOL:** AJV-5400 **DATE:**

REQUIRED EFFECTIVE DATE:
ROUTINE

COORDINATED WITH:

A4A	ALPA	AOPA	APA	HAI	NBAA
☐	☐	☒	☐	☐	☒

OTHER:
ZAN, AMGR

CHANGES - REASONS:
1. TAKEOFF MINIMUMS BLOCK: CHANGED RWY 4 TO RWY 5 DUE TO UPDATED MAGVAR EPOCH YR 2020 9E.
2. TEXTUAL DEPATURE BLOCK: CHANGED RWY 22 TO RWY 23 DUE TO UPDATED MAGVAR EPOCH YR 2020 9E.
3. TAKEOFF OBSTACLE NOTES ADDED IAW TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP) - MEMO 259, IMPLEMENTATION OF AFS WAIVER FOR FAA ORDER 8260-46F, DEPARTURE PROCEDURE PROGRAM.

QUALITY 3 CHECKED

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

FROM	TO	COURSE AND DISTANCE	ALTITUDE
HOT VOR/DME	**ZAPLE INT/5.91 DME**	**238.00 / 5.91**	**2500**

MISSED APPROACH

MAP: HOT VOR/DME

CLIMBING RIGHT TURN TO 3000 ON HOT R-123 TO SOCKS INT/HOT 10.30 DME AND HOLD.

ADDITIONAL FLIGHT DATA:

HOLD SE, RT, 303.00 INBOUND.
CHART FAS OBST: 693 ANTENNA 342732N/0930926W.
CHART VDP AT 2.11 DME
DISTANCE VDP TO THLD 1.27 NM.
ZAPLE TO RWY 5: 3.07/45
FAC CROSSES RWY C/L EXTENDED 3199 FT FROM THLD.

1. PT **L** SIDE OF COURSE **238.00** OUTBOUND **2500** FT WITHIN **10** MILES OF **ZAPLE** (IAF)
2.
3. FAC **058.00** FAF **ZAPLE INT/5.91 DME** DIST FAF TO MAP _____ THLD **5.07**
4. MIN. ALT **ZAPLE INT/5.91 DME 2200**
8. MSA FROM: **HOT VOR/DME 090-250 2700, 250-090 3100**

MAG VAR: **4E** EPOCH YEAR: **1985**

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-05	**960**	**1/2**	**444**	**960**	**1/2**	**444**	**960**	**7/8**	**444**	**960**	**1**	**444**			
CIRCLING	**1060**	**1**	**520**	**1140**	**1**	**600**	**1140**	**1 1/2**	**600**	**1140**	**2**	**600**			

NOTES:

CHART NOTE: CIRCLING NA NW OF RWYS 5 AND 23.
CHART NOTE: CIRCLING RWY 31 NA AT NIGHT.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON HOT VOR/DME AIRWAY RADIALS 221 CW 241.
EQUIPMENT REQUIREMENTS NOTE: ADF OR DME REQUIRED FOR PROCEDURE ENTRY.
EQUIPMENT REQUIREMENTS NOTE: ADF OR DME REQUIRED.

QUALITY 8 CHECKED

CITY AND STATE	ELEVATION / TDZE / AIRPORT NAME	FACILITY IDENTIFIER	PROCEDURE NO./AMDT NO./EFFECTIVE DATE	
HOT SPRINGS, AR	**ELEVATION: 540** **TDZE: 516** AIRPORT NAME: **MEMORIAL FIELD**	**HOT**	**VOR RWY 5, AMDT 4D** 3 JANUARY 2019	SUP **VOR Z RWY 5** AMDT **4C** DATE **04/07/2011**

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 aiport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

QUALITY 8 CHECKED

CITY AND STATE		FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	
HOT SPRINGS, AR	**ELEVATION: 540** **TDZE: 516** AIRPORT NAME: **MEMORIAL FIELD**	**HOT**	**VOR RWY 5, AMDT 4D** 3 JANUARY 2019	SUP: **VOR Z RWY 5** AMDT: **4C** DATED: **04/07/2011**

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
TITLE 14 CFR PART 97.37

Bearings, headings, courses, tracks and radials are magnetic. Elevations 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
CRESCENT CITY, CA	JACK MC NAMARA FIELD	3 JANUARY 2019	2A

TAKEOFF MINIMUMS:
RWY 30: STANDARD.
RWY 12: 300-2 1/4 OR STANDARD WITH MINIMUM CLIMB OF 254 FT PER NM TO 300, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 2200 FEET PRIOR TO DER.
RWY 18: 300-1 OR STANDARD WITH MINIMUM CLIMB OF 308 FT PER NM TO 400.
RWY 36: 300-1 OR STANDARD WITH MINIMUM CLIMB OF 443 FT PER NM TO 300.

TEXTUAL DEPARTURE PROCEDURES:
RWY 12, 18: CLIMBING RIGHT TURN, THENCE...
RWY 30, 36: CLIMBING LEFT TURN, THENCE...

...CLIMB DIRECT CEC VORTAC. AIRCRAFT DEPARTING CEC R-144 CW R-350 CLIMB ON COURSE. ALL OTHERS CONTINUE CLIMB IN CEC VORTAC HOLDING PATTERN (HOLD S, LT, 345.75 INBOUND) TO CROSS CEC VORTAC AT OR ABOVE:

R-351 CW R-048, 2900;
R-049 CW R-113, 4300;
R-114 CW R-143, 2900.

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:
NOTE: RWY 12: TERRAIN 7 FT FROM DER, 6 FT RIGHT OF CENTERLINE, 54 FT MSL.
TERRAIN 9 FT FROM DER, 15 FT LEFT OF CENTERLINE, 54 FT MSL.
NAVAID AND TREE BEGINNING 12 FT FROM DER, 117 FT LEFT OF CENTERLINE, UP TO 4 FT AGL/57 FT MSL.
TREE 798 FT FROM DER, 378 FT LEFT OF CENTERLINE, 149 FT MSL.
TREES BEGINNING 828 FT FROM DER, 437 FT LEFT OF CENTERLINE, UP TO 151 FT MSL.
TREE 1078 FT FROM DER, 390 FT RIGHT OF CENTERLINE, 101 FT MSL.
TREES BEGINNING 1162 FT FROM DER, 75 FT LEFT OF CENTERLINE, UP TO 163 FT MSL.
TREES BEGINNING 1185 FT FROM DER, 156 FT RIGHT OF CENTERLINE, UP TO 123 FT MSL.
TREE AND POLE BEGINNING 1332 FT FROM DER, 215 FT RIGHT OF CENTERLINE, UP TO 149 FT MSL.
TREES BEGINNING 1458 FT FROM DER, 2 FT LEFT OF CENTERLINE, UP TO 169 FT MSL.
TREE AND POLE BEGINNING 1526 FT FROM DER, 93 FT RIGHT OF CENTERLINE, UP TO 150 FT MSL.
TREES BEGINNING 1914 FT FROM DER, 83 FT RIGHT OF CENTERLINE, UP TO 152 FT MSL.
TREES BEGINNING 2058 FT FROM DER, 155 FT RIGHT OF CENTERLINE, UP TO 156 FT MSL.
TREES BEGINNING 2353 FT FROM DER, 182 FT RIGHT OF CENTERLINE, UP TO 159 FT MSL.
TREES BEGINNING 2549 FT FROM DER, 604 FT RIGHT OF CENTERLINE, UP TO 173 FT MSL.
TREES BEGINNING 2656 FT FROM DER, 108 FT RIGHT OF CENTERLINE, UP TO 175 FT MSL.
TREES BEGINNING 2986 FT FROM DER, 73 FT RIGHT OF CENTERLINE, UP TO 189 FT MSL.
TREE 5151 FT FROM DER, 211 FT RIGHT OF CENTERLINE, 216 FT MSL.
TREE 5184 FT FROM DER, 47 FT LEFT OF CENTERLINE, 195 FT MSL.
ANTENNA 1.8 NM FROM DER, 2439 FT LEFT OF CENTERLINE, 320 FT AGL/333 FT MSL.

NOTE: RWY 18: TERRAIN 27 FT FROM DER, 12 FT LEFT OF CENTERLINE, 52 FT MSL.
STRUCTURE 35 FT FROM DER, 113 FT RIGHT OF CENTERLINE, 7 FT AGL/57 FT MSL.
STRUCTURE 35 FT FROM DER, 116 FT LEFT OF CENTERLINE, 4 FT AGL/54 FT MSL.
TREES BEGINNING 183 FT FROM DER, 384 FT RIGHT OF CENTERLINE, UP TO 59 FT MSL.
VEHICLES ON ROAD 319 FT FROM DER, 570 FT LEFT OF CENTERLINE, 60 FT MSL.
TREE 412 FT FROM DER, 166 FT LEFT OF CENTERLINE, 64 FT MSL.
TREES BEGINNING 445 FT FROM DER, 188 FT LEFT OF CENTERLINE, UP TO 66 FT MSL.
TREES BEGINNING 543 FT FROM DER, 411 FT LEFT OF CENTERLINE, UP TO 68 FT MSL.
TERRAIN 4897 FT FROM DER, 1653 FT RIGHT OF CENTERLINE, 202 FT MSL.
TERRAIN 4973 FT FROM DER, 1722 FT RIGHT OF CENTERLINE, 242 FT MSL.

QUALITY 3 CHECKED

CITY, STATE	AIRPORT	EFFECTIVE DATE	AMDT NO
CRESCENT CITY, CA	JACK MC NAMARA FIELD	3 JANUARY 2019	2A

NOTE: RWY 30: NAVAID AND TERRAIN BEGINNING 4 FT FROM DER, 5 FT RIGHT OF CENTERLINE, UP TO 1 FT AGL/58 FT MSL.
TREES BEGINNING 29 FT FROM DER, 374 FT RIGHT OF CENTERLINE, UP TO 65 FT MSL.
TREE 153 FT FROM DER, 332 FT LEFT OF CENTERLINE, 65 FT MSL.
TREE 164 FT FROM DER, 439 FT LEFT OF CENTERLINE, 73 FT MSL.

NOTE: RWY 36: TERRAIN 6 FT FROM DER, 317 FT LEFT OF CENTERLINE, 77 FT MSL.
TREE 104 FT FROM DER, 467 FT RIGHT OF CENTERLINE, 77 FT MSL.
TREE 143 FT FROM DER, 201 FT LEFT OF CENTERLINE, 84 FT MSL.
TREE AND VEGETATION BEGINNING 185 FT FROM DER, 92 FT RIGHT OF CENTERLINE, UP TO 86 FT MSL.
TREE AND VEGETATION BEGINNING 405 FT FROM DER, 197 FT RIGHT OF CENTERLINE, UP TO 97 FT MSL.
TREE 663 FT FROM DER, 30 FT LEFT OF CENTERLINE, 86 FT MSL.
TREE 762 FT FROM DER, 97 FT LEFT OF CENTERLINE, 94 FT MSL.
TREE 791 FT FROM DER, 155 FT LEFT OF CENTERLINE, 96 FT MSL.
TREE 843 FT FROM DER, 227 FT LEFT OF CENTERLINE, 105 FT MSL.
TREES BEGINNING 981 FT FROM DER, 100 FT LEFT OF CENTERLINE, UP TO 117 FT MSL.
TREES BEGINNING 1081 FT FROM DER, 35 FT LEFT OF CENTERLINE, UP TO 135 FT MSL.
TREE 1135 FT FROM DER, 226 FT RIGHT OF CENTERLINE, 104 FT MSL.
TREE 1273 FT FROM DER, 60 FT RIGHT OF CENTERLINE, 111 FT MSL.
TREES BEGINNING 1352 FT FROM DER, 100 FT RIGHT OF CENTERLINE, UP TO 112 FT MSL.
TREES BEGINNING 1550 FT FROM DER, 25 FT RIGHT OF CENTERLINE, UP TO 129 FT MSL.
TREE 1629 FT FROM DER, 425 FT LEFT OF CENTERLINE, 149 FT MSL.
TREES BEGINNING 1654 FT FROM DER, 473 FT LEFT OF CENTERLINE, UP TO 151 FT MSL.
TREES BEGINNING 1824 FT FROM DER, 192 FT LEFT OF CENTERLINE, UP TO 159 FT MSL.
TREES BEGINNING 1961 FT FROM DER, 78 FT LEFT OF CENTERLINE, UP TO 164 FT MSL.
TREES BEGINNING 2056 FT FROM DER, 978 FT RIGHT OF CENTERLINE, UP TO 150 FT MSL.
TREE 2322 FT FROM DER, 757 FT RIGHT OF CENTERLINE, 155 FT MSL.
TREES BEGINNING 2322 FT FROM DER, 35 FT RIGHT OF CENTERLINE, UP TO 176 FT MSL.
TREE 2590 FT FROM DER, 908 FT RIGHT OF CENTERLINE, 179 FT MSL.
TREE 2591 FT FROM DER, 1044 FT RIGHT OF CENTERLINE, 189 FT MSL.
TREES BEGINNING 2644 FT FROM DER, 367 FT RIGHT OF CENTERLINE, UP TO 192 FT MSL.
TREES BEGINNING 2696 FT FROM DER, 70 FT RIGHT OF CENTERLINE, UP TO 195 FT MSL.
TREES BEGINNING 2928 FT FROM DER, 135 FT LEFT OF CENTERLINE, UP TO 174 FT MSL.
TREES BEGINNING 2933 FT FROM DER, 37 FT RIGHT OF CENTERLINE, UP TO 196 FT MSL.
TREES BEGINNING 3318 FT FROM DER, 75 FT LEFT OF CENTERLINE, UP TO 181 FT MSL.
TREES BEGINNING 3587 FT FROM DER, 132 FT LEFT OF CENTERLINE, UP TO 182 FT MSL.

CONTROLLING OBSTACLES:
RWY 12: 216 FEET MSL TREE 414555.79N/1241253.78W (CLIMB GRADIENT/CLIMB GRADIENT TERMINATION ALTITUDE), 333 FEET MSL ANTENNA 414534.06N/1241131.80W (CEILING/VISIBILITY).
RWY 18: 242 FEET MSL TERRAIN 414540.14N/1241502.19W.
RWY 36: 215 FEET MSL TREE 414737.50N/1241352.96W.

OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: 7509 FEET MSL AAO 414948.63N/1233641.20W.

REMARKS:

FLIGHT INSPECTED BY:		OFFICE SYMBOL:	DATE:
THOMAS E MOLOKIE	*Digitally signed by* ***DAVID DANNER*** Oct 18, 2018	FICO	10/15/18
DEVELOPED BY:		**OFFICE SYMBOL:**	**DATE:**
RUSS ROSLEWSKI	*Digitally signed by* ***RUSSELL ROSLEWSKI*** Aug 21, 2018	AJV-5421	08/21/2018

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
TITLE 14 CFR PART 97.37

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL Altitudes are minimum altitudes unless otherwise indicated
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CITY, STATE	AIRPORT	EFFECTIVE DATE	AMDT NO
CRESCENT CITY, CA	JACK MC NAMARA FIELD	3 JANUARY 2019	2A

APPROVED BY: JULIE MORGAN
Digitally signed by ***DAVID DANNER*** Oct 18, 2018

OFFICE SYMBOL: AJV-5420

DATE:

REQUIRED EFFECTIVE DATE:
ROUTINE

COORDINATED WITH:

A4A	ALPA	AOPA	APA	HAI	NBAA
☐	☒	☒	☐	☐	☒

OTHER:
ZSE, AIRPORT MANAGER

CHANGES - REASONS:
1. TAKEOFF MINIMUMS, RWY 12 CHANGED FROM STANDARD TO INCLUDE CEILING/VIS, CLIMB GRADIENT AND REDUCED TAKEOFF LENGTH OPTIONS - NEW CONTROLLING OBSTACLE.
2. TAKEOFF MINIMUMS, RWY 18, CLIMB GRADIENT/CLIMB GRADIENT TERMINATION ALTITUDE CHANGED FROM 294/300 TO 308/400 - NEW CONTROLLING OBSTACLE.
3. UPDATED TAKEOFF OBSTACLE NOTES - NEW OBSTACLE SURVEY.

QUALITY 3 CHECKED

US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33

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TERMINAL ROUTES

FROM	TO	COURSE AND DISTANCE	ALTITUDE
NTELL (IAF)	CATIM (NOPT) (TF) (FB) (RNP 1.00)	084.36 / 18.54	3900
FRA VORTAC (IAF)	UKOTE (NOPT) (TF) (FB) (RNP 1.00)	150.94 / 12.10	5000
UKOTE	CATIM (TF) (FB) (RNP 1.00)	150.98 / 3.17	3900
CATIM (IF/IAF)	PIPRE (TF) (FB) (RNP 1.00)	151.79 / 5.78	2200
PIPRE (FAF)	ZIDIV/2.00 NM TO RW16 (TF) (FB) (RNP 0.30)	154.99 / 3.57	
(SEE FORM 8260-10)			

MISSED APPROACH

LPV: DA
LNAV/VNAV: DA
LNAV: RW16

CLIMB TO 3100 DIRECT DEICE AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3100.

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. HOLD NW CATIM, RT, 151.79 INBOUND, 3900 FT. IN LIEU OF PT (IAF)
3. FAC: 154.99 FAF: PIPRE DIST FAF TO MAP: 5.57 THLD: 5.57
4. MIN. ALT: CATIM 3900, PIPRE 2200, ZIDIV/2.00 NM TO RW16 1060*
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: 2200 GS ALT AT: PIPRE 2200 OM: ____ MM: ____ IM: ____
7. GS ANGLE: 3.00 TCH: 41.0 20:1 IS CLEAR 34:1 IS CLEAR
8. MSA FROM: RW16 10500

ADDITIONAL FLIGHT DATA:
HOLD SE, RT, 335.03 INBOUND.
CHART FAS OBST: 510 TREE 364045N/1192642W.
821 AAO 364630N/1192727W.
DISTANCE TO THLD FROM 250 HAT: 0.66 NM.
CHART VDP AT 1.04 NM TO RW16*
*LNAV ONLY.
WAAS CHANNEL # 77841
REFERENCE PATH ID: W16A
CHART CIRCLING ICON.
LTP HAE: 86.8 M

MAG VAR: 13E EPOCH YEAR: 2020

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	636	3/4	250	636	3/4	250		NA			NA				
LNAV/VNAV DA	672	7/8	286	672	7/8	286		NA			NA				
LNAV MDA	760	1	374	760	1	374		NA			NA				
CIRCLING	800	1	414	840	1	454		NA			NA				

NOTES:
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 54C (130F).
CHART NOTE: CIRCLING NA E OF RWY 16-34.
CHART NOTE: BARO-VNAV AND VDP NA WHEN USING FRESNO YOSEMITE INTL ALTIMETER SETTING.
CHART NOTE: DME/DME RNP-0.3 NA.
(CONTINUED ON PAGE 2)

QUALITY 19 CHECKED

CITY AND STATE	AIRPORT	FACILITY IDENTIFIER	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
REEDLEY, CA	ELEVATION: 386 TDZE: 386 AIRPORT NAME: REEDLEY MUNI	RNAV	RNAV (GPS) RWY 16, ORIG 3 JANUARY 2019	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 aiport 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
ZIDIV/2.00 NM TO RW16	RW16 (MAP) (TF) (FO) (RNP 0.30)	154.99 / 2.00	
RW16 (MAP)	636 MSL (CA)	154.99	
636 MSL	DEICE (DF) (FO) (RNP 1.00)		3100

NOTES, (CONT.):

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE FRESNO YOSEMITE INTL ALTIMETER SETTING: INCREASE ALL DAS 41 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE ALL MDAS 60 FEET.

QUALITY 19 CHECKED

CITY AND STATE	ELEVATION: 386 TDZE: 386 / AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
REEDLEY, CA	**REEDLEY MUNI**	**RNAV**	**RNAV (GPS) RWY 16, ORIG** 3 JANUARY 2019	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 aiport 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	O32
RUNWAY	RW16
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W16A
LTP/FTP LATITUDE	364031.5735N
LTP/FTP LONGITUDE	1192707.8715W
LTP/FTP ELLIPSOIDAL HEIGHT	+00868
FPAP LATITUDE	363904.3040N
FPAP LONGITUDE	1192644.8505W
THRESHOLD CROSSING HEIGHT (TCH)	00041.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1744
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	90E0D897

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+01177
FPAP ORTHOMETRIC HEIGHT	+01177

QUALITY 19 CHECKED

CITY AND STATE		FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	
REEDLEY, CA	ELEVATION: 386 TDZE: 386 AIRPORT NAME: REEDLEY MUNI	RNAV	RNAV (GPS) RWY 16, ORIG 3 JANUARY 2019	SUP: AMDT: NONE DATED:

US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33

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TERMINAL ROUTES

FROM	TO	COURSE AND DISTANCE	ALTITUDE
NTELL	DEICE (TF) (FO) (RNP 2.00)	122.97 / 33.77	3100
FRA VORTAC	SHIFF (TF) (FB) (RNP 2.00)	152.82 / 30.00	4900
SHIFF	DEICE (TF) (FO) (RNP 2.00)	152.91 / 7.75	3100
EXTRA (IAF)	DEICE (NOPT) (TF) (FB) (RNP 1.00)	304.93 / 13.41	3100
DEICE (IF/IAF)	WILPU (TF) (FB) (RNP 1.00)	335.03 / 5.36	2100
(SEE FORM 8260-10)			

MISSED APPROACH

LPV: DA
LNAV/VNAV: DA
LNAV: RW34

CLIMB TO 860 THEN CLIMBING LEFT TURN TO 3100 DIRECT DEICE AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3100.

ADDITIONAL FLIGHT DATA:
FAS OBST: 555 AAO 363655N/1192527W.
DISTANCE TO THLD FROM 250 HAT: 0.64 NM.
CHART VDP AT 1.00 NM TO RW34*
***LNAV ONLY.**
WAAS CHANNEL # 99641
REFERENCE PATH ID: W34A
CHART CIRCLING ICON.
LTP HAE: 86.2 M

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. **HOLD SE DEICE, RT, 335.03 INBOUND, 3100 FT. IN LIEU OF PT (IAF)**
3. FAC: **335.01** FAF: **WILPU** DIST FAF TO MAP: **5.23** THLD: **5.23**
4. MIN. ALT: **DEICE 3100, WILPU 2100**
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: **2100** GS ALT AT: **WILPU 2100** OM: ____ MM: ____ IM: ____
7. GS ANGLE: **3.00** TCH: **49.0** **20:1 IS CLEAR 34:1 IS NOT CLEAR**
8. MSA FROM: **RW34 10400**

MAG VAR: **13E** EPOCH YEAR: **2020**

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	**636**	**3/4**	**250**	**636**	**3/4**	**250**		**NA**			**NA**				
LNAV/VNAV DA	**740**	**1**	**354**	**740**	**1**	**354**		**NA**			**NA**				
LNAV MDA	**860**	**1**	**474**	**860**	**1**	**474**		**NA**			**NA**				
CIRCLING	**860**	**1**	**474**	**860**	**1**	**474**		**NA**			**NA**				

NOTES:
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 54C (130F).
CHART NOTE: CIRCLING NA E OF RWY 16-34.
CHART NOTE: BARO-VNAV AND VDP NA WHEN USING FRESNO YOSEMITE INTL ALTIMETER SETTING.
CHART NOTE: RWY 34 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
(CONTINUED ON PAGE 2)

QUALITY 9 CHECKED

CITY AND STATE	AIRPORT	FACILITY IDENTIFIER	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
REEDLEY, CA	**ELEVATION: 386** **TDZE: 386** AIRPORT NAME: **REEDLEY MUNI**	**RNAV**	**RNAV (GPS) RWY 34, ORIG** 3 JANUARY 2019	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 aiport 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
WILPU (FAF)	RW34 (MAP) (TF) (FO) (RNP 0.30)	335.01 / 5.23	
RW34 (MAP)	860 MSL (CA)	335.01	860
860 MSL	DEICE (DF) (FO) (RNP 1.00)		3100

NOTES, (CONT.):
CHART NOTE: DME/DME RNP-0.3 NA.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE FRESNO YOSEMITE INTL ALTIMETER SETTING: INCREASE ALL DAS 41 FEET AND ALL VISIBILITIES 1/8 SM; INCREASE ALL MDAS 60 FEET.

QUALITY 9 CHECKED

CITY AND STATE	ELEVATION: 386 TDZE: 386 AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
REEDLEY, CA	REEDLEY MUNI	RNAV	RNAV (GPS) RWY 34, ORIG 3 JANUARY 2019	AMDT: NONE DATED:

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FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	O32
RUNWAY	RW34
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W34A
LTP/FTP LATITUDE	363959.6540N
LTP/FTP LONGITUDE	1192659.4495W
LTP/FTP ELLIPSOIDAL HEIGHT	+00862
FPAP LATITUDE	364126.9230N
FPAP LONGITUDE	1192722.4810W
THRESHOLD CROSSING HEIGHT (TCH)	00049.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1744
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	62A7920E

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+01171
FPAP ORTHOMETRIC HEIGHT	+01171

QUALITY 9 CHECKED

CITY AND STATE		FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	
REEDLEY, CA	ELEVATION: 386 TDZE: 386 AIRPORT NAME: REEDLEY MUNI	RNAV	RNAV (GPS) RWY 34, ORIG 3 JANUARY 2019	SUP: AMDT: NONE DATED:

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
TITLE 14 CFR PART 97.37

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CITY, STATE	AIRPORT	EFFECTIVE DATE	AMDT NO
REEDLEY, CA	REEDLEY MUNI	3 JANUARY 2019	ORIG

TAKEOFF MINIMUMS:
RWY 16, 34: STANDARD

TEXTUAL DEPARTURE PROCEDURES:
RWY 16: CLIMB ON A HEADING BETWEEN 132 CW TO 323 FROM DEPARTURE END OF RUNWAY.
RWY 34: CLIMB ON A HEADING BETWEEN 156 CW TO 320 FROM DEPARTURE END OF RUNWAY.

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:
NOTE: RWY 16: VEHICLES ON ROAD, TERRAIN, BUILDING AND VEGETATION BEGINNING 26 FT FROM DER, 309 FT LEFT OF CENTERLINE, UP TO 15 FT AGL/402 FT MSL.
TREE 1551 FT FROM DER, 778 FT RIGHT OF CENTERLINE, 431 FT MSL.
TREE 1648 FT FROM DER, 893 FT LEFT OF CENTERLINE, 461 FT MSL.
TREE 1737 FT FROM DER, 210 FT RIGHT OF CENTERLINE, 434 FT MSL.
TREE 2010 FT FROM DER, 189 FT LEFT OF CENTERLINE, 453 FT MSL.
TREES BEGINNING 2033 FT FROM DER, 615 FT LEFT OF CENTERLINE, UP TO 482 FT MSL.
TREE 2894 FT FROM DER, 630 FT LEFT OF CENTERLINE, 483 FT MSL.

NOTE: RWY 34: TREE 116 FT FROM DER, 376 FT RIGHT OF CENTERLINE, 403 FT MSL.
TREE 166 FT FROM DER, 499 FT RIGHT OF CENTERLINE, 406 FT MSL.
VEHICLES ON ROAD AND TREE BEGINNING 289 FT FROM DER, 329 FT RIGHT OF CENTERLINE, UP TO 407 FT MSL.

CONTROLLING OBSTACLES:
OBSTACLE MANDATING ODP ROUTE DEVELOPMENT:

RWY 16, 34: 13734 FEET MSL AAO 370612.00N/1184309.00W.

QUALITY 9 CHECKED

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
TITLE 14 CFR PART 97.37

Bearings, headings, courses, tracks and radials are magnetic. Elevations 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
REEDLEY, CA	REEDLEY MUNI	3 JANUARY 2019	ORIG

REMARKS:

FLIGHT INSPECTED BY: SCOTT A THOMPSON — *Digitally signed by* ***DEZ SILAGYI*** Aug 23, 2018 — **OFFICE SYMBOL:** FICO — **DATE:** 3/21/18

DEVELOPED BY: RUSS ROSLEWSKI — *Digitally signed by* ***RUSSELL ROSLEWSKI*** Dec 18, 2017 — **OFFICE SYMBOL:** AJV-5423 — **DATE:** 11/30/2017

APPROVED BY: JULIE MORGAN — *Digitally signed by* ***DEZ SILAGYI*** Aug 23, 2018 — **OFFICE SYMBOL:** AJV-5420 — **DATE:**

REQUIRED EFFECTIVE DATE:

CONCURRENT WITH AIRSPACE DOCKET 17-AWP-23

COORDINATED WITH:

A4A	ALPA	AOPA	APA	HAI	NBAA
☐	☒	☒	☐	☐	☒

OTHER:
ZOA, FAT APP CON, AIRPORT MANAGER

CHANGES - REASONS:

QUALITY 9 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.33

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Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or feet RVR.

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
FREMONT COUNTY	K1V6	RNAV (GPS) RWY 29	1	CANON CITY	CO

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
5442	5407	RNAV (GPS) Y RWY 29	ORIG-B	12/10/2015	8E	2020

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
RNAV		3 JANUARY 2019	ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
FSHER	IAF	ACZES		TF	FB	1.00	267.07	11.46	8000
ACZES	IF	CASAN		TF	FB	1.00	293.00	6.07	7200
CASAN	FAF	RW29	MAP	TF	FO	0.30	292.93	5.54	
RW29	MAP	5900 MSL		CA			292.93		5900
5900 MSL		PAKMN		DF	FB	1.00			
PAKMN		FSHER		TF	FO	1.00	086.84	17.16	8000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW29

MISSED APPROACH INSTRUCTIONS:

(DO NOT EXCEED 210 KIAS UNTIL PAKMN) CLIMB TO 5900 THEN CLIMBING LEFT TURN TO 8000 DIRECT PAKMN AND TRACK 086.84 TO FSHER AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY 25 CHECKED

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. PROFILE STARTS AT ACZES

3. FAC: 292.93 **FAF:** CASAN **DIST FAF TO MAP:** 5.54 **DIST FAF TO THLD:** 5.54

4. MIN ALT: ACZES 8000, CASAN 7200

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **250 HAT:** 0.69 **GS ANT:**

6. MIN GP INCPT: 7200 **GP ALT AT FAF :** CASAN 7200 **OM:** **MM:** **IM:**

7. GP ANGLE: 3.00 **34:1:** IS CLEAR **20:1:** IS CLEAR **TCH:** 55.0

8. MSA FROM: RW29 15300

PBN REQUIREMENTS NOTE:

RNP APCH

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -25C OR ABOVE 54C.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: CIRCLING NA N OF RWY 11-29.
CHART NOTE: CIRCLING NA TO RWY 35.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ACZES ON V244 WESTBOUND.

ADDITIONAL FLIGHT DATA:

CHART R-2601
CHART AIRBURST MOA A, B AND C
CHART LA VETA LOW MOA
CHART CIRCLING ICON.
CHART VDP AT 0.93 NM TO RW29*
*LNAV ONLY
WAAS CHANNEL #69530
REFERENCE PATH ID: W29A
CHART FAS OBST: 5461 TREE 382531N/1050447W.
HOLD SE, LT, 295.00 INBOUND
LTP HAE: 1623.4 M

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: **NA** ☐ STANDARD

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LPV DA	5657	3/4	250	5657	3/4	250	5657	3/4	250		NA				
LNAV/VNAV DA	5657	3/4	250	5657	3/4	250	5657	3/4	250		NA				
LNAV MDA	5720	1	313	5720	1	313	5720	7/8	313		NA				
CIRCLING	5800	1	358	5900	1	458	5980	1 1/2	538		NA				

QUALITY 25 CHECKED

CHANGES - REASONS

1. REMOVED THE Y FROM APPROACH NAME - THE OTHER RNAV APPROACH TO RWY 29 WAS CANCELED LEAVING ONLY ONE RNAV APPROACH TO RWY 29.
2. REMOVED FEEDER FROM FLOOD - FPT REQUEST.
3. REMOVED HOLD IN LIEU OF PROCEDURE TURN - FPT REQUEST.
4. AMENDED MISSED APPROACH - FPT REQUEST.
5. CHANGED MISSED APPROACH FROM CLIMB TO 5900 THE CLIMBING LEFT TURN TO 8000 DIRECT FSHER AND HOLD TO (DO NOT EXCEED 210 KIAS UNTIL PAKMN) CLIMB TO 5900 THEN CLIMBING LEFT TURN TO 8000 DIRECT PAKMN AND TRACK 086.84 TO FSHER AND HOLD - FACILITATE NEW MISSED APPROACH ROUTING/FPT REQUEST.
6. REMOVED BACKUP ALTIMETER NOTES FROM CHART NOTES AND MOVED TO THE - 9 - PER 8260.19 AWOS TRANSMITS TO WMSCR NO NOTE IS NEEDED.
7. CRC REMAINDER CHANGED, ROUTE INDICATOR CHANGED - REMOVED Y FROM APPROACH NAME.
8. REMOVED NIGHT RESTRICTIONS - P-NOTAM 5/3475.
9. DELETED HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NA NOTE - P-NOTAM 5/3475.
10. DELETED THRE 5382 AND ADDED TDZE 5407 - P-NOTAM 4/9080.
11. UPDATED LNAV HAT 313 ALL CATS - IAW P-NOTAM 4/9080.
12. CHANGED LNAV/VNAV DA AND HAT - CRITERIA CHANGE. OBSTACLE IS NOW IN THE LEVEL SURFACE INSTEAD OF THE SLOPING.
13. UPDATED LPV DA 5657 - P-NOTAM 4/9080.
14. CHANGED LNAV/VNAV VIS FROM 1 1/4 TO 3/4 - NEW VIS CHECK AND LOWER DA.
15. UPDATED CIRCLING MINIMUMS AND HAA - NEW CIRCLING CRITERIA.
16. CHANGED MAGVAR FROM 11E EPOCH 1995 TO 8E EPOCH 2020 - FPT REQUEST.

QUALITY 25 CHECKED

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZDV, DEN APP CON, AMGR

FLIGHT CHECKED BY		**OFFICE**	**DATE**
DANIEL C FAVORITE	*Digitally signed by* ***DAVID DANNER*** Oct 24, 2018	FICO	10/20/18
DEVELOPED BY		**OFFICE**	**DATE**
LONNIE EVERHART (JOHN BURCH)	*Digitally signed by* ***DAVID DANNER*** Oct 24, 2018	AJV-5400	06/19/2018
APPROVED BY		**OFFICE**	**DATE**
LONNIE EVERHART	*Digitally signed by* ***DAVID DANNER*** Oct 24, 2018	AJV-5400	

TITLE

MANAGER

QUALITY 25 CHECKED

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	1V6
RUNWAY	RW29
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W29A
LTP/FTP LATITUDE	382533.3610N
LTP/FTP LONGITUDE	1050601.5885W
LTP/FTP ELLIPSOIDAL HEIGHT	+16234
FPAP LATITUDE	382619.1140N
FPAP LONGITUDE	1050738.9250W
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	1104
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	253C4216

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+16404
FPAP ORTHOMETRIC HEIGHT	+16404

QUALITY 25 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

RNAV (RNP) STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.33

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated.
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AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
FREMONT COUNTY	K1V6	RNAV (RNP) RWY 11	ORIG-B	CANON CITY	CO

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
5442	5442	RNAV (RNP) RWY 11	ORIG-A	05/29/2014		

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
			ROUTINE	CANCEL

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE

PROCEDURE CANCELLED EFFECTIVE 3 JANUARY 2019

MISSED APPROACH

MAP:

MISSED APPROACH INSTRUCTIONS:

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2.

3. FAC: **PFAF:** **DIST PFAF TO MAP:** **DIST PFAF TO THLD:**

4. MIN ALT:

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **319 HAT:** **GS ANT:**

6. MIN GP INCPT: **GP ALT AT PFAF :** **OM:** **MM:** **IM:**

7. GP ANGLE: **34:1:** **20:1:** **TCH:**

8. MSA FROM:

PBN REQUIREMENTS NOTE:

NOTES:

QUALITY 25 CHECKED

ADDITIONAL FLIGHT DATA:

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA

CHANGES - REASONS

QUALITY 25 CHECKED

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
FREMONT COUNTY	K1V6	RNAV (RNP) RWY 11	ORIG-B	CANON CITY	CO

COORDINATED WITH:

A4A ☐ **ALPA** ☐ **AOPA** ☐ **APA** ☐ **HAI** ☐ **NBAA** ☐ **OTHER:** ZDV, DEN APP CON, AMGR

		OFFICE	DATE	
FLIGHT CHECKED BY				
DEVELOPED BY	*Digitally signed by* ***DAVID DANNER*** Oct 24, 2018	**OFFICE**	**DATE**	
LONNIE EVERHART (JOHN BURCH)		AJV-5400	06/04/2018	
APPROVED BY		**OFFICE**	**DATE**	**TITLE**
LONNIE EVERHART	*Digitally signed by* ***DAVID DANNER*** Oct 24, 2018	AJV-5400		Manager

QUALITY 25 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

RNAV (RNP) STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.33

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AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
FREMONT COUNTY	K1V6	RNAV (RNP) Z RWY 29	ORIG-B	CANON CITY	CO

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
5442	5407	RNAV (RNP) Z RWY 29	ORIG-A	05/29/2014		

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
			ROUTINE	CANCEL

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE

PROCEDURE CANCELLED EFFECTIVE 3 JANUARY 2019

MISSED APPROACH

MAP:

MISSED APPROACH INSTRUCTIONS:

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2.

3. FAC: **PFAF:** **DIST PFAF TO MAP:** **DIST PFAF TO THLD:**

4. MIN ALT:

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **250 HAT:** **GS ANT:**

6. MIN GP INCPT: **GP ALT AT PFAF :** **OM:** **MM:** **IM:**

7. GP ANGLE: **34:1:** **20:1:** **TCH:**

8. MSA FROM:

PBN REQUIREMENTS NOTE:

NOTES:

QUALITY 25 CHECKED

ADDITIONAL FLIGHT DATA:

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA

CHANGES - REASONS

QUALITY 25 CHECKED

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
FREMONT COUNTY	K1V6	RNAV (RNP) Z RWY 29	ORIG-B	CANON CITY	CO

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZDV, DEN APP CON, AMGR

FLIGHT CHECKED BY		**OFFICE**	**DATE**
DEVELOPED BY	*Digitally signed by* ***DAVID DANNER*** Oct 24, 2018	**OFFICE**	**DATE**
LONNIE EVERHART (JOHN BURCH)		AJV-5400	06/19/2018
APPROVED BY	*Digitally signed by* ***DAVID DANNER*** Oct 24, 2018	**OFFICE**	**DATE**
LONNIE EVERHART		AJV-5400	

TITLE

Manager

QUALITY 25 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.33

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AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
IGOR I SIKORSKY MEMORIAL	KBDR	RNAV (GPS) RWY 29	2	BRIDGEPORT	CT

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
9	7	RNAV (GPS) RWY 29	1B	11/08/2018	13W	1980

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
RNAV		3 JANUARY 2019	ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
MAD VOR/DME	IAF	MADDG		TF	FB	1.00	237.78	14.40	2000
CCC VOR/DME	IAF	MADDG		TF	FB	1.00	350.51	13.87	2000
MADDG	IF	SETHE		TF	FB	1.00	290.98	4.78	1500
SETHE	FAF	RW29	MAP	TF	FO	0.30	290.90	4.52	
RW29	MAP	500 MSL		CA			290.90		500
500 MSL		ZONKO		DF	FO	1.00			2000

MISSED APPROACH

MAP:

LNAV: RW29

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 500 THEN CLIMBING LEFT TURN TO 2000 DIRECT ZONKO AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. PROFILE STARTS AT MADDG

3. FAC: 290.90 **FAF:** SETHE **DIST FAF TO MAP:** 4.52 **DIST FAF TO THLD:** 4.52

4. MIN ALT: MADDG 2000, SETHE 1500

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **GS ANT:**

6. MIN GP INCPT: **GP ALT AT FAF :** **OM:** **MM:** **IM:**

7. GP ANGLE: **34:1:** IS NOT CLEAR **20:1:** IS NOT CLEAR **TCH:**

8. MSA FROM: RW29 2700

QUALITY 41 CHECKED

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: RWY 29 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON MAD VOR/DME AIRWAY RADIALS 155 CW 317.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON CCC VOR/DME AIRWAY RADIALS 263 CW 057.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
SETHE TO RW29: 3.00/55.
FAS OBST: 125 SHIP 410936N/0730422W.
HOLD SW, RT, 064.00 INBOUND

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ STANDARD - CAT C 900-2 1/2, CAT D 900-2 3/4

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LNAV MDA	380	1	373	380	1	373	380	1	373	380	1	373			
CIRCLING	480	1	471	620	1	611	820	2 1/2	811	820	2 3/4	811			

CHANGES - REASONS

1. CHANGED MISSED APPROACH FROM "CLIMB TO 500 THEN CLIMBING RIGHT TURN TO 2600 DIRECT BAYYS AND HOLD" TO "CLIMB TO 500 THEN CLIMBING LEFT TURN TO 2000 DIRECT ZONKO AND HOLD.". - PER ATC REQUEST FOR AIRSPACE CONSTRAINTS.
2. MOVED SETHE (PFAF) 2.33FT NORTH. - USED TARGETS TO PLACE PFAF.

QUALITY 41 CHECKED

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZBW, N90 APP, BDR ATCT, AIRPORT MANAGER

FLIGHT CHECKED BY	OFFICE	DATE	
STEPHEN BAUER	FICO	10/10/18	*Digitally signed by* ***ALLAN WILL*** Oct 16, 2018

DEVELOPED BY	OFFICE	DATE	
LONNIE EVERHART (NICK PETTIET)	AJV-5400	09/18/2018	*Digitally signed by* ***ALLAN WILL*** Oct 16, 2018

APPROVED BY	OFFICE	DATE		TITLE
LONNIE EVERHART	AJV-5400		*Digitally signed by* ***ALLAN WILL*** Oct 16, 2018	MANAGER

QUALITY 41 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.29

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AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
WATERBURY-OXFORD	KOXC	ILS OR LOC RWY 36	15	OXFORD	CT

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
730	721	ILS OR LOC RWY 36	14B	02/01/2018	14W	1995

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
I-OXC		3 JANUARY 2019	01/03/2019	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
BDR VOR/DME	IAF	CUTMA/I-OXC 12.60 DME					023.35	7.33	2500
CUTMA/I-OXC 12.60 DME	IF	DAAVY/I-OXC 6.50 DME					004.77	6.10 (I-OXC)	2500

MISSED APPROACH

MAP:

ILS: DA
LOC: RW36

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 ON HEADING 005 AND MAD VOR/DME R-317 TO ZATMI INT/MAD 24.87 DME AND HOLD. CONTINUE CLIMB-IN-HOLD TO 3000.

ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):

CLIMB TO 1260, THEN CLIMBING LEFT TURN TO 2500 DIRECT DAAVY AND HOLD (GPS REQ).

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. PROFILE STARTS AT CUTMA

3. FAC: 004.77 **FAF:** DAAVY/I-OXC 6.50 DME **DIST FAF TO MAP:** **DIST FAF TO THLD:** 5.52

4. MIN ALT: CUTMA/I-OXC 12.60 DME 2500, DAAVY/I-OXC 6.50 DME 2500, HUMOM/I-OXC 2.78 DME 1220*

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **GS ANT:** 869

6. MIN GS INCPT: 2500 **GS ALT AT FAF :** DAAVY/I-OXC 6.50 DME 2500 **OM:** **MM:** **IM:**

7. GP ANGLE: 3.00 **34:1:** **20:1:** **TCH:** 55.5

8. MSA FROM: BDR VOR/DME 090-270 1900, 270-090 2800

EQUIPMENT REQUIREMENTS NOTES:

DME REQUIRED.

QUALITY 18 CHECKED

NOTES:

CHART NOTE: RWY 36 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART PROFILE NOTE: GS UNUSABLE BELOW 965 MSL.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON BDR VOR/DME AIRWAY RADIALS 336 CW 077.

ADDITIONAL FLIGHT DATA:

CHART ALTERNATE MA HOLDING, HOLD S DAAVY, RT, 004.77 INBOUND
CHART CIRCLING ICON.
CHART VDP AT 2.24 DME*
DISTANCE VDP TO THLD 1.25 NM
* LOC ONLY
CHART FAS OBST: 798 TREE 412740N/0730744W.
HOLD SE, RT, 317.05 INBOUND

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: **NA** [X]

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
S-ILS 36	971	3/4	250	971	3/4	250	971	3/4	250	971	3/4	250			
S-LOC 36	1140	1	419	1140	1	419	1140	1 1/8	419	1140	1 1/8	419			
CIRCLING	1300	1	570	1300	1	570	1380	1 3/4	650	1460	2 1/4	730			

CHANGES - REASONS

1. MOVED DME AND ADF REQUIRED NOTES FROM AFD BLOCK, TO EQUIPMENT REQUIREMENTS SECTION. - NEW CRITERIA
2. CHANGED LOC MDA FROM 1100 TO 1140 - NEW MISSED APPROACH PENETRATION.
3. CHANGED LOC HAT FROM 379 TO 419 - NEW CONTROLLING OBSTACLE FROM NEW SURVEY.
4. CHANGED CIRCLING CATS A & B MDA FROM 1420 TO 1300 - NEW CONTROLLING OBSTACLE FROM NEW SURVEY.
5. CHANGED CIRCLING CAT C MDA FROM 1460 TO 1380 - NEW CONTROLLING OBSTACLE FROM NEW SURVEY.
6. CHANGED CIRCLING CAT D MDA FROM 1560 TO 1460 - NEW CONTROLLING OBSTACLE FROM NEW SURVEY.
7. CHANGED CIRCLING CATS A & B HAA FROM 694 TO 570 - NEW CONTROLLING OBSTACLE FROM NEW SURVEY.
8. CHANGED CIRCLING CAT C HAA FROM 734 TO 650 - NEW CONTROLLING OBSTACLE FROM NEW SURVEY.
9. CHANGED CIRCLING CAT D HAA FROM 834 TO 710 - NEW CONTROLLING OBSTACLE FROM NEW SURVEY.
10. CHANGED CIRCLING CAT C VISIBILITY FROM 2 TO 1 3/4 - NEW CONTROLLING OBSTACLE FROM NEW SURVEY.
11. CHANGED CIRCLING CAT D VISIBILITY FROM 2 3/4 TO 2 1/4 - NEW CONTROLLING OBSTACLE FROM NEW SURVEY.
12. MOVED REMOTE ALTIMETER MINIMUMS TO PART C: GENERAL REMARKS - UPDATED FORMS.
13. CHANGED MISSED APPROACH CLEARANCE LIMIT FROM JWE NDB TO DAAVY/I-OXC DME - JWE NDB BEING DECOMMISSIONED.
14. CHANGED MISSED APPROACH INSTRUCTIONS FROM CLIMB TO 1260 THEN CLIMBING LEFT TURN TO 2500 DIRECT JWE NDB AND HOLD. TO CLIMB TO 3000 ON HEADING 005 AND MAD VOR/DME R317 TO ZATMI/MAD 24.87 DME AND HOLD. CONTINUE CLIMB-IN-HOLD TO 3000. - PROCEDURAL CHANGE PER ATC REQUEST.
15. CHANGED ALTERNATE MISSED APPROACH INSTRUCTIONS FROM CLIMB TO 1400 THEN CLIMBING LEFT TURN TO 3000 ON HEADING 350 AND BDR VOR/DME R-009 TO CLIMB TO 1260, THEN CLIMBING LEFT TURN DIRECT DAAVY AND HOLD (GPS REQ). - PROCEDURAL CHANGE PER ATC REQUEST.

QC PDF EDITS:
-VDP CHANGED FROM 1.99 TO 2.24 DME, DIST TO THLD FROM 1.00 TO 1.25.
-S-LOC 36 CAT A/B VISIBILITY CHANGED FROM 1 1/8 TO 1 SM.
-CHANGE #3 HAT CHANGED FROM 499 TO 419.

QUALITY 18 CHECKED

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZBW, NYC APP CON, AMGR

FLIGHT CHECKED BY	OFFICE	DATE	TITLE
PENDING		*Digitally signed by* ***ROBERT G HAMILTON*** Oct 25, 2018	
DEVELOPED BY	**OFFICE**	**DATE**	
LONNIE EVERHART (KEITH CTR JONES)	AJV-5400	06/19/2018	
APPROVED BY	**OFFICE**	**DATE**	**TITLE**
LONNIE EVERHART	AJV-5400	*Digitally signed by* ***ROBERT G HAMILTON*** Oct 25, 2018	MANAGER

QUALITY 18 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.33

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AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
WATERBURY-OXFORD	KOXC	RNAV (GPS) RWY 18	3	OXFORD	CT

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
730	730	RNAV (GPS) RWY 18	2	01/07/2016	14W	1995

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
RNAV		3 JANUARY 2019	01/03/2019	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
PWL VOR/DME		MOONI		TF	FB	1.00	137.44	15.02	3000
MOONI	IAF	WEXNO	NOPT	TF	FB	1.00	094.68	6.83	3000
BISCO	IAF	WEXNO	NOPT	TF	FB	1.00	270.10	6.52	3000
WEXNO	IF/IAF	ARQEB		TF	FB	1.00	184.76	5.45	2200
ARQEB	FAF	GICEN/2.55 NM TO RW18		TF	FB	0.30	184.77	1.94	
GICEN/2.55 NM TO RW18		RW18	MAP	TF	FO	0.30	184.77	2.55	
RW18	MAP	1130 MSL		CA			184.77		
1130 MSL		CUTMA		DF	FO	1.00			2500

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW18

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2500 DIRECT CUTMA AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY 18 CHECKED

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. HOLD N WEXNO, RT, 184.76 INBOUND, 3000 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 184.77 **FAF:** ARQEB **DIST FAF TO MAP:** 4.48 **DIST FAF TO THLD:** 4.48

4. MIN ALT: WEXNO 3000, ARQEB 2200, GICEN/2.55 NM TO RW18 1580*

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **414 HAT:** 1.15 **GS ANT:**

6. MIN GP INCPT: 2200 **GP ALT AT FAF :** ARQEB 2200 **OM:** **MM:** **IM:**

7. GP ANGLE: 3.00 **34:1:** IS NOT CLEAR **20:1:** IS CLEAR **TCH:** 47.0

8. MSA FROM: RW18 3100

PBN REQUIREMENTS NOTE:

RNP APCH

NOTES:

CHART NOTE: RWY 18 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON PWL VOR/DME AIRWAY RADIALS 055 CW 216.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT MOONI ON V58-167 WESTBOUND, V34 NORTHWEST BOUND AND V91-487 NORTHBOUND.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON
CHART VDP AT 1.45 NM TO RW18*
*LNAV ONLY
WAAS CHANNEL #42901
REFERENCE PATH ID: W18A
CHART FAS OBST: 980 TREE 412922N/0730727W.
HOLD S, RT, 004.81 INBOUND
LTP HAE: 193.2 M

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: **NA** ☐ STANDARD - CAT D 800-2 1/4

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LPV DA	1140	1 1/8	410	1140	1 1/8	410	1140	1 1/8	410	1140	1 1/8	410			
LNAV/VNAV DA	1141	1 1/8	411	1141	1 1/8	411	1141	1 1/8	411	1141	1 1/8	411			
LNAV MDA	1240	1	510	1240	1	510	1240	1 3/8	510	1240	1 3/8	510			
CIRCLING	1300	1	570	1300	1	570	1380	1 3/4	650	1460	2 1/4	730			

QUALITY 18 CHECKED

CHANGES - REASONS

1. CHANGED ADDITIONAL FLIGHT DATA: FROM CHART VDP AT 1.41 NM TO RW18* TO CHART VDP AT 1.45 TO RW18*. - LNAV MDA INCREASED.
2. CHANGED ADDITIONAL FLIGHT DATA: FROM CHART FAS OBST: 964 TREE 412921N/0730728W TO CHART FAS OBST: 980 TREE 412922N/0730727W. - MAP STUDY.
3. CHANGED LPV HAT FROM 414 TO 410 ALL CATS - MISSED APPROACH ADJUSTMENT LOWERED.
4. CHANGED LNAV/VNAV DA FROM 1146 TO 1141 AND HAT FROM 420 TO 411 ALL CATS - NEW CONTROLLING OBSTACLE WITH 1A ACCURACY CODE.
5. CHANGED LNAV LINE OF MINIMA FROM 1220-1 494(500-1) TO 1240 1 510(600-1) ALL CATS - TERRAIN VERIFIED WITH QUAD CHART, ACCURACY ADJUSTMENT ELIMINATED.
6. CHANGED CIRCLING LINE OF MINIMA FROM 1420-1 694(700-1) TO 1300-1 570(700-1) CATS A AND B - TERRAIN VERIFIED WITH QUAD CHART, ACCURACY ADJUSTMENT ELIMINATED.
7. CHANGED CIRCLING LINE OF MINIMA FROM 1460-2 734(800-2) TO 1380 1 3/4 650(700-2) CAT C - TERRAIN VERIFIED WITH QUAD CHART, ACCURACY ADJUSTMENT ELIMINATED.
8. CHANGED CIRCLING LINE OF MINIMA FROM 1560-2 3/4 834(900-2 3/4) TO 1460-2 1/4 730(800-2 1/4) CAT D - TERRAIN VERIFIED WITH QUAD CHART, ACCURACY ADJUSTMENT ELIMINATED.
9. ADDED 34:1 OBSTACLE PENETRATIONS - NEW OBSTACLE SURVEY.
10. ADDED CHART NOTE: RWY 18 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. - NEW 34:1 PENETRATIONS.
11. BACKUP ALTIMETER NOTES MOVED TO PART C: GENERAL REMARKS - CRITERIA UPDATE.
12. CHANGED GICEN TO RWY18 DISTANCE FROM 2.60NM TO 2.55NM - NEW THRESHOLD LOCATION.
13. CHANGED BISCO TO WEXNO INITIAL COURSE/DISTANCE FROM 270.08/6.00 TO 270.10/6.52 - TO ALLOW 90 TURN TO INITIAL.
14. WEXNO TO ARQEB DISTANCE CHANGED FROM 5.50NM TO 5.45NM - PFAF MOVED TO ALIGN WITH 3 DEGREE GLIDE SLOPE.
15. ARQEB TO GICEN DISTANCE CHANGED FROM 1.89NM TO 1.93NM - PFAF MOVED TO ALIGN WITH 3 DEGREE GLIDE SLOPE.
16. FPAP LATITUDE CHANGED FROM 412739.1780N TO 412946.3560N
17. FPAP LONGITUDE CHANGED FROM 0730753.1590W TO 0730820.9425W.
18. CRC REMAINDER CHANGED FROM D9A34573 TO 656C42A1 - FPAP LOCATION CHANGED.
19. LENGTH OF OFFSET CHANGED FROM 1072 TO 984 - FPAP LOCATION CHANGED.
19. TCH CHANGED FROM 43.8 TO 47 - ALIGNED WITH VGSI GS.
20. REMOVED CHART PLANVIEW NOTE AT BISCO : RADAR REQUIRED - RADAR NO LONGER REQUIRED FOR PROCEDURE.

COORDINATED WITH:

A4A [X] **ALPA** [X] **AOPA** [X] **APA** [X] **HAI** [ ] **NBAA** [X] **OTHER:** ZBW, NYC APP CON, OXC ATCT, AMGR

FLIGHT CHECKED BY	OFFICE	DATE	
PENDING			

DEVELOPED BY	OFFICE	DATE	
LONNIE EVERHART (KEITH CTR JONES)	AJV-5400	06/19/2018	*Digitally signed by* ***ROBERT G HAMILTON*** Oct 25, 2018

APPROVED BY	OFFICE	DATE	TITLE
LONNIE EVERHART	AJV-5400	*Digitally signed by* ***ROBERT G HAMILTON*** Oct 25, 2018	MANAGER

QUALITY 18 CHECKED

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KOXC
RUNWAY	RW18
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W18A
LTP/FTP LATITUDE	412910.0910N
LTP/FTP LONGITUDE	0730812.7680W
LTP/FTP ELLIPSOIDAL HEIGHT	+01932
FPAP LATITUDE	412946.3560N
FPAP LONGITUDE	0730820.9425W
THRESHOLD CROSSING HEIGHT (TCH)	00047.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0984
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	656C42A1

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+02225
FPAP ORTHOMETRIC HEIGHT	+02225

QUALITY 18 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.33

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

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
WATERBURY-OXFORD	KOXC	RNAV (GPS) RWY 36	3	OXFORD	CT

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
730	721	RNAV (GPS) RWY 36	2A	07/24/2014	14W	1995

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
RNAV		3 JANUARY 2019	01/03/2019	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
ZATMI		CUTMA		TF	FO	1.00	184.77	16.08	2500
MUVGE	IAF	CUTMA	NOPT	TF	FB	1.00	297.56	9.41	2500
BDR VOR/DME	IAF	CUTMA	NOPT	TF	FB	1.00	025.35	7.33	2500
CUTMA	IF/IAF	DAAVY		TF	FB	1.00	004.82	6.10	2500
DAAVY	FAF	HUMOM/1.80 NM TO RW36		TF	FB	0.30	004.79	3.72	
HUMOM/1.80 NM TO RW36		RW36	MAP	TF	FO	0.30	004.79	1.80	
RW36	MAP	971 MSL		CA	FB		004.79		
971 MSL		ZATMI		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW36

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT ZATMI AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY 18 CHECKED

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. HOLD S CUTMA, RT, 004.81 INBOUND, 2500 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 004.78 **FAF:** DAAVY **DIST FAF TO MAP:** 5.52 **DIST FAF TO THLD:** 5.52

4. MIN ALT: CUTMA 2500, DAAVY 2500, HUMOM/1.80 NM TO RW36 1300*

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **250 HAT:** 0.72 **GS ANT:**

6. MIN GP INCPT: 2500 **GP ALT AT FAF :** DAAVY 2500 **OM:** **MM:** **IM:**

7. GP ANGLE: 3.00 **34:1:** IS NOT CLEAR **20:1:** IS CLEAR **TCH:** 55.5

8. MSA FROM: RW36 3100

PBN REQUIREMENTS NOTE:

RNP APCH

NOTES:

CHART NOTE: RWY 36 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON BDR VOR/DME AIRWAY RADIALS 336 CW 054.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ZATMI ON V34 NORTHWEST BOUND.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
CHART VDP AT 1.18 NM TO RW36*
*LNAV ONLY
WAAS CHANNEL #72922
REFERENCE PATH ID: W36A
CHART FAS OBST: 859 TREE 412754N/0730726W.
HOLD W, RT, 090.00 INBOUND
LTP HAE: 179.7 M

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: **NA** ☐ STANDARD - CAT D 800-2 1/4

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LPV DA	971	3/4	250	971	3/4	250	971	3/4	250	971	3/4	250			
LNAV/VNAV DA	1097	1	376	1097	1	376	1097	1	376	1097	1	376			
LNAV MDA	1120	1	399	1120	1	399	1120	1 1/8	399	1120	1 1/8	399			
CIRCLING	1300	1	570	1300	1	570	1380	1 3/4	650	1460	2 1/4	730			

QUALITY 18 CHECKED

CHANGES - REASONS

1. CHANGED LNAV/VNAV DA FROM 1094 TO 1097 - NEW CONTROLLING OBSTACLE.
2. CHANGED LNAV/VNAV VISIBILITY FROM 1 1/4 TO 1 - NEW CONTROLLING OBSTACLE.
3. CHANGED LNAV/VNAV HAT FROM 373 TO 376 - NEW CONTROLLING OBSTACLE.
4. CHANGED LNAV VISIBLITY FOR CAT C AND D FROM 1 1/4 TO 1 1/8 - NEW CONTROLLING OBSTACLE.
5. CHANGED CIRCLING MDA CATS A AND B FROM 1280 TO 1300 AND CAT C FROM 1280 TO 1380 AND CAT D FROM 1320 TO 1160 - TERRAIN VERIFIED WITH QUAD CHART, ACCURACY ADJUSTMENT ELIMINATED.
6. CHANGED CIRCLING VISIBILITY CAT C FROM 1 1/2 TO 2 3/4 AND CAT D FROM 2 TO 2 1/4 - NEW CONTROLLING OBSTACLE.
7. CHANGED CIRCLING HAA CATS A AND B FROM 554 TO 570 AND CAT C FROM 554 TO 650 AND CAT D FROM 594 TO 730 - NEW CONTROLLING OBSTACLE.
8. CHANGED ADDITIONAL FLIGHT DATA: FROM CHART VDP AT 1.19 NM TO RW36* TO CHART VDP AT 1.18 TO RW36* - THRESHOLD LOCATION CHANGED.
9. REMOVED CHART FAS OBST: 786 TOWER 412720N/0730803W FROM ADDITIONAL FLIGHT DATA - CRITERIA UPDATE.
10. CHANGED CHART NOTE: RWY 18 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. - NEW 34:1 PENETRATIONS.
11. LTP/FTP LONGITUDE CHANGED FROM 0730801.6180W TO 0730801.6010W. - THRESHOLD LOCATION AND HEIGHT CHANGED.
12. LTP/FTP ELLIPSOIDAL HEIGHT CHANGED FROM +01796 TO +01797. - THRESHOLD LOCATION AND HEIGHT CHANGED.
13. FPAP LONGITUDE CHANGED FROM 0730820.6200W TO 0730820.5955W. - THRESHOLD LOCATION AND HEIGHT CHANGED.
14. THRESHOLD CROSSING HEIGHT (TCH) CHANGED FROM 00055.8 TO 00055.5 - THRESHOLD LOCATION AND HEIGHT CHANGED.
15. LENGTH OFFSET CHANGED FROM 1136 TO 0984 - THRESHOLD LOCATION AND HEIGHT CHANGED.
16. CRC REMAINDER CHANGED FROM 7E42E16B TO 54F91AA2 - MULTIPLE FAS ITEMS CHANGED - THRESHOLD LOCATION AND HEIGHT CHANGED.

COORDINATED WITH:

A4A [X] **ALPA** [X] **AOPA** [X] **APA** [ ] **HAI** [ ] **NBAA** [X] **OTHER:** ZBW, OXC ATCT, NYC APP CON, AMGR

FLIGHT CHECKED BY	OFFICE	DATE	
PENDING			

DEVELOPED BY	OFFICE	DATE	
LONNIE EVERHART (KEITH CTR JONES)	AJV-5400	07/17/2018	*Digitally signed by* ***ROBERT G HAMILTON*** Oct 25, 2018

APPROVED BY	OFFICE	DATE		TITLE
LONNIE EVERHART	AJV-5400		*Digitally signed by* ***ROBERT G HAMILTON*** Oct 25, 2018	MANAGER

QUALITY 18 CHECKED

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KOXC
RUNWAY	RW36
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W36A
LTP/FTP LATITUDE	412818.4050N
LTP/FTP LONGITUDE	0730801.6010W
LTP/FTP ELLIPSOIDAL HEIGHT	+01797
FPAP LATITUDE	412946.3985N
FPAP LONGITUDE	0730820.5955W
THRESHOLD CROSSING HEIGHT (TCH)	00055.5
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0984
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	54F91AA2

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+02091
FPAP ORTHOMETRIC HEIGHT	+02091

QUALITY 18 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.29

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

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
IDAHO FALLS RGNL	KIDA	ILS OR LOC RWY 21	12	IDAHO FALLS	ID

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
4744	4735	ILS OR LOC RWY 20	11I	02/01/2018	12E	2020

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
I-IDA	433000.68N / 1120515.75W	3 JANUARY 2019	ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
IDA VOR/DME		WOTES/I-IDA 7.69 DME					021.87	6.16	7100
DBS VORTAC	IAF	YAGUP INT/I-IDA 13.76 DME	NOPT				135.63	28.07	6700
YAGUP INT/I-IDA 13.76 DME	IF	WOTES/I-IDA 7.69 DME	PFAF				206.02	6.07 (I-IDA)	6700

MISSED APPROACH

MAP:

ILS: DA
LOC: RW21

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 7000 ON IDA VOR/DME R-204 TO VIPUC/12.75 DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT L **SIDE OF COURSE** 026.02 **OUTBOUND** 6800 **FT WITHIN** 15 **MILES OF** WOTES (IAF)

2.

3. FAC: 206.02 **PFAF:** WOTES/I-IDA 7.69 DME **DIST PFAF TO MAP:** 6.03 **DIST PFAF TO THLD:** 6.03

4. MIN ALT: WOTES/I-IDA 7.69 DME 6700

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **GS ANT:** 894

6. MIN GS INCPT: 6700 **GS ALT AT PFAF :** WOTES/I-IDA 7.69 DME 6700 **OM:** **MM:** **IM:**

7. GP ANGLE: 3.00 **34:1:** **20:1:** **TCH:** 49.1

8. MSA FROM: IDA VOR/DME 030-120 9200, 120-210 8800, 210-300 7800, 300-030 7100

EQUIPMENT REQUIREMENTS NOTES:

DME REQUIRED.

NOTES:

QUALITY 16 CHECKED

CHART NOTE: * RVR 1800 AUTHORIZED WITH THE USE OF FD OR AP OR HUD TO DA
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-ILS 21 ALL CATS VISIBILITY TO RVR 4000 AND S-LOC 21 ALL CATS VISIBILITY TO RVR 5500.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
CHART: 4989 TOWER 433539N/1115825W.
HOLD SW, RT, 022.90 INBOUND

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ ILS: STANDARD; LOC: STANDARD - CAT D 800-2 1/4, CAT E 800-2 1/2, NA WHEN CONTROL TOWER CLOSED.

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
S-ILS 21	4935	2400	200	4935	2400	200	4935	2400	200	4935	2400	200	4935	2400	200
S-LOC 21	5040	2400	305	5040	2400	305	5040	2400	305	5040	2400	305	5040	2400	305
CIRCLING	5200	1	456	5300	1	556	5400	1 3/4	656	5420	2 1/4	676	5420	2 1/2	676

CHANGES - REASONS

1. CHANGED PROCEDURE NAME FROM ILS OR LOC RWY 20 TO ILS OR LOC RWY 21 - MAG VAR UPDATE.
2. CHANGED FINAL APPROACH COURSE ALIGNMENT FROM 203.02M TO 206.02M - MAGNETIC VARIATION CHANGE.
3. AMENDED MSA CENTERPOINT AND ALTITUDES TO PUBLISHED IDA VOR MSA VALUES - UCONN LOM DECOMMISSIONED.
4. DELETED FEEDER FROM TERRE TO UCONN LOM - UCONN LOM DECOMMISSIONED.
5. UPDATED FEEDER FROM IDA VOR END POINT TO WOTES FIX - UCONN LOM DECOMMISSIONED.
6. UPDATED CIRCLING CONTROLLING OBSTACLES FOR ALL CATS - NEW CIRCLING CRITERIA APPLIED.
7. RAISED CMDA/HAA CAT B FROM 5220/476 TO 5300/556, CAT C FROM 5260/516 TO 5400/656 AND CAT D FROM 5400/656 TO 5420/676 - NEW CONTROLLING OBST WITH NEW CIRCLING CRITERIA APPLIED.
8. RAISED CIRCLING VISIBILITY CAT C FROM 1 1/2 TO 1 3/4 AND CAT D FROM 2 TO 2 1/4 - VISCHECK VALUES/NEW CIRCLING CRITERIA APPLIED.
9. UPDATED CHARTED FAS OBST - NEW OBSTACLE EVALUATION.
10. ADDED EQUIPMENT NOTE: DME REQUIRED - UCONN LOM DECOMMISSIONED.
11. ADDED NOTE: CHART CIRCLING ICON - NEW CIRCLING CRITERIA APPLIED.
12. UPDATED FEEDER SEGMENT MINIMUM ALTITUDE FROM 7000 FT TO 7100 FT - APPLIED ROUNDING PER 8260-3C SEC 2-3-1 PARA C.
13. UPDATED FEEDER SEGMENT CONTROLLING OBST IDENTIFICATION NUMBER/MSL FROM 13-021/5234 TO 16-000021/5238 - NEW SURVEY DATA.
14. LOWERED LOCALIZER MDA/HAA FROM 5140 FT/ 405 FT TO 5040 FT/ 305FT - NEW OBSTACLE EVALUATION.
15. LOWERED LOCALIZER VISIBILITY CAT C/D/E FROM 4000 RVR TO 2400 RVR - NEW VISCHECK VALUES.
16. LOWERED LOCALIZER VISIBILITY CAT C/D/E USING ALTERNATE ALTIMETER FROM 5000 RVR TO 2400 RVR - NEW VISCHECK VALUES.
17. RAISED CIRCLING CAT D ALTERNATE ALTIMETER VISIBILITY FROM 2 ¼ SM TO 2 ½ SM - NEW VISCHECK VALUES/NEW CIRCLING CRITERIA APPLIED.
18. UPDATED MISSED APPROACH INSTRUCTIONS FROM "CLIMB TO 7000, THEN RIGHT TURN DIRECT IDA VOR/DME AND HOLD" TO "CLIMB 7000 ON I-IDA COURSE SW DIRECT VIPUC 11 DME AND HOLD".
19. UPDATED MISSED APPROACH HOLDING POINT FROM IDA VOR TO VIPUC (RWY 03 IF) - FPT REQUEST.
20. REMOVED ALERNATE MISSED APPROACH PROCEDURE - LACK OF AVAILABLE NAVAIDS/FPT REQUEST.
21. MOVED ALSTG NOTE TO BACK OF 8260-9 FORM - FPT REQUEST.

10/19/2018: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON: 06/14/2018:
1. CHANGED MISSED APPROACH INSTRUCTIONS FROM: CLIMB TO 7000 ON I-IDA LOCALIZER SW COURSE (206) AND ON IDA VOR/DME R-203.58 TO VIPUC/IDA VOR/DME 12.75 DME AND HOLD, TO: CLIMB TO 7000 ON IDA VOR/DME R-204 TO VIPUC/12.75 DME AND HOLD.

PDF EDITS
-FORM 8260-9 PAGE 6 OF 9, PART B: SUPPLEMENTAL DATA: EDITED BOTH SERVICE-A FROM "N" TO "Y".
-FORM 8260-3 PAGE 2 OF 3, MINIMA TABLE: ADDED ASTERISK TO S-ILS 21.
-FORM 8260-9, PAGE 4 OF 9, PRCEDURE TURN, FROM: ADDED "/I-IDA 7.69 DME" TO "WOTES".

QUALITY 16 CHECKED

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
IDAHO FALLS RGNL	KIDA	ILS OR LOC RWY 21	12	IDAHO FALLS	ID

COORDINATED WITH:

A4A [X] **ALPA** [X] **AOPA** [X] **APA** [ ] **HAI** [ ] **NBAA** [X] **OTHER:** ZLC, IDA ATCT, AMGR, IDA FSS.

FLIGHT CHECKED BY		OFFICE	DATE
DANIEL CHARLES FAVORITE	*Digitally signed by* ***WARDELL HENNING*** Oct 23, 2018	FIOG	10/03/2018
DEVELOPED BY		**OFFICE**	**DATE**
LONNIE EVERHART (SCOTT LINDHOLM)	*Digitally signed by* ***WARDELL HENNING*** Oct 23, 2018	AJV-5400	06/14/2018
APPROVED BY		**OFFICE**	**DATE**
LONNIE EVERHART	*Digitally signed by* ***WARDELL HENNING*** Oct 23, 2018	AJV-5400	

TITLE

MANAGER

QUALITY 16 CHECKED

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
LOC BC STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.25

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

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
IDAHO FALLS RGNL	KIDA	LOC BC RWY 3	7	IDAHO FALLS	ID

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
4744	4744	LOC BC RWY 2	6C	04/28/2016	12E	2020

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
I-IDA	433000.68N / 1120515.75W	3 JANUARY 2019	ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
IDA VOR/DME		CHYME/I-IDA 5.18 DME					204.08	6.71	7100
PIH VOR/DME	IAF	FEGAP/I-IDA 20.18 DME	NOPT				012.39	25.12	6700
FEGAP/I-IDA 20.18 DME	IF	CHYME/I-IDA 5.18 DME					026.01	15.00 (I-IDA)	6500

MISSED APPROACH

MAP:

LOC: FEBED/I-IDA 0.50 DME FIX

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 7000 ON I-IDA LOCALIZER NE COURSE 026.01 TO YAGUP/I-IDA 13.76 DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT R **SIDE OF COURSE** 206.01 **OUTBOUND** 6500 **FT WITHIN** 15 **MILES OF** CHYME (IAF)

2.

3. FAC: 026.01 **FAF:** CHYME/I-IDA 5.18 DME **DIST FAF TO MAP:** 4.68 **DIST FAF TO THLD:** 5.36

4. MIN ALT: CHYME/I-IDA 5.18 DME 6500

8. MSA FROM: IDA VOR/DME 030-120 9200, 120-210 8800, 210-300 7800, 300-030 7100

EQUIPMENT REQUIREMENTS NOTES:

DME REQUIRED.

NOTES:

CHART PROFILE NOTE: DISREGARD GS INDICATIONS.
CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON IDA VOR/DME AIRWAY RADIALS 207 CW 233.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON PIH VOR/DME AIRWAY RADIALS 318 CW 358.

QUALITY 16 CHECKED

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
IDAHO FALLS RGNL	KIDA	LOC BC RWY 3	7	IDAHO FALLS	ID

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
CHYME TO RW3: 3.00/50.
CHART FAS OBST: 4829 TREE 432939N/1120546W.
HOLD NE, RT, 206.14 INBOUND

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ LOC: STANDARD - CAT D 800-2 1/4, CAT E 800-2 1/2, NA WHEN CONTROL TOWER CLOSED.

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
S-LOC 03	5080	1	336	5080	1	336	5080	1	336	5080	1	336	5080	1	336
CIRCLING	5200	1	456	5300	1	556	5400	1 3/4	656	5420	2 1/4	676	5420	2 1/2	676

CHANGES - REASONS

1. AMENDED PROCEDURE NAME FROM LOC BC RWY 2 TO LOC BC RWY 3 - MAGVAR UPDATE.
2. UPDATED CIRCLING CONTROLLING OBSTS FOR ALL CATS - NEW CIRCLING CRITERIA APPLIED.
3. AMENDED CAT B CMDA/HAA FROM 5220/476 TO 5300/556, CAT C CMDA FROM 5260/516 TO 5400/656, CAT D CMDA FROM 5400/656 TO 5420/676 - NEW CONTROLLING OBST WITH NEW CIRCLING CRITERIA APPLIED.
4. AMENDED CAT C CIRCLING VISIBILITY FROM 1 1/2 TO 1 3/4, CAT D CIRCLING VISIBILITY FROM 2 TO 2 1/4 - NEW CONTROLLING OBST WITH NEW CIRCLING CRITERIA APPLIED.
5. ADDED NOTE: CHART CIRCLING ICON.
6. DELETED FEEDER ROCCA - SWU NDB DECOMMISSIONED.
7. CREATED FAF FIX CHYME - PUBLISHED FAF SWU NDB DECOMMISSIONED.
8. CREATED MAP FEBED - MAP WAS AN UNNAMED DME FIX.
9. CHANGED MSA FROM SWU NDB TO IDA VOR - SWU NDB DECOMMISSIONED.
10. DELETED DR SEGMENT - ADDED INTERMEDIATE FIX FEGAP AND UPDATED IAF PIH VOR/DME TO FEGAP.
11. ADDED PROCEDURE NA NOTES AT IDA AND PIH VOR/DME - TURNS MORE THAN 120 DEGREES.
12. CHANGED MISSED APPROACH FROM CLIMB TO 6000 THEN CLIMBING LEFT TURN TO 7000 DIRECT IDA VOR/DME AND HOLD - PER FPT COORDINATION.

PDF EDITS:
8260-9 PAGE 5 OF 8 - WX SERVICE AND BACK-UP WX SERVICE SERVICE-A CHANGED FROM N TO Y.

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZLC, IDA ATCT/FSS, KIDA AMGR

FLIGHT CHECKED BY	*Digitally signed by* ***WARDELL HENNING*** Oct 23, 2018	**OFFICE**	**DATE**	
DANIEL C FAVORITE		FICO	10/3/18	
DEVELOPED BY	*Digitally signed by* ***WARDELL HENNING*** Oct 23, 2018	**OFFICE**	**DATE**	
LONNIE EVERHART (CHARLES CTR THIBODEAUX)		AJV-5400	04/04/2018	
APPROVED BY	*Digitally signed by* ***WARDELL HENNING*** Oct 23, 2018	**OFFICE**	**DATE**	**TITLE**
LONNIE EVERHART		AJV-5400		MANAGER

QUALITY 16 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.33

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

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
IDAHO FALLS RGNL	KIDA	RNAV (GPS) Y RWY 3	2	IDAHO FALLS	ID

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
4744	4744	RNAV (GPS) Y RWY 2	1A	04/28/2016	12E	2020

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
RNAV		3 JANUARY 2019	ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
IDA VOR/DME		VIPUC		TF	FO	2.00	206.58	12.75	7000
ROCCA	IAF	VIPUC	NOPT	TF	FB	1.00	095.03	9.89	7000
VIPUC	IF/IAF	UGADE		TF	FB	1.00	025.90	6.04	6500
UGADE	FAF	JIDEM/1.50 NM TO RW03		TF	FB	0.30	025.96	3.86	
JIDEM/1.50 NM TO RW03		RW03	MAP	TF	FO	0.30	025.96	1.50	
RW03	MAP	5200 MSL		CA			025.96		5200
5200 MSL		TERRE		DF	FO	1.00			7500

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW03

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 5200 THEN CLIMBING LEFT TURN TO 7500 DIRECT TERRE AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY 16 CHECKED

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. HOLD SW VIPUC, RT, 025.90 INBOUND, 7000 FT. IN LIEU OF PT (IAF), MAX 14000.

3. FAC: 025.96 **FAF:** UGADE **DIST FAF TO MAP:** 5.36 **DIST FAF TO THLD:** 5.36

4. MIN ALT: VIPUC 7000, UGADE 6500, JIDEM/1.50 NM TO RW03 5260*

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **200 HAT:** 0.53 **GS ANT:**

6. MIN GP INCPT: 6500 **GP ALT AT FAF :** UGADE 6500 **OM:** **MM:** **IM:**

7. GP ANGLE: 3.00 **34:1:** IS CLEAR **20:1:** IS CLEAR **TCH:** 50.0

8. MSA FROM: RW03 9000

PBN REQUIREMENTS NOTE:

RNP APCH

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -27C (-16F) OR ABOVE 49C (121F).
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON IDA VOR/DME AIRWAY RADIALS 199 CW 207.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ROCCA ON V257 SOUTH BOUND.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
WAAS CHANNEL #97501
REFERENCE PATH ID: W03A
CHART FAS OBST: 4799 TREE 433038N/1120523W.
HOLD N, RT, 179.98 INBOUND
LTP HAE: 1433.5 M

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: **NA** ☐ STANDARD - CAT D 800-2 1/4, NA WHEN LOCAL WEATHER NOT AVAILABLE.

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LPV DA	4944	3/4	200	4944	3/4	200	4944	3/4	200	4944	3/4	200			
LNAV/VNAV DA	4994	3/4	250	4994	3/4	250	4994	3/4	250	4994	3/4	250			
LNAV MDA	5060	1	316	5060	1	316	5060	1	316	5060	1	316			
CIRCLING	5200	1	456	5300	1	556	5400	1 3/4	656	5420	2 1/4	676			

QUALITY 16 CHECKED

CHANGES - REASONS

1. AMENDED PROCEDURE NAME FROM RNAV (GPS) RWY 2 TO RNAV (GPS) RWY 3 - MAGVAR UPDATE.
2. UPDATED CIRCLING CONTROLLING OBSTS FOR ALL CATS - NEW CIRCLING CRITERIA APPLIED.
3. AMENDED LNAV/VNAV DA/HAT ALL CATS FROM 5138/394 TO 4994/250 - NEW CONTROLLING OBST WITH NEW CRITERIA APPLIED.
4. AMENDED LNAV/VNAV VIS ALL CATS FROM 1 3/8 SM TO 3/4 SM - LOWER DA/HAT CHANGED VIS.
5. AMENDED LNAV MDA/HAT FROM 5100/356 TO 5060/316 - NEW CONTROLLING OBST WITH NEW CRITERIA APPLIED.
6. AMENDED CAT B CMDA/HAA FROM 5220/476 TO 5300/556, CAT C CMDA FROM 5260/876 TO 5400/656, CAT D CMDA FROM 5400/656 TO 5420/676 - NEW CONTROLLING OBST WITH NEW CIRCLING CRITERIA APPLIED.
7. AMENDED CAT C CIRCLING VISIBILITY FROM 1 1/2 TO 1 3/4, CAT D CIRCLING VISIBILITY FROM 2 TO 2 1/4 - NEW CONTROLLING OBST WITH NEW CIRCLING CRITERIA APPLIED.
8. ADDED NOTE: CHART CIRCLING ICON.
9. CHANGED MISSED APPROACH FROM "CLIMB TO 7500 DIRECT TOCYU AND LEFT TURN ON TRACK 284 TO TERRE AND HOLD" TO "CLIMB TO 5200 THEN CLIMBING LEFT TURN TO 7500 DIRECT TERRE AND HOLD" - UPDATED MISSED APPROACH TO CURRENT CRITERIA.
10. DELETED NOTE: RWY 35: 20:1 PENETRATIONS 4851 ANTENNA (KIDA031) 433016.19N-1120349.33W - PENETRATION LIGHTED.
11. DELETED CHART NOTE: WHEN VGSI INOP, CIRCLING RWY 35 NA AT NIGHT - 20:1 PENETRATOR LIGHTED.
12. UPDATED UNCOMPENSATED BARO-VNAV TEMPERATURES - NEW HISTORICAL TEMPERATURE DATA AVAILABLE.
13. DELETED VDP AND ALL ASSOCIATED NOTES - UPDATED TO NEW CRITERIA.
14. UPDATED PROCEDURE NA NOTE FROM IDA VOR/DME FROM "PROCEDURE NA FOR ARRIVALS AT IDA VOR/DME ON V21 NORTHBOUND" TO "PROCEDURE NA FOR ARRIVALS ON IDA VOR/DME AIRWAY RADIALS 199 CW 207" - UPDATED TO CURRENT CRITERIA.
15. ADDED PROCEDURE NA NOTE "PROCEDURE NA FOR ARRIVALS AT ROCCA ON V257 SOUTHBOUND" - UPDATED TO CURRENT CRITERIA.
16. DELETED NOTE "DME/DME RNP-0.3 NA" - UPDATED TO CURRENT CRITERIA.
17. ADDED PBN EQUIPMENT REQUIREMENT NOTE: RNP APCH - UPDATED TO CURRENT CRITERIA.

PDF EDITS:
8260-3 PAGE 1 OF 5 - ADDED "5200" TO TERMINAL ROUTES FROM RW03 TO 5200 MSL ALTITUDE LINE.
8260-9 PAGE 1 OF 10 - CHANGED INITIAL SEGMENT ROCCA VERTICAL ACCURACY FROM 125 TO 98 (4E).
8260-9 PAGE 7 OF 10 - CHANGED WX SERVICE AND BACK-UP WX SERVICE, SERVICE-A FROM N TO Y.

QUALITY 16 CHECKED

COORDINATED WITH:

A4A [X] **ALPA** [X] **AOPA** [X] **APA** [ ] **HAI** [ ] **NBAA** [X] **OTHER:** ZLC, IDA ATCT, ATA

FLIGHT CHECKED BY		**OFFICE**	**DATE**	
CHARLES D CUNNINGHAM	*Digitally signed by* ***WARDELL HENNING*** Oct 23, 2018	FICO	10/14/18	
DEVELOPED BY	*Digitally signed by* ***WARDELL HENNING*** Oct 23, 2018	**OFFICE**	**DATE**	
LONNIE EVERHART (CHARLES CTR THIBODEAUX)		AJV-5400	04/18/2018	
APPROVED BY		**OFFICE**	**DATE**	**TITLE**
LONNIE EVERHART	*Digitally signed by* ***WARDELL HENNING*** Oct 23, 2018	AJV-5400		MANAGER

QUALITY 16 CHECKED

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KIDA
RUNWAY	RW03
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W03A
LTP/FTP LATITUDE	433009.0550N
LTP/FTP LONGITUDE	1120506.7700W
LTP/FTP ELLIPSOIDAL HEIGHT	+14335
FPAP LATITUDE	433119.2615N
FPAP LONGITUDE	1120351.3590W
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	0008
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	0F1D4633

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+14452
FPAP ORTHOMETRIC HEIGHT	+14452

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.33

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

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
IDAHO FALLS RGNL	KIDA	RNAV (GPS) Y RWY 21	2	IDAHO FALLS	ID

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
4744	4735	RNAV (GPS) Y RWY 20	1D	02/01/2018	12E	2020

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
RNAV		3 JANUARY 2019	ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
IDA VOR/DME		YAGUP		TF	FO	2.00	025.44	12.23	7600
DBS VORTAC	IAF	YAGUP	NOPT	TF	FB	1.00	138.63	28.07	7600
SABAT	IAF	YAGUP	NOPT	TF	FB	1.00	194.23	22.45	7600
LUDIC	IAF	ZEKOL	NOPT	TF	FB	1.00	285.49	9.92	8200
ZEKOL		YAGUP		TF	FB	1.00	285.34	6.00	7600
YAGUP	IF/IAF	WOTES		TF	FB	1.00	206.14	6.07	6700
WOTES	FAF	HUROD/1.70 NM TO RW21		TF	FB	0.30	206.08	4.33	
HUROD/1.70 NM TO RW21		RW21	MAP	TF	FO	0.30	206.08	1.70	
RW21	MAP	4935 MSL		CA			206.08		
4935 MSL		UGADE		DF	FB	1.00			
UGADE		ROCCA		TF	FO	1.00	250.08	13.28	7500

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW21

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 7500 DIRECT UGADE AND ON TRACK 250.08 TO ROCCA AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY 16 CHECKED

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. HOLD NE YAGUP, RT, 206.14 INBOUND, 7600 FT. IN LIEU OF PT (IAF), MAX 14000.

3. FAC: 206.08 **FAF:** WOTES **DIST FAF TO MAP:** 6.03 **DIST FAF TO THLD:** 6.03

4. MIN ALT: YAGUP 7600, WOTES 6700, HUROD/1.70 NM TO RW21 5320*

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **200 HAT:** 0.49 **GS ANT:**

6. MIN GP INCPT: 6700 **GP ALT AT FAF :** WOTES 6700 **OM:** **MM:** **IM:**

7. GP ANGLE: 3.00 **34:1:** IS CLEAR **20:1:** IS CLEAR **TCH:** 49.1

8. MSA FROM: RW21 9100

PBN REQUIREMENTS NOTE:

RNP APCH

NOTES:

CHART NOTE: ** RVR 1800 AUTHORIZED WITH THE USE OF FD OR AP OR HUD TO DA.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -27C OR ABOVE 49C.
CHART NOTE: FOR INOPERATIVE ALS INCREASE LNAV/VNAV VISIBILITY ALL CATS TO RVR 4500, LNAV VISIBILITY CATS C/D TO RVR 5500.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON DBS VORTAC AIRWAY RADIALS 098 CW 180.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
CHART VDP AT 0.88 NM TO RW21*
*LNAV ONLY
WAAS CHANNEL #40111
REFERENCE PATH ID: W21A
CHART FAS OBST: 4806 BUILDING 433103N/1120335W.
CHART: 4989 TOWER 433539N/1115825W.
HOLD W, RT, 078.61 INBOUND
LTP HAE: 1430.4 M

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: **NA** ☐ STANDARD - CAT D 800-2 1/4

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LPV DA **	4935	2400	200	4935	2400	200	4935	2400	200	4935	2400	200			
LNAV/VNAV DA	5016	2400	281	5016	2400	281	5016	2400	281	5016	2400	281			
LNAV MDA	5060	2400	325	5060	2400	325	5060	4000	325	5060	4000	325			
CIRCLING	5200	1	456	5300	1	556	5400	1 3/4	656	5420	2 1/4	676			

QUALITY 16 CHECKED

CHANGES - REASONS

1. AMENDED PROCEDURE NAME FROM RNAV (GPS) Y RWY 20 TO RNAV (GPS) Y RWY 21 - MAG VAR UPDATE
2. UPDATED PFAF LOCATION - APPLIED CURRENT CRITERIA
3. UPDATED LNAV/VNAV FINAL CONTROLLING OBST - NEW SURVEY
4. LOWERED LNAV/VNAV DA/HAT FROM 5092/357 TO 5016/281 - NEW SURVEY
5. UPDATED LNAV/VNAV HMAS FROM 4822 TO 4944 - APPLIED CURRENT CRITERIA
6. REDUCED LNAV/VNAV VISIBILITY FROM 4000 RVR TO 2400 RVR - NEW SURVEY
7. UPDATED LNAV FINAL CONTROLLING OBST - NEW SURVEY
8. LOWERED LNAV MDA/HAA FROM 5140/405 TO 5060/325 - NEW SURVEY
9. REDUCED LNAV CAT D VISIBILITY FROM 5000 RVR TO 4000 RVR - NEW SURVEY
10. UPDATED CIRCLING CONTROLLING OBSTS FOR ALL CATS - NEW CIRCLING CRITERIA APPLIED
11. AMENDED CAT D CMDA FROM 5400 TO 5420 - NEW CONTROLLING OBST WITH NEW CIRCLING CRITERIA APPLIED/VISCHECK VALUES.
12. AMENDED CAT D CIRCLING VISIBILITY FROM 2 SM TO 2 ¼ SM - NEW CONTROLLING OBST WITH NEW CIRCLING CRITERIA APPLIED.
13. ADDED NOTE: CHART CIRCLING ICON - UPDATED CIRCLING TO CURRENT CRITERIA.
14. UPDATED UNCOMPENSATED BARO-VNAV TEMPERATURES - NEW HISTORICAL TEMPERATURE DATA AVAILABLE
15. DELETED NOTE: RWY 35: 20:1 PENETRATIONS 4851 ANTENNA (KIDAL031) 433016.19N-1120349.33W - PENETRATION IS LIT.
16. DELETED CHART NOTE: "WHEN VGSI INOP, CIRCLING RWY 35 NA AT NIGHT" - 20:1 PENETRATOR LIGHTED.
17. DELETED NOTE: "CIRCLING NA TO RWY 35 AT NIGHT WHEN VGSI IS OTS DUE TO UNLIT 20:1 PENETRATION" - 20:1 PENETRATOR LIGHTED.
18. UPDATED FAS DATA REFERENCE PATH IDENDTIER FROM W20A TO W21A - MAG VAR UPDATE.
19. UPDATED FAS DATA FPAP LATITUDE FROM 433008.8700N TO 433009.0530N - MAG VAR UPDATE.
20. UPDATED FAS DATA FPAP LONGITUDE FROM 1120506.9600W TO 1120506.7670W - MAG VAR UPDATE.
21. UPDATED FAS DATA LENGTH OFFSET FROM 0008 TO 0000 - MAG VAR UPDATE.

PDF EDITS
-FORM 8260-9 PAGES 6 OF 12 AND 7 OF 12, MISSED APPROACH OBST INFORMATION BLOCKS FOR LPV, LNAV/VNAV, AND LNAV EDITED TO SHOW CORRECT INFORMATION AND IN CORRECT ORDER.
-FORM 8260-3 PAGE 2 OF 5, MINIMA TABLE: ADDED DOUBLE ASTERISK TO LPV DA FINAL TYPE.
-FORM 8260-9 PAGE 9 OF 12, PART B: SUPPLEMENTAL DATA: EDITED BOTH SERVICE-A FROM "N" TO "Y"

09/06/2018: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 04/24/2018.
1. TERMINAL ROUTE UGADE TO ROCCA CHANGED FROM 13.34 TO 13.28.

COORDINATED WITH:

A4A [X] **ALPA** [X] **AOPA** [X] **APA** [ ] **HAI** [ ] **NBAA** [X] **OTHER:** ZLC, IDA ATCT, WST, ATA

FLIGHT CHECKED BY		**OFFICE**	**DATE**	
CHARLES D CUNNINGHAM	*Digitally signed by* ***WARDELL HENNING*** Oct 23, 2018	FICO	10/14/18	
DEVELOPED BY		**OFFICE**	**DATE**	
LONNIE EVERHART (SCOTT LINDHOLM)	*Digitally signed by* ***WARDELL HENNING*** Oct 23, 2018	AJV-5400	04/24/2018	
APPROVED BY		**OFFICE**	**DATE**	**TITLE**
LONNIE EVERHART	*Digitally signed by* ***WARDELL HENNING*** Oct 23, 2018	AJV-5400		MANAGER

QUALITY 16 CHECKED

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KIDA
RUNWAY	RW21
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W21A
LTP/FTP LATITUDE	433119.0805N
LTP/FTP LONGITUDE	1120351.5580W
LTP/FTP ELLIPSOIDAL HEIGHT	+14304
FPAP LATITUDE	433009.0530N
FPAP LONGITUDE	1120506.7670W
THRESHOLD CROSSING HEIGHT (TCH)	00049.1
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
CRC REMAINDER	DB5D959A

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+14421
FPAP ORTHOMETRIC HEIGHT	+14421

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

FROM	TO	COURSE AND DISTANCE	ALTITUDE
LUDIC	HUDEP (TF) (FB) (RNP 2.00)	218.61 / 17.52	10500
HUDEP (IAF)	OKVIE (TF) (FB) (RNP 1.00)	218.40 / 4.89	9300
CHEER (IAF)	VIPUC (TF) (FB) (RNP 1.00)	015.02 / 9.35	7000
ZELOR (IAF)	ROCCA (TF) (FB) (RNP 1.00)	055.58 / 10.24	7500
OKVIE (IF)	JEDUX (RF) (FB) (RNP 0.70)	(6.35 NM RADIUS CW (CFDVG))/7.41	8600
(SEE FORM 8260-10)			

MISSED APPROACH

RNP: DA

CLIMB TO 7500 ON TRACK 026.01 TO TOCYU LEFT TURN TO UFGOD, THEN TRACK 252.59 TO TERRE AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD N, RT, 179.98 INBOUND.
DISTANCE TO THLD FROM 269 HAT: 0.68 NM.
ROUTE TYPE: A, H
ROUTE TYPE QUALIFIER 1: F
ROUTE TYPE QUALIFIER 2: S

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. PROFILE STARTS AT UGADE
3. FAC: 025.96 FAF: DIST FAF TO MAP: THLD:
4. MIN. ALT: UGADE 6500
5. DIST TO THLD FROM OM: 5.36 MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: 6500 GS ALT AT: UGADE 6500 OM: MM: IM:
7. GS ANGLE: 3.00 TCH: 50.0 20:1 IS CLEAR 34:1 IS CLEAR
8. MSA FROM: RW03 9000

MAG VAR: 12E EPOCH YEAR: 2020

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	5013	7/8	269	5013	7/8	269	5013	7/8	269	5013	7/8	269			
RNP 0.30 DA	5071	1	327	5071	1	327	5071	1	327	5071	1	327			

NOTES:
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -27C OR ABOVE 49C.
CHART SPEED ICON IN PLANVIEW AT OKVIE : MAX 230 KIAS.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT LUDIC ON V330 EAST BOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT CHEER ON V21 SOUTH BOUND.
(CONTINUED ON PAGE 2)

QUALITY 16 CHECKED

CITY AND STATE	ELEVATION: 4744 TDZE: 4744 / AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP: RNAV (RNP) Z RWY 2
IDAHO FALLS, ID	IDAHO FALLS RGNL	RNAV	RNAV (RNP) Z RWY 3, AMDT 1 3 JANUARY 2019	AMDT: ORIG-B
				DATED 04/28/2016

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TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
JEDUX	UGADE (RF) (FB) (RNP 0.70)	(4.94 NM RADIUS CW (CFDVJ))/8.70	6500
VIPUC (IF)	UGADE (TF) (FB) (RNP 1.00)	025.90 / 6.04	6500
ROCCA (IF)	FOXUG (TF) (FB) (RNP 1.00)	084.08 / 7.04	7000
FOXUG	UGADE (RF) (FB) (RNP 1.00)	(6.86 NM RADIUS CCW (CFDVM))/6.99	6500
UGADE (FAF)	RW03 (MAP) (TF) (FO) (RNP 0.30)	025.96 / 5.36	
RW03 (MAP)	TOCYU (TF) (FB) (RNP 1.00)	026.01 / 7.00	
TOCYU	UFGOD (RF) (FB) (RNP 1.00)	(5.80 NM RADIUS CCW (CFDVL)) / 13.50	
UFGOD	TERRE (TF) (FO) (RNP 1.00)	252.59 / 10.34	

NOTES, (CONT.):
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ZELOR ON V365 SOUTHWEST BOUND.
CHART PLANVIEW NOTE AT LUDIC: (RNP 0.70).
PBN REQUIREMENTS NOTE: RNP AR APCH.
EQUIPMENT REQUIREMENTS NOTE: RF REQUIRED.

QUALITY 16 CHECKED

CITY AND STATE		FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	
IDAHO FALLS, ID	ELEVATION: 4744 TDZE: 4744 AIRPORT NAME: IDAHO FALLS RGNL	RNAV	RNAV (RNP) Z RWY 3, AMDT 1 3 JANUARY 2019	SUP: RNAV (RNP) Z RWY 2 AMDT: ORIG-B DATED: 04/28/2016

US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

RNAV (RNP) - STANDARD, INSTRUMENT APPROACH PROCEDURE, TITLE 14 CFR PART 97.33

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TERMINAL ROUTES

FROM	TO	COURSE AND DISTANCE	ALTITUDE
PIINE	LUDIC (TF) (FB) (RNP 1.00)	251.98 / 8.27	12000
LUDIC (IAF)	WOSKO (TF) (FB) (RNP 1.00)	276.43 / 8.12	9500
SABAT (IAF)	YAGUP (TF) (FB) (RNP 1.00)	194.23 / 22.45	7600
TERRE (IAF)	HULSA (TF) (FB) (RNP 1.00)	077.65 / 6.71	7500
WOSKO (IF)	PUMVE (TF) (FB) (RNP 1.00)	276.31 / 5.10	8000
(SEE FORM 8260-10)			

MISSED APPROACH

RNP: DA

CLIMB TO 7500 ON TRACK 206.08 TO UGADE RIGHT TURN TO STOPS THEN ON TRACK 258.61 TO ROCCA AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD W, RT, 078.61 INBOUND.
ROUTE TYPE: A, R
ROUTE TYPE QUALIFIER 1: P
ROUTE TYPE QUALIFIER 2: S
DISTANCE TO THLD FROM 278 HAT: 0.71 NM

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. **PROFILE STARTS AT WOTES**
3. FAC: **206.08** FAF: ____ DIST FAF TO MAP: ____ THLD: ____
4. MIN. ALT: **WOTES 6700**
5. DIST TO THLD FROM OM: **6.03** MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: **6700** GS ALT AT: **WOTES 6700** OM: ____ MM: ____ IM: ____
7. GS ANGLE: **3.00** TCH: **49.1** **20:1 IS CLEAR 34:1 IS CLEAR**
8. MSA FROM: **RW21 9100**

MAG VAR: **12E** EPOCH YEAR: **2020**

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	**5011**	**2400**	**276**	**5011**	**2400**	**276**	**5011**	**2400**	**276**	**5011**	**2400**	**276**			
RNP 0.30 DA	**5064**	**2400**	**329**	**5064**	**2400**	**329**	**5064**	**2400**	**329**	**5064**	**2400**	**329**			

NOTES:
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -27C OR ABOVE 49C.
CHART SPEED ICON IN PLANVIEW AT PUMVE : MAX 250 KIAS.
CHART SPEED ICON IN PLANVIEW AT JESUG : MAX 215 KIAS.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT PIINE ON V330 EASTBOUND.
(CONTINUED ON PAGE 2)

QUALITY 16 CHECKED

CITY AND STATE	AIRPORT	FACILITY IDENTIFIER	PROCEDURE NO./AMDT NO./EFFECTIVE DATE	
IDAHO FALLS, ID	**ELEVATION: 4744** **TDZE: 4735** AIRPORT NAME: **IDAHO FALLS RGNL**	**RNAV**	**RNAV (RNP) Z RWY 21, AMDT 1** 3 JANUARY 2019	SUP: **RNAV (RNP) Z RWY 20** AMDT: **ORIG-C** DATED **04/28/2016**

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TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
PUMVE	WOTES (RF) (FB) (RNP 1.00)	(4.86 NM RADIUS CCW (CFDTR))/5.95	6700
YAGUP (IF)	WOTES (TF) (FB) (RNP 1.00)	206.14 / 6.07	6700
HULSA (IF)	JESUG (TF) (FB) (RNP 1.00)	077.75 / 5.10	7000
JESUG	WOTES (RF) (FB) (RNP 1.00)	(4.95 NM RADIUS CW (CFDTV))/11.08	6700
WOTES (FAF)	RW21 (MAP) (TF) (FO) (RNP 0.30)	206.08 / 6.03	
RW21 (MAP)	UGADE (TF) (FB) (RNP 1.00)	206.08 / 6.84	
UGADE	STOPS (RF) (FB) (RNP 1.00)	(5.03 NM RADIUS CW (CFDVC))/4.63	
STOPS	7500 MSL (TF)	258.61 / 9.13	7500

NOTES, (CONT.):
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT SABAT ON V365 NORTHBOUND.
CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.
CHART NOTE: FOR INOPERATIVE ALS INCREASE RNP 0.11 VISIBILITY ALL CATS TO RVR 4500 INCREASE RNP 0.30 VISIBILITY ALL CATS TO RVR 5000.
PBN REQUIREMENTS NOTE: RNP AR APCH, RF REQUIRED.

QUALITY 16 CHECKED

CITY AND STATE	ELEVATION: 4744 TDZE: 4735	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP: RNAV (RNP) Z RWY 20
IDAHO FALLS, ID	AIRPORT NAME: IDAHO FALLS RGNL	RNAV	RNAV (RNP) Z RWY 21, AMDT 1 3 JANUARY 2019	AMDT: ORIG-C DATED: 04/28/2016

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
TITLE 14 CFR PART 97.37

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL Altitudes are minimum altitudes unless otherwise indicated
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CITY, STATE	AIRPORT	EFFECTIVE DATE	AMDT NO
IDAHO FALLS, ID	IDAHO FALLS RGNL	3 JANUARY 2019	5

TAKEOFF MINIMUMS:
RWY 17: NA- ENVIRONMENTAL.

RWYS 03, 35, 21: STANDARD.

TEXTUAL DEPARTURE PROCEDURES:
RWY 03, 35: ALL AIRCRAFT DEPARTING 210 CW 040 CLIMB ON COURSE, ALL OTHERS CLIMBING LEFT TURN DIRECT IDA VOR/DME THENCE...
RWY 21, ALL AIRCRAFT DEPARTING 210 CW 020 CLIMB ON COURSE, ALL OTHERS CLIMBING RIGHT TURN DIRECT IDA VOR/DME THENCE...
...CONTINUE CLIMB IN IDA VOR/DME HOLDING PATTERN (HOLD S, LT, 019 INBOUND) TO CROSS IDA VOR/DME AT OR ABOVE MEA FOR ROUTE OF FLIGHT.

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:
NOTE: RWY 03: POLE 1039 FT FROM DER, 758 FT LEFT OF CENTERLINE, 42 FT AGL/4762 FT MSL.

NOTE: RWY 35: VEHICLE ON TRAVERSE WAY 410 FT FROM DER, 581 FT RIGHT OF CENTERLINE, 4742 FT MSL. TREES BEGINNING 882 FT FROM DER, 503 FT RIGHT OF CENTERLINE, UP TO 48 FT AGL/4769 FT MSL. POLE 1034 FT FROM DER, 715 FT LEFT OF CENTERLINE, 37 FT AGL/4762 FT MSL.

CONTROLLING OBSTACLES:
OBSTACLE MANDATING ODP ROUTE: RWYS 03/21/35: 7560 AAO 431826.41N/1115509.60.

REMARKS:
SECTORIZED DEPARTURE REQUESTED BY ATC.

		OFFICE SYMBOL:	DATE:
FLIGHT INSPECTED BY: PAUL KOSCHEKA	*Digitally signed by* ***WARDELL HENNING*** Oct 23, 2018	FICO	7/24/18
DEVELOPED BY: LONNIE EVERHART (SCOTT LINDHOLM)	*Digitally signed by* ***WARDELL HENNING*** Oct 23, 2018	OFFICE SYMBOL: AJV-5400	DATE: 05/03/2018
APPROVED BY: LONNIE EVERHART	*Digitally signed by* ***WARDELL HENNING*** Oct 23, 2018	OFFICE SYMBOL: AJV-5400	DATE:

REQUIRED EFFECTIVE DATE:
ROUTINE

COORDINATED WITH:

A4A	ALPA	AOPA	APA	HAI	NBAA
☒	☒	☒	☒	☐	☒

OTHER:
ZLC, IDA ATCT, ATA

CHANGES - REASONS:
1. CHANGED RWY NUMBERS FROM 02 AND 20 TO RWY 03 AND 21 - PER MAGVAR CHANGE AND CHECKLIST
2. CHANGED RWY 17 TO NA - PER FPT
3. AMENDED TEXTUAL DEPARTURE PROCEDURES - PER FPT REQUEST
4. UPDATED LOW CLOSE IN OBSTACLES

QUALITY 16 CHECKED

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
VOR STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.23

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AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
IDAHO FALLS RGNL	KIDA	VOR RWY 3	6D	IDAHO FALLS	ID

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
4744	4744	VOR RWY 2	6C	04/28/2016	15E	1990

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL SUSPEND
IDA	433108.42N / 1120350.10W	3 JANUARY 2019	ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
ROCCA INT		IDA VOR/DME					053.00	18.76	7500
TERRE INT		IDA VOR/DME					122.00	17.63	7500

MISSED APPROACH

MAP:

IDA VOR/DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 6000 THEN CLIMBING LEFT TURN TO 7000 DIRECT IDA VOR/DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT R **SIDE OF COURSE** 208.00 **OUTBOUND** 6500 **FT WITHIN** 10 **MILES OF** IDA VOR/DME (IAF)

2.

3. FAC: 028.00 **FAF:** **DIST FAF TO MAP:** **DIST FAF TO THLD:**

4. MIN ALT:

8. MSA FROM: IDA VOR/DME 030-120 9200, 120-210 8800, 210-300 7800, 300-030 7100

EQUIPMENT REQUIREMENTS NOTES:

NOTES:

ADDITIONAL FLIGHT DATA:

CHART VDP AT 3.00 DME
DISTANCE VDP TO THLD 1.64 NM
CHART CIRCLING ICON.
CHART FAS OBST: 4989 POWERLINE 432742N/1121208W.
FAC CROSSES RWY C/L EXTENDED 395 FT FROM THLD.

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/4

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
S-3	5300	1	556	5300	1	556	5300	1 5/8	556	5300	1 5/8	556			
CIRCLING	5300	1	556	5300	1	556	5400	1 3/4	656	5420	2 1/4	676			

CHANGES - REASONS

1. AMENDED PROCEDURE NAME FROM VOR RWY 2 TO VOR RWY 3 - MAG VAR UPDATE
2. UPDATED CIRCLING CONTROLLING OBSTS FOR ALL CATS - NEW CIRCLING CRITERIA APPLIED
3. AMENDED CAT D CMDA/HAA FROM 5400/656 TO 5420/676 - NEW CONTROLLING OBST WITH NEW CIRCLING CRITERIA APPLIED.
4. AMENDED CAT D CIRCLING VISIBILITY FROM 2 TO 2 ¼ - NEW CONTROLLING OBST WITH NEW CIRCLING CRITERIA APPLIED.
5. ADDED NOTE: CHART CIRCLING ICON.
6. DELETED CHART NOTE: WHEN VGSI INOP, CIRCLING RWY 35 NA AT NIGHT - 20:1 PENETRATOR LIGHTED.
7. RAISED S-3 CATS C/D VISIBILITY FROM 1 1/2 TO 1 5/8 - NEW VISIBILITY TABLE APPLIES.
8. MOVED ALTIMETER SOURCE AND BACK-UP ALTIMETER SOURCE NOTES TO THE BACK OF THE 8060-9 - NEW DOCUMENTATION CRITERIA APPLIED.

PDF EDITS
8260-5, PAGE 2 OF 2, FINAL TYPE - EDITED S-03 TO S-3.
8260-9, PAGE 4 OF 7, WX SERVICE/BACK-UP WX SERVICE - EDITED SERVICE-A FOR BOTH FROM NO TO YES.
8260-9, PAGE 3 OF 7, REMOVED "CR" FROM "MISSED APPROACH CR" AT TOP OF PAGE.

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZLC, IDA ATCT, AMGR, ATA

FLIGHT CHECKED BY		**OFFICE**	**DATE**	
CHARLES D CUNNINGHAM	*Digitally signed by* ***WARDELL HENNING*** Oct 24, 2018	FICO	10/17/18	
DEVELOPED BY	*Digitally signed by* ***WARDELL HENNING*** Oct 24, 2018	**OFFICE**	**DATE**	
LONNIE EVERHART (CHARLES CTR THIBODEAUX)		AJV-5400	04/02/2018	
APPROVED BY		**OFFICE**	**DATE**	**TITLE**
LONNIE EVERHART	*Digitally signed by* ***WARDELL HENNING*** Oct 24, 2018	AJV-5400		MANAGER

QUALITY 16 CHECKED

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
VOR STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.23

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AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
IDAHO FALLS RGNL	KIDA	VOR RWY 21	10B	IDAHO FALLS	ID

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
4744	4735	VOR RWY 20	10A	04/28/2016	15E	1990

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
IDA	433108.42N / 1120350.10W	3 JANUARY 2019	ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
ROCCA INT/32.92 DME		IDA VOR/DME					053.00	18.76	7500
TERRE INT/22.06 DME		IDA VOR/DME					122.00	17.63	7500

MISSED APPROACH

MAP:

IDA VOR/DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 7000 THEN RIGHT TURN DIRECT IDA VOR/DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT L **SIDE OF COURSE** 011.82 **OUTBOUND** 6900 **FT WITHIN** 10 **MILES OF** IDA VOR/DME (IAF)

2.

3. FAC: 191.82 **FAF:** **DIST FAF TO MAP:** **DIST FAF TO THLD:**

4. MIN ALT:

8. MSA FROM: IDA VOR/DME 030-120 9200, 120-210 8800, 210-300 7800, 300-030 7100

EQUIPMENT REQUIREMENTS NOTES:

NOTES:

CHART NOTE: FOR INOPERATIVE ALS INCREASE S-21 CATS C/D VISIBILITY TO 1 7/8 SM.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
CHART VDP AT 2.09 DME
DISTANCE VDP TO THLD 1.95 NM
CHART FAS OBST: 4989 TOWER 433539N/1115825W.
FAC CROSSES RWY C/L EXTENDED 3002 FT FROM THLD.

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: **NA** ☐ STANDARD - CAT D 800-2 1/4

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
S-21	5400	2400	665	5400	2400	665	5400	1 1/2	665	5400	1 1/2	665			
CIRCLING	5400	1	656	5400	1	656	5400	1 7/8	656	5420	2 1/4	676			

CHANGES - REASONS

1. AMENDED PROCEDURE NAME FROM VOR RWY 20 TO VOR RWY 21 - AIRPORT MAG VAR UPDATE
2. UPDATED CIRCLING CONTROLLING OBSTS FOR ALL CATS - NEW CIRCLING CRITERIA APPLIED
3. AMENDED CAT D CMDA FROM 5400 TO 5420 - NEW CONTROLLING OBST WITH NEW CIRCLING CRITERIA APPLIED.
4. AMENDED CAT D CIRCLING VISIBILITY FROM 2 TO 2 ¼ - NEW CONTROLLING OBST WITH NEW CIRCLING CRITERIA APPLIED.
5. DELETED NOTE: RWY 35: 20:1 PENETRATIONS 4851 ANTENNA (KIDAL031) 433016.19N-1120349.33W - PENETRATION IS LIT.
6. DELETED CHART NOTE: WHEN VGSI INOP, CIRCLING RWY 35 NA AT NIGHT - 20:1 PENETRATOR LIGHTED.
7. ADDED NOTE: CHART CIRCLING ICON - NEW CIRCLING CRITERIA APPLIED.

PDF EDITS
-FORM 8260-9 PAGE 4 OF 7, PART B: SUPPLEMENTAL DATA: EDITED BOTH SERVICE-A FROM "N" TO "Y"
-FORM 8260-9, PAGE 3 OF 7, DELETED "CR" FROM "MISSED APPROACH CR" AT UPPER LEFT OF PAGE.
-FORM 8260-5, PAGE 1 OF 2, PROFILE SECTION, MILES OF: ADDED "VOR/DME" BETWEEN IDA AND (IAF)

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZLA, IDA ATCT, AMGR, IDA FSS., ATA

FLIGHT CHECKED BY	*Digitally signed by* ***WARDELL HENNING*** Oct 23, 2018	**OFFICE**	**DATE**	
CHARLES D CUNNINGHAM		FICO	10/17/18	
DEVELOPED BY	*Digitally signed by* ***WARDELL HENNING*** Oct 23, 2018	**OFFICE**	**DATE**	
LONNIE EVERHART (SCOTT LINDHOLM)		AJV-5400	04/20/2018	
APPROVED BY	*Digitally signed by* ***WARDELL HENNING*** Oct 23, 2018	**OFFICE**	**DATE**	**TITLE**
LONNIE EVERHART		AJV-5400		MANAGER

QUALITY 16 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.29

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

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
CHICAGO O'HARE INTL	KORD	ILS OR LOC RWY 9R	12B	CHICAGO	IL

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
680	660	ILS OR LOC RWY 9R	12A	10/11/2018	3W	2010

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
I-JAV		3 JANUARY 2019	ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
GIBNS	IAF	ADLMN		TF	FB	1.00	082.15	20.45	9000
ADLMN/RADAR		FOTTR/I-JAV 24.86 DME/RADAR					092.98	3.14 (I-JAV)	8000
FOTTR/I-JAV 24.86 DME/RADAR		WASCO/I-JAV 21.72 DME/RADAR					092.98	3.14 (I-JAV)	7000
WASCO/I-JAV 21.72 DME/RADAR		GEMMS/I-JAV 18.58 DME/RADAR					092.98	3.14 (I-JAV)	6000
GEMMS/I-JAV 18.58 DME/RADAR		CHILR/I-JAV 15.45 DME/RADAR					092.98	3.13 (I-JAV)	5000
CHILR/I-JAV 15.45 DME/RADAR	IF	DEVON/I-JAV 12.31 DME/RADAR					092.98	3.14 (I-JAV)	4000
DEVON/I-JAV 12.31 DME/RADAR		LANSE INT/I-JAV 6.41 DME/RADAR					092.98	5.90 (I-JAV)	2300

MISSED APPROACH

MAP:

ILS: DA
LOC: 4.97 NM AFTER LANSE INT/I-JAV 6.41 DME/RADAR OR AT I-JAV 1.44 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4000 ON OBK VOR/DME R-124 TO GRABL INT/OBK 26.88 DME/RADAR AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):

CLIMB TO 4000 ON DPA VOR/DME R-078 TO LAIRD INT/DPA 34.33 DME/RADAR AND HOLD.

QUALITY 13 CHECKED

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. PROFILE STARTS AT ADLMN

3. FAC: 092.98 **FAF:** LANSE INT/I-JAV 6.41 DME/RADAR **DIST FAF TO MAP:** 4.97 **DIST FAF TO THLD:** 4.97

4. MIN ALT: ADLMN 9000, FOTTR 8000, WASCO 7000, GEMMS 6000, CHILR 5000, DEVON 4000, LANSE 2300, YONUT INT/I-JAV 4.54 DME/RADAR 1700*

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **GS ANT:** 1117

6. MIN GS INCPT: 2300 **GS ALT AT FAF :** LANSE INT/I-JAV 6.41 DME/RADAR 2300 **OM:** **MM:** **IM:**

7. GP ANGLE: 3.00 **34:1:** **20:1:** **TCH:** 57.4

8. MSA FROM: KORD 3400

EQUIPMENT REQUIREMENTS NOTES:

FROM GIBNS: RNAV 1-GPS REQUIRED.
AIRCRAFT NOT GPS EQUIPPED: RADAR REQUIRED FOR PROCEDURE ENTRY.
RADAR OR DME REQUIRED.

NOTES:

CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.
CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
FOR INOPERATIVE ALS, INCREASE S-LOC 9R CAT C/D VISIBILITY TO 1 3/8 SM.

ADDITIONAL FLIGHT DATA:

CHART IN PLANVIEW: LAIRD INT/DPA 34.33 DME/RADAR
CHART VDP AT 2.77 DME*
DISTANCE VDP TO THLD 1.33 NM
* LOC ONLY
CHART FAS OBST: 894 TANK 415923N/0875839W.
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD E LAIRD INT/DPA 34.33 DME/RADAR, RT, 258.38 INBOUND.
HOLD SE, RT, 303.96 INBOUND

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: **NA** ☐ ILS: STANDARD; LOC: STANDARD

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
S-ILS 09R	860	1800	200	860	1800	200	860	1800	200	860	1800	200			
S-LOC 09R	1160	2400	500	1160	2400	500	1160	5000	500	1160	5000	500			

CHANGES - REASONS

1. AMENDED MSA SOURCE FROM ORD VOR/DME TO ARP (KORD) - PER FPT REQUEST AND VOR MON INITIATIVE (ORD DECOMMISSIONING).
2. INCORPORATED CHANGES FROM AMDT 12A - IAW FAAO 8260.19H, PARA 8-3-4C(2).

QUALITY 13 CHECKED

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
CHICAGO O'HARE INTL	KORD	ILS OR LOC RWY 9R	12B	CHICAGO	IL

COORDINATED WITH:

A4A [X] **ALPA** [X] **AOPA** [X] **APA** [X] **HAI** [ ] **NBAA** [X] **OTHER:** ZAU, CHICAGO APP CON, ORD TOWER, AMGR

FLIGHT CHECKED BY		OFFICE	DATE
FLIGHT INSPECTION REVIEW NOT REQUIRED - PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, OCT 3, 2018.	*Digitally signed by* ***WARDELL HENNING*** Oct 24, 2018		

DEVELOPED BY		OFFICE	DATE
LONNIE EVERHART (TODD BOWLING)	*Digitally signed by* ***WARDELL HENNING*** Oct 24, 2018	AJV-5400	08/02/2018

APPROVED BY		OFFICE	DATE	TITLE
LONNIE EVERHART	*Digitally signed by* ***WARDELL HENNING*** Oct 24, 2018	AJV-5400		MANAGER

QUALITY 13 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.29

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AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
MOUNT VERNON	KMVN	ILS OR LOC RWY 23	12	MOUNT VERNON	IL

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
480	471	ILS OR LOC RWY 23	11C	05/28/2015	1W	2000

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
I-MVN		3 JANUARY 2019	ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
ENL VORTAC		FAMTA INT/VNN 3.13 DME					090.81	19.20	2400
BIB VORTAC	IAF	OFEND INT	NOPT				188.65	25.86	2400
SAM VOR/DME	IAF	OFEND INT	NOPT				268.97	23.89	2400
OFEND INT	IF	FAMTA INT/VNN 3.13 DME					231.07	9.87 (I-MVN)	2400

MISSED APPROACH

MAP:

ILS: DA
LOC: 5.90 NM AFTER FAMTA INT/VNN 3.13 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2300 THEN CLIMBING LEFT TURN TO 2400 ON HEADING 060 AND ON BIB VORTAC R-189 TO OFEND AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT R **SIDE OF COURSE** 051.07 **OUTBOUND** 2400 **FT WITHIN** 10 **MILES OF** FAMTA INT (IAF)

2.

3. FAC: 231.07 **FAF:** FAMTA INT/VNN 3.13 DME **DIST FAF TO MAP:** 5.90 **DIST FAF TO THLD:** 5.90

4. MIN ALT: FAMTA INT/VNN 3.13 DME 2400

5. DIST TO THLD FROM PFAF: 5.90 **MM:** **IM:** **150 HAT:** **GS ANT:** 949

6. MIN GS INCPT: 2400 **GS ALT AT FAF :** FAMTA INT/VNN 3.13 DME 2400 **OM:** **MM:** **IM:**

7. GP ANGLE: 3.00 **34:1:** **20:1:** **TCH:** 52.1

8. MSA FROM: KMVN 2600

EQUIPMENT REQUIREMENTS NOTES:

QUALITY 4 CHECKED

NOTES:

CHART NOTE: CIRCLING RWY 15, 33 NA AT NIGHT.
CHART NOTE: VDP NA WHEN USING CENTRALIA ALTIMETER SETTING.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CENTRALIA ALTIMETER SETTING AND INCREASE ALL DA 45 FEET AND ALL MDA 60 FEET AND INCREASE S-LOC 23 CAT C/D AND CIRCLING CAT C VISIBILITY 1/4 SM.
CHART NOTE: FOR INOPERATIVE ALS, WHEN USING CENTRALIA ALTIMETER SETTING, INCREASE S-LOC 23 CAT C/D VISIBILITY TO 1 3/4 SM.

ADDITIONAL FLIGHT DATA:

CHART BIB VORTAC 25.9 DME AT OFEND.
CHART SAM VOR/DME 23.9 DME AT OFEND.
CHART ENL VORTAC 19.2 DME AT FAMTA IN PLANVIEW ONLY.
CHART VDP AT 1.24 DME*
DISTANCE VDP TO THLD 1.56 NM
CHART VNN DME IN PROFILE VIEW
CHART CIRCLING ICON.
FAS OBST: 769 AAO 382348N/0884505W.
HOLD N, RT, 188.65 INBOUND

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ ILS: STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE.; LOC: STANDARD - CAT D 900-3, NA WHEN LOCAL WEATHER NOT AVAILABLE.

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
S-ILS 23	671	1/2	200	671	1/2	200	671	1/2	200	671	1/2	200			
S-LOC 23	1020	1/2	549	1020	1/2	549	1020	1 1/8	549	1020	1 1/8	549			
CIRCLING	1020	1	540	1020	1	540	1140	1 3/4	660	1380	3	900			

CHANGES - REASONS

1. REMOVED HOLD AT VNN DME AND ADDED HOLD AT OFEND ON BIB R-189 TO MISSED APPROACH SEGMENT - VOR PORTION BEING DECOMMISSIONED.
2. CHANGED ALL REFERENCES FROM VNN VOR/DME TO VNN DME - VNN VOR DECOMISSIONING.
3. CHANGED MISSED APP INSTRUCTIONS FROM: CLIMB TO 2400 THEN LEFT TURN DIRECT VNN VOR/DME AND HOLD TO CLIMB TO 2300 THEN CLIMBING LEFT TURN TO 2400 ON HEADING 060 AND BIB VORTAC R-189 TO OFEND AND HOLD - VOR PORTION BEING DECOMMISSIONED.
4. ADDED VDP NA WHEN USING CENTRALIA ALTIMETER SETTING - IAW 8260.19H 8-6-9 E (9).
5. ADDED FOR INOPERATIVE ALS, WHEN USING CENTRALIA ALTIMETER SETTING, INCREASE S-LOC 23 CAT C/D VISIBILITY TO 1 3/4 SM - PER UPDATED VISCHECK.
6. CHANGED MSA FROM VNN VOR/DME TO KMVN - VNN VOR DECOMMISSIONED.
7. CHANGED DME FROM ENL TO FAMTA FROM 19.1 TO 19.2 DME - FAMTA MOVED 916 FT NE.
8. ADDED VDP - VNN DME NOW ASSOCIATED WITH MVN LOC.
9. TCH CHANGED FROM 52.0 TO 52.1 - GS DATA UPDATED.
10. DISTANCE FROM OFEND TO FAMTA CHANGED FROM 10.02 TO 9.87 - FAMTA MOVED 916 FT NE.
11. LINE 3: DIST FAF TO MAP/THLD CHANGED FROM 5.75 TO 5.90 - FAMTA MOVED 916 FT NE.
12. ILS DA CHANGED FROM 688 TO 671 - CHANGED FROM THLD ELEV 468 TO TDZE 471.
13. CHANGED LOC HAT FROM 552 TO 549 - CHANGED FROM THLD ELEV 468 TO TDZE 471.

10/3/2018: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON: 07/12/2018:
1. ADDED "NOPT" TO INITIAL SEGMENTS: BIB VORTAC TO OFEND INT AND SAM VOR/DME TO OFEND INT.

QUALITY 4 CHECKED

COORDINATED WITH:

A4A [X] **ALPA** [X] **AOPA** [X] **APA** [ ] **HAI** [ ] **NBAA** [X] **OTHER:** AMGR, ZKC

FLIGHT CHECKED BY		**OFFICE**	**DATE**	
SCOTT WIEBE	*Digitally signed by* ***WARDELL HENNING*** Oct 05, 2018	FICO	09/30/2018	
DEVELOPED BY		**OFFICE**	**DATE**	
LONNIE EVERHART (MICHAEL NOLAN)	*Digitally signed by* ***WARDELL HENNING*** Oct 05, 2018	AJV-5400	07/12/2018	
APPROVED BY		**OFFICE**	**DATE**	**TITLE**
LONNIE EVERHART	*Digitally signed by* ***WARDELL HENNING*** Oct 05, 2018	AJV-5400		MANAGER

QUALITY 4 CHECKED

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
VOR STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.23

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AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
MOUNT VERNON	KMVN	VOR RWY 5	16C	MOUNT VERNON	IL

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
480	470	VOR RWY 5	16B	08/01/2001		

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
			ROUTINE	CANCEL

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE

PROCEDURE CANCELLED EFFECTIVE 3 JANUARY 2019

MISSED APPROACH

MAP:

MISSED APPROACH INSTRUCTIONS:

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2.

3. FAC: **FAF:** **DIST FAF TO MAP:** **DIST FAF TO THLD:**

4. MIN ALT:

8. MSA FROM:

EQUIPMENT REQUIREMENTS NOTES:

NOTES:

ADDITIONAL FLIGHT DATA:

MINIMUMS:

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
MOUNT VERNON	KMVN	VOR RWY 5	16C	MOUNT VERNON	IL

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA

CHANGES - REASONS

COORDINATED WITH:

A4A ☐ ALPA ☐ AOPA ☐ APA ☒ HAI ☐ NBAA ☒ **OTHER:** ZKC, AMGR, ATA

FLIGHT CHECKED BY		**OFFICE**	**DATE**	
DEVELOPED BY	*Digitally signed by*	**OFFICE**	**DATE**	
LONNIE EVERHART (MICHAEL NOLAN)	***DONALD H LANIER*** Oct 02, 2018	AJV-5400	07/17/2018	
APPROVED BY		**OFFICE**	**DATE**	**TITLE**
LONNIE EVERHART	*Digitally signed by* ***DONALD H LANIER*** Oct 02, 2018	AJV-5400		MANAGER

QUALITY 19 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.33

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Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or feet RVR.

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
PITTSFIELD PENSTONE MUNI	KPPQ	RNAV (GPS) RWY 31	ORIG-A	PITTSFIELD	IL

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
710	705	RNAV (GPS) RWY 31	ORIG	04/18/2002	2E	1985

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
RNAV		3 JANUARY 2019	ROUTINE	

TAA

FROM	FIX TYPE	TO	FIX TYPE	ALTITUDE
1. 223/30 CW 043/30	NOPT	IHOME	IF/IAF	2600
2. 043/30 CW 133/30		MADYY	IAF	2600
3. 133/30 CW 223/30		PIKCI	IAF	2600

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
MADYY	IAF	IHOME	NOPT	TF	FB	1.00	042.98	5.00	2600
PIKCI	IAF	IHOME	NOPT	TF	FB	1.00	223.08	5.00	2600
IHOME	IF/IAF	YERPI		TF	FB	1.00	313.03	4.97	2400
YERPI	FAF	RW31	MAP	TF	FO	0.30	312.98	5.23	
RW31	MAP	1110 MSL		CA			312.98		
1110 MSL		GABDY		DF	FO	1.00			2600

MISSED APPROACH

MAP:

LNAV: RW31

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2600 DIRECT GABDY AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY 50 CHECKED

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. HOLD SE IHOME, RT, 313.03 INBOUND, 2600 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 312.98 **FAF:** YERPI **DIST FAF TO MAP:** 5.23 **DIST FAF TO THLD:** 5.23

4. MIN ALT: IHOME 2600, YERPI 2400

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **GS ANT:**

6. MIN GP INCPT: **GP ALT AT FAF :** **OM:** **MM:** **IM:**

7. GP ANGLE: **34:1:** IS NOT CLEAR **20:1:** IS CLEAR **TCH:**

8. MSA FROM:

PBN REQUIREMENTS NOTE:

RNP APCH

NOTES:

CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: RWY 31 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

ADDITIONAL FLIGHT DATA:

YERPI TO RW31: 3.00/40.0.
CHART VDP AT 1.37 NM TO RW31
FAS OBST: 910 AAO 393552N/0904226W.
HOLD SE, RT, 312.93 INBOUND

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: **NA** ☐ STANDARD

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LNAV MDA	1160	1	455	1160	1	455	1160	1 3/8	455		NA				
CIRCLING	1160	1	450	1240	1	530	1340	1 3/4	630		NA				

QUALITY 10 CHECKED

CHANGES - REASONS

1. TERMINAL ROUTE IHOME TO YERPI, DISTANCE CHANGED FROM 5.04 NM TO 4.97 NM - FAF MOVED WITH NEW IPDS EVALUATION.
2. TERMINAL ROUTE YERPI TO RW31 (MAP), DISTANCE CHANGED FROM 5.16 NM TO 5.23 NM - FAF MOVED WITH NEW IPDS EVALUATION.
3. TERMINAL ROUTE ADDED: RW31 (MAP) TO 1110 MSL (CA) 312.98 - CA LEG ADDED TO MISSED APPROACH INSTRUCTIONS PER 8260.58A 3-5-2. CA ALTITUDE MUST BE THE LOWEST OF DA, MDA OR 400 ABOVE AIRPORT ELEVATION.
4. TERMINAL ROUTES, RW31 (MAP) TO GABDY CHANGED TO 1110 MSL TO GABDY - CA LEG ADDED TO MISSED APPROACH INSTRUCTIONS PER 8260.58A 3-5-2. CA ALTITUDE MUST BE THE LOWEST OF DA, MDA OR 400 ABOVE AIRPORT ELEVATION.
5. PROFILE LINE 3, DISTANCE FAF TO MAP AND FAF TO THLD CHANGED FROM 5.16 NM TO 5.23 - FAF MOVED WITH NEW IPDS EVALUATION.
6. PROFILE LINE 6, MIN GS INCPT 2400 DELETED - LNAV/VNAV MINIMA DELETED.
7. PROFILE LINE 7, GS ANGLE AND TCH DELETED: 3.00/40 - LNAV/VNAV MINIMA DELETED. 20:1 IS CLEAR ADDED - IAW 8260.19H PARA 8-6-7G(3). 34:1 IS CHANGED TO NOT CLEAR - 34:1 PENETRATIONS.
8. LNAV/VNAV MINIMA DELETED - GQS PENETRATION.
9. LNAV CATS A-C MINIMA CHANGED FROM 1100 MDA/395 HAT TO 1160 MDA/455 HAT. CAT C VISIBILITY CHANGED FROM 1SM TO 1 3/8 SM - NEW CONTROLLING OBSTACLE.
10. CIRCLING CAT B MINIMA CHANGED FROM 1160 MDA/450 HAA TO 1240 MDA/530 HAA AND CAT C MINIMA CHANGED FROM 1160 MDA/450 HAA TO 1340 MDA/630 HAA. CAT A/B VISIBILITY CHANGED FROM 1 1/4 SM TO 1SM AND CAT C VISIBILITY CHANGED FROM 1 1/2 SM TO 1 3/4 SM - NEW CONTROLLING OBSTACLE.
11. MISSED APPROACH CHANGED FROM 'CLIMB TO 2600 VIA 313 TRACK TO GABDY AND HOLD' TO 'CLIMB TO 2600 DIRECT GABDY AND HOLD' - UPDATED EVALUATION.
12. ADDITIONAL FLIGHT DATA, OBST CHANGED FROM '839 TREES 393620N/0904237W' TO '910 AAO 393552N/0904226W' - UPDATED OBSTACLE DATA.
13. ADDITIONAL FLIGHT DATA, NOTE DELETED: DISTANCE TO THLD FROM 350 HAT: 1.02 NM - LNAV/VNAV MINIMA DELETED.
14. ADDITIONAL FLIGHT DATA, NOTE CHANGED FROM 'CHART VDP AT 1.15 NM TO RW31' TO 'CHART VDP AT 1.37 NM TO RW31' - UPDATED EVALUATION.
15. ADDITIONAL FLIGHT DATA, MISSED APPROACH HOLDING COURSE INBOUND CHANGED FROM 312.94 TO 312.93 - MATCHING KPPQ RNAV (GPS) RWY 13 MISSED APPROACH COURSE.
16. ADDITIONAL FLIGHT DATA, NOTE ADDED: YERPI TO RW31: 3.00/40.0 - LNAV ONLY PROCEDURE.
17. NOTE DELETED: BARO-VNAV NA BELOW -16C (4F) - LNAV/VNAV MINIMA DELETED.
18. NOTE DELETED: GPS OR RNP-0.3 REQUIRED. DME/DME RNP-0.3 NA - PER MEMO 257.
19. PBN REQUIREMENTS NOTE ADDED: RNP APCH - PER MEMO 257.
20. NOTE ADDED: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
21. NOTE ADDED: RWY 31 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED - PUBLISHED IAW 8260.19H PARA 8-6-11K(3).
22. ALTERNATE MINIMUMS ADDED AS STANDARD - PRIMARY ALTIMETER SOURCE LOCAL, ON-AIRPORT AND ON WMSCR.

QUALITY 10 CHECKED

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
PITTSFIELD PENSTONE MUNI	KPPQ	RNAV (GPS) RWY 31	ORIG-A	PITTSFIELD	IL

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** AMGR, ZKC ARTCC

FLIGHT CHECKED BY		**OFFICE**	**DATE**	
JEFFREY W HARING	*Digitally signed by* ***DAVID TEFFETELLER*** Aug 28, 2018	FICO	8/22/18	
DEVELOPED BY		**OFFICE**	**DATE**	
ANDREA CHANEY	*Digitally signed by* ***ANDREA J CHANEY*** Jun 29, 2018	AJV-5433	05/31/2018	
APPROVED BY		**OFFICE**	**DATE**	**TITLE**
PATRICK MULQUEEN	*Digitally signed by* ***DAVID TEFFETELLER*** Aug 28, 2018	AJV-5430		MANAGER

QUALITY 10 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.29

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

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
METTEL FIELD	KCEV	ILS OR LOC RWY 18	1	CONNERSVILLE	IN

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
866	866	ILS OR LOC RWY 18	ORIG-C	04/02/2015	4W	1995

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
I-SQK		3 JANUARY 2019	ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
SHB VOR/DME		PNTHR LOM				2.00	073.69	33.30	2800

MISSED APPROACH

MAP:

ILS: DA
LOC: 4.16 NM AFTER PNTHR LOM

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2800 THEN LEFT TURN DIRECT SQ LOM AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT R **SIDE OF COURSE** 004.53 **OUTBOUND** 2800 **FT WITHIN** 10 **MILES OF** PNTHR LOM (IAF)

2.

3. FAC: 184.53 **FAF:** PNTHR LOM **DIST FAF TO MAP:** 4.18 **DIST FAF TO THLD:** 4.18

4. MIN ALT: PNTHR LOM 2300

5. DIST TO THLD FROM OM: 4.18 **MM:** **IM:** **150 HAT:** **GS ANT:** 899

6. MIN GS INCPT: 2300 **GS ALT AT FAF :** **OM:** 2255 **MM:** **IM:**

7. GP ANGLE: 3.00 **34:1:** **20:1:** **TCH:** 45.9

8. MSA FROM: SQ LOM 3000

EQUIPMENT REQUIREMENTS NOTES:

ADF REQUIRED.

NOTES:

CHART NOTE: CIRCLING NA TO RWYS 4 AND 22.
CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-LOC 18 CATS C/D VISIBILITY TO 1 1/8 MILE.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE JAMES M COX DAYTON INTL ALTIMETER SETTING AND INCREASE ILS DA TO 1237 FEET AND VISIBILITY ALL CATS TO 5/8

QUALITY 18 CHECKED

MILE, INCREASE ALL MDA 140 FEET AND LOC CATS C/D VISIBILITY TO 1 1/8 MILE, AND CIRCLING CAT B VISIBILITY TO 1 1/4 MILES AND CAT C TO 2 3/4 MILES AND CAT D TO 3 MILES.
CHART NOTE: WHEN USING JAMES M COX DAYTON INTL ALTIMETER SETTING: FOR INOPERATIVE MALSR, INCREASE S-ILS 18 ALL CATS VISIBILITY TO 1 MILE AND INCREASE S-LOC 18 CAT A/B VISIBILITY TO 1 MILE AND CATC/D TO 1 5/8 MILE.

ADDITIONAL FLIGHT DATA:

CHART IN PLANVIEW: (CFPTN) AT 395248.72N/0850743.02W
CHART CIRCLING ICON.
CHART FAS OBST: 1029 TREES 394331N/0850810W.
1141 AAO 394603N/0850733W.
HOLD N, LT, 185.00 INBOUND

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA [X]

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
S-ILS 18	1116	1/2	250	1116	1/2	250	1116	1/2	250	1116	1/2	250			
S-LOC 18	1280	1/2	414	1280	1/2	414	1280	3/4	414	1280	3/4	414			
CIRCLING	1440	1	574	1540	1	674	1620	2 1/4	754	1620	2 1/2	754			

CHANGES - REASONS

INCREASED PT ALTITUDE FROM 2700 TO 2800 - NEW CONTROLLER OBSTACLE.
DELETED FEEDER ROUTE FROM RID VORTAC - RID VORTAC BEING DECOMMISSIONED.
NEW FEEDER ROUTE FROM SHB VOR/DME - RID VORTAC BEING DECOMMISSIONED.
INCREASED MISSED APPROACH ALTITUDE FROM 2700 TO 2800 - PT COMPLETION TURN REQUIRES MINIMUM ALTITUDE OF 2800.
RAISED CIRCLING MDA FOR CAT B AND C - UPDATED CIRCLING CRITERIA IDENTIFIED NEW CONTROLLING OBSTACLE.
LOWERED CIRCLING MDA FOR CAT D TO 1620 - NEW CONTROLLING OBSTACLE.
ADDED CHART CIRCLING ICON - UPDATED CIRCLING CRITERIA.
RESTRICTED CIRCLING TO RWY 4 AND 22 - TURF RUNWAYS.
UPDATED INOP MALSR NOTE - RAISED HAT AND UPDATE CIRCLING AREA.

QUALITY 18 CHECKED

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
METTEL FIELD	KCEV	ILS OR LOC RWY 18	1	CONNERSVILLE	IN

COORDINATED WITH:

A4A ☐ **ALPA** ☐ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZID ARTCC, CMH APP CON, DAY ATCT, AMGR

FLIGHT CHECKED BY		**OFFICE**	**DATE**	*Digitally signed by* ***ALLAN WILL*** Oct 25, 2018	
MICHAEL A GREENWOOD		FICO	10/21/18		
DEVELOPED BY	*Digitally signed by* ***ERIC C GREEN*** Jul 03, 2018	**OFFICE**	**DATE**		
ERIC C. GREEN		AJV-5432	07/02/2018		
APPROVED BY		**OFFICE**	**DATE**	*Digitally signed by* ***ALLAN WILL*** Oct 25, 2018	**TITLE**
PATRICK MULQUEEN		AJV-5430			MANAGER

QUALITY 18 CHECKED

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
VOR STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.23

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

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
METTEL FIELD	KCEV	VOR-A	1B	CONNERSVILLE	IN

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
866		VOR-A	1A	01/18/2007		

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
			ROUTINE	CANCEL

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE

PROCEDURE CANCELLED EFFECTIVE 3 JANUARY 2019

MISSED APPROACH

MAP:

MISSED APPROACH INSTRUCTIONS:

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2.

3. FAC: **FAF:** **DIST FAF TO MAP:** **DIST FAF TO THLD:**

4. MIN ALT:

8. MSA FROM:

EQUIPMENT REQUIREMENTS NOTES:

NOTES:

ADDITIONAL FLIGHT DATA:

MINIMUMS:

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
METTEL FIELD	KCEV	VOR-A	1B	CONNERSVILLE	IN

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA

CHANGES - REASONS

COORDINATED WITH:

A4A ☐ ALPA ☐ AOPA ☐ APA ☐ HAI ☐ NBAA ☐ **OTHER:** AMGR, ZID, DAY ATCT, CMH APP CON

FLIGHT CHECKED BY		**OFFICE**	**DATE**		
DEVELOPED BY	*Digitally signed by*	**OFFICE**	**DATE**		
ERIC C. GREEN	***ERIC C GREEN***	AJV-5432	06/27/2018		
	Jul 02, 2018			*Digitally signed by*	
APPROVED BY		**OFFICE**	**DATE**	***ALLAN WILL***	**TITLE**
PATRICK MULQUEEN		AJV-5430		Oct 25, 2018	

QUALITY 18 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.33

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

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
PERU MUNI	KI76	RNAV (GPS) RWY 1	ORIG-B	PERU	IN

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
779	777	RNAV (GPS) RWY 1	ORIG-A	05/26/2016	4W	2005

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
RNAV		3 JANUARY 2019	ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
MZZ VOR/DME		UNUDE		TF	FB	2.00	291.03	18.13	2600
OCKEL		WANIP		TF	FB	2.00	050.84	27.79	2600
UNUDE	IAF	TONUE	NOPT	TF	FB	1.00	278.70	5.00	2600
WANIP	IAF	TONUE	NOPT	TF	FB	1.00	098.56	5.00	2600
TONUE	IF/IAF	JIRKA		TF	FB	1.00	008.63	6.01	2600
JIRKA	FAF	GOYEV/2.20 NM TO RW01		TF	FB	0.30	008.63	3.32	
GOYEV/2.20 NM TO RW01		RW01	MAP	TF	FO	0.30	008.63	2.20	
RW01	MAP	1179 MSL		CA			008.63		
1179 MSL		NETIY		DF	FO	1.00			2600

MISSED APPROACH

MAP:

LNAV: RW01

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2600 DIRECT NETIY AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY 22 CHECKED

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. HOLD S TONUE, RT, 008.63 INBOUND, 2600 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 008.63 **FAF:** JIRKA **DIST FAF TO MAP:** 5.52 **DIST FAF TO THLD:** 5.52

4. MIN ALT: TONUE 2600, JIRKA 2600, GOYEV/2.20 NM TO RW01 1520

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **GS ANT:**

6. MIN GP INCPT: **GP ALT AT FAF :** **OM:** **MM:** **IM:**

7. GP ANGLE: **34:1:** IS NOT CLEAR **20:1:** IS NOT CLEAR **TCH:**

8. MSA FROM: RW01 2700

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: RWY 1 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: USE GRISSOM ARB ALTIMETER SETTING; WHEN NOT RECEIVED, USE LOGANSPORT ALTIMETER SETTING.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON MZZ VOR/DME RADIALS 221 CW 280.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL AT OCKEL ON V51-97 NORTHWEST BOUND.

ADDITIONAL FLIGHT DATA:

CHART GRISSOM ARB ATIS.
CHART CIRCLING ICON.
JIRKA TO RW01: 3.05/47.
CHART HILL TOP AND TWELVE MILE EAST MOAS
CHART FAS OBST: 865 TREE 404706N/0860900W.
CHART: 980 TOWER 404419N/0860917W.
HOLD N, RT, 188.65 INBOUND

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: **NA** [X]

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LNAV MDA	1240	1	463	1240	1	463	1240	1 3/8	463	1240	1 1/2	463			
CIRCLING	1300	1	521	1300	1	521	1500	2	721	1500	2 1/4	721			

QUALITY 22 CHECKED

CHANGES - REASONS

1. ADDED CHART GRISSOM ARB ATIS - PRIMARY ALTIMETER SOURCE IS REMOTE, ALTIMETER SOURCES CHANGED FROM KOKK/KASW TO KGUS/KGGP PER P-NOTAM ORIG-A (6/8284) AND UPDATED AIRNAV DATA FOR KI76.
2. REMOVED NOTE: NIGHT LANDING: RWY 19 NA AT NIGHT - NOTAM (7/0948), RWY 19 CIRCLING VISUAL AREA IS CLEAR OF 20:1 OBSTACLES. VERIFIED WITH UPDATED OBSTACLE DATABASE.
3. UPDATED CHART NOTE FROM "HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED" TO "RWY 1 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED" - IAW CURRENT DOCUMENTATION CRITERIA.
4. ADDED PBN EQUIPMENT REQUIREMENTS NOTE "RNP APCH" - IAW FAAO 8260.19H, PARA 8-6-8.
5. REMOVED CHART NOTE: DME/DME-0.3 NA - NO LONGER REQUIRED.
6. INCORPORATED NEW CIRCLING CRITERIA AND ADDED "CHART CIRCLING ICON" UNDER ADDITIONAL FLIGHT DATA. CIRCLING CAT C MDA/HAA CHANGED FROM 1300/521 TO 1500/721, VISIBILITY CHANGED FROM 1 1/2 SM TO 2 SM; CIRCLING CAT D MDA/HAA CHANGED FROM 1340/561 TO 1500/721, VISIBILITY CHANGED FROM 2 SM TO 2 1/4 SM - INCORPORATED NOTAM (7/0948) TO MATCH PREVIOUSLY FLIGHT CHECKED AND CHARTED CIRCLING MINIMA FROM THE RNAV (GPS) RWY 19 AMDT 1.
7. UNDER ADDITIONAL FLIGHT DATA, DELETED NOTES: KOKK AWOS-3 113.5; TDZ ELEVATION 779; ROUTE TYPE: A, R; ROUTE TYPE QUALIFIER 1: J; ROUTE TYPE QUALIFIER 2: S - NO LONGER REQUIRED IAW FAAO 8260.19H.
8. ARINC CODING NUMBERS REMOVED FROM TERMINAL ROUTES - NO LONGER REQUIRED IAW FAAO 8260.19H.
9. LINE 7: ADDED 20:1 IS NOT CLEAR - VISUAL AREA PENETRATION EXISTS BUT IS MARKED AND LIT.
10. UPDATED ALTIMETER NOTE FROM "USE GRISSOM ARB ALTIMETER SETTING; WHEN NOT RECEIVED USE LOGANSPORT ALTIMETER SETTING AND INCREASE ALL MDA 40 FEET, INCREASE LNAV CAT C/D VISIBILITY 1/4 MILE" TO "CHART NOTE: USE GRISSOM ARB ALTIMETER SETTING; WHEN NOT RECEIVED, USE LOGANSPORT ALTIMETER SETTING - LOGANSPORT ALTIMETER UTILIZED FOR CHARTED MDA/VISIBILITY, BOTH RASS VALUES ROUND UP TO 40 FEET.
11. INCREASED LNAV CAT C VISIBILITY FROM 1 1/4 SM TO 1 3/8 SM - PER ORDER 8260.3C, CHAPTER 3 VISIBLITY TABLES.
12. ADDED RNP VALUES TO TERMINAL ROUTES - IAW FAAO 8260.58A, TABLE 1-2-1.
13. UPDATED CHART PLANVIEW NOTE FROM "PROCEDURE NA FOR ARRIVAL AT MZZ VOR/DME VIA V214 EASTBOUND" TO "PROCEDURE NA FOR ARRIVALS ON MZZ VOR/DME RADIALS 221 CW 280" - TURNS ARE OVER 90 DEGREES.
14. ADDED CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL AT OCKEL ON V51-97 NORTHWEST BOUND - TURNS ARE OVER 90 DEGREES.
15. ADDITIONAL FLIGHT DATA CHANGED CHART FAS OBST: FROM 864 TREE 404651N/0860930W TO 865 TREE 404706N/0860900W - NEW CONTROLLING OBSTACLE FROM UPDATED OBSTACLE DATA, MINIMA UNCHANGED.
16. ADDED: CHART 980 TOWER 404419N/0860917W TO ADDITIONAL FLIGHT DATA - NEW 7:1 OBSTACLE.

PDF EDITS: 8/10/2018
1. REMOVED "ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED" FROM NOTES/EXPLANATIONS FROM PROCEDURE SEGMENT - KNOWN SIAP ERROR.

10/05/2018: THIS IS AN UPDATED COPY OF THE FORMS DEVELOPED ON 05/15/2018.
CORRECTED CIRCLING CATS C/D CONTROLLING OBSTACLE - CHANGED CAT C CIRCLING OBSTACLE TOWER TO MATCH CAT D CIRCLING OBSTACLE. TYPO CORRECTED FROM "(18-002058)" AT "411302,76N/0854633.72W" TO "(18-002258)" AT "404645.00N/0860524.00W" - IAW FC N79 PILOT'S REQUIRED CHANGE PER SAT WITH CHANGES FLIGHT INSPECTION REPORT FLOWN ON 10/03/2018.

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZAU, GUS APP CON, AMGR.

FLIGHT CHECKED BY	*Digitally signed by*		**OFFICE**	**DATE**
GREGORY SCOTT WIEBE	***ROBERT G HAMILTON***		FIOG	10/03/2018
	Oct 09, 2018			
DEVELOPED BY		*Digitally signed by*	**OFFICE**	**DATE**
WILLIAM HANBY		***WILLIAM HANBY***	AJV-5422	05/15/2018
		Oct 05, 2018		
APPROVED BY	*Digitally signed by*		**OFFICE**	**DATE**
JULIE MORGAN	***ROBERT G HAMILTON***		AJV-5420	
	Oct 09, 2018			

TITLE
MANAGER

QUALITY 35 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.33

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Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or feet RVR.

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
FREEMAN FIELD	K3JC	RNAV (GPS) RWY 36	ORIG-E	JUNCTION CITY	KS

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
1102	1102	RNAV (GPS) RWY 36	ORIG-D	10/15/2015	5E	2000

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
RNAV		3 JANUARY 2019	ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
HEYDN		DABRE		TF	FB	2.00	295.43	19.86	3600
SLN VORTAC		CAMLA		TF	FB	2.00	091.48	31.42	3600
DABRE	IAF	BUKBE	NOPT	TF	FB	1.00	265.07	5.00	3600
CAMLA	IAF	BUKBE	NOPT	TF	FB	1.00	084.93	5.00	3600
BUKBE	IF/IAF	AMIBE		TF	FB	1.00	355.00	5.00	2900
AMIBE	FAF	EGETE	MAP	TF	FO	0.30	355.00	5.05	
EGETE	MAP	1502 MSL		CA			355.00		
1502 MSL		BUKBE		DF	FO	1.00			3600

MISSED APPROACH

MAP:

LNAV: EGETE

MISSED APPROACH INSTRUCTIONS:

CLIMBING RIGHT TURN TO 3600 DIRECT BUKBE AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY 22 CHECKED

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. HOLD S BUKBE, RT, 355.00 INBOUND, 3600 FT. IN LIEU OF PT (IAF), MAX 10000.

3. FAC: 355.00 **FAF:** AMIBE **DIST FAF TO MAP:** 5.05 **DIST FAF TO THLD:** 5.53

4. MIN ALT: BUKBE 3600, AMIBE 2900

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **GS ANT:**

6. MIN GP INCPT: **GP ALT AT FAF :** **OM:** **MM:** **IM:**

7. GP ANGLE: **34:1:** IS NOT CLEAR **20:1:** IS NOT CLEAR **TCH:**

8. MSA FROM: EGETE 3400

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: CIRCLING RWY 5, 23, 13, 31 NA.
CHART NOTE: CIRCLING NA W OF RWY 18-36.
CHART NOTE: PROCEDURE NA AT NIGHT.
CHART NOTE: RWY 36 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART NOTE: USE MARSHALL AAF, KS ALTIMETER SETTING.

ADDITIONAL FLIGHT DATA:

CHART PLANVIEW NOTE: FINAL APPROACH COURSE OFFSETT 13.64 DEGREES.
CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES.
CHART FAS OBST: 1960 TOWER 390050N/0965216W.
FAC CROSSES RWY C/L EXTENDED 3000 FT FROM THLD.

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: **NA** [X]

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LNAV MDA	2120	1 1/4	1018	2120	1 1/2	1018		NA			NA				
CIRCLING	2120	1 1/4	1018	2120	1 1/2	1018		NA			NA				

QUALITY 22 CHECKED

CHANGES - REASONS

1. ADD PBN REQUIREMENT NOTE: RNP APCH. - IAW 8260.19H PARA 8-6-8B(1)
2. DELETED DME /DME RNP-0.3 NOTE-NO LONGER REQUIRED.
3. ADDED CHART NOTE: CIRCLING RWY 5, 23, 13, 31 NA - FDC NOTAM 5/1341 TURF RWY/ 20:1 PENS
4. REMOVED VDP - PER FLIGHT CHECK. P-NOTAM ORIG-B
5. ADDED CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES - REMOVED VDA PER FLIGHT INSPECTION.
6. REMOVED NOTE AMIBE TO RW36: 3.00/40 - REMOVED VDA
7. CAT C MINIMUMS REMOVED - P-NOTAM ORIG-C.
8. RAISED INTERMEDIATE RNP FROM .5 TO 1 - NEW RNP REQUIREMENTS
9. ADDED CA LEG TO MISSED APPROACH - IAW ORDER 8260.58, U.S. STANDARD FOR PERFORMANCE BASED NAVIGATION (PBN) INSTRUMENT PROCEDURE DESIGN AND 8260.19H PARA 4-5-6D
10. ADDED PROCEDURE NA AT NIGHT AND HELICOPTER VISIBILITY RESTRICTION NOTES - 20:1/34:1 PENETRATIONS NOTAM 8/7899
11. FINAL CONTROLLING OBSTACLE IN ADDITIONAL FLIGHT DATA CHANGED FROM 1918 MSL TOWER (2C) TO 1960 MSL TOWER (4D) - P-NOTAM ORIG-B.
12. LNAV MDA/HAT AND CIRCLING MDA/HAA CAT A/B CHANGED FROM 2000/899 TO 2120/1019 AND CAT B VISIBILITY FROM 1 1/4 TO 1 1/2 - P-NOTAM ORIG-B.
13. AIRPORT ELEVATION CHANGE FROM 1101 TO 1102 - NEW SURVEY.
14. CIRCLING CAT A/B HAA CHANGED FROM 1019 TO 1018 - NEW AIRPORT ELEVATION.
15. ADDED: FAC CROSSES RWY C/L EXTENDED 3000 FT FROM THLD TO ADDITIONAL FLIGHT DATA - IAW 8260.19H PARA 8-6-10G(2)
16. REMOVED: FINAL SEGMENT (TF) FROM ADDITIONAL FLIGHT DATA - NOT REQUIRED.
17. ADDED: DIST FAF TO MAP: 5.05 TO LINE 3 - IAW 8260.19H PARA 8-6-7C(3)

COORDINATED WITH:

A4A ☐ **ALPA** ☐ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** AMGR, ZKC ARTCC, ATA

FLIGHT CHECKED BY		OFFICE	DATE
FLIGHT INSPECTION REVIEW NOT REQUIRED - PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, DEC 22, 2017.	*Digitally signed by* ***DAVID DANNER*** Oct 17, 2018		
DEVELOPED BY		**OFFICE**	**DATE**
ROSE BOONE	*Digitally signed by* ***ROSE BOONE*** Oct 10, 2018	AJV-5421	07/24/2018
APPROVED BY		**OFFICE**	**DATE**
JULIE MORGAN	*Digitally signed by* ***DAVID DANNER*** Oct 17, 2018	AJV-5420	

TITLE
MANAGER

QUALITY 22 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.33

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

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
EUNICE	K4R7	RNAV (GPS) RWY 34	ORIG-A	EUNICE	LA

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
42	42	RNAV (GPS) RWY 34	ORIG	10/30/2003	2E	2005

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
RNAV		3 JANUARY 2019	ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
CRISP	IAF	FOLEN		TF	FB	1.00	029.62	8.35	1800
FOLEN	IF	CEMIS		TF	FB	1.00	012.11	6.00	1500
CEMIS	FAF	RW34	MAP	TF	FO	0.30	355.00	4.43	
RW34	MAP	442 MSL		CA			355.00		
442 MSL		CIGOM		DF	FB	1.00			
CIGOM		JEGIL		TF	FO	1.00	341.67	9.85	1700

MISSED APPROACH

MAP:

LNAV: RW34

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1700 DIRECT CIGOM AND ON TRACK 341.67 TO JEGIL AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. PROFILE STARTS AT FOLEN

3. FAC: 355.00 **FAF:** CEMIS **DIST FAF TO MAP:** 4.43 **DIST FAF TO THLD:** 4.43

4. MIN ALT: FOLEN 1800, CEMIS 1500

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **GS ANT:**

6. MIN GP INCPT: **GP ALT AT FAF :** **OM:** **MM:** **IM:**

7. GP ANGLE: **34:1:** IS NOT CLEAR **20:1:** IS NOT CLEAR **TCH:**

8. MSA FROM: RW34 2900

QUALITY 23 CHECKED

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: PROCEDURE NA AT NIGHT.
CHART NOTE: RWY 34 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART NOTE: USE LAFAYETTE RGNL/PAUL FOURNET FIELD ALTIMETER SETTING.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL AT CRISP ON V20-70 WESTBOUND.

ADDITIONAL FLIGHT DATA:

CHART LAFAYETTE RGNL/PAUL FOURNET FIELD ASOS-3.
CHART PROFILE NOTE: VISUAL SEGMENT - OBSTACLES.
CHART FAS OBST: 290 TOWER 302546N/0922431W.
HOLD N, RT, 163.88 INBOUND

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA [X]

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LNAV MDA	660	1	618	660	1	618	660	1 3/4	618		NA				
CIRCLING	660	1	618	660	1	618	660	1 3/4	618		NA				

CHANGES - REASONS

REMOVED ALL VDA DATA - PER FLIGHT CHECK, VDA FAILED FLT INSP. DESCENT ANGLE 3.00/45 UNSAT FOR TREES .5 NM FROM THLD.
REMOVED - CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT - VDA REMOVED.
REMOVED NOTES, GPS OR RNP-0.3 REQUIRED, DME/DME RNP -0.3 NA - REPLACED WITH REPLACED WITH PBN REQUIREMENT NOTE: RNP APCH - EQUIPMENT NAVSPEC REQUIREMENTS.
ADDED 34:1 IS NOT CLEAR - NO SURVEY FOR RWY 16/34, ASSUME 20:1 AND 34:1 PENETRATIONS EXIST
ADDED 20:1 IS NOT CLEAR - NO SURVEY FOR RWY 16/34, ASSUME 20:1 AND 34:1 PENETRATIONS EXIST.
ADDED CHART NOTE: RWY 34 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED - NO SURVEY FOR RWY 16/34, ASSUME 20:1 AND 34:1 PENETRATIONS EXIST.
DELETED CHART NOTE: GPS OR RNP-0.3 REQUIRED - CRITERIA NO LONGER EXIST FOR THIS NOTE.
DELETED CHART NOTE: DME/DME RNP-0.3 NA - REPLACED WITH PBN REQUIREMENT NOTE: RNP APCH.
CHANGED CHART NOTE FROM WHEN VGSI INOPERATIVE, CIRCLING RWY 16 NA AT NIGHT "TO" PROCEDURE NA AT NIGHT - NO SURVEY FOR RWY 16/34, ASSUME 20:1 AND 34:1 PENETRATIONS EXIST.
UPDATED PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL AT CRISP VIA V20-70 WESTBOUND - CRITERIA
NEW WORDING, VIA CHANGED TO ON.
ADDED DIST FAF TO MAP: 4.43 - CRITERIA DIRECTED, ALL RNAV PROCEDURES MUST HAVE THE FAF TO MAP DISTANCE SPECIFIED.
CHANGED MISSED APPROACH INSTRUCTIONS FROM "CLIMB TO 1700 DIRECT CIGOM WP AND VIA 341.67 TRACK TO JEGIL WP AND HOLD." TO "CLIMB TO 1700 DIRECT CIGOM AND ON TRACK 341.67 TO JEGIL AND HOLD" - IAW 8260.19H, 8-6-6D.

10/18/2018: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 10/01/2018.
1. REMOTE ALTIMETER NAME CHANGED FROM LAFAYETTE REGIONAL TO LAFAYETTE RGNL/PAUL FOURNET FIELD.
2. ADDITIONAL FLIGHT DATA: ADDED CHART LAFAYETTE RGNL/PAUL FOURNET FIELD ASOS-3.

QUALITY 35 CHECKED

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZHU, LFT APCH, AIRPORT MANAGER, ST. AV. DIR.

FLIGHT CHECKED BY		OFFICE	DATE
FLIGHT INSPECTION REVIEW NOT REQUIRED - PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, DEC 22, 2017.	*Digitally signed by* ***DAVID DANNER*** Oct 19, 2018		
DEVELOPED BY		**OFFICE**	**DATE**
DEANNA M. FIELDS	*Digitally signed by* ***DEANNA M FIELDS*** Sep 17, 2018	AJV-5421	08/15/2018
APPROVED BY		**OFFICE**	**DATE**
JULIE MORGAN	*Digitally signed by* ***DAVID DANNER*** Oct 19, 2018	AJV-5421	

TITLE
MANAGER

QUALITY 35 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.33

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

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
TAUNTON MUNI - KING FIELD	KTAN	RNAV (GPS) RWY 30	2	TAUNTON	MA

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
42	42	RNAV (GPS) RWY 30	1	06/22/2017	16W	1985

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
RNAV		3 JANUARY 2019	ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
GAILS	IAF	EKAYO	NOPT	TF	FB	1.00	271.46	17.02	3000
ZUNUX	IAF	EKAYO	NOPT	TF	FB	1.00	025.87	10.06	3000
EKAYO	IF/IAF	ICARA		TF	FB	1.00	311.88	6.90	1900
ICARA	FAF	RW30	MAP	TF	FO	0.30	303.76	4.71	
RW30	MAP	600 MSL		CA			303.76		600
600 MSL		INNDY		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW30

MISSED APPROACH INSTRUCTIONS:

(DO NOT EXCEED 210 KIAS UNTIL INNDY) CLIMB TO 600 THEN CLIMBING LEFT TURN TO 3000 DIRECT INNDY AND HOLD. CONTINUE CLIMB IN HOLD TO 3000.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY 10 CHECKED

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. HOLD SE EKAYO, RT, 311.88 INBOUND, 3000 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 303.76 **FAF:** ICARA **DIST FAF TO MAP:** 4.71 **DIST FAF TO THLD:** 4.71

4. MIN ALT: EKAYO 3000, ICARA 1900

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **346 HAT:** 0.75 **GS ANT:**

6. MIN GP INCPT: 1900 **GP ALT AT FAF :** ICARA 1900 **OM:** **MM:** **IM:**

7. GP ANGLE: 3.60 **34:1:** IS NOT CLEAR **20:1:** IS NOT CLEAR **TCH:** 59.0

8. MSA FROM: RW30 2500

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: CIRCLING NA TO RWYS 04 AND 22.
CHART NOTE: RWY 30 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -23C OR ABOVE 46C.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT GAILS ON V151 EASTBOUND AND ON V141 SOUTHEAST BOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ZUNUX ON V167 SOUTHEAST BOUND.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
CHART R-4101
WAAS CHANNEL #58139
REFERENCE PATH ID: W30A
CHART FAS OBST: 263 TOWER 415128N/0705747W.
HOLD SE, LT, 330.61 INBOUND
LTP HAE: -16.3 M

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: **NA** ☐ STANDARD

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LPV DA	388	1	346	388	1	346	388	1	346		NA				
LNAV/VNAV DA	526	1 3/8	484	526	1 3/8	484	526	1 3/8	484		NA				
LNAV MDA	600	1	558	600	1	558	600	1 5/8	558		NA				
CIRCLING	600	1	558	600	1	558	660	1 3/4	618		NA				

QUALITY 10 CHECKED

CHANGES - REASONS

1. CHANGED TERMINAL ROUTE FROM EKAYO TO ICARA COURSE AND DISTANCE FROM 312.88/6.14 TO 311.88/6.90 - ICARA FIX MOVED 0.76 NM WEST.
2. CHANGED TERMINAL ROUTE FROM ICARA TO RW30 (MAP) DISTANCE FROM 5.47 TO 4.71 - ICARA FIX MOVED 0.76 NM WEST.
3. CHANGED TERMINAL ROUTES AND MISSED APPROACH INSTRUCTIONS CLIMB TO ALTITUDE ALL ROUTES FROM 500 TO 600 - NEW CRITERIA APPLIED AND MISSED APPROACH RE-DESIGN.
4. CHANGED PROFILE SECTION LINE 2 H-I-L INBOUND COURSE FROM 312.88 TO 311.88 - ICARA FIX MOVED 0.76 NM WEST.
5. CHANGED PROFILE SECTION LINE 3 DIST FAF TO MAP: /THLD: FROM 5.47 TO 4.71 - ICARA FIX MOVED 0.76 NM WEST.
6. CHANGED PROFILE SECTION LINE 5 (ADDTIONAL FLIGHT DATA NOTE) FROM "DISTANCE TO THLD FROM 317 HAT: 0.79 NM" TO "DISTANCE TO THLD FROM 346 HAT: 0.75" - GS ANGLE/HAT INCREASE.
7. CHANGED PROFILE SECTION LINE 7 GS ANGLE FROM 3.10 TO 3.60 - CHANGED TO ALIGN WITH VGSI ANGLE 3.60.
8. ADDED TO PROFILE SECTION LINE 7 "20:1: IS NOT CLEAR" - 20:1 VISUAL SURFACE PENETRATIONS.
9. CHANGED ADDTIONAL FLIGHT DATA NOTE FROM "CHART FAS OBST: 300 CELL TOWER 415205N/0705736W" TO "CHART FAS OBST: 263 TOWER 415128N/0705747W" - FINAL SEGMENT RE-DESIGNED AND NEW OBSTACLE EVALUATION COMPLETED.
10. DELETED MINIUMS CAT D ALL APPROACHES - INCREASED GS ANGLE TO 3.60.
11. CHANGED MINIMUMS LPV DA/HAT CATS A-C FROM 359/317 TO 388/346 - FINAL SEGMENT RE-DESIGNED AND NEW OBSTACLE EVALUATION COMPLETED.
12. CHANGED MINIMUMS LNAV/VNAV CATS A-C VISIBILITY FROM 1 1/2 SM TO 1 3/8 SM - NEW 8260.3C VISIBILITY TABLES APPLIED.
13. CHANGED NOTE FROM "CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -3C (27F) OR ABOVE 54C (130F)" TO "CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -23C OR ABOVE 46C" - NEW NOAA 5 YEAR AVERAGE TEMPERATURES CALCULATED AND APPLIED.
14. DELETED NOTE "CHART NOTE: DME/DME RNP-0.3 NA" AND ADDED NOTE "RNP APCH" - IAW .19H DOCUMENTATION OF EQUIPMENT NOTES.
15. DELETED NOTES "CHART NOTE: BARO-VNAV NA WHEN USING NEW BEDFORD ALTIMETER SETTING" AND "CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE NEW BEDFORD ALTIMETER SETTING AND INCREASE LPV DA TO 393 FT, LNAV/VNAV DA TO 560 FT, AND ALL MDAS 40 FT, INCREASE LPV AND LNAV/VNAV VISIBILITIES ALL CATS 1/8 SM, INCREASE LNAV CAT C/D VISIBILITY 1/8 SM, AND INCREASE CIRCLING CAT VISIBILITY 1/4 SM" - PER .19H PARA 8-6-9 F(3) NOT REQUIRED WHEN ASOS NON-FED TRANSMITS TO WMSCR. DATA PLACED ON BACK OF -9 FOR NOTAM CONTINGENCY.
16. CHANGED FAS DATA FPAP LATITUDE/LONGITUDE FROM "415243.4475N/0710220.9140W" TO "415243.4620N/0710220.9075W" - GS ANGLE INCREASE AND FINAL SEGMENT LENGTH CHANGE.
17. CHANGED FAS DATA GLIDEPATH ANGLE (GPA) FROM '03.10' TO '03.60' - INCREASED TO MATCH VGSI ANGLE.
18. CHANGED FAS DATA CRC REMAINDER FROM "41A50A51" TO "179A6ACB" - PROCEDURE RE-DESIGN AND CHANGE.

QUALITY 10 CHECKED

COORDINATED WITH:

A4A [X] **ALPA** [X] **AOPA** [X] **APA** [ ] **HAI** [ ] **NBAA** [X] **OTHER:** ZBW, PVD APP CON, AMGR

FLIGHT CHECKED BY		**OFFICE**	**DATE**	
DURLEY J FELDER	*Digitally signed by* ***DAVID DANNER*** Oct 26, 2018	FICO	10/23/18	
DEVELOPED BY		**OFFICE**	**DATE**	
DEZ SILAGYI (DARREN HOOPER)	*Digitally signed by* ***DAVID DANNER*** Oct 26, 2018	AJV-5421	07/24/2018	
APPROVED BY		**OFFICE**	**DATE**	**TITLE**
JULIE MORGAN	*Digitally signed by* ***DAVID DANNER*** Oct 26, 2018	AJV-5420		MANAGER

QUALITY 10 CHECKED

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KTAN
RUNWAY	RW30
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W30A
LTP/FTP LATITUDE	415216.3910N
LTP/FTP LONGITUDE	0710027.2725W
LTP/FTP ELLIPSOIDAL HEIGHT	-00163
FPAP LATITUDE	415243.4620N
FPAP LONGITUDE	0710220.9075W
THRESHOLD CROSSING HEIGHT (TCH)	00059.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.60
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1688
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	179A6ACB

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00126
FPAP ORTHOMETRIC HEIGHT	+00126

QUALITY 10 CHECKED

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
VOR STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.23

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

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
ALBERT LEA MUNI	KAEL	VOR RWY 35	1C	ALBERT LEA	MN

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
1261	1261	VOR/DME RWY 35	1B	11/10/2016	1E	2010

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
AEL		3 JANUARY 2019	ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
ALMAY INT		AEL VOR/DME					156.71	24.45	2900
KASPR INT		AEL VOR/DME					196.48	17.85	2900
AEL VOR/DME		POTOY/5.00 DME					162.00	5.00	2900
MCW VOR/DME	IAF	IKABE/11.00 DME	NOPT				357.32	24.73	2900
IKABE/11.00 DME	IF	POTOY/5.00 DME					342.00	6.00 (AEL R-162)	2800

MISSED APPROACH

MAP:

COBOS/AEL 0.48 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2500 THEN CLIMBING RIGHT TURN TO 2900 DIRECT AEL VOR/DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT R **SIDE OF COURSE** 162.00 **OUTBOUND** 2900 **FT WITHIN** 10 **MILES OF** POTOY (IAF)

2.

3. FAC: 342.00 **FAF:** POTOY/5.00 DME **DIST FAF TO MAP:** **DIST FAF TO THLD:** 4.52

4. MIN ALT: POTOY/5.00 DME 2800, CILSO/2.10 DME 1880

8. MSA FROM: AEL VOR/DME 3400

EQUIPMENT REQUIREMENTS NOTES:

DME REQUIRED.

NOTES:

CHART NOTE: CIRCLING RWY 5, 23 NA AT NIGHT.

QUALITY 16 CHECKED

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
ALBERT LEA MUNI	KAEL	VOR RWY 35	1C	ALBERT LEA	MN

CHART NOTE: RWY 35 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
*1940 WHEN USING AUSTIN ALTIMETER SETTING.

ADDITIONAL FLIGHT DATA:

CILSO TO RW35: 3.31/50.
CHART FAS OBST: 1428 TOWER 433847N/0932205W.
FAC CROSSES RWY C/L EXTENDED 2783 FT FROM THLD.
HOLD N, RT, 162.00 INBOUND

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: **NA** ☐ STANDARD

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
S-35	1740	1	479	1740	1	479	1740	1 3/8	479	1740	1 3/8	479			
CIRCLING	1780	1	519	1780	1	519	1780	1 1/2	519	1820	2	559			

CHANGES - REASONS

1. CHANGED PROCEDURE NAME FROM VOR/DME RWY 35 TO VOR RWY 35 - IN ACCORDANCE WITH FAAO 8260.3C, PARA 1-6-2.
2. ADDED EQUIPMENT REQUIREMENT NOTE DME REQUIRED - IN ACCORDANCE WITH FAAO 8260.19H, PARA 8-6-8.
3. AMENDED S-35 MDA/HAT FROM 1720/519 TO 1740/539 - NEW CONTROLLING OBSTACLE IDENTIFIED IN STEPDOWN FINAL.
4. DELETED CHART 1571 TOWER 433807N/0932221W IN ADDITIONAL FLIGHT DATA - NO LONGER REQUIRED.
5. DELETED CHART FAS OBST 1415 TOWER 433956N/0932225W IN ADDITIONAL FLIGHT DATA - REPLACED BY NEW FAS OBST.
6. ADDED CHART FAS OBST 1428 TOWER 433847N/0932205W IN ADDITIONAL FLIGHT DATA - NEW CONTROLLING OBSTACLE IDENTIFIED.
7. DELETED VDP AT 1.44 DME, 0.96 NM TO THLD - IN ACCORDANCE WITH FAAO 8260.3D, PARA 2-6-5A(5), COMPUTED VDP IS LESS THAN 0.50 NM FROM FINAL STEPDOWN FIX.
8. DELETED NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA - REPLACED BY UPDATED NOTE.
9. ADDED NOTE: RWY 35 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED - FORMATTED IN ACCORDANCE WITH FAAO 8260.19H, PARA 8-6-11K(3).
10. DELETED NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE AUSTIN ALTIMETER SETTING AND INCREASE ALL MDA 60 FEET - LOCAL AWOS IS ON WMSCR. BACK-UP ALTIMETER ADJUSTMENTS AND NOTES MOVED TO FAA FORM 8260-9 FOR CONTINGENCY USE DURING KAEL AWOS OUTAGES.
11. DELETED NOTE: CAT D STRAIGHT-IN MINIMUMS NA WHEN USING AUSTIN ALTIMETER SETTING - LOCAL AWOS IS ON WMSCR. BACK-UP ALTIMETER ADJUSTMENTS AND NOTES MOVED TO FAA FORM 8260-9 FOR CONTINGENCY USE DURING KAEL AWOS OUTAGES.
12. DELETED NOTE: VDP NA WITH AUSTIN ALTIMETER SETTING - NO LONGER NEEDED, VDP REMOVED FROM PROCEDURE.
13. DELETED NOTE: CIRCLING TO RWY 5/23 NA AT NIGHT - REPLACED BY UPDATED NOTE.
14. ADDED NOTE: CIRCLING RWY 5, 23 NA AT NIGHT - FORMATTED IN ACCORDANCE WITH FAAO 8260.19H, PARA 8-6-11O(2)(G).
15. DELETED ALTERNATE MINIMUMS RESTRICTION NA WHEN LOCAL WEATHER NOT AVAILABLE - NO LONGER REQUIRED, LOCAL AWOS IS ON WMSCR.
16. INCORPORATED CHANGES FROM AMDT 1A AND 1B - IN ACCORDANCE WITH FAAO 8260.19H, PARA 8-3-4C(2).

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZMP, RST APP CON, AMGR

FLIGHT CHECKED BY		**OFFICE**	**DATE**	
GLEN B FREEMAN	*Digitally signed by* ***JACOB POWERS*** Oct 26, 2018	FICO	10/23/18	
DEVELOPED BY		**OFFICE**	**DATE**	
PETER R. GUIMOND	*Digitally signed by* ***PETER R GUIMOND*** Aug 21, 2018	AJV-5422	08/21/2018	
APPROVED BY		**OFFICE**	**DATE**	**TITLE**
JULIE MORGAN	*Digitally signed by* ***JACOB POWERS*** Oct 26, 2018	AJV-5420		MANAGER

QUALITY 16 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.33

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

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
BIGFORK MUNI	KFOZ	RNAV (GPS) RWY 15	ORIG-C	BIGFORK	MN

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
1351	1351	RNAV (GPS) RWY 15	ORIG-B	12/11/2014	2E	1995

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
RNAV		3 JANUARY 2019	ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
YOBRI		DUCDO		TF	FB	2.00	356.35	36.25	4000
DUCDO	IAF	BOYKI	NOPT	TF	FB	1.00	058.49	6.75	4000
ENEPY	IAF	BOYKI	NOPT	TF	FB	1.00	238.72	7.48	4000
BOYKI	IF/IAF	AWUNA		TF	FB	1.00	148.60	5.00	3000
AWUNA	FAF	HOXAS/1.70 NM TO RW15		TF	FB	0.30	148.65	3.35	
HOXAS/1.70 NM TO RW15		RW15	MAP	TF	FO	0.30	148.65	1.70	
RW15	MAP	1720 MSL		CA			148.65		
1720 MSL		FOLIM		DF	FO	1.00			4000

MISSED APPROACH

MAP:

LP: RW15
LNAV: RW15

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4000 DIRECT FOLIM AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY 35 CHECKED

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. HOLD NW BOYKI, RT, 148.60 INBOUND, 4000 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 148.65 **FAF:** AWUNA **DIST FAF TO MAP:** 5.05 **DIST FAF TO THLD:** 5.05

4. MIN ALT: BOYKI 4000, AWUNA 3000, HOXAS/1.70 NM TO RW15 1920

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **GS ANT:**

6. MIN GP INCPT: **GP ALT AT FAF :** **OM:** **MM:** **IM:**

7. GP ANGLE: **34:1:** IS NOT CLEAR **20:1:** IS CLEAR **TCH:**

8. MSA FROM: RW15 3100

PBN REQUIREMENTS NOTE:

RNP APCH

NOTES:

CHART NOTE: RWY 15 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT YOBRI ON V430 EAST BOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ENEPY ON V217 SOUTHEAST BOUND.

ADDITIONAL FLIGHT DATA:

CHART BEAVER MOA
AWUNA TO RW15: 3.00/40.
CHART VDP AT 1.03 NM TO RW15
WAAS CHANNEL #78126
REFERENCE PATH ID: W15A
CHART FAS OBST: 1461 TREE 474837N/0934030W.
HOLD SE, RT, 328.79 INBOUND
LTP HAE: 382.6 M

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: **NA** ☐ STANDARD

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LP MDA	1720	1	369	1720	1	369		NA			NA				
LNAV MDA	1740	1	389	1740	1	389		NA			NA				
CIRCLING	1780	1	429	1820	1	469		NA			NA				

QUALITY 41 CHECKED

CHANGES - REASONS

- H-I-L AND MISSED HOLDING CHANGED FROM 3000 TO 4000, ADDED CLIMB IN HOLD TO MISSED APPROACH. - PER FLIGHT CHECK 3000 UNSAT DUE TO COMMS.
- TERMINAL ROUTES: FEEDER, INITIALS ALTITUDE RAISED FROM 3000 TO 4000. - TO MATCH RAISED H-I-L ALTITUDE
- ADDED CHART VDP AT 1.03 NM TO RW15. - 20:1 NO LONGER PENETRATED.
- ADDED 20:1 CLEAR. - 20:1 NO LONGER PENETRATED, IAW 8260.19 8-6-7.
- ADDED PBN REQUIREMENTS NOTE: RNP APCH, REMOVED DME/DME RNP-0.3 NA. - IAW 8260.19 8-6-8
- INTERMEDIATE SEGMENT RNP CODE CHANGED FROM 0.50 TO 1.00. - IAW 8260.19 4-6-10-(F)
- REMOVED CIRCLING TO RWY 33 NA AT NIGHT. - RWY 33 NO LONGER HAS 20:1 PENETRATIONS.
- CHANGED MIN ALTITUDE AT BOYKI FROM 3000 TO 4000 - TO MATCH H-I-L.
- BACK UP ALTIMETER CHART NOTE MOVED TO BACK OF 8260-9 FOR CONTINGENCY PURPOSES.
- @ NA WHEN LOCAL WEATHER NOT AVAILABLE NOTE REMOVED. - BOTH ALTIMETER SOURCES ON SERVICE-A.

10/09/18: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 08/13/18.
1. THRE CHANGED TO TDZE. NO CHANGE TO MINIUMS.

COORDINATED WITH:

A4A ☐ **ALPA** ☐ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** AMGR, ZMP

FLIGHT CHECKED BY	*Digitally signed by* ***DAVID DANNER*** Oct 10, 2018	**OFFICE**	**DATE**	
CHRISTOPHER DANIEL FORMAN		FIOG	09/27/2018	
DEVELOPED BY	*Digitally signed by* ***LEO PALMER*** Oct 09, 2018	**OFFICE**	**DATE**	
LEO PALMER		AJV-5421	08/13/2018	
APPROVED BY	*Digitally signed by* ***DAVID DANNER*** Oct 10, 2018	**OFFICE**	**DATE**	**TITLE**
JULIE MORGAN		AJV-5420		MANAGER

QUALITY 35 CHECKED

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KFOZ
RUNWAY	RW15
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W15A
LTP/FTP LATITUDE	474719.3615N
LTP/FTP LONGITUDE	0933917.9005W
LTP/FTP ELLIPSOIDAL HEIGHT	+03826
FPAP LATITUDE	474601.7100N
FPAP LONGITUDE	0933813.2400W
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	1528
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0
CRC REMAINDER	E63F77B3

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+04118
FPAP ORTHOMETRIC HEIGHT	+04118

QUALITY 41 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.33

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Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or feet RVR.

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
BIGFORK MUNI	KFOZ	RNAV (GPS) RWY 33	ORIG-C	BIGFORK	MN

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
1351	1349	RNAV (GPS) RWY 33	ORIG-B	05/28/2015	2E	1995

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
RNAV		3 JANUARY 2019	ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
YOBRI	IAF	FOLIM	NOPT	TF	FB	1.00	033.05	26.22	4000
WIMJY	IAF	FOLIM	NOPT	TF	FB	1.00	349.97	14.59	4000
DUNEC	IAF	FOLIM	NOPT	TF	FB	1.00	238.98	12.14	4000
FOLIM	IF/IAF	WONOD		TF	FB	1.00	328.79	5.00	3000
WONOD	FAF	RW33	MAP	TF	FO	0.30	328.75	5.07	
RW33	MAP	1751 MSL		CA			328.75		
1751 MSL		BOYKI		DF	FO	1.00			4000

MISSED APPROACH

MAP:

LP: RW33
LNAV: RW33

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4000 DIRECT BOYKI AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY 41 CHECKED

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. HOLD SE FOLIM, RT, 328.79 INBOUND, 4000 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 328.75 **FAF:** WONOD **DIST FAF TO MAP:** 5.07 **DIST FAF TO THLD:** 5.07

4. MIN ALT: FOLIM 4000, WONOD 3000

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **GS ANT:**

6. MIN GP INCPT: **GP ALT AT FAF :** **OM:** **MM:** **IM:**

7. GP ANGLE: **34:1:** IS NOT CLEAR **20:1:** IS CLEAR **TCH:**

8. MSA FROM: RW33 3100

PBN REQUIREMENTS NOTE:

RNP APCH

NOTES:

CHART NOTE: RWY 33 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT YOBRI ON V430 EASTBOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WIMJY ON V161 SOUTHBOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT DUNEC ON V217-505 SOUTHEAST BOUND.

ADDITIONAL FLIGHT DATA:

CHART BEAVER MOA
WONOD TO RW33: 3.00/40.
CHART VDP AT 1.48 NM TO RW33
WAAS CHANNEL #40226
REFERENCE PATH ID: W33A
FAS OBST: 1610 AAO 474335N/0933628W.
HOLD NW, RT, 148.60 INBOUND
LTP HAE: 381.1 M

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: **NA** ☐ STANDARD

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LP MDA	1860	1	514	1860	1	514		NA			NA				
LNAV MDA	1860	1	514	1860	1	514		NA			NA				
CIRCLING	1860	1	509	1860	1	509		NA			NA				

QUALITY 41 CHECKED

CHANGES - REASONS

- H-I-L AND MISSED HOLDING CHANGED FROM 3000 TO 4000, ADDED CLIMB IN HOLD TO MISSED APPROACH. - PER FLIGHT CHECK 3000 UNSAT DUE TO COMMS.
- TERMINAL ROUTES: FEEDER, INITIALS ALTITUDE RAISED FROM 3000 TO 4000. - TO MATCH RAISED H-I-L ALTITUDE
- ADDED CHART VDP AT 1.48 NM TO RW33. - 20:1 NO LONGER PENETRATED.
- ADDED 20:1 CLEAR. - 20:1 NO LONGER PENETRATED, IAW 8260.19 8-6-7.
- ADDED PBN REQUIREMENTS NOTE: RNP APCH, REMOVED DME/DME RNP-0.3 NA. - IAW 8260.19 8-6-8
- INTERMEDIATE SEGMENT RNP CODE CHANGED FROM 0.50 TO 1.00. - IAW 8260.19 4-6-10-(F)
- CHART NOTE: PROCEDURE NA AT NIGHT. - RWY 33 NO LONGER HAS 20:1 PENETRATIONS.
- CHANGED MIN ALTITUDE AT FOLIM FROM 3000 TO 4000 - TO MATCH H-I-L.
- BACK UP ALTIMETER NOTE MOVED TO BACK OF 8260-9 FOR CONTINGENCY PURPOSES.
- REMOVED @NA WHEN LOCAL WEATHER NOT AVAILABLE NOTE. - BOTH ALTIMETER SOURCES ON SERVICE-A.

QUALITY 41 CHECKED

COORDINATED WITH:

A4A ☐ **ALPA** ☐ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZMP, AMGR

FLIGHT CHECKED BY	*Digitally signed by* ***DAVID DANNER*** Oct 02, 2018	**OFFICE**	**DATE**	
CHRISTOPHER D FORMAN		FICO	9/27/18	
DEVELOPED BY	*Digitally signed by* ***LEO PALMER*** Sep 05, 2018	**OFFICE**	**DATE**	
LEO PALMER		AJV-5421	08/13/2018	
APPROVED BY	*Digitally signed by* ***DAVID DANNER*** Oct 02, 2018	**OFFICE**	**DATE**	**TITLE**
JULIE MORGAN		AJV-5420		MANAGER

QUALITY 41 CHECKED

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KFOZ
RUNWAY	RW33
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W33A
LTP/FTP LATITUDE	474644.9555N
LTP/FTP LONGITUDE	0933849.2485W
LTP/FTP ELLIPSOIDAL HEIGHT	+03811
FPAP LATITUDE	474802.6100N
FPAP LONGITUDE	0933953.9300W
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	1528
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0
CRC REMAINDER	C927D3E6

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+04102
FPAP ORTHOMETRIC HEIGHT	+04102

QUALITY 41 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.29

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Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or feet RVR.

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
ST LOUIS LAMBERT INTL	KSTL	ILS OR LOC RWY 6	2	ST LOUIS	MO

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
618	551	ILS OR LOC RWY 6	1G	11/09/2017	1W	2020

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
I-JAK		3 JANUARY 2019	ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
FTZ VORTAC	IAF	ENCOE/I-JAK 12.93 DME/RADAR					095.00	16.34	5000
ENCOE/I-JAK 12.93 DME/RADAR	IF	WOODE/I-JAK 8.47 DME/RADAR					063.81	4.46 (I-JAK)	3400
WOODE/I-JAK 8.47 DME/RADAR		ZUDKA/I-JAK 5.49 DME/RADAR					063.81	2.98 (I-JAK)	2400

MISSED APPROACH

MAP:

ILS: DA
LOC: 5.49 NM AFTER ZUDKA/I-JAK 5.49 DME/RADAR OR AT UYIDI/0.22 DME FIX

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT ZUMAY LOM AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000.

ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):

CLIMB TO 1040 THEN CLIMBING RIGHT TURN TO 3000 DIRECT TOY VORTAC AND HOLD.

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. PROFILE STARTS AT ENCOE

3. FAC: 063.81 **FAF:** ZUDKA/I-JAK 5.49 DME/RADAR **DIST FAF TO MAP:** 5.29 **DIST FAF TO THLD:** 5.65

4. MIN ALT: ENCOE/I-JAK 12.93 DME/RADAR 5000, WOODE/I-JAK 8.47 DME/RADAR 3400, ZUDKA/I-JAK 5.49 DME/RADAR 2400

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **GS ANT:** 1184

6. MIN GS INCPT: 2400 **GS ALT AT FAF :** ZUDKA/I-JAK 5.49 DME/RADAR 2400 **OM:** **MM:** **IM:**

7. GP ANGLE: 3.00 **34:1:** **20:1:** **TCH:** 49.9

8. MSA FROM: FZ LOM 090-270 3100, 270-090 2300

EQUIPMENT REQUIREMENTS NOTES:

QUALITY 18 CHECKED

ADF REQUIRED.
DME OR RADAR REQUIRED.
DME OR RADAR REQUIRED FOR PROCEDURE ENTRY.

NOTES:

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON FTZ VORTAC AIRWAY RADIALS 082 CW 095.
FOR INOPERATIVE ALS, INCREASE S-ILS 6 CAT E VISIBILITY TO RVR 4000 AND S-LOC 6 CAT C/D/E VISIBILITY TO 1 3/8 SM.

ADDITIONAL FLIGHT DATA:

CHART PROFILE NOTE: LOC UNUSABLE 0.2 DME INBOUND.
CHART IN PLANVIEW: TOY VORTAC
CHART VDP AT 1.16 DME*
DISTANCE VDP TO THLD 1.31 NM
* LOC ONLY
CHART FAS OBST: 755 TOWER 384256N/0902819W.
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD E TOY VORTAC, RT, 270.00 INBOUND.
HOLD NE, LT, 241.00 INBOUND

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ ILS: STANDARD; LOC: STANDARD

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
S-ILS 06	751	2400	200	751	2400	200	751	2400	200	751	2400	200	751	2400	200
S-LOC 06	1020	2400	469	1020	2400	469	1020	5000	469	1020	5000	469	1020	5000	469

CHANGES - REASONS

1. ALTERNATE MISSED HOLDING POINT AND INSTRUCTIONS CHANGED FROM "CLIMB TO 1000 THEN CLIMBING LEFT TURN TO 3000 ON HEADING 351 AND STL VORTAC R-031 TO FASHE INT AND HOLD" TO "CLIMB TO 1040 THEN CLIMBING RIGHT TURN TO 3000 DIRECT TOY VORTAC AND HOLD" - STL VORTAC TO BE DECOMMISSIONED IN 2025; FPT REQUEST.
2. UPDATED ADDITIONAL FLIGHT DATA FROM "CHART IN PLANVIEW: FASHE" TO "CHART IN PLAN VIEW: TOY VORTAC" - STL VORTAC TO BE DECOMMISSIONED IN 2025; FPT REQUEST.
3. ENCOE, WOODE, TONII FIXES ARE NO LONGER INTERSECTION FIXES - STL VORTAC TO BE DECOMMISSIONED IN 2025; FPT REQUEST.
4. UPDATED CHART PLANVIEW NOTE FROM "RADAR REQUIRED" TO "RADAR OR DME REQUIRED" - INTERSECTION FIXES REMOVED.
5. CHANGED MSA CENTERPOINT FROM STL VORTAC TO FZU LOM - STL VORTAC TO BE DECOMMISSIONED IN 2025; FPT REQUEST.
6. CHANGED PFAF/FAF FROM TONII TO ZUDKA - ALIGNED WITH RNAV PROCEDURE.
7. ADDED VDP TO PROCEDURE - FINAL FAC HAS DME.
8. DISTANCE FAF TO MAP CHANGED FROM 5.04 TO 5.29, FAF TO THLD CHANGED FROM 5.40 TO 5.65 - FAF CHANGED FROM TONII TO ZUDKA.
9. S-LOC CAT E VISIBILTY CHANGED FROM RVR 6000 TO RVR 5000 - CRITERIA CHANGE.

-PDF EDITS
- FORM 8260-9, PAGE 3 OF 9, FINAL:LOC, TO - ADDED "I-JAK" TO UYIDI FIX
- FORM 8260-9, PAGE 3 OF 9, FINAL:LOC, MAP - ADDED "I-JAK" TO UYIDI FIX

COORDINATED WITH:

A4A [X] **ALPA** [X] **AOPA** [X] **APA** [X] **HAI** [ ] **NBAA** [X] **OTHER:** ZKC, STL APP CON, APT MGR, ATA

FLIGHT CHECKED BY		**OFFICE**	**DATE**	
BRIAN HARRELSON	*Digitally signed by* ***DONALD H LANIER*** Oct 17, 2018	FICO	10/11/18	
DEVELOPED BY		**OFFICE**	**DATE**	
LONNIE EVERHART (SCOTT LINDHOLM)	*Digitally signed by* ***DONALD H LANIER*** Oct 17, 2018	AJV-5400	07/02/2018	
APPROVED BY		**OFFICE**	**DATE**	**TITLE**
LONNIE EVERHART	*Digitally signed by* ***DONALD H LANIER*** Oct 17, 2018	AJV-5400		MANAGER

QUALITY 18 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.29

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Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or feet RVR.

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
ST LOUIS LAMBERT INTL	KSTL	ILS OR LOC RWY 11 ILS RWY 11 CAT II, ILS RWY 11 CAT III	1	ST LOUIS	MO

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
618	618	ILS OR LOC RWY 11 ILS RWY 11 CAT II, ILS RWY 11 CAT III	ORIG-D	08/17/2017	1W	2020

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
I-OGZ		3 JANUARY 2019	ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
SISDE INT/I-OGZ 17.78 DME/RADAR	IAF	ZOVUN/I-OGZ 14.88 DME/RADAR					123.17	2.90 (I-OGZ)	5000
ZOVUN/I-OGZ 14.88 DME/RADAR	IF	HIXOB/I-OGZ 10.44 DME/RADAR					123.17	4.44 (I-OGZ)	3500
HIXOB/I-OGZ 10.44 DME/RADAR		JEXAR/I-OGZ 7.42 DME/RADAR					123.17	3.02 (I-OGZ)	2500

MISSED APPROACH

MAP:

ILS: DA
LOC: 5.64 NM AFTER JEXAR/I-OGZ 7.42 DME/RADAR OR AT I-OGZ 1.78 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1060 THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 130 AND FTZ R-095 TO MOODS INT/FTZ 44.70 DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):

CLIMB TO 1060 THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 130 AND ENL R-277 TO MOODS INT/ENL 42.16 DME AND HOLD.

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. PROFILE STARTS AT SISDE

3. FAC: 123.17 **FAF:** JEXAR/I-OGZ 7.42 DME/RADAR **DIST FAF TO MAP:** 5.64 **DIST FAF TO THLD:** 5.64

4. MIN ALT: SISDE INT/I-OGZ 17.78 DME/RADAR 5000, ZOVUN/I-OGZ 14.88 DME/RADAR 5000, HIXOB/I-OGZ 10.44 DME/RADAR 3500, JEXAR/I-OGZ 7.42 DME/RADAR 2500

5. DIST TO THLD FROM OM: 5.64 **MM:** 0.46 **IM:** 860 **100 HAT:** 1128 **150 HAT:** **GS ANT:** 1209

6. MIN GS INCPT: 2500 **GS ALT AT FAF :** JEXAR/I-OGZ 7.42 DME/RADAR 2500 **OM:** **MM:** 819 **IM:** 719

7. GP ANGLE: 3.00 **34:1:** **20:1:** **TCH:** 55.4

8. MSA FROM: FZ LOM 090-270 3100, 270-090 2300

EQUIPMENT REQUIREMENTS NOTES:

QUALITY 18 CHECKED

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
ST LOUIS LAMBERT INTL	KSTL	ILS OR LOC RWY 11 ILS RWY 11 CAT II, ILS RWY 11 CAT III	1	ST LOUIS	MO

RADAR REQUIRED FOR PROCEDURE ENTRY.
DME OR RADAR REQUIRED.

NOTES:

CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 11: CAT A, B, C, D RA 187, RVR 1200, HAT 100, DA 718 MSL.
CAT III ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 11: CAT A, B, C, D RVR 600
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 12R/L.
CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: DISREGARD OM SIGNAL ASSOCIATED WITH ILS TO RWY 12R.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-ILS CAT E VISIBILITY TO RVR 4000, AND S-LOC CAT C/D/E VISIBILITY TO RVR 5500.

ADDITIONAL FLIGHT DATA:

CHART IN PLANVIEW: MOODS INT/ENL 42.16 DME
CHART VDP AT 2.73 DME*
DISTANCE VDP TO THLD 0.95 NM
* LOC ONLY
CHART FAS OBST: 675 TOWER 384819N/0902920W.
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD W MOODS INT/ENL 42.16 DME, RT, 097.00 INBOUND. HOLD E, RT, 275.00 INBOUND (DO NOT CHART)

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ ILS: STANDARD; LOC: STANDARD

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
S-ILS 11	818	1800	200	818	1800	200	818	1800	200	818	1800	200	818	1800	200
S-LOC 11	980	2400	362	980	2400	362	980	3500	362	980	3500	362	980	3500	362

CHANGES - REASONS

1. PRIMARY MISSED APPROACH INSTRUCTIONS CHANGED FROM "...STL VORTAC R-170 TO IMPER INT/STL 24.8 DME..." TO "...FTZ VORTAC R-095 TO MOODS INT/42.20 DME..." - CSX VORTAC DECOMMISSIONED.
2. ALTERNATE MISSED APPROACH INSTRUCTIONS CHANGED FROM "...4500 ON HEADING 179 AND CSX VOR/DME R-185 TO IMPER INT/CSX 18.09 DME..." TO "...3000 ON HEADING 130 AND ON ENL VORTAC R-277 TO MOODS INT/42.20 DME AND HOLD W, RT, 097.00 INBOUND..." - CSX VORTAC DECOMMISSIONED.
3. ZOVUN, HIXOB, JEXAR FIXES ARE NO LONGER INTERSECTION FIXES - STL VORTAC TO BE DECOMMISSIONED IN 2025; FPT REQUEST.
4. UPDATED CHART PLANVIEW NOTE FROM "DME REQUIRED" TO "RADAR OR DME REQUIRED" - INTERSECTION FIXES REMOVED.
5. CHANGED MSA CENTERPOINT FROM STL VORTAC TO FZU LOM - STL VORTAC TO BE DECOMMISSIONED IN 2025; FPT REQUEST.
6. S-ILS 11 CAT E VISIBILITY CHANGED FROM RVR 2400 TO RVR 1800 - CRITERIA CHANGE
7. S-LOC 11 CAT C VISIBILITY CHANGED FROM RVR 2400 TO RVR 3500, CATS D/E CHANGED FROM RVR 4000 TO RVR 3500 - CRITERIA CHANGE.
8. S-LOC 11 INOP VALUE CHANGED FROM RVR 6000 TO RVR 5500 FOR CATS C/D/E - CRITERIA CHANGE.

PDF EDIT:
FORM 8260-3, PAGE 2 OF 3, ADDITIONAL FLIGHT DATA - ADDED "(DO NOT CHART)"

QUALITY 18 CHECKED

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
ST LOUIS LAMBERT INTL	KSTL	ILS OR LOC RWY 11 ILS RWY 11 CAT II, ILS RWY 11 CAT III	1	ST LOUIS	MO

COORDINATED WITH:

A4A [X] **ALPA** [X] **AOPA** [X] **APA** [X] **HAI** [ ] **NBAA** [X] **OTHER:** ZKC, STL ATCT, STL APP CON

FLIGHT CHECKED BY	*Digitally signed by*	**OFFICE**	**DATE**	
BRIAN HARRELSON	***DONALD H LANIER***	FICO	10/11/18	
	Oct 17, 2018			
DEVELOPED BY	*Digitally signed by*	**OFFICE**	**DATE**	
LONNIE EVERHART (SCOTT LINDHOLM)	***DONALD H LANIER***	AJV-5400	06/19/2018	
	Oct 17, 2018			
APPROVED BY		**OFFICE**	**DATE**	**TITLE**
LONNIE EVERHART	*Digitally signed by*	AJV-5400		MANAGER
	DONALD H LANIER			
	Oct 17, 2018			

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.29

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

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
ST LOUIS LAMBERT INTL	KSTL	ILS OR LOC RWY 29	2	ST LOUIS	MO

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
618	580	ILS OR LOC RWY 29	1D	08/17/2017	1W	2020

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
I-RQN		3 JANUARY 2019	ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
FORAM INT/I-RQN 19.65 DME/RADAR	IAF	ZUMLA INT/I-RQN 17.83 DME/RADAR					303.18	1.83 (I-RQN)	6000
ZUMLA INT/I-RQN 17.83 DME/RADAR		HUGBA INT/I-RQN 13.46 DME/RADAR					303.18	4.37 (I-RQN)	4500
HUGBA INT/I-RQN 13.46 DME/RADAR	IF	JIGIM INT/I-RQN 10.50 DME/RADAR					303.18	2.97 (I-RQN)	3500
JIGIM INT/I-RQN 10.50 DME/RADAR		KEGBE INT/I-RQN 6.87 DME/RADAR					303.18	3.62 (I-RQN)	2300

MISSED APPROACH

MAP:

ILS: DA
LOC: 5.22 NM AFTER KEGBE INT/I-RQN 6.87 DME/RADAR OR AT I-RQN 1.65 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1040 THEN CLIMBING LEFT TURN TO 3000 ON HEADING 286.00 AND ON TOY VORTAC R-272 TO HULSO/TOY 36.70 DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):

CLIMB TO 1040 THEN CLIMBING LEFT TURN TO 3000 DIRECT FTZ VORTAC AND HOLD.

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. PROFILE STARTS AT FORAM

3. FAC: 303.18 **FAF:** KEGBE INT/I-RQN 6.87 DME/RADAR **DIST FAF TO MAP:** 5.22 **DIST FAF TO THLD:** 5.22

4. MIN ALT: FORAM INT/I-RQN 19.65 DME/RADAR 6000, ZUMLA INT/I-RQN 17.83 DME/RADAR 6000, HUGBA INT/I-RQN 13.46 DME/RADAR 4500, JIGIM INT/I-RQN 10.50 DME/RADAR 3500, KEGBE INT/I-RQN 6.87 DME/RADAR 2300, JUTNI/I-RQN 3.15 DME/RADAR 1100*

5. DIST TO THLD FROM OM: 5.22 **MM:** **IM:** **150 HAT:** **GS ANT:** 910

6. MIN GS INCPT: 2300 **GS ALT AT FAF :** KEGBE INT/I-RQN 6.87 DME/RADAR 2300 **OM:** **MM:** **IM:**

7. GP ANGLE: 3.00 **34:1:** IS NOT CLEAR **20:1:** IS CLEAR **TCH:** 55.7

8. MSA FROM: FZ LOM 090-270 3100, 270-090 2300

QUALITY 18 CHECKED

EQUIPMENT REQUIREMENTS NOTES:

RADAR REQUIRED FOR PROCEDURE ENTRY.
DME OR RADAR REQUIRED.

NOTES:

CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 30R/L.
CHART NOTE: AUTOPILOT COUPLED APPROACH NA.
CHART NOTE: RWY 29 HELICOPTER VISIBILITY REDUCTION BELOW RVR 4000 NOT AUTHORIZED.
CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
*LOC ONLY
CHART PROFILE NOTE: DISREGARD OM INDICATIONS.
CHART NOTE: FOR INOP ALS, INCREASE S-ILS CAT E VISIBILITY TO RVR 4000, INCREASE S-LOC CATS A/B VISIBILITY TO RVR 5500, AND CAT C/D/E TO RVR 6000.

ADDITIONAL FLIGHT DATA:

CHART IN PLANVIEW: FTZ VORTAC
CHART FAS OBST: 738 BUILDING 384356N/0902047W.
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD W FTZ VORTAC, RT, 100.00 INBOUND. (DO NOT CHART).
HOLD W, LT, 091.82 INBOUND

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ ILS: STANDARD; LOC: STANDARD

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
S-ILS 29	780	1800	200	780	1800	200	780	1800	200	780	1800	200	780	1800	200
S-LOC 29	980	4000	400	980	4000	400	980	4000	400	980	4000	400	980	4000	400

CHANGES - REASONS

1. AMENDED ILS DA/HAT FROM 830/250 TO 780/200 - NEW OBST EVALUATION
2. LOWERED S-ILS 29 VISIBILITY FROM RVR 4000 TO RVR 1800 - 34:1 DOES NOT IMPACT ILS.
3. PREVIOUSLY PUBLISHED ALTERNATE MISSED APPROACH IS NOW PRIMARY - CSX VORTAC DECOMMISSIONED.
4. DEVELOPED NEW ALTERNATE MISSED APPROACH - CSX VORTAC DECOMMISSIONED.
5. CHANGED MSA CENTERPOINT FROM STL VORTAC TO FZU LOM - STL VORTAC TO BE DECOMMISSIONED IN 2025; FPT REQUEST.
6. UPDATED 34:1 PENETRATIONS LIST - NEW OBST EVALUATION SIGN (29-020702) 384420.06N/0902217.34W
7. ELIMINATED JUTNI FIX MINIMUMS - DME OR RADAR REQUIRED, STEPDOWN FIX ALWAYS RECEIVED.
8. CHANGED HELICOPTER VISIBILITY REDUCTION NOTE FROM 3/4 SM TO RVR 4000 - CHART CORRECTION.
9. CHANGED INOP NOTE FROM "FOR INOPERATIVE ALS, INCREASE S-ILS CAT E VISIBILITY TO RVR 5000; S-LOC CATS A/B VISIBILITY TO RVR 5000, CAT E VISIBILITY TO 1 3/4; JUTNI FIX MINIMUMS INCREASE S-LOC CATS A/B VISIBILITY TO RVR 5000, CAT E VISIBILITY TO 1 1/2" TO "FOR INOP ALS, INCREASE S-ILS CAT E VISIBILITY TO RVR 4000, INCREASE S-LOC CATS A/B VISIBILITY TO RVR 5500, AND CAT C/D/E TO RVR 6000".

PDF EDITS:
FORM 8260-3, PAGE 2 OF 3, ADDITIONAL FLIGHT DATA - ADDED "(DO NOT CHART)" TO ALTERNATE MISSED

COORDINATED WITH:

A4A [X] **ALPA** [X] **AOPA** [X] **APA** [X] **HAI** [ ] **NBAA** [X] **OTHER:** ZKC, STL APP CON, STL ATCT, ATA

FLIGHT CHECKED BY	*Digitally signed by* ***DONALD H LANIER*** Oct 17, 2018	**OFFICE**	**DATE**	
BRIAN HARRELSON		FICO	10/11/18	
DEVELOPED BY	*Digitally signed by* ***DONALD H LANIER*** Oct 17, 2018	**OFFICE**	**DATE**	
LONNIE EVERHART (SCOTT LINDHOLM)		AJV-5400	07/03/2018	
APPROVED BY	*Digitally signed by* ***DONALD H LANIER*** Oct 17, 2018	**OFFICE**	**DATE**	**TITLE**
LONNIE EVERHART		AJV-5400		MANAGER

QUALITY 18 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.29

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

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
ST LOUIS LAMBERT INTL	KSTL	ILS OR LOC RWY 30L	12D	ST LOUIS	MO

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
618	583	ILS OR LOC RWY 30L	12C	03/29/2018	1W	2020

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
I-BKY		3 JANUARY 2019	ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
MOODS INT	IAF	FONTI INT/STL VORTAC 22.44 DME					360.00 & 303.20	1.65 (HDG) & 4.27 (I-BKY)	4500
FONTI INT/STL VORTAC 22.44 DME	IF/IAF	JOICE INT/STL VORTAC 19.02 DME					303.20	3.46 (I-BKY)	3500
JOICE INT/STL VORTAC 19.02 DME		MOIDD OM/INT					303.20	4.81 (I-BKY)	2200

MISSED APPROACH

MAP:

ILS: DA
LOC: 4.71 NM AFTER MOIDD OM/INT

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT OBLIO LOM/INT AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. PROFILE STARTS AT FONTI

3. FAC: 303.20 **FAF:** MOIDD OM/INT **DIST FAF TO MAP:** 4.71 **DIST FAF TO THLD:** 4.71

4. MIN ALT: FONTI INT/STL VORTAC 22.44 DME 4500, JOICE INT/STL VORTAC 19.02 DME 3500, MOIDD OM/INT 2200

5. DIST TO THLD FROM OM: 4.71 **MM:** **IM:** **150 HAT:** **GS ANT:** 1425

6. MIN GS INCPT: 2200 **GS ALT AT FAF :** **OM:** 2171 **MM:** **IM:**

7. GP ANGLE: 3.00 **34:1:** **20:1:** **TCH:** 57.7

8. MSA FROM: STL VORTAC 090-270 2800, 270-090 2300

EQUIPMENT REQUIREMENTS NOTES:

ADF REQUIRED.

NOTES:

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT MOODS ON V44 EASTBOUND.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-ILS 30L CAT E VISIBILITY TO RVR 4000 AND S-LOC 30L CAT E VISIBILITY TO 1 5/8 SM.
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 30R REQUIRES USE OF VERTICAL GUIDANCE; MAINTAIN LAST ASSIGNED ALTITUDE UNTIL ESTABLISHED ON GLIDESLOPE.
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 29.
CHART NOTE: **RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA.

ADDITIONAL FLIGHT DATA:

CHART FAS OBST: 845 TOWER 384053N/0901516W.
HOLD NW, LT, 123.30 INBOUND

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ ILS: STANDARD; LOC: STANDARD

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
S-ILS 30L**	783	2400	200	783	2400	200	783	2400	200	783	2400	200	783	2400	200
S-LOC 30L	1140	2400	557	1140	2400	557	1140	6000	557	1140	6000	557	1140	1 1/2	557

CHANGES - REASONS

1. AMENDED TCH FROM 57.8 TO 57.7 - MATCH CURRENT AIRNAV DATA FOR I-BKY.
2. DELETED ALTERNATE MISSED APPROACH AND ASSOCIATED DATA - CENTRAL FPT REQUEST TO SUPPORT CSX VOR DECOMMISSIONING.
3. ADDED CLIMB-IN-HOLD INSTRUCTIONS TO MISSED APPROACH - IN ACCORDANCE WITH FAAO 8260.3D, PARA 2-8-5C.
4. DELETED NOTE: ADF REQUIRED - REPLACED BY EQUIPMENT REQUIREMENT NOTE.
5. ADDED EQUIPMENT REQUIREMENT NOTE: ADF REQUIRED - IN ACCORDANCE WITH FAAO 8260.19H, PARA 8-6-8.
6. DESIGNATED FONTI FROM AN IF TO AN IF/IAF - FIX LIES ON V238, PROCEDURE ENTRY CAN BEGIN AT FONTI IN ACCORDANCE WITH FAAO 8260.3D, PARA 2-4-1.
7. DELETED NOTE: FOR INOPERATIVE ALS, INCREASE S-ILS 30L CAT E VISIBILITY TO RVR 4000 AND S-LOC 30L CAT E VISIBILITY TO 2 SM - REPLACED BY UPDATED NOTE.
8. ADDED NOTE: FOR INOPERATIVE ALS, INCREASE S-ILS 30L CAT E VISIBILITY TO RVR 4000 AND S-LOC 30L CAT E VISIBILITY TO 1 5/8 SM - COMPUTED IN ACCORDANCE WITH FAAO 8260.3D, TABLE 3-3-1.
9. ADDED NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 29 - ATC REQUEST.
10. ADDED PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL AT MOODS ON V44 EASTBOUND - IN ACCORDANCE WITH FAAO 8260.3D, PARA 2-4-1A, TURN EXCEEDS 120 DEGREES.
11. DELETED CHART FAS OBST: 769 TREE 384221N/0901745W - REPLACE BY UPDATED FAS OBST.
12. ADDED CHART FAS OBST: 845 TOWER 384053N/0901516W - NEW CONTROLLING OBSTACLE IDENTIFIED IN LOC FINAL.
13. AMENDED S-LOC 30L CAT C VISIBILITY FROM RVR 5000 TO RVR 6000 - COMPUTED IN ACCORDANCE WITH FAAO 8260.3D, TABLE 3-3-1.
14. INCORPORATED CHANGES FROM AMDT 12A, 12B, AND 12C - IN ACCORDANCE WITH FAAO 8260.19H, PARA 8-3-4C(2).

QUALITY 9 CHECKED

COORDINATED WITH:

A4A [X] **ALPA** [X] **AOPA** [X] **APA** [X] **HAI** [ ] **NBAA** [X] **OTHER:** ZKC, STL APP CON, STL ATCT, AMGR

FLIGHT CHECKED BY	*Digitally signed by* ***DONALD H LANIER*** Oct 17, 2018	**OFFICE**	**DATE**	
BRIAN HARRELSON		FICO	10/11/18	
DEVELOPED BY	*Digitally signed by* ***PETER R GUIMOND*** Aug 22, 2018	**OFFICE**	**DATE**	
PETER R. GUIMOND		AJV-5422	08/22/2018	
APPROVED BY	*Digitally signed by* ***DONALD H LANIER*** Oct 17, 2018	**OFFICE**	**DATE**	**TITLE**
JULIE MORGAN		AJV-5420		MANAGER

QUALITY 9 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.29

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

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
ST LOUIS LAMBERT INTL	KSTL	ILS OR LOC RWY 30R ILS RWY 30R CAT II, ILS RWY 30R CAT III	12	ST LOUIS	MO

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
618	605	ILS OR LOC RWY 30R ILS RWY 30R CAT II, ILS RWY 30R CAT III	11A	03/29/2018	1W	2020

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
I-SJW		3 JANUARY 2019	ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
TYRSH INT/I-SJW 17.65 DME/RADAR	IAF	HIXOM/INT/I-SJW 14.78 DME/RADAR					303.21	2.87 (I-SJW)	5000
HIXOM/INT/I-SJW 14.78 DME/RADAR	IF	EXALE INT/I-SJW 10.35 DME/RADAR					303.21	4.44 (I-SJW)	3500
EXALE INT/I-SJW 10.35 DME/RADAR		RELEY INT/I-SJW 6.17 DME/RADAR					303.21	4.18 (I-SJW)	2100

MISSED APPROACH

MAP:

ILS: DA
LOC: 4.52 NM AFTER RELEY INT/I-SJW 6.17 DME/RADAR OR AT I-SJW 1.65 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1020 THEN CLIMBING RIGHT TURN TO 3000 DIRECT TOY VORTAC AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):

CLIMB TO 1020 THEN CLIMBING RIGHT TURN TO 3000 DIRECT ENL VORTAC AND HOLD.

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. PROFILE STARTS AT TYRSH

3. FAC: 303.21 **FAF:** RELEY INT/I-SJW 6.17 DME/RADAR **DIST FAF TO MAP:** 4.52 **DIST FAF TO THLD:** 4.52

4. MIN ALT: TYRSH INT/I-SJW 17.65 DME/RADAR 5000, HIXOM/INT/I-SJW 14.78 DME/RADAR 5000, EXALE INT/I-SJW 10.35 DME/RADAR 3500, RELEY INT/I-SJW 6.17 DME/RADAR 2100

5. DIST TO THLD FROM OM: **MM:** **IM:** 821 **100 HAT:** 830.00 **150 HAT:** **GS ANT:** 1200

6. MIN GS INCPT: 2100 **GS ALT AT FAF :** RELEY INT/I-SJW 6.17 DME/RADAR 2100 **OM:** **MM:** **IM:** 705

7. GP ANGLE: 3.00 **34:1:** **20:1:** **TCH:** 57.0

8. MSA FROM: FZ LOM 090-270 3100, 270-090 2300

QUALITY 18 CHECKED

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
ST LOUIS LAMBERT INTL	KSTL	ILS OR LOC RWY 30R ILS RWY 30R CAT II, ILS RWY 30R CAT III	12	ST LOUIS	MO

EQUIPMENT REQUIREMENTS NOTES:

RADAR REQUIRED FOR PROCEDURE ENTRY.

NOTES:

CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 30R: CAT A, B, C, D RA 116, RVR 1200, HAT 100, DA 705 MSL.
CAT III ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 30R: CAT A, B, C, D RVR 600
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-ILS 30R CAT E VISIBILITY TO RVR 4000 AND S-LOC 30R CAT C/D/E VISIBILITY TO 1 3/8 SM.
CHART ILS OR LOC RWY 30R NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 29. SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 30L REQUIRES USE OF VERTICAL GUIDANCE; MAINTAIN LAST ASSIGNED ALTITUDE UNTIL ESTABLISHED ON GLIDESLOPE.
CHART ILS RWY 30R (CAT II & III) NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 29.

ADDITIONAL FLIGHT DATA:

CHART IN PLANVIEW: ENL VORTAC
CHART VDP AT 2.96 DME*
DISTANCE VDP TO THLD 1.31 NM
* LOC ONLY
FAS OBST: 820 AAO 384249N/0901629W.
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD SW ENL VORTAC, RT, 026.96 INBOUND.
HOLD E, RT, 270.00 INBOUND

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ ILS: STANDARD; LOC: STANDARD

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
S-ILS 30R	805	1800	200	805	1800	200	805	1800	200	805	1800	200	805	1800	200
S-LOC 30R	1080	2400	475	1080	2400	475	1080	5000	475	1080	5000	475	1080	5000	475

CHANGES - REASONS

1. CHANGED MSA CENTERPOINT FROM STL VORTAC TO FZU LOM - STL VORTAC TO BE DECOMMISSIONED IN 2025; FPT REQUEST.
2. CHANGED PRIMARY MISSED APPROACH INSTRUCTIONS FROM "CLIMB TO 1020 THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 050 AND CSX VOR/DME R-012 TO FASHE INT/CSX 23.31DME AND HOLD" TO "CLIMB TO 1020 THEN CLIMBING RIGHT TURN TO 3000 DIRECT TOY VORTAC AND HOLD".
3. CHANGED ALTERNATE MISSED APPROACH INSTRUCTIONS FROM "CLIMB TO 1020 THEN CLIMBING RIGHT TURN TO 3000 DIRECT TOY VORTAC AND HOLD" TO "CLIMB TO 1020 THEN CLIMBING RIGHT TURN TO 3000 DIRECT ENL VORTAC AND HOLD".
4. S-ILS 30R CAT E VISIBILITY CHANGED FROM RVR 2400 TO RVR 1800 - CRITERIA CHANGE.
5. DELETED NOTE: RADAR REQUIRED, MOVED TO EQUIPMENT REQUIREMENT - CRITERIA CHANGE.

QUALITY 18 CHECKED

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
ST LOUIS LAMBERT INTL	KSTL	ILS OR LOC RWY 30R ILS RWY 30R CAT II, ILS RWY 30R CAT III	12	ST LOUIS	MO

COORDINATED WITH:

A4A [X] **ALPA** [X] **AOPA** [X] **APA** [X] **HAI** [ ] **NBAA** [X] **OTHER:** ZKC, STL APP CON, STL ATCT, AMGR, ATA

FLIGHT CHECKED BY	*Digitally signed by* ***DONALD H LANIER*** Oct 17, 2018	**OFFICE**	**DATE**	
BRIAN HARRELSON		FICO	10/11/18	
DEVELOPED BY	*Digitally signed by* ***DONALD H LANIER*** Oct 17, 2018	**OFFICE**	**DATE**	
LONNIE EVERHART (SCOTT LINDHOLM)		AJV-5400	06/20/2018	
APPROVED BY	*Digitally signed by* ***DONALD H LANIER*** Oct 17, 2018	**OFFICE**	**DATE**	**TITLE**
LONNIE EVERHART		AJV-5400		MANAGER

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.29

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

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
PIEDMONT TRIAD INTL	KGSO	ILS OR LOC RWY 5R ILS RWY 5R SA CAT II	7C	GREENSBORO	NC

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
926	900	ILS OR LOC RWY 5R ILS RWY 5R CAT II	7B	04/05/2012	8W	2010

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
I-LZY		3 JANUARY 2019	ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
LIB VORTAC		PAGAN INT/I-LZY 7.51 DME/RADAR					305.31	23.98	3700
GSO VORTAC		PAGAN INT/I-LZY 7.51 DME/RADAR					247.00	2.85	2900

MISSED APPROACH

MAP:

ILS: DA
LOC: 5.71 NM AFTER PAGAN INT/I-LZY 7.51 DME/RADAR OR AT I-LZY 1.80 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1600 THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 139.45 AND GSO VORTAC R-108 TO KIMES INT/GSO 18.81 DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):

CLIMB TO 1600 THEN CLIMBING RIGHT TURN TO 3700 DIRECT LIB VORTAC AND HOLD.

PROFILE:

1. PT L **SIDE OF COURSE** 233.99 **OUTBOUND** 2900 **FT WITHIN** 10 **MILES OF** PAGAN INT/RADAR (IAF)

2.

3. FAC: 053.99 **FAF:** PAGAN INT/I-LZY 7.51 DME/RADAR **DIST FAF TO MAP:** 5.71 **DIST FAF TO THLD:** 5.71

4. MIN ALT: PAGAN INT/I-LZY 7.51 DME/RADAR 2800

5. DIST TO THLD FROM OM: **MM:** **IM:** **100 HAT:** 903.00 **150 HAT:** **GS ANT:** 1000

6. MIN GS INCPT: 2800 **GS ALT AT FAF :** PAGAN INT/I-LZY 7.51 DME/RADAR 2800 **OM:** **MM:** **IM:**

7. GP ANGLE: 3.00 **34:1:** **20:1:** **TCH:** 53.2

8. MSA FROM: GSO VORTAC 4100

EQUIPMENT REQUIREMENTS NOTES:

NOTES:

SA CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 5R: CAT A, B, C, D RA 122, RVR 1200, HAT 100, DA 1000 MSL.
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.
SA CAT II CHART NOTE: REDUCED LIGHTING: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF AUTOLAND OR HUD TO TOUCHDOWN.
CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC 05R CAT C/D VISIBILITY TO RVR 6000.
**CHART NOTE: RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA.

ADDITIONAL FLIGHT DATA:

CHART: 1142 TOWER 360105N/0800324W.
CHART LIB VORTAC 23.98 DME AT PAGAN.
CHART (CFDXV) AT (355718.50N/0800703.19W).
CHART CIRCLING ICON.
CHART IN PLANVIEW: LIB VORTAC
CHART VDP AT 2.91 DME*
DISTANCE VDP TO THLD 1.11 NM
* LOC ONLY
CHART FAS OBST: 1051 TWR 360233N/0800108W.
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NE LIB VORTAC, RT, 236.00 INBOUND.
HOLD E, RT, 288.00 INBOUND

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ ILS: STANDARD; LOC: STANDARD - CAT C 800-2 1/4, CAT D 800-2 1/2

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
S-ILS 05R**	1100	2400	200	1100	2400	200	1100	2400	200	1100	2400	200			
S-LOC 05R	1320	2400	420	1320	2400	420	1320	4000	420	1320	4000	420			
CIRCLING	1440	1	514	1440	1	514	1700	2 1/4	774	1700	2 1/2	774			

CHANGES - REASONS

1. ADDED SA CAT II CHART NOTE: REDUCED LIGHTING: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF AUTOLAND OR HUD TO TOUCHDOWN - IAW 8400.13 CHAPTER 5 PARA 6.
2. PROCEDURE NAME CHANGED FROM ILS RWY 5R (CAT II) TO ILS RWY 5R (SA CAT II) - PROCEDURE REQUIRES SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION IAW 8400.13 CHAPTER 5 PARA 6.
3. MISSED APPROACH CHANGED FROM "CLIMB TO 1600 THEN CLIMBING RIGHT TURN TO 3000 VIA HEADING 139.45 AND GSO VORTAC R-108 TO KIMES INT/GSO 18.81 DME AND HOLD" TO "CLIMB TO 1600 THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 139.45 AND GSO VORTAC R-108 TO KIMES INT/GSO 18.81 DME AND HOLD" - USE OF "ON" INSTEAD OF "VIA".
4. ADDED "CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC 05R CAT C/D VISIBILITY TO RVR 6000" - PER VIS CHECK TOOL.
5. ADDED CIRCLING ICON - NEW CIRCLING CRITERIA APPLIED.
6. ADDED "CHART (CFDXV) AT (355718.50N/0800703.19W)" IN ADDITIONAL FLIGHT DATA - IAW 8260.19H PARA 8-6-10(Q) AND MEMORANDUM 239 SUPPLEMENTAL GUIDANCE TO ARINC SPECIFICATION 424-18 NAVIGATION SYSTEM DATABASE FOR USE IN PUBLISHING THE CODED INSTRUMENT FLIGHT PROCEDURES PARA 6.2.4.

QUALITY 10 CHECKED

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
PIEDMONT TRIAD INTL	KGSO	ILS OR LOC RWY 5R ILS RWY 5R SA CAT II	7C	GREENSBORO	NC

COORDINATED WITH:

A4A [X] **ALPA** [X] **AOPA** [X] **APA** [X] **HAI** [ ] **NBAA** [X] **OTHER:** ZTL, GSO APP CON, GSO ATCT, AMGR, ATA

FLIGHT CHECKED BY		OFFICE	DATE
FLIGHT INSPECTION REVIEW NOT REQUIRED - PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, DEC 22, 2017.	*Digitally signed by* ***WARDELL HENNING*** Oct 18, 2018		

DEVELOPED BY		OFFICE	DATE
MIKE MELSSEN	*Digitally signed by* ***MIKE MELSSEN*** Oct 09, 2018	AJV-5412	08/07/2018

APPROVED BY		OFFICE	DATE	TITLE
GEORGE DAVIS	*Digitally signed by* ***WARDELL HENNING*** Oct 18, 2018	AJV-5410		MANAGER

QUALITY 10 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.33

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

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
GRAND FORKS INTL	KGFK	RNAV (GPS) RWY 17R	1	GRAND FORKS	ND

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
845	843	RNAV (GPS) RWY 17R	ORIG-B	08/26/2010	6E	1985

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
RNAV		3 JANUARY 2019	ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
EYWUS		WIXAG		TF	FB	2.00	276.20	5.01	2600
GFK VOR/DME		FODIB		TF	FO	2.00	354.83	11.84	2600
WIXAG	IAF	FODIB	NOPT	TF	FB	1.00	264.14	6.60	2600
WUTSO	IAF	FODIB	NOPT	TF	FB	1.00	180.83	5.92	2600
FODIB	IF/IAF	RULLO		TF	FB	1.00	174.02	6.53	2500
RULLO	FAF	RW17R	MAP	TF	FO	0.30	174.02	5.04	
RW17R	MAP	1043 MSL		CA			174.02		
1043 MSL		ERIXE		DF	FO	1.00			2600

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW17R

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2600 DIRECT ERIXE AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY 13 CHECKED

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. HOLD N FODIB, RT, 174.02 INBOUND, 2600 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 174.02 **FAF:** RULLO **DIST FAF TO MAP:** 5.04 **DIST FAF TO THLD:** 5.04

4. MIN ALT: FODIB 2600, RULLO 2500

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **200 HAT:** 0.46 **GS ANT:**

6. MIN GP INCPT: 2500 **GP ALT AT FAF :** RULLO 2500 **OM:** **MM:** **IM:**

7. GP ANGLE: 3.00 **34:1:** IS CLEAR **20:1:** IS CLEAR **TCH:** 53.1

8. MSA FROM: RW17R 3300

PBN REQUIREMENTS NOTE:

RNP APCH

NOTES:

CHART NOTE: BARO-VNAV NA WHEN USING CROOKSTON ALTIMETER SETTING.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20C OR ABOVE 54C.
CHART NOTE: VDP NA WITH CROOKSTON ALTIMETER SETTING.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CROOKSTON ALTIMETER SETTING AND INCREASE ALL DA 62 FT AND ALL MDA 80 FT AND INCREASE LPV AND LNAV/VNAV ALL CATS VISIBILITY 1/8 SM, LNAV CATS C/D VISIBILITY 1/8 SM, AND CIRCLING CAT C VISIBILITY 1/4 SM.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT EYWUS ON V171 NORTHEAST BOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WUTSO ON V181 NORTHBOUND.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
CHART VDP AT 0.89 NM TO RW17R*
*LNAV ONLY
WAAS CHANNEL #63199
REFERENCE PATH ID: W17A
CHART FAS OBST: 915 TREE 475849N/0971116W.
HOLD S, RT, 354.02 INBOUND
LTP HAE: 230.2 M

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE.

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LPV DA	1043	3/4	200	1043	3/4	200	1043	3/4	200	1043	3/4	200			
LNAV/VNAV DA	1093	3/4	250	1093	3/4	250	1093	3/4	250	1093	3/4	250			
LNAV MDA	1180	1	337	1180	1	337	1180	1	337	1180	1	337			
CIRCLING	1260	1	415	1300	1	455	1400	1 1/2	555	1400	2	555			

QUALITY 35 CHECKED

CHANGES - REASONS

1. CHANGED LPV DA/HAT FROM 1107/264 TO 1043/200 - ALL SURFACES CLEAR, MINIMUM HAT.
2. CHANGED LNAV/VNAV DA/HAT FROM 1157/314 TO 1093/250 - ALL SURFACES CLEAR, MINIMUM HAT.
3. CHANGED CIRCLING CAT A MDA/HAA FROM 1280/435 TO 1260/415 AND CIRCLING CAT C FROM 1300/455 TO 1400/555 - NEW CONTROLLING OBSTACLES.
4. REMOVED CHART NOTE: DME/DME RNP-0.3 NA AND ADDED EQUIPMENT REQUIREMENTS NOTE: RNP APCH - PER 8260.19 PARAGRAPH 8-6-8.B.
5. REMOVED CHART PLANVIEW NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT - INCORPORATING P-NOTAM 8/1686.
6. CHANGED CHART NOTE FROM BARO-VNAV NA BELOW -16 C (5 F) TO FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20 C OR ABOVE 54 C - NEW TEMPERATURE DATA AND PER 8260.19 PARAGRAPH 8-8.C.
7. CHANGED CHART NOTE FROM WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CROOKSTON ALTIMETER SETTING AND INCREASE ALL DA/MDA 80 FT AND INCREASE LPV AND LNAV/VNAV ALL CATS VISIBILITY 1/4 SM AND LNAV CATS C/D VISIBILITY 1/4 SM TO WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CROOKSTON ALTIMETER SETTING AND INCREASE ALL DA 62 FT AND ALL MDA 80 FT AND INCREASE LPV AND LNAV/VNAV ALL CATS VISIBILITY 1/8 SM, LNAV CATS C/D VISIBILITY 1/8 SM, AND CIRCLING CAT C VISIBILITY 1/4 SM - NEW INOP TABLE 8260-3 SECTION 3-3-2.
8. CHANGED INTERMEDIATE SEGMENT RNP FROM 0.5 TO 1.00 - CURRENT RNAV CRITERIA.
9. CRC REMAINDER CHANGED FROM 65F1108F TO CF083809 - MULTIPLE CHANGES TO FAS DATA TO INCLUDE CHANGES TO LTP, FPAP, TCH, AND HAL/VAL.
10. CHANGED PLANVIEW NOTE FROM PROCEDURE NA FOR ARRIVALS AT EYWUS VIA V171 NORTHEAST BOUND TO PROCEDURE NA FOR ARRIVALS AT EYWUS ON V171 NORTHEAST BOUND - CURRENT NOTATION PER 8260.19H.
11. CHANGED PLANVIEW NOTE FROM PROCEDURE NA FOR ARRIVALS AT WUTSO VIA V181 NORTHBOUND TO PROCEDURE NA FOR ARRIVALS AT WUTSO ON V181 NORTHBOUND - CURRENT NOTATION PER 8260.19H.
12. CHANGED DISTANCE TO FAF/MAP FROM 4.96 TO 5.04 - RULLO MOVED 446 FT NORTH.
13. CHANGED VDP DISTANCE FROM 0.91 NM TO 0.89 NM - HAT CHANGED FROM 250 FT TO 200 FT AND TCH CHANGED FROM 55.0 FT TO 53.1 FT.
14. CHANGED DISTANCE TO THLD FROM 250 HAT 0.61 NM TO 200 HAT 0.46 NM - HAT LOWERED TO 200 FT.
15. COURSE FROM EYWUS TO WIXAG CHANGED FROM 273.31 TO 276.20 - WIXAG MOVED 1.60 NM EAST.
16. DISTANCE FROM EYWUS TO WIXAG CHANGED FROM 6.58 TO 5.01 - WIXAG MOVED 1.60 NM EAST.
17. COURSE FROM WIXAG TO FODIB CHANGED FROM 264.11 TO 264.14 - WIXAG MOVED 1.60 NM EAST.
18. DISTANCE FROM WIXAG TO FODIB CHANGED FROM 5.00 TO 6.60 - WIXAG MOVED 1.60 NM EAST.
19. DISTANCE FROM FODIB TO RULLO CHANGED FROM 6.61 TO 6.53 - RULLO MOVED 446 FT NORTH.
20. DISTANCE FROM RULLO TO R17R CHANGED FROM 4.96 TO 5.04- RULLO MOVED 446 FT NORTH.
21. COURSE FROM GFK VOR/DME TO FODIB CHANGED FROM 354.82 TO 354.83 - IPDS CALCULATED COURSE.
22. ADDED CHART CIRCLING ICON NOTE TO ADDITIONAL FLIGHT DATA BLOCK - NEW CIRCLING AREA EVALUATED.

10/24/2018: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 09/28/2018.
1. ADDED 2500 AFTER RULLO ON LINE 6.

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** GFK ATCT, GFK APP CON, ZMP, AMGR

FLIGHT CHECKED BY		OFFICE	DATE
CHRISTOPHER DANIEL FORMAN	*Digitally signed by* ***DAVID DANNER*** Oct 19, 2018	FIOG	09/26/2018

DEVELOPED BY		OFFICE	DATE
LONNIE EVERHART (ANTHONY CAPPABIANCO)	*Digitally signed by* ***DAVID DANNER*** Oct 19, 2018	AJV-5400	07/18/2018

APPROVED BY		OFFICE	DATE	TITLE
LONNIE EVERHART	*Digitally signed by* ***DAVID DANNER*** Oct 19, 2018	AJV-5400		MANAGER

QUALITY 35 CHECKED

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KGFK
RUNWAY	RW17R
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W17A
LTP/FTP LATITUDE	475733.2835N
LTP/FTP LONGITUDE	0971052.4095W
LTP/FTP ELLIPSOIDAL HEIGHT	+02302
FPAP LATITUDE	475604.2395N
FPAP LONGITUDE	0971052.4545W
THRESHOLD CROSSING HEIGHT (TCH)	00053.1
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0512
HORIZONTAL ALERT LIMIT (HAL)	35.0
VERTICAL ALERT LIMIT (VAL)	40.0
CRC REMAINDER	CF083809

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+02569
FPAP ORTHOMETRIC HEIGHT	+02569

QUALITY 19 CHECKED

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
NDB STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.27

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

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
NEBRASKA CITY MUNI	KAFK	NDB RWY 33	2	NEBRASKA CITY	NE

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
1165	1162	NDB RWY 33	1	07/05/2007	5E	1995

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
AFK	403619.30N / 0955139.44W	3 JANUARY 2019	ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
PWE VORTAC		AFK NDB					027.99	28.99	3000

MISSED APPROACH

MAP:

AFK NDB

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 THEN RIGHT TURN DIRECT AFK NDB AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT L **SIDE OF COURSE** 163.67 **OUTBOUND** 3000 **FT WITHIN** 10 **MILES OF** AFK NDB (IAF)

2.

3. FAC: 343.67 **FAF:** **DIST FAF TO MAP:** **DIST FAF TO THLD:**

4. MIN ALT:

8. MSA FROM: AFK NDB 270-360 3500, 360-270 2900

EQUIPMENT REQUIREMENTS NOTES:

NOTES:

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON PWE VORTAC AIRWAY RADIALS 329 CW 071.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
CHART FAS OBST: 1438 TOWER 402757N/0954539W.
FAC CROSSES RWY C/L EXTENDED 3202 FT FROM THLD.
HOLD S, RT, 343.67 INBOUND

MINIMUMS:

QUALITY 31 CHECKED

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
NEBRASKA CITY MUNI	KAFK	NDB RWY 33	2	NEBRASKA CITY	NE

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ STANDARD

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
S-33	1840	1	678	1840	1	678		NA			NA				
CIRCLING	1840	1	675	1840	1	675		NA			NA				

CHANGES - REASONS

1. CHANGED FEEDER FROM "PWE VORTAC-AFK NDB COURSE/DISTANCE 027.98/29.00" TO "PWE VORTAC-AFK NDB COURSE/DISTANCE 027.99/28.99". - CORRECTED DATA ROUNDING ISSUE.
2. CHANGED STRAIGHT-IN MDA 1840/HAT 679 TO MDA 1840/HAT 678 FOR ALL CATS. - TDZE CHANGED FROM 1161 TO 1162.
3. OMAHA ALTIMETER SETTING MINIMUMS NOT PUBLISHED AS SECOND SET OF MINIMUMS, AND MOVED TO REMARKS SECTION OF THE 8260-9. - IAW 8260.19H PARA 8-6-9.F.(3).
4. CHANGED "CHART NOTE: OBTAIN LOCAL ALTIMETER SETTING ON CTAF, WHEN NOT RECEIVED, USE OMAHA ALTIMETER SETTING" TO "BACKUP ALTIMETER NOTE FOR CONTINGENCY PURPOSES: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE OMAHA ALTIMETER SETTING AND INCREASE ALL MDAS 140 FEET, AND CAT B VISIBILITIES 1/4 SM". - VIS INCREASE IAW 8260.3D, TABLES 3-3-3/4/7 BASED ON NEW HAT.
5. CHANGED MISSED APPROACH INSTRUCTIONS TO READ "CLIMB TO 3000 THEN RIGHT TURN DIRECT AFK NDB AND HOLD". - MINIMUM HOLDING ALTITUDE INCREASED PER ATC/FPT REQUEST.
6. ADDED "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON PWE VORTAC AIRWAY RADIALS 329 CW 071". - IAW 8260.19H PARA 8-2-5.E. AND 8260.3D 2-3-1.A.(1).
7. ADDED NOTE "CHART CIRCLING ICON". - CIRCLING MEETS CHANGE 21 CRITERIA.

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZMP, AMGR, OMA APP CON

FLIGHT CHECKED BY	*Digitally signed by*		**OFFICE**	**DATE**	
ZACK SMYER	***ROBERT G HAMILTON***		FICO	10/18/18	
	Oct 22, 2018	*Digitally signed by*			
DEVELOPED BY		***JASON KRETSCHMER***	**OFFICE**	**DATE**	
JASON KRETSCHMER		Sep 20, 2018	AJV-5422	09/20/2018	
APPROVED BY	*Digitally signed by*		**OFFICE**	**DATE**	**TITLE**
JULIE MORGAN	***ROBERT G HAMILTON***		AJV-5420		MANAGER
	Oct 22, 2018				

QUALITY 31 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.33

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

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
PENDER MUNI	K0C4	RNAV (GPS) RWY 15	ORIG-B	PENDER	NE

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
1345	1345	RNAV (GPS) RWY 15	ORIG-A	07/24/2014	4E	2010

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
RNAV		3 JANUARY 2019	ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
SUX VORTAC		HUKEG		TF	FO	2.00	255.65	22.86	3100
ATLES	IAF	HUKEG	NOPT	TF	FB	1.00	154.48	6.70	3100
HUKEG	IF/IAF	UPXUY		TF	FB	1.00	151.08	5.00	3100
UPXUY	FAF	YEGUB/2.10 NM TO RW15		TF	FB	0.30	151.11	3.28	
YEGUB/2.10 NM TO RW15		RW15	MAP	TF	FO	0.30	151.11	2.10	
RW15	MAP	1678 MSL		CA			151.11		
1678 MSL		WIRPI		DF	FO	1.00			3100

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW15

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3100 DIRECT WIRPI AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY 41 CHECKED

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. HOLD NW HUKEG, RT, 151.08 INBOUND, 3100 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 151.11 **FAF:** UPXUY **DIST FAF TO MAP:** 5.38 **DIST FAF TO THLD:** 5.38

4. MIN ALT: HUKEG 3100, UPXUY 3100, YEGUB/2.10 NM TO RW15 2040*

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **333 HAT:** 0.92 **GS ANT:**

6. MIN GP INCPT: 3100 **GP ALT AT FAF :** UPXUY 3100 **OM:** **MM:** **IM:**

7. GP ANGLE: 3.00 **34:1:** IS CLEAR **20:1:** IS CLEAR **TCH:** 40.0

8. MSA FROM: RW15 3800

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: BARO-VNAV NA.
*LNAV ONLY
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON SUX VORTAC AIRWAY RADIALS R165 CW R331.
CHART NOTE: USE WAYNE ALTIMETER SETTING; WHEN NOT RECEIVED, USE SIOUX CITY ALTIMETER SETTING: INCREASE ALL DAS 44 FEET AND ALL MDAS 60 FEET.

ADDITIONAL FLIGHT DATA:

CHART WAYNE AWOS-3
CHART CIRCLING ICON.
WAAS CHANNEL #99327
REFERENCE PATH ID: W15A
CHART FAS OBST: 1539 TREE 420730N/0964441W.
HOLD SE, RT, 331.20 INBOUND
LTP HAE: 384.7 M

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: **NA** [X]

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LPV DA	1678	1	333	1678	1	333		NA			NA				
LNAV/VNAV DA	1890	1 7/8	545	1890	1 7/8	545		NA			NA				
LNAV MDA	1840	1	495	1840	1	495		NA			NA				
CIRCLING	1940	1	595	1940	1	595		NA			NA				

QUALITY 41 CHECKED

CHANGES - REASONS

1. TERMINAL ROUTES, YEGUB TO RW15, UPDATED COURSE FROM 151.13 TO 151.11 - SAME AS FINAL COURSE.
2. TERMINAL ROUTES, CHANGED MISSED APPROACH CA LEG ALTITUDE FROM 1639 TO 1678 AND COURSE FROM 151.13 TO 151.11 - DA INCREASE AND FINAL COURSE.
3. CHANGED DISTANCE FROM 294 HAT TO DISTANCE FROM 333 HAT AND INCREASED VALUE FROM 0.79 NM TO 0.92 NM - DA INCREASE.
4. PROFILE SECTION, LINE 2, ADDED MAXIMUM HOLDING ALTITUDE 6000 - CURRENT DOCUMENTATION POLICY.
5. PROFILE SECTION, LINE 7, ADDED "20:1 IS CLEAR" - CURRENT DOCUMENTATION POLICY.
6. REPLACED DME/DME NOTE WITH RNP APCH NOTE - CURRENT DOCUMENTATION POLICY.
7. REWORDED BACKUP ALTIMETER NOTE, REMOVED VISIBILITY INCREASE - RECALCULATION USING CURRENT CRITERIA.
8. ADDED CIRCLING ICON - CURRENT CIRCLING AREAS EVALUATED (MDAS AND CONTROLLING OBSTACLES DID NOT CHANGE).
9. LPV DA/HAT INCREASED FROM 1639/294 TO 1678/333 - MISSED APPROACH PENETRATION.
10. LNAV/VNAV DA/HAT INCREASED FROM 1877/532 TO 1890/545 - REEVALUATION OF FINAL SEGMENT.
11. CRC REMAINDER UPDATED FROM 4AFB6D7D TO 639A6107 - FPAP LAT/LONG COORDINATES UPDATED.

QUALITY 41 CHECKED

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
PENDER MUNI	K0C4	RNAV (GPS) RWY 15	ORIG-B	PENDER	NE

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZMP, SUX APP CON, AIRPORT MANAGER

FLIGHT CHECKED BY		**OFFICE**	**DATE**
ZACK SMYER	*Digitally signed by* ***DAVID DANNER*** Oct 26, 2018	FICO	10/19/2018
DEVELOPED BY		**OFFICE**	**DATE**
RUSS ROSLEWSKI	*Digitally signed by* ***RUSSELL ROSLEWSKI*** Jul 19, 2018	AJV-5421	07/17/2018
APPROVED BY		**OFFICE**	**DATE**
JULIE MORGAN	*Digitally signed by* ***DAVID DANNER*** Oct 26, 2018	AJV-5420	

TITLE

MANAGER

QUALITY 41 CHECKED

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	0C4
RUNWAY	RW15
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W15A
LTP/FTP LATITUDE	420704.4375N
LTP/FTP LONGITUDE	0964350.1675W
LTP/FTP ELLIPSOIDAL HEIGHT	+03847
FPAP LATITUDE	420543.5585N
FPAP LONGITUDE	0964259.8540W
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	1656
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	639A6107

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+04101
FPAP ORTHOMETRIC HEIGHT	+04101

QUALITY 41 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.33

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

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
PENDER MUNI	K0C4	RNAV (GPS) RWY 33	ORIG-B	PENDER	NE

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
1345	1343	RNAV (GPS) RWY 33	ORIG-A	02/05/2015	4E	2010

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
RNAV		3 JANUARY 2019	ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
SUX VORTAC		WIRPI		TF	FO	2.00	205.62	27.32	3100
DECKA	IAF	WIRPI	NOPT	TF	FB	1.00	268.66	16.09	3100
IBHEN	IAF	WIRPI	NOPT	TF	FB	1.00	003.63	19.25	3100
WIRPI	IF/IAF	ZOVKU		TF	FB	1.00	331.20	5.20	3100
ZOVKU	FAF	GUGPE/2.20 NM TO RW33		TF	FB	0.30	331.18	3.23	
GUGPE/2.20 NM TO RW33		RW33	MAP	TF	FO	0.30	331.18	2.20	
RW33	MAP	1626 MSL		CA			331.18		
1626 MSL		HUKEG		DF	FO	1.00			3100

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW33

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3100 DIRECT HUKEG AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY 41 CHECKED

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. HOLD SE WIRPI, RT, 331.20 INBOUND, 3100 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 331.18 **FAF:** ZOVKU **DIST FAF TO MAP:** 5.43 **DIST FAF TO THLD:** 5.43

4. MIN ALT: WIRPI 3100, ZOVKU 3100, GUGPE/2.20 NM TO RW33 2060*

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **294 HAT:** 0.80 **GS ANT:**

6. MIN GP INCPT: 3100 **GP ALT AT FAF :** ZOVKU 3100 **OM:** **MM:** **IM:**

7. GP ANGLE: 3.00 **34:1:** IS CLEAR **20:1:** IS CLEAR **TCH:** 40.0

8. MSA FROM: RW33 3800

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: BARO-VNAV NA.
*LNAV ONLY
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON SUX VORTAC AIRWAY RADIALS R150 CW R266.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT IBHEN ON V181 SOUTHEASTBOUND.
CHART NOTE: USE WAYNE ALTIMETER SETTING; WHEN NOT RECEIVED, USE SIOUX CITY ALTIMETER SETTING: INCREASE ALL DAS 44 FEET AND ALL MDAS 60 FEET.

ADDITIONAL FLIGHT DATA:

CHART WAYNE AWOS-3
CHART FAS OBST: 1549 TREE 420524N/0964332W.
CHART CIRCLING ICON.
WAAS CHANNEL #72627
REFERENCE PATH ID: W33A
HOLD NW, RT, 151.08 INBOUND
LTP HAE: 380.7 M

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: **NA** [X]

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LPV DA	1626	1	294	1626	1	294		NA			NA				
LNAV/VNAV DA	1917	2	585	1917	2	585		NA			NA				
LNAV MDA	1860	1	517	1860	1	517		NA			NA				
CIRCLING	1940	1	595	1940	1	595		NA			NA				

QUALITY 41 CHECKED

CHANGES - REASONS

1. TERMINAL ROUTES, GUGPE TO RW33, UPDATED COURSE FROM 331.15 TO 331.18 - SAME AS FINAL COURSE.
2. TERMINAL ROUTES, CHANGED MISSED APPROACH CA LEG COURSE FROM 331.15 TO 331.18 - FINAL COURSE.
3. PROFILE SECTION, LINE 4, ADDED MAXIMUM HOLDING ALTITUDE 6000 - CURRENT DOCUMENTATION POLICY.
4. PROFILE SECTION, LINE 3, CORRECTED FAC FROM 331.17 TO 331.18 - RECALCULATION.
5. PROFILE SECTION, LINE 7, ADDED "20:1 IS CLEAR" - CURRENT DOCUMENTATION POLICY.
6. REPLACED DME/DME NOTE WITH RNP APCH NOTE - CURRENT DOCUMENTATION POLICY.
7. REWORDED BACKUP ALTIMETER NOTE, REMOVED VISIBILITY INCREASE - RECALCULATION USING CURRENT CRITERIA.
8. ADDED CIRCLING ICON - CURRENT CIRCLING AREAS EVALUATED (MDAS AND CONTROLLING OBSTACLES DID NOT CHANGE).

QUALITY 41 CHECKED

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** OLU FSS, ZMP, SUX APP CON, AIRPORT MANAGER

		OFFICE	DATE	
FLIGHT CHECKED BY	*Digitally signed by* ***DAVID DANNER*** Oct 26, 2018			
ZACK SMYER		FICO	10/19/2018	
DEVELOPED BY	*Digitally signed by* ***RUSSELL ROSLEWSKI*** Jul 19, 2018	**OFFICE**	**DATE**	
RUSS ROSLEWSKI		AJV-5421	07/19/2018	
APPROVED BY	*Digitally signed by* ***DAVID DANNER*** Oct 26, 2018	**OFFICE**	**DATE**	**TITLE**
JULIE MORGAN		AJV-5420		MANAGER

QUALITY 41 CHECKED

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	0C4
RUNWAY	RW33
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W33A
LTP/FTP LATITUDE	420632.1725N
LTP/FTP LONGITUDE	0964330.0885W
LTP/FTP ELLIPSOIDAL HEIGHT	+03807
FPAP LATITUDE	420753.0400N
FPAP LONGITUDE	0964420.4300W
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	1656
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	36550EA7

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+00406
FPAP ORTHOMETRIC HEIGHT	+00406

QUALITY 41 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.33

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

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
CARSON	KCXP	RNAV (GPS)-B	ORIG	CARSON CITY	NV

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
4705					14E	2010

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
RNAV		3 JANUARY 2019	ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
CHIME	IAF	CAARD		TF	FB	1.00	203.27	3.29	8500
CAARD	IF	BAVGE		TF	FB	1.00	215.69	5.02	8000
BAVGE	FAF	MIPSE	MAP	TF	FO	0.30	232.02	8.73	
MIPSE	MAP	5105 MSL		CA			232.02		
5105 MSL		JUTBA		DF	FB	1.00			
JUTBA		MARRI		TF	FO	1.00	162.43	12.63	

MISSED APPROACH

MAP:

MIPSE

MISSED APPROACH INSTRUCTIONS:

CLIMBING LEFT TURN TO 13400 DIRECT JUTBA AND ON TRACK 162.43 DIRECT MARRI AND HOLD, CONTINUE CLIMB-IN-HOLD TO 13400.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. PROFILE STARTS AT CAARD

3. FAC: 232.02 **FAF:** BAVGE **DIST FAF TO MAP:** 8.73 **DIST FAF TO THLD:**

4. MIN ALT: CAARD 8500, BAVGE 8000

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **GS ANT:**

6. MIN GP INCPT: **GP ALT AT FAF :** **OM:** **MM:** **IM:**

7. GP ANGLE: **34:1:** **20:1:** **TCH:**

8. MSA FROM: MIPSE 12000

QUALITY 4 CHECKED

PBN REQUIREMENTS NOTE:

RNP APCH

NOTES:

CHART NOTE: CIRCLING NA NORTH OF RWY 9-27.
CHART NOTE: PROCEDURE NA AT NIGHT.

ADDITIONAL FLIGHT DATA:

FAC CROSSES MIDPOINT OF RWY 9-27.
CHART CIRCLING ICON.
CHART FAS OBST: 5524 TREE 391300N/1194139W.
HOLD S, RT, 351.00 INBOUND

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: **NA** ☐ STANDARD - CAT A, B 1700-2, CAT C 1700-3, CAT D 3000-3

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
CIRCLING	6340	1 1/4	1635	6340	1 1/2	1635	6340	3	1635	7660	3	2955			

CHANGES - REASONS

ORIG PROCEDURE - FPT REQUEST.

QUALITY 4 CHECKED

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZOA, NORCAL APP CON, AMGR

FLIGHT CHECKED BY		**OFFICE**	**DATE**	
CHARLES D CUNNINGHAM	*Digitally signed by* ***DAVID DANNER*** Oct 17, 2018	FICO	10/10/18	
DEVELOPED BY		**OFFICE**	**DATE**	
LONNIE EVERHART (JOHN BURCH)	*Digitally signed by* ***DAVID DANNER*** Oct 17, 2018	AJV-5400	07/18/2018	
APPROVED BY		**OFFICE**	**DATE**	**TITLE**
LONNIE EVERHART	*Digitally signed by* ***DAVID DANNER*** Oct 17, 2018	AJV-5400		MANAGER

QUALITY 4 CHECKED

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
TITLE 14 CFR PART 97.37

Bearings, headings, courses, tracks and radials are magnetic. Elevations 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
TICONDEROGA, NY	TICONDEROGA MUNI	3 JANUARY 2019	1

TAKEOFF MINIMUMS:
RWY 2: STANDARD WITH MINIMUM CLIMB OF 223 FT PER NM TO 5300, OR 2800-3 FOR VCOA.
RWY 20: STANDARD WITH MINIMUM CLIMB OF 346 FT PER NM TO 1700, OR 2800-3 FOR VCOA.

TEXTUAL DEPARTURE PROCEDURES:
RWY 2: CLIMB ON A HEADING BETWEEN 029 CW TO 197 FROM DEPARTURE END OF RUNWAY.
RWY 20: CLIMB ON A HEADING BETWEEN 018 CW TO 198 FROM DEPARTURE END OF RUNWAY.

VISUAL CLIMB OVER AIRPORT:
ALL RUNWAYS: OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS TICONDEROGA MUNI AT OR ABOVE 2900 BEFORE PROCEEDING ON COURSE.

TAKEOFF OBSTACLE NOTES:
NOTE: RWY 2: SIGN 18 FT FROM DER, 118 FT LEFT OF CENTERLINE, 1 FT AGL/266 FT MSL.
TREE 33 FT FROM DER, 279 FT RIGHT OF CENTERLINE, 300 FT MSL.
TREES BEGINNING 40 FT FROM DER, 186 FT RIGHT OF CENTERLINE, UP TO 43 FT AGL/302 FT MSL.
TREES BEGINNING 131 FT FROM DER, 23 FT RIGHT OF CENTERLINE, UP TO 320 FT MSL.
TREE 653 FT FROM DER, 63 FT LEFT OF CENTERLINE, 284 FT MSL.
TREES BEGINNING 717 FT FROM DER, 239 FT LEFT OF CENTERLINE, UP TO 286 FT MSL.
TREES BEGINNING 759 FT FROM DER, 431 FT LEFT OF CENTERLINE, UP TO 90 FT AGL/289 FT MSL.
TREE 1068 FT FROM DER, 201 FT LEFT OF CENTERLINE, 292 FT MSL.

NOTE: RWY 20: TREE 54 FT FROM DER, 262 FT LEFT OF CENTERLINE, 41 FT AGL/305 FT MSL.
TREES BEGINNING 74 FT FROM DER, 256 FT LEFT OF CENTERLINE, UP TO 318 FT MSL.
TERRAIN 148 FT FROM DER, 185 FT RIGHT OF CENTERLINE, 280 FT MSL.
TERRAIN BEGINNING 190 FT FROM DER, 362 FT RIGHT OF CENTERLINE, UP TO 282 FT MSL.
TREES BEGINNING 331 FT FROM DER, 346 FT LEFT OF CENTERLINE, UP TO 328 FT MSL.
TERRAIN BEGINNING 382 FT FROM DER, 317 FT RIGHT OF CENTERLINE, UP TO 286 FT MSL.
TERRAIN BEGINNING 503 FT FROM DER, 215 FT RIGHT OF CENTERLINE, UP TO 288 FT MSL.
TERRAIN 541 FT FROM DER, 396 FT RIGHT OF CENTERLINE, 289 FT MSL.
TERRAIN 607 FT FROM DER, 285 FT RIGHT OF CENTERLINE, 290 FT MSL.
TERRAIN BEGINNING 737 FT FROM DER, 213 FT RIGHT OF CENTERLINE, UP TO 294 FT MSL.
TREES BEGINNING 872 FT FROM DER, 173 FT LEFT OF CENTERLINE, UP TO 331 FT MSL.
TERRAIN 934 FT FROM DER, 303 FT RIGHT OF CENTERLINE, 298 FT MSL.
TERRAIN 968 FT FROM DER, 221 FT RIGHT OF CENTERLINE, 299 FT MSL.
TERRAIN 1022 FT FROM DER, 420 FT RIGHT OF CENTERLINE, 301 FT MSL.
TREES BEGINNING 1151 FT FROM DER, 51 FT RIGHT OF CENTERLINE, UP TO 23 FT AGL/324 FT MSL.
TREES BEGINNING 1159 FT FROM DER, 286 FT RIGHT OF CENTERLINE, UP TO 30 FT AGL/332 FT MSL.
TREE AND TERRAIN BEGINNING 1165 FT FROM DER, 167 FT RIGHT OF CENTERLINE, UP TO 33 FT AGL/333 FT MSL.
TREES BEGINNING 1400 FT FROM DER, 548 FT LEFT OF CENTERLINE, UP TO 341 FT MSL.
TREE 1603 FT FROM DER, 708 FT RIGHT OF CENTERLINE, 47 FT AGL/340 FT MSL.
TREES BEGINNING 1618 FT FROM DER, 676 FT LEFT OF CENTERLINE, UP TO 357 FT MSL.
TREES BEGINNING 1681 FT FROM DER, 288 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/359 FT MSL.
TREES BEGINNING 1827 FT FROM DER, 95 FT LEFT OF CENTERLINE, UP TO 104 FT AGL/365 FT MSL.
TREES BEGINNING 2953 FT FROM DER, 18 FT LEFT OF CENTERLINE, UP TO 374 FT MSL.
TREES BEGINNING 2956 FT FROM DER, 100 FT RIGHT OF CENTERLINE, UP TO 357 FT MSL.
TREES BEGINNING 3379 FT FROM DER, 133 FT RIGHT OF CENTERLINE, UP TO 364 FT MSL.
TREE 3720 FT FROM DER, 375 FT RIGHT OF CENTERLINE, 368 FT MSL.
TREES BEGINNING 3758 FT FROM DER, 105 FT LEFT OF CENTERLINE, UP TO 383 FT MSL.
TREES BEGINNING 3938 FT FROM DER, 39 FT RIGHT OF CENTERLINE, UP TO 384 FT MSL.
TREES BEGINNING 4019 FT FROM DER, 126 FT LEFT OF CENTERLINE, UP TO 401 FT MSL.
TREE 4250 FT FROM DER, 552 FT RIGHT OF CENTERLINE, 69 FT AGL/385 FT MSL.
TREES BEGINNING 4482 FT FROM DER, 178 FT RIGHT OF CENTERLINE, UP TO 86 FT AGL/404 FT MSL.
TREE 4595 FT FROM DER, 161 FT RIGHT OF CENTERLINE, 91 FT AGL/405 FT MSL.

QUALITY 3 CHECKED

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
TITLE 14 CFR PART 97.37

Bearings, headings, courses, tracks and radials are magnetic. Elevations 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
TICONDEROGA, NY	TICONDEROGA MUNI	3 JANUARY 2019	1

CONTROLLING OBSTACLES:
RWY 2: 4035 FEET MSL AAO 440007.99N/0725630.35W.
RWY 20: 979 FEET MSL TREE 434936.53N/0732442.66W (CLIMB GRADIENT), 1459 FEET MSL AAO 434724.63N/0732554.79W (CLIMB GRADIENT TERMINATION ALTITUDE).

VCOA: 5053 FEET MSL AAO 440447.69N/0734704.42W.

OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: RWY 2, 20: 5053 FEET MSL AAO 440447.69N/0734704.42W.

REMARKS:

FLIGHT INSPECTED BY: JORGE A MALCUN	*Digitally signed by* ***DAVID DANNER*** Oct 26, 2018	**OFFICE SYMBOL:** FICO	**DATE:** 10/21/18
DEVELOPED BY: RUSS ROSLEWSKI	*Digitally signed by* ***RUSSELL ROSLEWSKI*** Aug 21, 2018	**OFFICE SYMBOL:** AJV-5421	**DATE:** 08/14/2018
APPROVED BY: JULIE MORGAN	*Digitally signed by* ***DAVID DANNER*** Oct 26, 2018	**OFFICE SYMBOL:** AJV-5420	**DATE:**

REQUIRED EFFECTIVE DATE:
ROUTINE

COORDINATED WITH:

A4A	ALPA	AOPA	APA	HAI	NBAA
☐	☒	☒	☐	☐	☒

OTHER:
ZBW, AIRPORT MANAGER

CHANGES - REASONS:
1. TAKEOFF MINIMUMS RWY 2 CHANGED FROM STANDARD TO REQUIRING A CG OR VCOA - NEW OBSTACLE EVALUATION.
2. TAKEOFF MINIMUMS RWY 20, CEILING/VIS OPTION REMOVED, CG/CGTA INCREASED, VCOA ADDED - NEW OBSTACLE EVALUATION.
3. TEXTUAL DEPARTURE PROCEDURE, BOTH RUNWAYS CHANGED FROM HEADING/ALTITUDE TO DEPARTURE SECTORS - CURRENT CRITERIA ON DR LEGS AND NEW OBSTACLE EVALUATION.
4. VCOA ADDED FOR BOTH RUNWAYS - NEITHER RUNWAY HAS A STANDARD CLIMB GRADIENT OPTION.
5. UPDATED TAKEOFF OBSTACLE NOTES AND CONTROLLING OBSTACLES - NEW OBSTACLE EVALUATION AND CURRENT DOCUMENTATION POLICY.

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.29

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

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
JAMES M COX DAYTON INTL	KDAY	ILS OR LOC RWY 24L	11	DAYTON	OH

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
1009	1007	ILS OR LOC RWY 24L	10A	05/24/2018	6W	2020

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
I-EGK		3 JANUARY 2019	ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
ROD VORTAC		TARRY INT/I-EGK 17.48 DME					157.01	15.20	2800
TARRY INT/I-EGK 17.48 DME	IAF	JAVDO INT/I-EGK 12.18 DME					241.36 (I-EGK)	5.30	2800
JAVDO INT/I-EGK 12.18 DME	IF	ZAMBO INT/I-EGK 6.23 DME					241.36 (I-EGK)	5.95	2600

MISSED APPROACH

MAP:

ILS: DA
LOC: 4.86 NM AFTER ZAMBO INT/I-EGK 6.23 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 ON HEADING 241 AND DQN R-180 TO MIMMS/DQN 18 DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):

CLIMB TO 1500 THEN CLIMBING LEFT TURN TO 3000 ON HEADING 045 AND ON ROD VORTAC R-194 TO ZAMBO INT/I-EGK 4.86 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000.

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. PROFILE STARTS AT JAVDO

3. FAC: 241.36 **FAF:** ZAMBO INT/I-EGK 6.23 DME **DIST FAF TO MAP:** 4.86 **DIST FAF TO THLD:** 4.86

4. MIN ALT: JAVDO INT/I-EGK 12.18 DME 2800, ZAMBO INT/I-EGK 6.23 DME 2600

5. DIST TO THLD FROM PFAF: 4.86 **MM:** **IM:** **150 HAT:** **GS ANT:** 900

6. MIN GS INCPT: 2600 **GS ALT AT FAF :** ZAMBO INT/I-EGK 6.23 DME 2600 **OM:** **MM:** **IM:**

7. GP ANGLE: 3.00 **34:1:** **20:1:** **TCH:** 50.0

8. MSA FROM: DQN VOR/DME 3100

EQUIPMENT REQUIREMENTS NOTES:

DME REQUIRED.

QUALITY 18 CHECKED

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
JAMES M COX DAYTON INTL	KDAY	ILS OR LOC RWY 24L	11	DAYTON	OH

NOTES:

CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.
CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: **RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA.

ADDITIONAL FLIGHT DATA:

CHART IN PLANVIEW: ROD VORTAC R-194 AND DQN VOR/DME R-108 AT ZAMBO
CHART ARRIVAL HOLDING AT TARRY: HOLD NE, RT, 241.36 INBOUND, 2800.
CHART CIRCLING ICON.
CHART VDP AT 2.57 DME*
DISTANCE VDP TO THLD 1.20 NM
* LOC ONLY
FAS OBST: 1179 AAO 395554N/0840736W.
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NE ZAMBO INT/I-EGK 4.86 DME, RT, 241.36 INBOUND.
HOLD S, LT, 359.99 INBOUND

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ ILS: STANDARD; LOC: STANDARD

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
S-ILS 24L**	1207	2400	200	1207	2400	200	1207	2400	200	1207	2400	200			
S-LOC 24L	1440	2400	433	1440	2400	433	1440	4000	433	1440	4000	433			
CIRCLING	1580	1	571	1580	1	571	1580	1 1/2	571	1640	2	631			

CHANGES - REASONS

1. CHANGED ALL REFERENCE OF ZAMBO OM/INT TO ZAMBO INT/EGK 6.23 DME - ADDED DME TO EGK ILS.
2. TERMINAL ROUTES: CHANGED TARRY FROM AN INT TO INT/EGK 17.48 DME - ADDED DME TO EGK ILS AND ALIGNED TO FINAL.
3. TERMINAL ROUTES: ADDED ROUTE FROM TARRY TO JAVDO AND APPLICABLE DATA - ADDED JAVDO PER ATC REQUEST.
4. TERMINAL ROUTES: ADDED ROUTE FROM JAVDO TO ZAMBO AND APPLICABLE DATA - ADDED JAVDO PER ATC REQUEST.
5. LINE 1: DELETED PROCEDURE TURN AND APPLICABLE DATA - ATC REQUEST.
6. LINE 3: CHANGED FAC FROM 241.37 TO 241.36 - NEW ILS DATA.
7. ADDITIONAL FLIGHT DATA: ADDED CHART ARRIVAL HOLDING AT TARRY: HOLD NE, RT, 241.36 INBOUND, 2800 - PER ATC REQUEST.
8. MINIMUMS: CHANGED S-LOC 24L MDA/HAT ALL CATS FROM 1500/493 TO 1440/433; CAT C/D RVR FROM 5000 TO 4000 - NEW FINAL EVALUATION.
9. MISSED APPROACH: CHANGED ALL REFERENCE OF MIMMS INT TO MIMMS/DQN 15.73 DME - RICHMOND VORTAC BEING DECOMMISSIONED.
10. ADDED EQUIPEMENT REQUIREMENTS NOTE: DME REQUIRED - CRITERIA: 8260.19H, PARA 8-6-8 A(2).
11. DELETED INOP NOTE - INCREASE NOW MATCHES INOP TABLE.
12. LINE 3: DIST FAF TO MAP/THLD CHANGED FROM 4.69 TO 4.86 - ZAMBO RELOCATED.

QUALITY 18 CHECKED

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZID, COLUMBUS APP CON, DAY ATCT, AMGR, ATA

FLIGHT CHECKED BY	*Digitally signed by* ***DAVID DANNER*** Oct 17, 2018	**OFFICE**	**DATE**	
GLEN B FREEMAN		FICO	9/5/18	
DEVELOPED BY	*Digitally signed by* ***JAMES ROGERS*** Jul 11, 2018	**OFFICE**	**DATE**	
JAMES ROGERS		AJV-5421	04/20/2018	
APPROVED BY	*Digitally signed by* ***DAVID DANNER*** Oct 17, 2018	**OFFICE**	**DATE**	**TITLE**
JULIE MORGAN		AJV-5420		MANAGER

QUALITY 18 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.33

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Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or feet RVR.

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
JAMES M COX DAYTON INTL	KDAY	RNAV (GPS) RWY 24L	2	DAYTON	OH

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
1009	1007	RNAV (GPS) RWY 24L	1D	05/24/2018	6W	2020

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
RNAV		3 JANUARY 2019	ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
ROD VORTAC		TARRY		TF	FB	2.00	163.01	15.20	3000
TARRY	IAF	JAVDO		TF	FB	1.00	241.44	5.30	3000
JAVDO	IF	ZAMBO		TF	FB	1.00	241.50	5.95	2600
ZAMBO	FAF	RW24L	MAP	TF	FO	0.30	241.44	4.86	
RW24L	MAP	1207 MSL		CA			241.44		
1207 MSL		WANSU		DF	FB	1.00			
WANSU		MIMMS		TF	FO	1.00	227.06	9.36	3000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW24L

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT WANSU AND ON TRACK 227.06 TO MIMMS AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY 18 CHECKED

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. PROFILE STARTS AT TARRY

3. FAC: 241.44 **FAF:** ZAMBO **DIST FAF TO MAP:** 4.86 **DIST FAF TO THLD:** 4.86

4. MIN ALT: TARRY 3000, JAVDO 3000, ZAMBO 2600

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **200 HAT:** 0.49 **GS ANT:**

6. MIN GP INCPT: 2600 **GP ALT AT FAF :** ZAMBO 2600 **OM:** **MM:** **IM:**

7. GP ANGLE: 3.00 **34:1:** IS CLEAR **20:1:** IS CLEAR **TCH:** 50.0

8. MSA FROM: RW24L 3100

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.
CHART NOTE: LNAV PROCEDURE NA DURING SIMULTANEOUS OPERATIONS.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -19C OR ABOVE 54C.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ROD VORTAC ON V47 NORTHEAST BOUND.
CHART NOTE: USE OF FD OR AP REQUIRED DURING SIMULTANEOUS OPERATIONS.
CHART NOTE: **RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA
CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS RVR TO 4500.

ADDITIONAL FLIGHT DATA:

CHART ASR
CHART ARRIVAL HOLDING AT TARRY: HOLD NE, RT, 241.36 INBOUND, 3000.
CHART CIRCLING ICON.
CHART VDP AT 1.2 NM TO RW24L*
*LNAV ONLY
WAAS CHANNEL #50414
REFERENCE PATH ID: W24A
FAS OBST: 1179 AAO 395554N/0840736W.
HOLD W, RT, 096.00 INBOUND
LTP HAE: 272 M

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: **NA** ☐ STANDARD

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LPV DA **	1207	2400	200	1207	2400	200	1207	2400	200	1207	2400	200			
LNAV/VNAV DA	1327	2400	320	1327	2400	320	1327	2400	320	1327	2400	320			
LNAV MDA	1440	2400	433	1440	2400	433	1440	4000	433	1440	4000	433			
CIRCLING	1580	1	571	1580	1	571	1580	1 1/2	571	1640	2	631			

QUALITY 18 CHECKED

CHANGES - REASONS

1. CHANGED ALL REFERENCE OF OKIDE TO ZAMBO - ALIGNING RNAV APPROACH TO ILS APPROACH.
2. ADDITIONAL FLIGHT DATA: CHANGED VDP FROM 1.15 NM TO 1.20 NM - NEW LNAV FINAL EVALUATION.
3. LINE 7: CHANGED TCH FROM 51.1 TO 50.0 - TO ALIGN WITH CURRENT ILS DATA.
4. ADDITIONAL FLIGHT DATA: ADDED CHART ARRIVAL HOLDING AT TARRY: HOLD NE, RT, 241.36 INBOUND, 3000 - PER ATC REQUEST.
5. NOTES: DELETED CHART NOTE: DME/DME RNP-0.3 NA - NO LONGER REQUIRED BY CRITERIA.
6. ADDED EQUIPMENT REQUIREMENTS NOTE: RNP APCH.
7. MINIMUMS: LOWERED LNAV/VNAV DA/HAT FROM 1402/395 TO 1327/320; LOWERED RVR ALL CATS FROM 5000 TO 2400 - NEW LNAV/VNAV EVALUATION.
8. MIINIMUMS: RAISED LNAV MDA/HAT ALL CATS FROM 1420/413 TO 1440/433; LOWERED CAT D RVR FROM 5000 TO 4000 - NEW LNAV FINAL EVALUATION AND VISCHECK CALCULATION.
9. NOTES: CHANGED INOP NOTE FROM FOR INOPERATIVE ALS, INCREASE LNAV CAT C/D VISIBILITY TO RVR 6000 TO FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS RVR TO 4500 - NEW VISCHECK CALCULATION.
10. NOTES: ADDED VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI AND {ANGLE}/TCH {FEET}) - TCH 50.0, VGSI TCH 54.1.
11. TERMINAL ROUTES: CHANGED DISTANCE FROM JAVDO TO ZAMBO FROM 6.10 TO 5.95 - ZAMBO ADDED TO PROCEDURE TO ALIGN WITH ILS 24L.
12. PROFILE VIEW: CHANGED DIST FAF TO MAP FROM 4.80 TO 4.86; CHANGED DIST FAF TO THLD FROM 4.80 TO 4.86 - NEW FINAL EVALUATION.
13. CHANGED PLANVIEW NOTE FROM PROCEDURE NA FOR ARRIVAL AT TARRY ON V12 EASTBOUND, AND FOR ARRIVAL AT ROD VORTAC VIA V47 NORTHEAST BOUND TO PROCEDURE NA FOR ARRIVAL AT ROD VORTAC ON V47 NORTHEAST BOUND - ARRIVAL HOLDING ADDED AT TARRY.
14. ADDITIONAL FLIGHT DATA: CHANGED FAS OBST FROM 1151 ANT ON OL TANK TO 1179 AAO.
15. FAS DATA: CHANGED TCH FROM 51.1 TO 50.0; CHANGED CRC REMAINDER FROM 4BB03E64 TO 15954A06 - NEW PROCEDURE EVALUATION.

QUALITY 18 CHECKED

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZID, CMH APP CON, DAY ATCT, AMGR, ATA

		OFFICE	DATE	
FLIGHT CHECKED BY	*Digitally signed by* ***DAVID DANNER*** Oct 17, 2018			
JAMES ONIEAL		FICO	10/11/18	
DEVELOPED BY	*Digitally signed by* ***JAMES ROGERS*** Jul 13, 2018	**OFFICE**	**DATE**	
JAMES ROGERS		AJV-5421	04/20/2018	
APPROVED BY	*Digitally signed by* ***DAVID DANNER*** Oct 17, 2018	**OFFICE**	**DATE**	**TITLE**
JULIE MORGAN		AJV-5420		MANAGER

QUALITY 18 CHECKED

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KDAY
RUNWAY	RW24L
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W24A
LTP/FTP LATITUDE	395406.9100N
LTP/FTP LONGITUDE	0841206.7570W
LTP/FTP ELLIPSOIDAL HEIGHT	+00272
FPAP LATITUDE	395316.2200N
FPAP LONGITUDE	0841342.0000W
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	0528
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	15954A06

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+03051
FPAP ORTHOMETRIC HEIGHT	+03051

QUALITY 18 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.33

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Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or feet RVR.

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
JAMES M COX DAYTON INTL	KDAY	RNAV (GPS) Z RWY 6L	1E	DAYTON	OH

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
1009	998	RNAV (GPS) Z RWY 6L	1D	05/24/2018	6W	2020

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
RNAV		3 JANUARY 2019	ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
DQN VOR/DME		DUGPE		TF	FB	2.00	214.07	10.82	3000
DUGPE	IAF	EREME		TF	FB	1.00	151.17	5.00	2700
EREME	IF	CIBIR		TF	FB	1.00	061.21	6.10	2700
CIBIR	PFAF	RW06L	MAP	TF	FO	0.30	061.28	5.11	
RW06L	MAP	1198 MSL		CA			061.28		1198
1198 MSL		HEGUK		DF	FB	1.00			
HEGUK		ICASI		TF	FB	1.00	331.34	6.08	
ICASI		DQN VOR/DME		TF	FO	1.00	270.00	8.06	3000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW06L

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT HEGUK AND ON TRACK 331.34 TO ICASI AND ON TRACK 270.00 TO DQN VOR/DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY 18 CHECKED

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. PROFILE STARTS AT EREME

3. FAC: 061.28 **FAF:** CIBIR **DIST FAF TO MAP:** 5.11 **DIST FAF TO THLD:** 5.11

4. MIN ALT: EREME 2700, CIBIR 2700

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **200 HAT:** 0.47 **GS ANT:**

6. MIN GP INCPT: 2700 **GP ALT AT FAF :** CIBIR 2700 **OM:** **MM:** **IM:**

7. GP ANGLE: 3.00 **34:1:** IS CLEAR **20:1:** IS CLEAR **TCH:** 50.7

8. MSA FROM: RW06L 3100

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.
CHART NOTE: LNAV PROCEDURE NA DURING SIMULTANEOUS OPERATIONS.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -19C OR ABOVE 54C.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON DQN VOR/DME AIRWAY RADIALS 208 CW 287.
CHART NOTE: USE OF FD OR AP REQUIRED DURING SIMULTANEOUS OPERATIONS.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 5500 AND LNAV CATS C/D TO 1 1/4 SM.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
CHART VDP AT 1.11 NM TO RW06L*
*LNAV ONLY
WAAS CHANNEL #42913
REFERENCE PATH ID: W06A
CHART FAS OBST: 1116 TOWER 395130N/0841712W.
HOLD W, RT, 086.00 INBOUND
LTP HAE: 271 M

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: **NA** ☐ STANDARD

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LPV DA	1198	1800	200	1198	1800	200	1198	1800	200	1198	1800	200			
LNAV/VNAV DA	1366	4000	368	1366	4000	368	1366	4000	368	1366	4000	368			
LNAV MDA	1420	2400	422	1420	2400	422	1420	4000	422	1420	5000	422			
CIRCLING	1580	1	571	1580	1	571	1580	1 1/2	571	1640	2	631			

CHANGES - REASONS

1. TERMINAL ROUTES: DELETED RID VORTAC TO EREME AND ALL APPLICABLE DATA - RID VORTAC IS BEING REDUCED TO DME ONLY.
2. DELETED CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON RID VORTAC AIRWAY RADIALS 031 CW 055 - RID VORTAC IS BEING REDUCED TO DME ONLY.

QUALITY 18 CHECKED

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZID, CMH APP CON, DAY ATCT, AMGR, ATA

FLIGHT CHECKED BY		OFFICE	DATE
FLIGHT INSPECTION REVIEW NOT REQUIRED - PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, DEC 22, 2017.	*Digitally signed by* ***DAVID DANNER*** Oct 17, 2018		
DEVELOPED BY		**OFFICE**	**DATE**
JAMES ROGERS	*Digitally signed by* ***JAMES ROGERS*** Jul 13, 2018	AJV-5421	05/02/2018

APPROVED BY		OFFICE	DATE	TITLE
JULIE MORGAN	*Digitally signed by* ***DAVID DANNER*** Oct 17, 2018	AJV-5420		MANAGER

QUALITY 18 CHECKED

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KDAY
RUNWAY	RW06L
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Z
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W06A
LTP/FTP LATITUDE	395342.3885N
LTP/FTP LONGITUDE	0841445.6640W
LTP/FTP ELLIPSOIDAL HEIGHT	+00271
FPAP LATITUDE	395443.6500N
FPAP LONGITUDE	0841250.6200W
THRESHOLD CROSSING HEIGHT (TCH)	00050.7
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
CRC REMAINDER	F7DB4AEB

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+03041
FPAP ORTHOMETRIC HEIGHT	+03041

QUALITY 18 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.33

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

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
JAMES M COX DAYTON INTL	KDAY	RNAV (GPS) Z RWY 24R	2B	DAYTON	OH

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
1009	997	RNAV (GPS) Z RWY 24R	2A	05/24/2018	6W	2020

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
RNAV		3 JANUARY 2019	ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
ROD VORTAC		BONEE		TF	FB	2.00	168.91	14.76	3000
BONEE	IAF	DEDVE		TF	FB	1.00	241.61	4.64	3000
DEDVE	IF	HABNU		TF	FB	1.00	241.49	5.33	2600
HABNU	FAF	RW24R	MAP	TF	FO	0.30	241.41	4.87	
RW24R	MAP	1203 MSL		CA			241.41		
1203 MSL		ZUXOT		DF	FB	1.00			
ZUXOT		ALIAS		TF	FO	1.00	237.62	12.77	3000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW24R

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT ZUXOT AND ON TRACK 237.62 TO ALIAS AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY 18 CHECKED

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. PROFILE STARTS AT BONEE

3. FAC: 241.41 **FAF:** HABNU **DIST FAF TO MAP:** 4.87 **DIST FAF TO THLD:** 4.87

4. MIN ALT: BONEE 3000, DEDVE 3000, HABNU 2600

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **206 HAT:** 0.48 **GS ANT:**

6. MIN GP INCPT: 2600 **GP ALT AT FAF :** HABNU 2600 **OM:** **MM:** **IM:**

7. GP ANGLE: 3.00 **34:1:** IS CLEAR **20:1:** IS CLEAR **TCH:** 54.9

8. MSA FROM: RW24R 3100

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -19C OR ABOVE 54C.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ROD VORTAC ON V47 NORTHEAST BOUND AND AT BONEE ON T217 NORTHBOUND.
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED.
CHART NOTE: LNAV PROCEDURE NA DURING SIMULTANEOUS OPERATIONS.
CHART NOTE: USE OF FD OR AP REQUIRED DURING SIMULTANEOUS OPERATIONS.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 4500.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON
CHART VDP AT 1.22 NM TO RW24R*
*LNAV ONLY
WAAS CHANNEL #66013
REFERENCE PATH ID: W24B
FAS OBST: 1149 AAO 395648N/0840739W.
HOLD SW, RT, 057.63 INBOUND
LTP HAE: 270.3 M

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

QUALITY 18 CHECKED

ALTERNATE: **NA** ☐ STANDARD

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LPV DA	1203	2400	206	1203	2400	206	1203	2400	206	1203	2400	206			
LNAV/VNAV DA	1294	2400	297	1294	2400	297	1294	2400	297	1294	2400	297			
LNAV MDA	1440	2400	443	1440	2400	443	1440	4500	443	1440	4500	443			
CIRCLING	1580	1	571	1580	1	571	1580	1 1/2	571	1640	2	631			

CHANGES - REASONS

1. CHANGED PLANVIEW NOTE FROM PROCEDURE NA FOR ARRIVAL ON ROD VORTAC AIRWAY RADIALS 088 CW 207 AND ARRIVALS AT BONEE ON V12 EASTBOUND TO PROCEDURE NA FOR ARRIVAL AT ROD VORTAC ON V47 NORTHEAST BOUND AND AT BONEE ON T217 NORTHBOUND - V12 AIRWAY IS BEING CANCELLED.

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZID, COLUMBUS APP CON, DAY ATCT, AMGR, ATA

FLIGHT CHECKED BY		OFFICE	DATE
FLIGHT INSPECTION REVIEW NOT REQUIRED - PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, DEC 22, 2017.	*Digitally signed by* ***DAVID DANNER*** Oct 17, 2018		
DEVELOPED BY		**OFFICE**	**DATE**
JAMES ROGERS	*Digitally signed by* ***JAMES ROGERS*** May 08, 2018	AJV-5421	05/08/2018
APPROVED BY		**OFFICE**	**DATE**
JULIE MORGAN	*Digitally signed by* ***DAVID DANNER*** Oct 17, 2018	AJV-5420	

TITLE
MANAGER

QUALITY 18 CHECKED

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KDAY
RUNWAY	RW24R
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Z
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W24B
LTP/FTP LATITUDE	395443.6505N
LTP/FTP LONGITUDE	0841250.6145W
LTP/FTP ELLIPSOIDAL HEIGHT	+02703
FPAP LATITUDE	395342.3885N
FPAP LONGITUDE	0841445.6640W
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	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	DD81DBCC

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+03035
FPAP ORTHOMETRIC HEIGHT	+03035

QUALITY 18 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.33

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

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
CLEARFIELD-LAWRENCE	KFIG	RNAV (GPS) RWY 30	1B	CLEARFIELD	PA

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
1516	1516	RNAV (GPS) RWY 30	1A	12/11/2014	10W	2000

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
RNAV		3 JANUARY 2019	ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
PSB VORTAC	IAF	EBUME	NOPT	TF	FB	1.00	308.29	8.02	4000
NUXUW	IAF	EBUME	NOPT	TF	FB	1.00	344.13	7.50	4000
ODLOE	IAF	EBUME	NOPT	TF	FB	1.00	254.18	7.50	4000
EBUME	IF/IAF	EZMEC		TF	FB	1.00	299.08	7.00	3300
EZMEC	FAF	ZURTO/1.90 NM TO UYUHO		TF	FB	0.30	298.99	2.56	
ZURTO/1.90 NM TO UYUHO		UYUHO	MAP	TF	FO	0.30	298.99	1.90	
UYUHO	MAP	2200 MSL		CA			298.99		2200
2200 MSL		EBUME		DF	FO	1.00			4000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: UYUHO

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2200 THEN CLIMBING LEFT TURN TO 4000 DIRECT EBUME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY 10 CHECKED

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. HOLD SE EBUME, RT, 299.08 INBOUND, 4000 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 298.99 **FAF:** EZMEC **DIST FAF TO MAP:** 4.46 **DIST FAF TO THLD:** 5.46

4. MIN ALT: EBUME 4000, EZMEC 3300, ZURTO/1.90 NM TO UYUHO 2480*

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **492 HAT:** 1.40 **GS ANT:**

6. MIN GP INCPT: 3300 **GP ALT AT FAF :** EZMEC 3300 **OM:** **MM:** **IM:**

7. GP ANGLE: 3.00 **34:1:** IS CLEAR **20:1:** IS CLEAR **TCH:** 50.0

8. MSA FROM: UYUHO 4200

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW 8C OR ABOVE 54C.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON PSB VORTAC AIRWAY RADIALS 282 CW 349.

ADDITIONAL FLIGHT DATA:

CHART VDP AT 1.82 NM TO RW30*
*LNAV ONLY
WAAS CHANNEL #58227
REFERENCE PATH ID: W30A
CHART FAS OBST: 2032 TOWER 410111N/0782123W.
LTP HAE: 428.1 M

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ STANDARD - CAT D 900-2 3/4

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LPV DA	2008	1 3/8	492	2008	1 3/8	492	2008	1 3/8	492	2008	1 3/8	492			
LNAV/VNAV DA	2029	1 3/8	513	2029	1 3/8	513	2029	1 3/8	513	2029	1 3/8	513			
LNAV MDA	2120	1 1/4	604	2120	1 1/4	604	2120	1 3/4	604	2120	1 3/4	604			
CIRCLING	2180	1 1/4	664	2180	1 1/4	664	2180	1 3/4	664	2340	2 3/4	824			

QUALITY 10 CHECKED

CHANGES - REASONS

1. LPV CAT A/B/C/D DA/HAT/VIS CHANGED FROM "1841/325/1" TO "2008/492/1 3/8" - MISSED APPROACH PENETRATION OBSTACLE CHANGED FROM "TREE 410254.00N/0782418.00W, 1626FT" TO "TOWER 410405.00N/0783107.00W, 2665 FT".
2. LNAV/VNAV CAT A/B/C/D DA/HAT/VIS CHANGED FROM "1886/370/ 1 1/4" TO "2029/513/1 3/8" - MISSED APPROACH PENETRATION OBSTACLE CHANGED FROM "TREE 410254.00N/0782418.00W, 1626FT" TO "TOWER 410405.00N/0783107.00W, 2665 FT".
3. REMOVED CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE DUBOIS REGIONAL ALTIMETER SETTING AND INCREASE ALL DA 96 FT, INCREASE ALL MDA 100 FT, INCREASE LPV AND LNAV/VNAV ALL CATS VISIBILITY 3/8 MILE, INCREASE LNAV CATS C/D VISIBILITY 1/4 MILE, INCREASE CIRCLING CAT C VISIBILITY 1/2 MILE AND CAT D VISIBILITY 1/4 MILE - PRIMARY ALTIMETER SOURCE LOCAL, ON-AIRPORT AND ON WMSCR.
4. REMOVED "CHART NOTE: VDP NA WITH DUBOIS REGIONAL ALTIMETER SETTING" AND BARO-VNAV NA WHEN USING DUBOIS RGNL ALTIMETER SETTING - PRIMARY ALTIMETER SOURCE LOCAL, ON-AIRPORT AND ON WMSCR.
5. TERMINAL ROUTE: FROM "ZURTO/1.9O NM TO UYUHO" TO UYUHO COURSE CHANGED FROM 298.95 TO 298.99 - COURSE RECALCULATION UPDATE.
6. TERMINAL ROUTE: FROM UYUHO TO "2200 MSL". CHANGED FROM 298.95 TO 298.99 - COURSE RECALCULATION UPDATE
7. ADDITIONAL FLIGHT DATA: REMOVED "TOWER 410221N/0782451W"- 7:1 PENETRATION NO LONGER EXIST.
8. CHANGED CHART NOTE FROM "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -18C (0F) OR ABOVE 34C (93F)" TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW 8C OR ABOVE 54C"- IAW 8260.19H PARA 8-6-9(S), TEMPERATURE DATA RECALCULATED.
9. NOTE DELETED: DME/DME RNP-0.3 NA - PER MEMO 257.
10. ADDED PBN REQUIREMENTS NOTE: RNP APCH - PER MEMO 257.
11. CRC REMINDER CHANGED FROM 913DC840 TO 3338E5D9 - FPAP COORDINATE CHANGED FROM "410318.5600N/0782618.2100W" TO "410318.5640N/0782618.2090W". LENGTH OFFSET CHANGED FROM 1376 TO 1384.
12. LINE 7 CHANGED FROM "34:1 IS CLEAR" TO "34:1 IS CLEAR, 20:1 IS CLEAR" - IAW 8260.19H PARA 8-6-7G(3).
13. DELETED NOTE "RADAR REQUIRED FOR PROCEDURE ENTRY AT NUXUW AND AT ODLOE" - RADAR NOT REQUIRED ON GPS PROCEDURES.
14. CHANGED PROCEDURE ENTRY RESTRICTION RADIALS FOR ARRIVAL AT PSB VORTAC FROM "245 CW 349" TO "282 CW 349" - TURNS EXCEED 90 DEGREES.
15. VDP CHANGED FROM 1.83 TO 1.82 - NEW EVALUATION.

QUALITY 10 CHECKED

COORDINATED WITH:

A4A ☐ **ALPA** ☐ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZNY, KFIG AIRPORT MANAGER

FLIGHT CHECKED BY	*Digitally signed by* ***DONALD H LANIER*** Oct 29, 2018	**OFFICE**	**DATE**	
JORGE A MALCUN		FICO	10/21/18	
DEVELOPED BY	*Digitally signed by* ***KWEKU DONKOR*** Jul 24, 2018	**OFFICE**	**DATE**	
KWEKU DONKOR		AJV-5433	07/09/2018	
APPROVED BY	*Digitally signed by* ***DONALD H LANIER*** Oct 29, 2018	**OFFICE**	**DATE**	**TITLE**
PATRICK MULQUEEN		AJV-5430	07/09/2018	MANAGER

QUALITY 10 CHECKED

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KFIG
RUNWAY	RW30
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W30A
LTP/FTP LATITUDE	410249.6805N
LTP/FTP LONGITUDE	0782426.7925W
LTP/FTP ELLIPSOIDAL HEIGHT	+04281
FPAP LATITUDE	410318.5640N
FPAP LONGITUDE	0782618.2090W
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	1384
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	3338E5D9

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+04606
FPAP ORTHOMETRIC HEIGHT	+04606

QUALITY 10 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.29

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

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
PHILADELPHIA INTL	KPHL	ILS OR LOC RWY 27L	14B	PHILADELPHIA	PA

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
36	10	ILS OR LOC RWY 27L	14A	02/01/2018	12W	2020

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
I-GLC		3 JANUARY 2019	ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
CYN VORTAC	IAF	FESTI/I-GLC 11.19 DME/RADAR					293.02	26.71	3000
FESTI/I-GLC 11.19 DME	IF	TORNE/I-GLC 8.72 DME/RADAR					267.49	2.47 (I-GLC)	3000

MISSED APPROACH

MAP:

ILS: DA
LOC: 8.54 NM AFTER TORNE/I-GLC 8.72 DME/RADAR OR AT XIVOY/0.19 DME FIX

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1500 THEN CLIMBING LEFT TURN TO 3000 DIRECT OOD VORTAC AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):

CLIMB TO 1500 THEN CLIMBING RIGHT TURN TO 3000 DIRECT MXE VORTAC AND HOLD.

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. PROFILE STARTS AT FESTI

3. FAC: 267.49 **FAF:** TORNE/I-GLC 8.72 DME/RADAR **DIST FAF TO MAP:** 8.54 **DIST FAF TO THLD:** 9.21

4. MIN ALT: FESTI/I-GLC 11.19 DME/RADAR 3000, TORNE/I-GLC 8.72 DME/RADAR 3000, GLOUS/I-GLC 5.81 DME/RADAR 2060*

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **GS ANT:** 1094

6. MIN GS INCPT: 3000 **GS ALT AT FAF :** TORNE/I-GLC 8.72 DME/RADAR 3000 **OM:** **MM:** **IM:**

7. GP ANGLE: 3.00 **34:1:** **20:1:** **TCH:** 57.2

8. MSA FROM: OOD VORTAC 2600

EQUIPMENT REQUIREMENTS NOTES:

DME OR RADAR REQUIRED.

NOTES:

CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

QUALITY 18 CHECKED

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON CYN VORTAC AIRWAY RADIALS 246 CW 274.

ADDITIONAL FLIGHT DATA:

CHART IN PROFILE VIEW: I-GLC DME ANTENNA
CHART CIRCLING ICON.
CHART IN PLANVIEW: MXE VORTAC
CHART VDP AT 1.00 DME*
DISTANCE VDP TO THLD 1.49 NM
* LOC ONLY
CHART FAS OBST: 387 BRIDGE 395417N/0750733W.
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD SW MXE VORTAC, RT, 054.00 INBOUND.
HOLD SW, LT, 032.28 INBOUND

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ ILS: STANDARD; LOC: STANDARD - CAT D 800-2 1/4

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
S-ILS 27L	210	2400	200	210	2400	200	210	2400	200	210	2400	200			
S-LOC 27L	560	2400	550	560	2400	550	560	6000	550	560	6000	550			
CIRCLING	560	1	524	600	1	564	620	1 5/8	584	720	2 1/4	684			

CHANGES - REASONS

1. REMOVED CHART PROFILE NOTE: ILS UNUSABLE FROM 0.67 NM INBOUND TO THRESHOLD PER FPT REQUEST.
2. OBSTACLE IN THE ILS FINAL EXCLUDED IN ACCORDANCE WITH 8260.3C 10-6-1.
3. REDUCED DA/HAT TO 210/200FT FOR THE ILS FOR ALL CATAGORY OF AIRCRAFT - PENETRATING OBSTACLE FIXED BY FUNCTION.
4. CAT C CIRCLING VISIBILITY INCREASED FROM 1 1/2 TO 1 5/8 - CHART CORRECTION (NO LIGHT VALUE FOR S-LOC 27L)

QUALITY 18 CHECKED

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZDC, PHL APP CON, PHL ATCT, AMGR, ATA

		OFFICE	DATE	TITLE
FLIGHT CHECKED BY	*Digitally signed by* ***ROBERT G HAMILTON*** Oct 25, 2018			
JORGE A MALCUN		FICO	10/23/2018	
DEVELOPED BY	*Digitally signed by* ***ROBERT G HAMILTON*** Oct 25, 2018	**OFFICE**	**DATE**	
LONNIE EVERHART (TYLER MITCHELL)		AJV-5400	05/31/2018	
APPROVED BY		**OFFICE**	**DATE**	**TITLE**
LONNIE EVERHART	*Digitally signed by* ***ROBERT G HAMILTON*** Oct 25, 2018	AJV-5400		MANAGER

QUALITY 18 CHECKED

FEDEERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
NDB STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.27

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

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
TULLAHOMA RGNL ARPT/WM NORTHERN FIELD	KTHA	NDB RWY 18	3B	TULLAHOMA	TN

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
1084	1082	NDB RWY 18	3A	01/08/2015		

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
			ROUTINE	CANCEL

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE

PROCEDURE CANCELLED EFFECTIVE 3 JANUARY 2019

MISSED APPROACH

MAP:

MISSED APPROACH INSTRUCTIONS:

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2.

3. FAC: **FAF:** **DIST FAF TO MAP:** **DIST FAF TO THLD:**

4. MIN ALT:

8. MSA FROM:

EQUIPMENT REQUIREMENTS NOTES:

NOTES:

ADDITIONAL FLIGHT DATA:

MINIMUMS:

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
TULLAHOMA RGNL ARPT/WM NORTHERN FIELD	KTHA	NDB RWY 18	3B	TULLAHOMA	TN

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA

CHANGES - REASONS

COORDINATED WITH:

A4A ☐ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ **OTHER:** ZME, AMGR

FLIGHT CHECKED BY		OFFICE	DATE

DEVELOPED BY		OFFICE	DATE
LONNIE EVERHART (ANDRE TUCKER)	*Digitally signed by* ***ROBERT G HAMILTON*** Oct 29, 2018	AJV-5400	06/06/2018

APPROVED BY		OFFICE	DATE	TITLE
LONNIE EVERHART	*Digitally signed by* ***ROBERT G HAMILTON*** Oct 29, 2018	AJV-5400		

QUALITY 25 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.33

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

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
TULLAHOMA RGNL ARPT/WM NORTHERN FIELD	KTHA	RNAV (GPS) RWY 6	2	TULLAHOMA	TN

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
1084	1084	RNAV (GPS) RWY 6	1B	06/25/2015	3W	2005

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
RNAV		3 JANUARY 2019	ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
SYI VOR/DME		FOVEK		TF	FB	2.00	209.74	13.11	3000
FOVEK	IAF	EXEGE	NOPT	TF	FB	1.00	135.72	7.65	3000
ATWUS	IAF	EXEGE	NOPT	TF	FB	1.00	058.04	4.66	3000
EXEGE	IF/IAF	DACNA		TF	FB	1.00	060.68	6.04	2700
DACNA	FAF	JAROL/2.20 NM TO RW06		TF	FB	0.30	060.74	2.75	
JAROL/2.20 NM TO RW06		RW06	MAP	TF	FO	0.30	060.74	2.20	
RW06	MAP	1334 MSL		CA			060.74		
1334 MSL		IDEYA		DF	FO	1.00			3500

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW06

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3500 DIRECT IDEYA AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY 25 CHECKED

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
TULLAHOMA RGNL ARPT/WM NORTHERN FIELD	KTHA	RNAV (GPS) RWY 6	2	TULLAHOMA	TN

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. HOLD SW EXEGE, RT, 060.68 INBOUND, 3000 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 060.74 **FAF:** DACNA **DIST FAF TO MAP:** 4.95 **DIST FAF TO THLD:** 4.95

4. MIN ALT: EXEGE 3000, DACNA 2700, JAROL/2.20 NM TO RW06 1820*

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **250 HAT:** 0.66 **GS ANT:**

6. MIN GP INCPT: 2700 **GP ALT AT FAF :** DACNA 2700 **OM:** **MM:** **IM:**

7. GP ANGLE: 3.00 **34:1:** IS CLEAR **20:1:** IS CLEAR **TCH:** 40.5

8. MSA FROM: RW06 3400

PBN REQUIREMENTS NOTE:

RNP APCH

NOTES:

CHART NOTE: CIRCLING NA TO RWYS 9 AND 27.
CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C OR ABOVE 54°C.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT SYI VOR/DME ON V67 NORTHWEST BOUND.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
CHART VDP AT 1.11 NM TO RW06*
*LNAV ONLY
WAAS CHANNEL #99324
REFERENCE PATH ID: W06A
CHART FAS OBST: 1239 TREE 352115N/0861728W.
HOLD NE, RT, 240.91 INBOUND
LTP HAE: 301.9 M

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: **NA** ☐ STANDARD

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LPV DA	1334	3/4	250	1334	3/4	250	1334	3/4	250	1334	3/4	250			
LNAV/VNAV DA	1525	1 3/8	441	1525	1 3/8	441	1525	1 3/8	441	1525	1 3/8	441			
LNAV MDA	1500	1	416	1500	1	416	1500	1 1/8	416	1500	1 1/8	416			
CIRCLING	1540	1	456	1560	1	476	1580	1 1/2	496	1640	2	556			

QUALITY 35 CHECKED

CHANGES - REASONS

1. REMOVED BARO-VNAV NA CHART NOTE, VDP NA CHART NOTE, SECONDARY ALTIMETER CHART NOTE AND ADDED BACK-UP ALTIMETER AND BARO-VNAV NA AND VDP NA STATEMENTS TO BACK OF -9 - KTHA IS ON WMSCR/FOR RECORD KEEPING.
2. REMOVED: DME/DME RNP-0.3 NA - UPDATED TO CURRENT CRITERIA.
3. REMOVED 34:1 IS NOT CLEAR STATEMENT AND ADDED 34:1 IS CLEAR STATEMENT - 34:1 IS CLEAR.
4. ADDED 20:1 IS CLEAR STATEMENT - 20:1 IS CLEAR.
5. ADDED PBN REQUIREMENTS NOTE: RNP APCH - UPDATED TO CURRENT CRITERIA.
6. CHANGED LPV VIS FROM 7/8 SM TO 3/4 SM ALL CATS AND LNAV VIS FROM 1 SM TO 3/4 SM CATS A/B, 1 1/8 SM TO 1 SM CATS C/D. - NEW ODALS ADDED TO RWY 6 AND LIGHT CREDIT APPLIED.
7. ADDED CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV ALL CATS. - VISIBILITY MINS LOWERED AND LIGHT CREDIT APPLIED.
8. REMOVE CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON SYI VOR/DME AIRWAY RADIALS 120 CW 290. - NEW CRITERIA APPLIED.
9. ADDED CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT SYI VOR/DME ON V67 NORTHWEST BOUND. - NEW CRITERIA APPLIED.
10. CHANGED CIRCLING OBSTACLES. - UPDATED TO NEW CIRCLING CRITERIA.
11. CHANGED OBSTACLES FOR INTERMEDIATE, LNAV/VNAV, MISSED APPROACH LVL SRF, AND MSA SEGMENTS. - NEW EVALUATION COMPLETED.
12. LNAV/VNAV DA RAISED FROM 1390 TO 1525 AND LNAV/VNAV VIS FROM 1 SM TO 1 1/8 SM ALL CATS. - NEW CONTROLLING OBSTACLE.
13. CIRCLING CAT B MDA RAISED FROM 1540 TO 1560. - NEW CIRCLING CRITERIA APPLIED AND NEW CONTROLLING OBSTACLE.
14. CIRCLING CAT C MDA RAISED FROM 1540 TO 1580. - NEW CIRCLING CRITERIA APPLIED AND NEW CONTROLLING OBSTACLE.
15. CHANGED LNAV CONTROLLING OBSTACLE FROM 1339 AAO TO 1360 TOWER (47-023149), AND LNAV STEPDOWN CONTROLLING OBSTACLE FROM 1229 TREE TO 1239 TREE. - NEW CONTROLLING OBSTACLES IN NEW EVALUATION.
16. CRC REMAINDER CHANGED FROM B579A396 TO 64458991. - FPAP LAT/LONGS CHANGED.

10/29/2018: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 06/08/2018
1. CHANGED LNAV/VNAV VISIBILITY ALL CAT FROM 1 1/8 TO 1 3/8, CHANGED LNAV CAT A/B VISIBILITY FROM 3/4 TO 1 AND CAT C/D FROM 1 TO 1 1/8 - PER FLT CK, ODALS FAILED FIRST LIGHT (FURTHEST FROM THE AIRPORT) OBSTRUCTED BY TREES.
2. CHANGED NOTE "INOPERATIVE TABLE DOES NOTE APPLY TO LPV ALL CATS" TO "INOPERATIVE TABLE DOES NOT APPLY" - NOTE APPLIES TO ALL LINES OF MINIMA.
3. DELETED NOTE "FOR INOPERATIVE ALS, INCREASE LNAV/VNAV CAT C/D VISIBILITY TO 1 3/8 SM" - VISIBILITIES INCREASED TO NO LIGHT MINIMA.

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZME, AMGR

FLIGHT CHECKED BY		OFFICE	DATE
JAMES WILLIAM HERRINGTON	*Digitally signed by* ***ROBERT G HAMILTON*** Oct 29, 2018	FIOG	10/25/2018

DEVELOPED BY		OFFICE	DATE
LONNIE EVERHART (ANDRE TUCKER)	*Digitally signed by* ***ROBERT G HAMILTON*** Oct 29, 2018	AJV-5400	06/08/2018

APPROVED BY		OFFICE	DATE	TITLE
LONNIE EVERHART	*Digitally signed by* ***ROBERT G HAMILTON*** Oct 29, 2018	AJV-5400		MANAGER

QUALITY 35 CHECKED

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
TULLAHOMA RGNL ARPT/WM NORTHERN FIELD	KTHA	RNAV (GPS) RWY 6	2	TULLAHOMA	TN

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KTHA
RUNWAY	RW06
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W06A
LTP/FTP LATITUDE	352239.8355N
LTP/FTP LONGITUDE	0861520.6655W
LTP/FTP ELLIPSOIDAL HEIGHT	+03019
FPAP LATITUDE	352327.3920N
FPAP LONGITUDE	0861348.4605W
THRESHOLD CROSSING HEIGHT (TCH)	00040.5
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	64458991

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+03304
FPAP ORTHOMETRIC HEIGHT	+03304

QUALITY 25 CHECKED

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
TITLE 14 CFR PART 97.37

Bearings, headings, courses, tracks and radials are magnetic. Elevations 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
BORGER, TX	HUTCHINSON COUNTY	3 JANUARY 2019	2

TAKEOFF MINIMUMS:
RWY 3, 35, STANDARD
RWY 17, 300- 1 1/2 OR STANDARD WITH A MINIMUM CLIMB OF 305 FEET PER NM TO 3400.
RWY 21, 200- 1 3/4 OR STANDARD WITH A MINIMUM CLIMB OF 210 FEET PER NM TO 3400.

TEXTUAL DEPARTURE PROCEDURES:

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:
NOTE: RWY 17, POLE 3 FT FROM DER, 487 FT RIGHT OF CENTERLINE, 3083 FT MSL.
VEGETATION 49 FT FROM DER, 283 FT LEFT OF CENTERLINE, 3057 FT MSL.
BUILDING, VEHICLE, SIGN BEGINNING 123 FT FROM DER, 274 FT RIGHT OF CENTERLINE, UP TO 31 FT AGL/3087 FT MSL.
POLE, BUILDING, TREE BEGINNING 544 FT FROM DER, 140 FT RIGHT OF CENTERLINE, UP TO 38 FT AGL/3097 FT MSL.
TREE, POLE, SIGN BEGINNING 967 FT FROM DER, 234 FT RIGHT OF CENTERLINE, UP TO 3098 FT MSL.
TREE 1136 FT FROM DER, 89 FT LEFT OF CENTERLINE, 3084 FT MSL.
TREE, POLE BEGINNING 1167 FT FROM DER, 140 FT RIGHT OF CENTERLINE, UP TO 3102 FT MSL.
POLE 1262 FT FROM DER, 703 FT LEFT OF CENTERLINE, 3090 FT MSL.
POLE, TREE BEGINNING 1310 FT FROM DER, 319 FT LEFT OF CENTERLINE, UP TO 3093 FT MSL.
TREE, POLE BEGINNING 1314 FT FROM DER, 222 FT RIGHT OF CENTERLINE, UP TO 3107 FT MSL.
POLE 1425 FT FROM DER, 464 FT LEFT OF CENTERLINE, 3095 FT MSL.
POLE, TREE BEGINNING 1427 FT FROM DER, 15 FT LEFT OF CENTERLINE, UP TO 42 FT AGL/3105 FT MSL.
TREE 2146 FT FROM DER, 805 FT RIGHT OF CENTERLINE, 3109 FT MSL.
TREE 2355 FT FROM DER, 57 FT LEFT OF CENTERLINE, 3117 FT MSL.
TOWER, ANTENNA BEGINNING 5270 FT FROM DER, 1011 FT LEFT OF CENTERLINE, UP TO 154 FT AGL/3255 FT MSL.
TOWER 1.2 NM FROM DER, 1188 FT LEFT OF CENTERLINE, 150 FT AGL/3264 FT MSL.

NOTE: RWY 21, WIND INDICATOR 54 FT FROM DER, 496 FT LEFT OF CENTERLINE, 3046 FT MSL.
FENCE, VEGETATION, POLE BEGINNING 81 FT FROM DER, 101 FT RIGHT OF CENTERLINE, UP TO 3052 FT MSL.
TREE, VEGETATION, TERRAIN BEGINNING 116 FT FROM DER, 54 FT LEFT OF CENTERLINE, UP TO 30 FT AGL/3061 FT MSL.
STACK 1.4 NM FROM DER, 2487 FT LEFT OF CENTERLINE, 221 FT AGL/3255 FT MSL.

NOTE: RWY 35, VEGETATION 18 FT FROM DER, 402 FT RIGHT OF CENTERLINE, 7 FT AGL/3003 FT MSL.
TREE 81 FT FROM DER, 171 FT LEFT OF CENTERLINE, 10 FT AGL/3001 FT MSL.
AG EQUIP 238 FT FROM DER, 406 FT RIGHT OF CENTERLINE, 24 FT AGL/3011 FT MSL.

CONTROLLING OBSTACLES:
RWY 17: 3255 FT MSL TOWER 354042.00N-1012320.00W (CG/CGTA) 3264 FT MSL TOWER 354017.31N-1012318.22W (CEILING/VIS)
RWY 21: 3255 FT MSL STACK 354025.00N-1012437.00W

REMARKS:

FLIGHT INSPECTED BY:	*Digitally signed by*	**OFFICE SYMBOL:**	**DATE:**
BRYAN VEIT	***ROBERT G HAMILTON***	FICO	10/25/18
	Oct 29, 2018		
DEVELOPED BY:	*Digitally signed by*	**OFFICE SYMBOL:**	**DATE:**
HEIDI SNIDER	***HEIDI SNIDER***	AJV-5423	08/16/2018
	Sep 06, 2018		
APPROVED BY:	*Digitally signed by*	**OFFICE SYMBOL:**	**DATE:**
JULIE MORGAN	***ROBERT G HAMILTON***	AJV-5420	
	Oct 29, 2018		

REQUIRED EFFECTIVE DATE:
ROUTIINE

QUALITY 3 CHECKED

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
TITLE 14 CFR PART 97.37

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CITY, STATE	AIRPORT	EFFECTIVE DATE	AMDT NO
BORGER, TX	HUTCHINSON COUNTY	3 JANUARY 2019	2

COORDINATED WITH:

A4A	ALPA	AOPA	APA	HAI	NBAA
☐	☒	☒	☐	☐	☒

OTHER:
ZAB, AMA ATCT, APT MGR

CHANGES - REASONS:
1. ADDED RWY 21 TAKEOFF MINIMUMS - OBSTACLE EVALUATION, NEW SURVEY DATA NFDD 02/26/2015..
2. UPDATED RWY 17 TAKEOFF MINIMUMS FROM 200-11/2 OR STANDARD WITH A MINIMUM CLIMB OF 421 FEET PER NM TO 3400. TO 300- 1 1/2 OR STANDARD WITH A MINIMUM CLIMB OF 305 FEET PER NM TO 3400. - RECALCULATED CEILING/VIS AND CG FROM OBSTACLE EVALUATION WITH UPDATED SURVEY DATA.
3. UPDATED TAKEOFF OBSTACLE NOTES - UPDATED OBSTACLE DATA FROM SURVEY NFDD 02/26/2015.
4. CONTROLLING OBSTACLES, ADDED RWY 21; IDENTIFIED CONTROLLING OBSTACLES FOR RWY 17 - IAW 8260.46F APPENDIX D.

QUALITY 3 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.29

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

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
CORPUS CHRISTI INTL	KCRP	ILS OR LOC RWY 36	14	CORPUS CHRISTI	TX

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
46	40	ILS OR LOC RWY 36	13B	10/12/2017	4E	2015

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
I-OYC		3 JANUARY 2019	ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
CRP VORTAC		HADON INT/I-CRP 13.06 DME					178.17	20.38	2000
SOLON INT	IAF	HADON INT/I-OYC 13.06 DME	NOPT				310.14 & 355.11	4.69 (I-OYC) & 4.50 (I-OYC)	2000
JETTY INT	IAF	HADON INT/I-OYC 13.06 DME	NOPT				055.09 & 355.11	3.65 (I-OYC) & 2.27 (I-OYC)	2000
HADON INT/12.77 DME	IF/IAF	OSSOE INT/I-OYC 7.16 DME/RADAR					355.11	5.90 (I-OYC)	2000

MISSED APPROACH

MAP:

ILS: DA
LOC: 5.56 NM AFTER OSSOE INT/I-OYC 7.16 DME/RADAR OR AT TENUH/1.60 DME FIX

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 700 THEN CLIMBING LEFT TURN TO 2000 ON HEADING 338 AND ON CRP VORTAC R-287 TO ATHIS INT/CRP 23.26 DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. HOLD S HADON, RT, 355.11 INBOUND, 6000 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 355.11 **FAF:** OSSOE INT/I-OYC 7.16 DME/RADAR **DIST FAF TO MAP:** 5.56 **DIST FAF TO THLD:** 5.99

4. MIN ALT: HADON INT/I-CRP 13.06 DME 2000, OSSOE INT/I-OYC 7.16 DME/RADAR 2000, ALKOJ INT/I-OYC 3.18 DME 720*

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **GS ANT:** 1005

6. MIN GS INCPT: 2000 **GS ALT AT FAF :** OSSOE INT/I-OYC 7.16 DME/RADAR 2000 **OM:** **MM:** **IM:**

7. GP ANGLE: 3.00 **34:1:** **20:1:** **TCH:** 53.2

8. MSA FROM: CRP VORTAC 2200

QUALITY 10 CHECKED

EQUIPMENT REQUIREMENTS NOTES:

NOTES:

CHART PROFILE NOTE: ILS UNUSABLE INSIDE DA. LOC UNUSABLE WITHIN 1.6 DME.
*LOC ONLY
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-ILS 36 CAT E VISIBILITY TO RVR 4000 AND S-LOC 36 CAT C/D/E VISIBILITY TO RVR 4500

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON
CHART NOLF CABANISS AIRPORT.
CHART CUDDIHY (PRIVATE) AIRPORT.
CHART FAS OBST: 90 TOWER 274330N/0972938W.
HOLD W, RT, 106.98 INBOUND

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ ILS: STANDARD; LOC: STANDARD - CAT C 800-2 1/4, CAT D 800-2 1/2, CAT E 800-2 3/4

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
S-ILS 36	240	2400	200	240	2400	200	240	2400	200	240	2400	200	240	2400	200
S-LOC 36	340	2400	300	340	2400	300	340	2400	300	340	2400	300	340	2400	300
CIRCLING	500	1	454	580	1	534	820	2 1/4	774	820	2 1/2	774	820	2 3/4	774

CHANGES - REASONS

1. ADD HOLDING AT HADON COURSE REVERSAL - ALLOWS FOR FEEDER SEGMENT FROM CRP VORTAC.
2. ADD A FEEDER ROUTE FROM CRP VORTAC TO THE INTERMEDIATE FIX HADON - PER ATC REQUEST.
3. UPDATED CIRCLING CAT A HAA FROM 456 TO 454, CAT B HAA FROM 536 TO 534, CAT C/D/E HAA FROM 776 TO 774 - DUE TO AIRPORT ELEVATION CHANGED FROM 44 TO 46.1
4. DELETED PROCEDURE ENTRY RESTRICTION NOTE FOR ARRIVAL AT SOLON AND JETTY - THE ADDITION OF THE FEEDER FROM CRP VORTAC ELIMINATES THE NEED FOR THE RESTRICTIONS.
5. DELETED NOTE: "**RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA" - THE ILS HAS RESTRICTIONS; RVR OF 1800 NOT AUTHORIZED UNLESS APPROVED BY AFS-400.

QUALITY 10 CHECKED

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZHU ARTCC, CRP APP CON, CRP ATCT, AMGR, CENTRAL FPO., ATA

FLIGHT CHECKED BY	*Digitally signed by* ***DAVID DANNER*** Oct 17, 2018		**OFFICE**	**DATE**	
ZACK SMYER			FICO	10/11/18	
DEVELOPED BY		*Digitally signed by* ***DAVID DANNER*** Oct 17, 2018	**OFFICE**	**DATE**	
LONNIE EVERHART (ANA VEGA)			AJV-5400	09/05/2018	
APPROVED BY	*Digitally signed by* ***DAVID DANNER*** Oct 17, 2018		**OFFICE**	**DATE**	**TITLE**
LONNIE EVERHART			AJV-5400		

QUALITY 10 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.33

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

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
CORPUS CHRISTI INTL	KCRP	RNAV (GPS) Y RWY 36	3	CORPUS CHRISTI	TX

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
46	40	RNAV (GPS) Y RWY 36	2B	10/12/2017	4E	2015

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
RNAV		3 JANUARY 2019	ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
CRP VORTAC		HADON		TF	FO	2.00	183.17	20.38	2000
SOLON	IAF	HADON	NOPT	TF	FB	1.00	332.15	8.49	2000
HADON	IF/IAF	OSSOE		TF	FB	1.00	355.11	5.90	2000
OSSOE	FAF	COKNU/1.40 NM TO RW36		TF	FB	0.30	355.11	4.59	
COKNU/1.40 NM TO RW36		RW36	MAP	TF	FO	0.30	355.11	1.40	
RW36	MAP	240 MSL		CA		1.00	355.11		
240 MSL		FEKEL		DF	FB	1.00			
FEKEL		ATHIS		TF	FO	1.00	304.19	23.06	2000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW36

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2000 DIRECT FEKEL AND ON TRACK 304.19 TO ATHIS AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY 10 CHECKED

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. HOLD S HADON, RT, 355.11 INBOUND, 2000 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 355.11 **FAF:** OSSOE **DIST FAF TO MAP:** 5.99 **DIST FAF TO THLD:** 5.99

4. MIN ALT: HADON 2000, OSSOE 2000, COKNU/1.40 NM TO RW36 520*

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **200 HAT:** 0.46 **GS ANT:**

6. MIN GP INCPT: 2000 **GP ALT AT FAF :** OSSOE 2000 **OM:** **MM:** **IM:**

7. GP ANGLE: 3.00 **34:1:** IS CLEAR **20:1:** IS CLEAR **TCH:** 53.2

8. MSA FROM: RW35 2200

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -1C OR ABOVE 54C.
*LNAV ONLY
CHART NOTE: FOR INOPERATIVE ALS, INCREASE LPV CAT E VISIBILITY TO RVR 4000, LNAV/VNAV ALL CATS VISIBILITY TO RVR 4500 AND LNAV CAT E VISIBILITY TO RVR 6000.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT CPR VORTAC ON V70-407 NOTHBOUND.
CHART NOTE: ** RVR 1800 AUTHORIZED WITH USE OF FD OR AP OR HUD TO DA.

ADDITIONAL FLIGHT DATA:

CHART: CABANISS FIELD NOLF
CHART: CUDDIHY FIELD (PRIVATE)
CHART CIRCLING ICON.
WAAS CHANNEL #69617
REFERENCE PATH ID: W36A
CHART FAS OBST: 184 CTRL TWR 274539N/0973011W.
HOLD W, RT, 110.00 INBOUND
LTP HAE: -14.5 M

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: **NA** ☐ STANDARD - CAT C 800-2 1/4, CAT D 800-2 1/2, CAT E 800-2 3/4

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LPV DA**	240	2400	200	240	2400	200	240	2400	200	240	2400	200	240	2400	200
LNAV/VNAV DA	356	2400	316	356	2400	316	356	2400	316	356	2400	316	356	2400	316
LNAV MDA	440	2400	400	440	2400	400	440	3500	400	440	3500	400	440	3500	400
CIRCLING	500	1	454	580	1	534	820	2 1/4	774	820	2 1/2	774	820	2 3/4	774

QUALITY 10 CHECKED

CHANGES - REASONS

1. REMOVED DME/DME RNP - 0.3 NA - 8260.19H CHAPTER 8.
2. ADDED RNP APCH TO PBN REQUIRED NOTES - 8260.19H CHAPTER 8.
3. ADD HOLD-IN-LIEU AT HADON TO BE RIGHT TURNS TO THE SOUTH OF THE FIX TO PROVIDE COURSE REVERSAL - ALLOWS FOR FEEDER SEGMENT FROM CRP VORTAC.
4. ADD A FEEDER ROUTE FROM THE NORTH OF CRP VORTAC TO THE INTERMEDIATE FIX HADON - PER ATC REQUEST.
5. UPDATED LPV DA FROM 239 TO 240 - INCORPORATED NOTAM 4/0234.
6. UPDATED LNAV/VNAV FROM 355 TO 356 - INCORPORATED NOTAM 4/0234.
7. UPDATED CIRCLING CAT A HAA FROM 456 TO 454, CAT B HAA FROM 536 TO 534, CAT C/D/E HAA FROM 776 TO 774 - DUE TO AIRPORT ELEVATION CHANGED FROM 44 TO 46.1.
8. CHANGED PROCEDURE ENTRY RESTRICTION NOTE FROM "ARRIVALS AT SOLON ON V13-20-163 SOUTHBOUND" TO "ARRIVALS AT CPR VORTAC ON V70-407 NORTHBOUND" - THE ADDITION OF THE FEEDER FROM CRP VORTAC CHANGES THE PROCEDURE ENTRY RESTRICTION NOTES.
9. CHANGED INOPERATIVE NOTE FROM "FOR INOPERATIVE MALSR, INCREASE LPV CAT E VISIBILITY TO RVR 4000, LNAV/VNAV ALL CATS TO TO RVR 5500, LNAV CAT C/D/E TO RVR 6000" TO "FOR INOPERATIVE ALS, INCREASE LPV CAT E VISIBILITY TO RVR 4000, LNAV/VNAV ALL CATS VISIBILITY TO RVR 4500 AND LNAV CAT E VISIBILITY TO RVR 6000" - PER VISCHECK TOOL.
10. CHANGED LNAV CATS C/D/E VISIBILITY FROM RVR 4000 TO RVR 3500 - PER VISCHECK TOOL.

QUALITY 10 CHECKED

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZHU, CRP APP CON, CRP ATCT, AMGR., ATA

FLIGHT CHECKED BY		**OFFICE**	**DATE**	
ZACK SMYER	*Digitally signed by* ***DAVID DANNER*** Oct 17, 2018	FICO	10/11/18	
DEVELOPED BY		**OFFICE**	**DATE**	
LONNIE EVERHART (ANA VEGA)	*Digitally signed by* ***DAVID DANNER*** Oct 17, 2018	AJV-5400	07/18/2018	
APPROVED BY		**OFFICE**	**DATE**	**TITLE**
LONNIE EVERHART	*Digitally signed by* ***DAVID DANNER*** Oct 17, 2018	AJV-5400		

QUALITY 10 CHECKED

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KCRP
RUNWAY	RW36
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W36A
LTP/FTP LATITUDE	274552.4755N
LTP/FTP LONGITUDE	0972945.8165W
LTP/FTP ELLIPSOIDAL HEIGHT	-00145
FPAP LATITUDE	274721.8100N
FPAP LONGITUDE	0972947.3800W
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	0896
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	C4D27B2E

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K4
LTP ORTHOMETRIC HEIGHT	+00119
FPAP ORTHOMETRIC HEIGHT	+00119

QUALITY 10 CHECKED

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
TITLE 14 CFR PART 97.37

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL Altitudes are minimum altitudes unless otherwise indicated
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CITY, STATE	AIRPORT	EFFECTIVE DATE	AMDT NO
BEAVER, UT	BEAVER MUNI	3 JANUARY 2019	ORIG-A

TAKEOFF MINIMUMS:
RWY 7, 25, NA - OBSTACLES
RWY 13,31, 2600 - 2 3/4 FOR VCOA.

TEXTUAL DEPARTURE PROCEDURES:

VISUAL CLIMB OVER AIRPORT:
RWY 13,31, OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS BEAVER MUNI AT OR ABOVE 8300, THEN CLIMB TO 10100 ON MLF VORTAC R-102 TO MLF VORTAC. DO NOT EXCEED 210 KIAS UNTIL ESTABLISHED ON MLF VORTAC R-102.

TAKEOFF OBSTACLE NOTES:
NOTE: RWY 13, VEGETATION 429 FT FROM DER, 46 FT RIGHT OF CENTERLINE, 5877 FT MSL. TREE 642 FT FROM DER, 49 FT RIGHT OF CENTERLINE, 5886 FT MSL. TERRAIN 1344 FT FROM DER, 802 FT RIGHT OF CENTERLINE, 5899 FT MSL. TERRAIN 1725 FT FROM DER, 938 FT LEFT OF CENTERLINE, 5909 FT MSL. TERRAIN 1729 FT FROM DER, 762 FT RIGHT OF CENTERLINE, 5913 FT MSL. TERRAIN BEGINNING 1854 FT FROM DER, 7 FT LEFT OF CENTERLINE, UP TO 5913 FT MSL. TERRAIN 1857 FT FROM DER, 559 FT RIGHT OF CENTERLINE, 5916 FT MSL. TERRAIN BEGINNING 1981 FT FROM DER, 209 FT LEFT OF CENTERLINE, UP TO 5922 FT MSL. TERRAIN BEGINNING 1984 FT FROM DER, 357 FT RIGHT OF CENTERLINE, UP TO 5919 FT MSL. TERRAIN BEGINNING 2109 FT FROM DER, 412 FT LEFT OF CENTERLINE, UP TO 5929 FT MSL. TERRAIN BEGINNING 2112 FT FROM DER, 154 FT RIGHT OF CENTERLINE, UP TO 5926 FT MSL. TERRAIN 2240 FT FROM DER, 47 FT LEFT OF CENTERLINE, 5932 FT MSL. TERRAIN 2366 FT FROM DER, 817 FT LEFT OF CENTERLINE, 5936 FT MSL. TERRAIN 2367 FT FROM DER, 250 FT LEFT OF CENTERLINE, 5939 FT MSL. TERRAIN BEGINNING 2369 FT FROM DER, 316 FT RIGHT OF CENTERLINE, UP TO 5932 FT MSL.
TERRAIN BEGINNING 2494 FT FROM DER, 452 FT LEFT OF CENTERLINE, UP TO 5942 FT MSL. TERRAIN BEGINNING 2496 FT FROM DER, 114 FT RIGHT OF CENTERLINE, UP TO 5939 FT MSL. TERRAIN BEGINNING 2623 FT FROM DER, 88 FT LEFT OF CENTERLINE, UP TO 5949 FT MSL. TERRAIN BEGINNING 2750 FT FROM DER, 291 FT LEFT OF CENTERLINE, UP TO 5955 FT MSL. TERRAIN BEGINNING 2753 FT FROM DER, 275 FT RIGHT OF CENTERLINE, UP TO 5942 FT MSL. TERRAIN BEGINNING 2879 FT FROM DER, 493 FT LEFT OF CENTERLINE, UP TO 5962 FT MSL. TERRAIN BEGINNING 2881 FT FROM DER, 73 FT RIGHT OF CENTERLINE, UP TO 5949 FT MSL. TERRAIN BEGINNING 3007 FT FROM DER, 129 FT LEFT OF CENTERLINE, UP TO 5965 FT MSL. TERRAIN BEGINNING 3135 FT FROM DER, 169 FT LEFT OF CENTERLINE, UP TO 5968 FT MSL. TERRAIN BEGINNING 3137 FT FROM DER, 235 FT RIGHT OF CENTERLINE, UP TO 5952 FT MSL. TERRAIN BEGINNING 3265 FT FROM DER, 32 FT RIGHT OF CENTERLINE, UP TO 5955 FT MSL. TERRAIN 3268 FT FROM DER, 1166 FT RIGHT OF CENTERLINE, 5959 FT MSL. TERRAIN BEGINNING 3394 FT FROM DER, 396 FT RIGHT OF CENTERLINE, UP TO 5962 FT MSL. TERRAIN BEGINNING 3522 FT FROM DER, 194 FT RIGHT OF CENTERLINE, UP TO 5965 FT MSL. TERRAIN BEGINNING 3650 FT FROM DER, 8 FT LEFT OF CENTERLINE, UP TO 5972 FT MSL. TERRAIN BEGINNING 3651 FT FROM DER, 558 FT RIGHT OF CENTERLINE, UP TO 5968 FT MSL. TERRAIN BEGINNING 3779 FT FROM DER, 356 FT RIGHT OF CENTERLINE, UP TO 5975 FT MSL. TERRAIN BEGINNING 3905 FT FROM DER, 413 FT LEFT OF CENTERLINE, UP TO 5975 FT MSL. TERRAIN BEGINNING 3906 FT FROM DER, 153 FT RIGHT OF CENTERLINE, UP TO 5978 FT MSL. TERRAIN 4033 FT FROM DER, 615 FT LEFT OF CENTERLINE, 5978 FT MSL. TERRAIN BEGINNING 4034 FT FROM DER, 48 FT LEFT OF CENTERLINE, UP TO 5981 FT MSL. TERRAIN BEGINNING 4035 FT FROM DER, 518 FT RIGHT OF CENTERLINE, UP TO 5981 FT MSL. TERRAIN BEGINNING 4162 FT FROM DER, 251 FT LEFT OF CENTERLINE, UP TO 5985 FT MSL. TERRAIN 4163 FT FROM DER, 315 FT RIGHT OF CENTERLINE, 5985 FT MSL. TERRAIN 4164 FT FROM DER, 882 FT RIGHT OF CENTERLINE, 5988 FT MSL. TERRAIN 4166 FT FROM DER, 1449 FT RIGHT OF CENTERLINE, 6001 FT MSL. TREE, TERRAIN BEGINNING 4272 FT FROM DER, 113 FT RIGHT OF CENTERLINE, UP TO 6024 FT MSL. TERRAIN 4417 FT FROM DER, 656 FT LEFT OF CENTERLINE, 5988 FT MSL. TERRAIN BEGINNING 4418 FT FROM DER, 89 FT LEFT OF CENTERLINE, UP TO 5991 FT MSL. TERRAIN 4422 FT FROM DER, 1611 FT RIGHT OF CENTERLINE, 6037 FT MSL. TERRAIN BEGINNING 4454 FT FROM DER, 274 FT RIGHT OF CENTERLINE, UP TO 6039 FT MSL. TERRAIN, TREE BEGINNING 4550 FT FROM DER, 72 FT RIGHT OF CENTERLINE, UP TO 6050 FT MSL. TREE, TERRAIN BEGINNING 4554 FT FROM DER, 130 FT LEFT OF CENTERLINE, UP TO 6016 FT MSL. TERRAIN BEGINNING 4678 FT FROM DER, 436 FT RIGHT OF CENTERLINE, UP TO 6057 FT MSL. TERRAIN 4806 FT FROM DER, 1003 FT RIGHT OF CENTERLINE, 6060 FT MSL. TERRAIN BEGINNING 4807 FT FROM DER, 234 FT RIGHT OF CENTERLINE, UP TO 6083 FT MSL. TREE, TERRAIN BEGINNING 4892 FT FROM DER, 332 FT LEFT OF CENTERLINE, UP TO 6024 FT MSL. TERRAIN, TREE BEGINNING 4935 FT FROM DER, 31 FT RIGHT OF CENTERLINE, UP TO 6093 FT MSL. TREE, TERRAIN BEGINNING 5122 FT FROM DER, 170 FT LEFT OF CENTERLINE, UP TO 6026 FT MSL. TERRAIN, TREE BEGINNING 5191 FT FROM DER, 152 FT RIGHT OF CENTERLINE, UP TO 6100 FT MSL. TERRAIN, TREE BEGINNING 5444 FT FROM DER, 9 FT LEFT OF CENTERLINE, UP TO 6037 FT MSL. TERRAIN BEGINNING 5828 FT FROM DER, 49 FT LEFT OF CENTERLINE, UP TO 6050 FT MSL. TERRAIN BEGINNING 5961 FT FROM DER, 111 FT RIGHT OF CENTERLINE, UP TO 6109 FT MSL. TERRAIN BEGINNING 1 NM FROM DER, 273 FT RIGHT OF CENTERLINE, UP TO 6115 FT MSL. TERRAIN BEGINNING 1 NM FROM DER, 71 FT RIGHT OF CENTERLINE, UP TO 6116 FT MSL. TREE, TERRAIN BEGINNING 1 NM FROM DER, 435 FT RIGHT OF CENTERLINE, UP TO 6117 FT MSL. TERRAIN BEGINNING 1 NM FROM DER, 232 FT RIGHT OF CENTERLINE, UP TO 6126 FT MSL. TREE, TERRAIN BEGINNING 1.1 NM FROM DER, 30 FT RIGHT OF CENTERLINE, UP TO 6142 FT MSL. TERRAIN, TREE BEGINNING 1.1 NM FROM DER, 192 FT RIGHT OF CENTERLINE, UP TO 6146 FT MSL. TERRAIN BEGINNING 1.1 NM FROM DER, 10 FT LEFT OF CENTERLINE, UP TO 6070 FT MSL. TERRAIN

QUALITY 4 CHECKED

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CITY, STATE	AIRPORT	EFFECTIVE DATE	AMDT NO
BEAVER, UT	BEAVER MUNI	3 JANUARY 2019	ORIG-A

BEGINNING 1.1 NM FROM DER, 151 FT RIGHT OF CENTERLINE, UP TO 6159 FT MSL. TERRAIN, TREE BEGINNING 1.2 NM FROM DER, 110 FT RIGHT OF CENTERLINE, UP TO 6182 FT MSL. TERRAIN BEGINNING 1.2 NM FROM DER, 51 FT LEFT OF CENTERLINE, UP TO 6090 FT MSL. TERRAIN, TREE BEGINNING 1.2 NM FROM DER, 272 FT RIGHT OF CENTERLINE, UP TO 6201 FT MSL. TERRAIN BEGINNING 1.3 NM FROM DER, 91 FT LEFT OF CENTERLINE, UP TO 6109 FT MSL. TERRAIN, TREE BEGINNING 1.3 NM FROM DER, 69 FT RIGHT OF CENTERLINE, UP TO 6214 FT MSL. TERRAIN BEGINNING 1.3 NM FROM DER, 132 FT LEFT OF CENTERLINE, UP TO 6119 FT MSL. TERRAIN, TREE BEGINNING 1.3 NM FROM DER, 29 FT RIGHT OF CENTERLINE, UP TO 6237 FT MSL. TERRAIN BEGINNING 1.4 NM FROM DER, 190 FT RIGHT OF CENTERLINE, UP TO 6257 FT MSL. TERRAIN BEGINNING 1.4 NM FROM DER, 11 FT LEFT OF CENTERLINE, UP TO 6126 FT MSL. TERRAIN BEGINNING 1.4 NM FROM DER, 150 FT RIGHT OF CENTERLINE, UP TO 6264 FT MSL. TERRAIN BEGINNING 1.5 NM FROM DER, 109 FT RIGHT OF CENTERLINE, UP TO 6267 FT MSL. TERRAIN BEGINNING 1.5 NM FROM DER, 52 FT LEFT OF CENTERLINE, UP TO 6139 FT MSL. TERRAIN BEGINNING 1.5 NM FROM DER, 271 FT RIGHT OF CENTERLINE, UP TO 6277 FT MSL. TERRAIN BEGINNING 1.6 NM FROM DER, 93 FT LEFT OF CENTERLINE, UP TO 6159 FT MSL. TERRAIN BEGINNING 1.6 NM FROM DER, 295 FT LEFT OF CENTERLINE, UP TO 6195 FT MSL. TERRAIN BEGINNING 1.6 NM FROM DER, 27 FT RIGHT OF CENTERLINE, UP TO 6280 FT MSL. TERRAIN BEGINNING 1.6 NM FROM DER, 134 FT LEFT OF CENTERLINE, UP TO 6211 FT MSL. TERRAIN BEGINNING 1.6 NM FROM DER, 2037 FT LEFT OF CENTERLINE, UP TO 6254 FT MSL. TERRAIN BEGINNING 1.7 NM FROM DER, 174 FT LEFT OF CENTERLINE, UP TO 6270 FT MSL. TERRAIN BEGINNING 1.7 NM FROM DER, 13 FT LEFT OF CENTERLINE, UP TO 6296 FT MSL. TERRAIN BEGINNING 1.7 NM FROM DER, 148 FT RIGHT OF CENTERLINE, UP TO 6296 FT MSL. TERRAIN BEGINNING 1.8 NM FROM DER, 215 FT LEFT OF CENTERLINE, UP TO 6313 FT MSL. TERRAIN BEGINNING 1.8 NM FROM DER, 1552 FT LEFT OF CENTERLINE, UP TO 6336 FT MSL. TERRAIN BEGINNING 1.8 NM FROM DER, 1754 FT LEFT OF CENTERLINE, UP TO 6359 FT MSL. TERRAIN BEGINNING 1.8 NM FROM DER, 310 FT RIGHT OF CENTERLINE, UP TO 6333 FT MSL. TERRAIN BEGINNING 1.8 NM FROM DER, 1390 FT LEFT OF CENTERLINE, UP TO 6375 FT MSL. TERRAIN BEGINNING 1.8 NM FROM DER, 1593 FT LEFT OF CENTERLINE, UP TO 6395 FT MSL. TERRAIN BEGINNING 1.8 NM FROM DER, 835 FT RIGHT OF CENTERLINE, UP TO 6359 FT MSL. TERRAIN BEGINNING 1.9 NM FROM DER, 1795 FT LEFT OF CENTERLINE, UP TO 6408 FT MSL. TERRAIN BEGINNING 1.9 NM FROM DER, 1269 FT LEFT OF CENTERLINE, UP TO 6421 FT MSL. TERRAIN BEGINNING 2 NM FROM DER, 1310 FT LEFT OF CENTERLINE, UP TO 6441 FT MSL. TERRAIN BEGINNING 2 NM FROM DER, 664 FT LEFT OF CENTERLINE, UP TO 6447 FT MSL.

CONTROLLING OBSTACLES:
RWY 13, 31: 12354 MSL AAO 382206.00N/1122221.00W

VCOA RWYS 13, 31: 7940 MSL AAO 380954.00N/1123948.00W

REMARKS:

QUALITY 4 CHECKED

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
TAKEOFF MINIMUMS AND OBSTACLE DEPARTURE PROCEDURES (ODP)
TITLE 14 CFR PART 97.37

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL Altitudes are minimum altitudes unless otherwise indicated
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CITY, STATE	AIRPORT	EFFECTIVE DATE	AMDT NO
BEAVER, UT	BEAVER MUNI	3 JANUARY 2019	ORIG-A

FLIGHT INSPECTED BY: **OFFICE SYMBOL:** **DATE:**

FLIGHT INSPECTION REVIEW NOT REQUIRED - PROCESSED IAW FLIGHT INSPECTION TEAM (AJW-333) MEMO, MAY 30, 2017.

DEVELOPED BY:
COLTON CROWDER

Digitally signed by
COLTON CROWDER
Oct 15, 2018

Digitally signed by
DONALD H LANIER
Oct 15, 2018

OFFICE SYMBOL: AJV-5431

DATE: 08/01/2018

APPROVED BY:
PAT MULQUEEN

Digitally signed by
DONALD H LANIER
Oct 15, 2018

OFFICE SYMBOL: AJV-5430

DATE:

REQUIRED EFFECTIVE DATE:
ROUTINE

COORDINATED WITH:

A4A	ALPA	AOPA	APA	HAI	NBAA
☐	☐	☒	☐	☐	☒

OTHER:

CHANGES - REASONS:
1. DEPARTURE PROCEDURE MOVED TO VCOA BLOCK AND CHANGED FROM "CLIMB IN VISUAL CONDITIONS TO CROSS BEAVER MUNICIPAL AIRPORT NORTHWEST BOUND AT OR ABOVE 8300 THEN CLIMB TO 10100 VIA MLF VORTAC R-102 TO MLF VORTAC" TO "OBTAIN ATC APPROVAL FOR VCOA WHEN REQUESTING IFR CLEARANCE. CLIMB IN VISUAL CONDITIONS TO CROSS BEAVER MUNI AT OR ABOVE 8300, THEN CLIMB TO 10100 ON MLF VORTAC R-102 TO MLF VORTAC." - VERBIAGE CHANGED PER CRITERIA.
2. ADDED TAKEOFF OBSTACLE NOTES FOR RUNWAY 13 - PER CRITERIA; RWY 31 IS CLEAR.
3. TAKEOFF MINIMUMS CHANGED FROM "RWY 13,31, 2600 - 2 3/4 FOR CLIMB IN VISUAL CONDITIONS" TO "RWY 13,31, 2600 - 2 3/4 FOR VCOA." - CRITERIA CHANGED.

PDF EDIT: ADDED TO SIGNATURE BLOCK DUE TO PDF FORM LIMITATIONS: "FLIGHT INSPECTION REVIEW NOT REQUIRED - PROCESSED IAW FLIGHT INSPECTION TEAM (AJW-333) MEMO, MAY 30, 2017."

10/15/18: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 09/11/18.
1. CHANGED STATE FROM "UTAH" TO "UT" IN HEADER ON ALL PAGES.

QUALITY 4 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.33

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Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or feet RVR.

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
STAFFORD RGNL	KRMN	RNAV (GPS) RWY 33	1A	STAFFORD	VA

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
211	195	RNAV (GPS) RWY 33	1	09/30/2004	10W	2000

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
RNAV		3 JANUARY 2019	ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
ZUNAR		GRUBY		TF	FB	2.00	322.42	10.58	3000
PEGBY		GRUBY		TF	FB	2.00	019.37	7.87	3000
GRUBY	IAF	RISVE		TF	FB	1.00	301.89	5.73	3000
RISVE	IF	CODAC		TF	FB	1.00	329.26	6.30	2000
CODAC	FAF	JAVIK/2.40 NM TO RW33		TF	FB	0.30	329.21	3.11	
JAVIK/2.40 NM TO RW33		RW33	MAP	TF	FO	0.30	329.21	2.40	
RW33	MAP	450 MSL		CA			329.21		
450 MSL		KOBEC		DF	FB	1.00			
KOBEC		TECOV		TF	FB	1.00	209.16	8.50	
TECOV		FALKO		TF	FO	1.00	151.39	12.75	4000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW33

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4000 DIRECT KOBEC AND LEFT TURN ON TRACK 209.16 TO TECOV AND LEFT TURN ON TRACK 151.39 TO FALKO AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY 10 CHECKED

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. PROFILE STARTS AT RISVE

3. FAC: 329.21 **FAF:** CODAC **DIST FAF TO MAP:** 5.51 **DIST FAF TO THLD:** 5.51

4. MIN ALT: RISVE 3000, CODAC 2000, JAVIK/2.40 NM TO RW33 980*

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **255 HAT:** 0.72 **GS ANT:**

6. MIN GP INCPT: 2000 **GP ALT AT FAF :** CODAC 2000 **OM:** **MM:** **IM:**

7. GP ANGLE: 3.05 **34:1:** IS CLEAR **20:1:** IS CLEAR **TCH:** 45.6

8. MSA FROM: RW33 2500

PBN REQUIREMENTS NOTE:

RNP APCH

NOTES:

CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV ALL CATS.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C OR ABOVE 54C.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT GRUBY ON V286 SOUTHEAST BOUND AND V376 SOUTHBOUND.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV CAT C/D VISIBILITY TO 1 3/8 SM.

ADDITIONAL FLIGHT DATA:

CHART DEMO MOA, HILL MOA, R-6601
CHART R-6612, R-6611A
CHART VDP AT 1.51 NM TO RW33*
*LNAV ONLY
WAAS CHANNEL #81805
REFERENCE PATH ID: W33A
CHART FAS OBST: 412 TOWER 382246N/0772507W.
HOLD SW, LT, 030.85 INBOUND
LTP HAE: 19.8 M

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: **NA** ☐ STANDARD

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LPV DA	450	3/4	255	450	3/4	255	450	3/4	255	450	1	255			
LNAV/VNAV DA	546	3/4	351	546	3/4	351	546	3/4	351	546	1	351			
LNAV MDA	700	3/4	505	700	3/4	505	700	1 1/2	505	700	1 1/2	505			
CIRCLING	720	1	509	740	1	529	840	1 3/4	629	880	2	669			

QUALITY 10 CHECKED

CHANGES - REASONS

1. DELETED CHART NOTE; DME/DME RNP-0.3 NA - IAW 8260.19H 8-6-8 (B(1)) PBN NAVSPEC.
2. DELETED CHART NOTE; IF LOCAL ALTIMETER SETTING NOT RECEIVED, USE SHANNON, FREDERICKSBURG, VA ALTIMETER SETTING AND INCREASE ALL DAS/MDAS 40 FEET. - NOTE MOVED TO BACK OF -9 AND MADE CONTINGENCY REMOTE ALTIMETER NOTE.
3. DELETED CHART NOTE; VDP AND BARO-VNAV NA WHEN USING SHANNON, FREDERICKSBURG, VA ALTIMETER SETTING - NOTE MOVED TO BACK OF -9 AND MADE CONTINGENCY REMOTE ALTIMETER NOTE.
4. DELETED CHART NOTE; INOPERATIVE TABLE DOES NOT APPLY TO LNAV CAT C - NEW VIS-CHECK WORKSHEET INCORPORATES INOPERATIVE TABLE.
5. CHANGED CHART NOTE FROM "BARO/VNAV NA BELOW -15C (5F)" TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -15C OR ABOVE 54C" - NEW REPORTS FORMAT ELIMINATED FAHRENHEIT VALUES.
6. CHANGED LNAV/VNAV MDA/HAT FROM "460/264" TO "546/351" - CONTROLLING OBSTACLE UPDATED FROM "196 FOOT ROAD" TO "361 FOOT TOWER".
7. CHANGED LPV HAT FROM "254" TO "255" - THRESHOLD ELEVATION CHANGED FROM "196" TO "195.2".
8. CHANGED LNAV HAT FROM "504" TO "505" - THRESHOLD ELEVATION CHANGED FROM "196" TO "195.2".
9. CHANGED VDP LOCATION FROM "1.52 NM " TO "1.51 NM" - UPDATED LOCATION FOUND DURING PROCEDURE AMENDMENT.
10. DESCENT ANGLE CHANGED FROM "3.00" TO "3.05" - WITH CURRENT LOCATION OF FAF, ANGLE INCREASED 0.05 DEGREES.
11. CHANGED INTERMEDIATE RNP FROM "0.50" TO "1.00" - UPDATED TO 8260.58A CHANGE 1 TABLE 1-2-1.
12. ADDED 20:1 CLEAR TO LINE 7 - IAW 8260.19H 8-6-7 (G(3)) FOR DOCUMENTING CLEAR SLOPES FOR RNAV PROCEDURE.
13. ADDED PBN REQUIREMENTS NOTE: RNP APCH - IAW 8260.19H 8-6-8 (B(1)) PBN NAVSPEC.
14. ADDED CHART NOTE; FOR INOPERATIVE ALS, INCREASE LNAV CAT C/D VISIBILITY TO 1 3/8 SM - INCREASE NOTED BY UPDATED VIS-CHECK WORKSHEET.
15. CHANGED FAS OBST FROM "400 TOWER 382246.90N/0772508.10W" TO "412 TOWER 382246N/0772507W" - NEW CONTROLLING OBSTACLE.
16. DELETED FAS OBST; 196 ROAD 382319.29N/772643.08W - OBSTACLE NO LONGER CONTROLLING OBSTACLE.
17. CHANGED "DISTANCE TO THLD FROM 254 HAT: 0.73 NM" TO "DISTANCE TO THLD 255 HAT: 0.72 NM" - CHANGED DUE TO ONE FOOT INCREASE IN HAT.
18. CHANGED CRC REMAINDER FROM "FFC0265D" TO "68CC6159" - LTP/FTP ELLIPSOIDAL HEIGHT CHANGED FROM "+00200" TO "+00198" AND GLIDEPATH ANGLE CHANGED FROM "3.00" TO "3.05".
19. ADDED CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV ALL CATS - PER VIS-CHECK TOOL.

NOTAM IFDC 8/7037 INCORPORATED INTO THIS AMENDMENT.

PDF EDIT 8/20/19: JAMES LAFFERTY, DELETED STATEMENT "ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED".

QUALITY 10 CHECKED

COORDINATED WITH:

A4A [X] **ALPA** [ ] **AOPA** [X] **APA** [ ] **HAI** [ ] **NBAA** [X] **OTHER:** ZDC, NYG APP CON, PCT APP CON, A/P MGR, VA DOT

		OFFICE	DATE	TITLE
FLIGHT CHECKED BY BOB S PRESSLER	*Digitally signed by* ***DONALD H LANIER*** Oct 29, 2018	FICO	10/23/18	
DEVELOPED BY JAMES LAFFERTY	*Digitally signed by* ***JAMES LAFFERTY*** Sep 11, 2018	AJV-5433	08/20/2018	
APPROVED BY PATRICK MULQUEEN	*Digitally signed by* ***DONALD H LANIER*** Oct 29, 2018	AJV-5430		MANAGER

QUALITY 10 CHECKED

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KRMN
RUNWAY	RW33
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W33A
LTP/FTP LATITUDE	382334.4600N
LTP/FTP LONGITUDE	0772659.1400W
LTP/FTP ELLIPSOIDAL HEIGHT	+00198
FPAP LATITUDE	382411.8500N
FPAP LONGITUDE	0772740.2200W
THRESHOLD CROSSING HEIGHT (TCH)	00045.6
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.05
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1224
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	68CC6159

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00522
FPAP ORTHOMETRIC HEIGHT	+00522

QUALITY 10 CHECKED

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

FROM	TO	COURSE AND DISTANCE	ALTITUDE
OLM VORTAC	**HABOR/OLM 5.08 DME/RADAR**	**351.43 / 5.08**	**3000**

MISSED APPROACH

MAP: 4.80 NM AFTER HABOR/OLM 5.08 DME/RADAR

CLIMB TO 4200 ON OLM VORTAC R-171 TO ZIMBU/OLM 4.82 DME AND CLIMBING RIGHT TURN DIRECT OLM VORTAC AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4200.

ADDITIONAL FLIGHT DATA:

HOLD S, LT, 356.00 INBOUND.
CHART FAS OBST: 612 TOWER 470056N/1225504W.
CHART CIRCLING ICON.
CHART: R-6703
CHART PLANVIEW NOTE: DME OR RADAR REQUIRED.

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. **HOLD N HABOR, RT, 171.43 INBOUND, 3000 FT. IN LIEU OF PT (IAF)**
3. FAC **171.43** FAF **HABOR/OLM VORTAC 5.08 DME/RADAR** DIST FAF TO MAP **4.80** THLD ____
4. MIN. ALT **HABOR/OLM VORTAC 5.08 DME/RADAR 2700**
8. MSA FROM: **OLM VORTAC 020-200 5400, 200-020 4500**

MAG VAR: **19E** EPOCH YEAR: **1995**

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
CIRCLING	**880**	**1**	**672**	**880**	**1**	**672**	**1020**	**2 1/2**	**812**	**1020**	**2 3/4**	**812**			

NOTES:

CHART NOTE: DME REQUIRED.

@ CAT C 900-2 1/2, CAT D 900-2 3/4

QUALITY 4 CHECKED

CITY AND STATE		FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	
OLYMPIA, WA	**ELEVATION: 208** **TDZE:** AIRPORT NAME: **OLYMPIA RGNL**	**OLM**	**VOR-A, AMDT 2** 3 JANUARY 2019	SUP AMDT **1B** DATE **09/18/2014**

FAA FORM 8260-5 / April 2006 (computer generated)

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.29

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

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
KENOSHA RGNL	KENW	ILS OR LOC RWY 7L	3A	KENOSHA	WI

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
742	742	ILS OR LOC RWY 7L	3	08/27/2009	2W	1990

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
I-ENW		3 JANUARY 2019	ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
TALOR INT		CODEE LOM	FAF/IAF				266.13	18.10	2500

MISSED APPROACH

MAP:

ILS: DA
LOC: 4.32 NM AFTER CODEE LOM

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2500 THEN LEFT TURN DIRECT EN LOM AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT R **SIDE OF COURSE** 245.75 **OUTBOUND** 2500 **FT WITHIN** 10 **MILES OF** EN OM (IAF)

2.

3. FAC: 065.75 **FAF:** CODEE LOM **DIST FAF TO MAP:** 4.32 **DIST FAF TO THLD:** 4.32

4. MIN ALT: CODEE LOM 2400

5. DIST TO THLD FROM OM: 4.32 **MM:** **IM:** **150 HAT:** **GS ANT:** 1133

6. MIN GS INCPT: 2400 **GS ALT AT FAF :** GS INTCP 2400 **OM:** 2193 **MM:** **IM:**

7. GP ANGLE: 3.00 **34:1:** **20:1:** **TCH:** 55.4

8. MSA FROM: EN LOM 2600

EQUIPMENT REQUIREMENTS NOTES:

ADF REQUIRED.

NOTES:

CHART NOTE: CIRCLING RWY 7R, 15 NA AT NIGHT.

QUALITY 10 CHECKED

ADDITIONAL FLIGHT DATA:

CHART IN PLANVIEW: (CFDWS) 423100.16N/0880901.12W.
CHART FAS OBST: 936 TOWER 423337N/0880227W.
HOLD SW, LT, 065.75 INBOUND

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ ILS: STANDARD - NA WHEN CONTROL TOWER CLOSED.; LOC: STANDARD - NA WHEN CONTROL TOWER CLOSED.

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
S-ILS 07L	942	1/2	200	942	1/2	200	942	1/2	200	942	1/2	200			
S-LOC 07L	1200	1/2	458	1200	1/2	458	1200	7/8	458	1200	1	458			
CIRCLING	1200	1	458	1200	1	458	1200	1 1/2	458	1340	2	598			

CHANGES - REASONS

1. MOVED ADF NOTES TO EQUIPMENT REQUIREMENT NOTES SECTION - FOR 19H FORMS FORMAT.
2. ADDED CHART NOTE: CIRCLING RWYS 7R, 15 NA AT NIGHT - OBSTACLES PENETRATE THE VISUAL SURFACE AREAS.
3. REMOVED ILS OR LOC: #@ NA WHEN LOCAL WEATHER NOT AVAILABLE. FROM 8260-3 - PER 8260.19H PARA 8-6-9 F(3).
4. DELETED OR WHEN DIRECTED BY ATC; CHANGED VIA TO ON; DELETED HOLD E, RT, 252.79 INBOUND FROM ALTERNATE MISSED - NO LONGER REQUIRED OR USED AND ALTERNATE MISSED PUBLISHED ON PLATE.
5. UPDATED S-LOC 7L MDA/HAT ALL CATS FROM 1180/438 TO 1200/458 ALL CATS AND VISIBILITY FROM 3/4 SM CAT C TO 7/8 SM CATS C - HIGHER MDA CAUSED AN INCREASE IN CATS C VISIBILITY MINIMUMS.
6. UPDATED BACKUP ALTIMETER SETTING CHART NOTE AND MOVED IT FROM THE 8260-3 AND APPROACH PLATE TO BACK OF 8260-9: FROM CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE WAUKEGAN REGIONAL ALTIMETER SETTING AND INCREASE S-ILS DA 27 FEET AND ALL MDA 40 FEET TO WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE WAUKEGAN REGIONAL ALTIMETER SETTING AND INCREASE S-ILS DA TO 969 FEET AND ALL MDA 40 FEET, INCREASE S-LOC 07L CAT C VISIBILITY 1/8 SM. FOR INOPERATIVE ALS WHEN USING WAUKEGAN REGIONAL ALTIMETER SETTING, INCREASE S-LOC 07L CAT C/D VISIBILITY TO 1 3/8 SM - PER 8260.19H PARA 8-6-11N (1)(A)2.
7. ADDED TO ADDITIONAL FLIGHT DATA CHART IN PLANVIEW: (CFDWS) 423100.16N/0880901.12W, 6 NM FROM CODEE LOM (FAF) - ARINC REQUIREMENT FOR CODING.

PDF EDIT: 07/23/2018
1. CHANGED CODEE LOM TO GS INTCP ON 8260-3 LINE 6 AND FOR FINAL: ILS ON THE 8260-9.
2. ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED FROM PART C: GENERAL REMARKS - AUTOGENERATED NOTE AND NEW CIRCLING AREA NOT APPLIED.

10/12/18: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 07/20/18.
1. CHANGED FAS OBST FROM 989 AAO 423336N/0880010W TO 936 TOWER 743337N/0880227W IN ADDITIONAL FLIGHT DATA. - RESULTING IN S-LOC MINIMUMS.
2. REMOVED ALTERNATE MISSED APPROACH. - JVL FACILITY RESTRICTION.
3. REMOVED "CHART IN PLANVIEW: VENNA INT/JVL 36.57 DME" IN ADDITIONAL FLIGHT DATA. - ALTERNATE MISSED APPROACH REMOVED.
4. REMOVED "CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD E VEENA INT/JVL 36.57 DME, RT, 252.79 INBOUND".- ALTERNATE MISSED APPROACH REMOVED.

QUALITY 10 CHECKED

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
KENOSHA RGNL	KENW	ILS OR LOC RWY 7L	3A	KENOSHA	WI

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZAU, MKE APP CON, ENW ATCT, WI AERO, AMGR

FLIGHT CHECKED BY				OFFICE	DATE	
GLEN BURSON FREEMAN			*Digitally signed by* ***WARDELL HENNING*** Oct 19, 2018	FIOG	10/04/2018	
DEVELOPED BY		*Digitally signed by* ***WARDELL HENNING*** Oct 19, 2018		**OFFICE**	**DATE**	
SYLVAN DRAKES				AJV-5433	07/20/2018	
APPROVED BY	*Digitally signed by* ***WARDELL HENNING*** Oct 19, 2018			**OFFICE**	**DATE**	**TITLE**
PATRICK MULQUEEN				AJV-5430		MANAGER

QUALITY 10 CHECKED

FEDERAL AVIATION ADMINISTRATION

FLIGHT STANDARDS SERVICE

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

TITLE 14 CFR PART 97.33

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

AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
KENOSHA RGNL	KENW	RNAV (GPS) RWY 7L	ORIG-A	KENOSHA	WI

AIRPORT ELEVATION	TDZE	SUPERSEDED	ORIGINAL/AMENDMENT	DATED	MAG VAR	EPOCH YEAR
742	742	RNAV (GPS) RWY 7L	ORIG	08/27/2009	2W	1990

FACILITY	COORDINATES OF FACILITIES	ACTUAL EFFECTIVE DATE	REQUIRED EFFECTIVE DATE	CANCEL/SUSPEND
RNAV		3 JANUARY 2019	ROUTINE	

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
OBK VOR/DME		FARIV		TF	FB	2.00	332.95	14.80	3000
FARIV	IAF	DIKHU		TF	FB	1.00	335.63	5.00	3000
FARMM	IAF	DIKHU		TF	FB	1.00	041.46	13.67	3000
VEENA	IAF	DIKHU		TF	FB	1.00	153.74	13.14	3000
DIKHU	IF	AHYOB		TF	FB	1.00	065.60	6.02	2400
AHYOB	FAF	TABTE/1.60 NM TO RW07L		TF	FB	0.30	065.68	3.36	
TABTE/1.60 NM TO RW07L		RW07L	MAP	TF	FO	0.30	065.68	1.60	
RW07L	MAP	942 MSL		CA			065.68		
942 MSL		BOCIJ		DF	FB	1.00			
BOCIJ		NOVAC		TF	FB	1.00	332.69	9.39	
NOVAC		VEENA		TF	FO	1.00	258.34	17.28	3000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW07L

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT BOCIJ AND LEFT TURN ON TRACK 332.69 TO NOVAC AND ON TRACK 258.34 TO VEENA AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY 10 CHECKED

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. PROFILE STARTS AT DIKHU

3. FAC: 065.68 **FAF:** AHYOB **DIST FAF TO MAP:** 4.96 **DIST FAF TO THLD:** 4.96

4. MIN ALT: DIKHU 3000, AHYOB 2400, TABTE/1.60 NM TO RW07L 1280*

5. DIST TO THLD FROM OM: **MM:** **IM:** **150 HAT:** **200 HAT:** 0.45 **GS ANT:**

6. MIN GP INCPT: 2400 **GP ALT AT FAF :** AHYOB 2400 **OM:** **MM:** **IM:**

7. GP ANGLE: 3.00 **34:1:** IS CLEAR **20:1:** IS CLEAR **TCH:** 55.4

8. MSA FROM: RW07L 2600

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: CIRCLING RWY 7R, 15 NA AT NIGHT.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C OR ABOVE 47C.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV CAT C/D VISIBILITY TO 1 1/4 SM.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON OBK VOR/DME ON V191 SOUTH BOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL AT VEENA ON T265 NORTHEAST BOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL AT FARMM ON V217-228 SOUTHEAST BOUND.

ADDITIONAL FLIGHT DATA:

*LNAV ONLY.
WAAS CHANNEL #50314
REFERENCE PATH ID: W07A
CHART FAS OBST: 894 TOWER 423522N/0875802W.
HOLD E, RT, 257.79 INBOUND
LTP HAE: 191.7 M

MINIMUMS:

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: **NA** ☐ STANDARD

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LPV DA	942	1/2	200	942	1/2	200	942	1/2	200	942	1/2	200			
LNAV/VNAV DA	1179	1	437	1179	1	437	1179	1	437	1179	1	437			
LNAV MDA	1160	1/2	418	1160	1/2	418	1160	3/4	418	1160	1	418			
CIRCLING	1200	1	458	1200	1	458	1200	1 1/2	458	1340	2	598			

QUALITY 10 CHECKED

CHANGES - REASONS

1. DELETED CHART NOTE: DME/DME RNP-0.3 NA AND ADDED PBN REQUIREMENTS NOTE: RNP APCH - PER 8260.19H NAVSPEC REQUIREMENT.
2. ADDED CHART NOTE: CIRCLING RWYS 7R, 15 NA AT NIGHT - OBSTACLES PENETRATE THE VISUAL SURFACE AREAS.
3. UPDATED MISSED APPROACH INSTRUCTIONS FROM CLIMB TO 3000 DIRECT BOCIJ AND LEFT TURN VIA TRACK 332.85 TO NOVAC AND VIA TRACK 258.38 TO VEENA AND HOLD TO CLIMB TO 3000 DIRECT BOCIJ AND LEFT TURN ON TRACK 332.69 TO NOVAC AND ON TRACK 258.34 TO VEENA AND HOLD - VIA NO LONGER USED AND MINOR ROUNDING ADJUSTMENTS.
4. UPDATED FOR UNCOMPENSATED BARO-VNAV SYSTEMS NOTE FROM FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 47C (116F) TO FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C OR ABOVE 47C - FAHRENHEIT NO LONGER REQUIRED.
5. UPDATED 8260-3 LINE 7 BY ADDING 20:1 IS CLEAR - NO VISUAL SURFACE PENETRATIONS EXIST IN CATS A/B VISUAL AREAS.
6. UPDATED CHART NOTE: FOR INOPERATIVE MALSR, INCREASE LNAV CAT D VISIBILITY TO 1 1/4 MILE TO READ FOR INOPERATIVE ALS, INCREASE LNAV CAT C/D VISIBILITY TO 1 1/4 SM - MALSR AND MILE NO LONGER USED.
7. UPDATED BACKUP ALTIMETER SETTING CHART NOTE AND MOVED IT FROM THE 8260-3 AND APPROACH PLATE TO BACK OF 8260-9: FROM CHART NOTE: FROM WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE WAUKEGAN REGIONAL ALTIMETER SETTING AND INCREASE ALL DA 27 FEET AND ALL MDA 40 FEET TO WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE WAUKEGAN REGIONAL ALTIMETER SETTING AND INCREASE LPV DA TO 969 FEET, INCREASE LNAV/VNAV DA TO 1206 FEET AND ALL MDA 40 FEET, INCREASE LNAV CAT C VISIBILITY 1/8 SM - PER 8260.19H PARA 8-6-11N (1)(A)2.
8. UPDATED CHART PLANVIEW NOTE: FROM PROCEDURE NA FOR ARRIVALS ON OBK VOR/DME VIA V191 SOUTH BOUND TO PROCEDURE NA FOR ARRIVALS ON OBK VOR/DME ON V191 SOUTH BOUND - VIA NO LONGER USED.
9. REMOVED STANDARD @ NA WHEN LOCAL WEATHER NOT AVAILABLE. FROM 8260-3 - PER 8260.19H PARA 8-6-9 F(3).
10. ADDED CHART NOTES: CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL AT VEENA ON T265 NORTHEAST BOUND AND CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL AT FARMM ON V217-228 SOUTHEAST BOUND - PER 8260-19H.
11. UPDATED FAS DATA BLOCK INFORMATION AS FOLLOWS: COURSE WIDTH AT THRESHOLD FROM 103.75 TO 106.75; LENGTH OFFSET FROM 0000 TO 1072; CRC REMAINDER FROM 468131D1 TO 9550FD37.

PDF EDIT: 07/23/2018
1. ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED FROM PART C: GENERAL REMARKS - AUTOGENERATED NOTE AND NEW CIRCLING AREA NOT APPLIED.

QUALITY 10 CHECKED

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** ZAU, MKE APP CON, ENW ATCT, WI AERO, AMGR

FLIGHT CHECKED BY

GLEN B FREEMAN

Digitally signed by
WARDELL HENNING
Oct 15, 2018

OFFICE	DATE
FICO	10/3/18

DEVELOPED BY SYLVAN DRAKES

Digitally signed by
SYLVAN DRAKES
Jul 24, 2018

OFFICE	DATE
AJV-5433	07/24/2018

APPROVED BY PATRICK MULQUEEN

Digitally signed by
WARDELL HENNING
Oct 15, 2018

OFFICE	DATE	TITLE
AJV-5430		MANAGER

QUALITY 10 CHECKED

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KENW
RUNWAY	RW07L
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W07A
LTP/FTP LATITUDE	423534.8020N
LTP/FTP LONGITUDE	0875630.1805W
LTP/FTP ELLIPSOIDAL HEIGHT	+01917
FPAP LATITUDE	423558.8200N
FPAP LONGITUDE	0875524.2400W
THRESHOLD CROSSING HEIGHT (TCH)	00055.4
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)	35.0
CRC REMAINDER	9550FD37

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02263
FPAP ORTHOMETRIC HEIGHT	+02263

QUALITY 10 CHECKED

[4910-13]

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 97

[Docket No. 31223; Amdt. No. 3826

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: Thomas J. Nichols, Flight Procedures and Airspace Group, Flight Technologies and Procedures Division, Flight Standards Service, Federal Aviation Administration. Mailing Address: FAA Mike Monroney Aeronautical Center, Flight Procedures and Airspace Group, 6500 South MacArthur Blvd, Registry Bldg 29 Room 104, 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, Navigation (Air).

Issued in Washington, DC on NOVEMBER 2, 2018.

Rick Domingo
Executive 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(f), 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
6-Dec-18	NJ	Newark	Newark Liberty Intl	8/1634	10/15/18	RNAV (RNP) Z RWY 29, Orig-E
6-Dec-18	NJ	Newark	Newark Liberty Intl	8/1636	10/15/18	RNAV (RNP) Y RWY 29, Amdt 1C
6-Dec-18	MT	Glendive	Dawson Community	8/1795	10/17/18	RNAV (GPS) RWY 30, Orig-A
6-Dec-18	MT	Glendive	Dawson Community	8/1861	10/17/18	RNAV (GPS) RWY 12, Orig-A
6-Dec-18	NY	Albany	Albany Intl	8/3214	10/29/18	VOR RWY 28, Orig-C
6-Dec-18	TX	Albany	Albany Muni	8/3862	10/17/18	RNAV (GPS) RWY 35, Amdt 1A
6-Dec-18	TX	Albany	Albany Muni	8/3873	10/17/18	RNAV (GPS) RWY 17, Amdt 1A
6-Dec-18	NY	Albany	Albany Intl	8/6757	10/29/18	RNAV (RNP) Z RWY 19, Orig-A
6-Dec-18	PA	Pottstown	Heritage Field	8/8210	10/25/18	Takeoff Minimums and Obstacle DP, Amdt 2A
6-Dec-18	NY	Albany	Albany Intl	8/8629	10/29/18	RNAV (GPS) RWY 28, Orig-B

AIRAC Date: 6 DECEMBER 2018

FDC **8/1634** EWR IAP NEWARK LIBERTY INTL, Newark, NJ. RNAV (RNP) Z RWY 29, ORIG-E... DELETE NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. DELETE NOTE: PROCEDURE NA AT NIGHT. DELETE NOTE: RF REQUIRED. DELETE NOTE: GPS REQUIRED. PBN REQUIREMENTS NOTE: RNP AR APCH. PBN REQUIREMENTS NOTE: RF REQUIRED. THIS IS RNAV (RNP) Z RWY 29, ORIG-F. 1807231219-PERM

FDC **8/1636** EWR IAP NEWARK LIBERTY INTL, Newark, NJ. RNAV (RNP) Y RWY 29, AMDT 1C... DELETE NOTE: WHEN VGSI INOP, PROCEDURE NA AT NIGHT. DELETE NOTE: RF REQUIRED. DELETE NOTE: GPS REQUIRED. PBN REQUIREMENTS NOTE: RNP AR APCH. PBN REQUIREMENTS NOTE: RF REQUIRED. DELETE PLANVIEW NOTE: RADAR REQUIRED. THIS IS RNAV (RNP) Y RWY 29, AMDT 1D. 1807231222-PERM

FDC **8/1795** GDV IAP DAWSON COMMUNITY, Glendive, MT. RNAV (GPS) RWY 30, ORIG-A... DELETE NOTE: VISIBILITY REDUCTION BY HELICOPTER NA. CHART NOTE: RWY 30 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. PBN REQUIREMENTS NOTE: RNP APCH. DELETE NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE 3.00/TCH 37). DELETE NOTE: WHEN VGSI INOP, PROCEDURE NA AT NIGHT. DELETE NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -19C (2F) OR ABOVE 28C (82F). CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -19C OR ABOVE 28C. THIS IS RNAV (GPS) RWY 30, ORIG-B. 1810111919-PERM

FDC **8/1861** GDV IAP DAWSON COMMUNITY, Glendive, MT. RNAV (GPS) RWY 12, ORIG-A... DELETE NOTE: VISIBILITY REDUCTION BY HELICOPTER NA. CHART NOTE: RWY 12 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. PBN REQUIREMENTS NOTE: RNP APCH. DELETE NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE 3.00/TCH 37). DELETE NOTE: WHEN VGSI INOP, PROCEDURE NA AT NIGHT. DELETE NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -19C (2F) OR ABOVE 28C (82F). CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -19C OR ABOVE 28C. THIS IS RNAV (GPS) RWY 12, ORIG-B. 1810112012-PERM

FDC **8/3214** ALB IAP ALBANY INTL, Albany, NY. VOR RWY 28, ORIG-C... CHART NOTE: STRAIGHT-IN RWY 28 NA AT NIGHT, CIRCLING RWY 28 NA AT NIGHT. CHART NOTE: RWY 28 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. EQUIPMENT REQUIREMENTS NOTE: DME OR RADAR REQUIRED. DELETE NOTE: DME OR RADAR REQUIRED. THIS IS VOR RWY 28, ORIG-D. 1810261931-PERM

FDC **8/3862** T23 IAP ALBANY MUNI, Albany, TX. RNAV (GPS) RWY 35, AMDT 1A... DELETE NOTE: NIGHT LANDING: RWY 35 NA. DELETE NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NA. CHART NOTE: RWY 35 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. DELETE NOTE: DME/DME RNP-0.3 NA. PBN REQUIREMENTS NOTE: RNP APCH. THIS IS RNAV (GPS) RWY 35, AMDT 1B. 1810161306-PERM

FDC **8/3873** T23 IAP ALBANY MUNI, Albany, TX. RNAV (GPS) RWY 17, AMDT 1A... DELETE NOTE: NIGHT LANDING: RWY 17 NA. CHART NOTE: RWY 17 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. DELETE NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NA. DELETE NOTE: DME/DME RNP-0.3 NA. PBN REQUIREMENTS NOTE: RNP APCH. THIS IS RNAV (GPS) RWY 17, AMDT 1B. 1810161310-PERM

FDC **8/6757** ALB IAP ALBANY INTL, Albany, NY. RNAV (RNP) Z RWY 19, ORIG-A... RNP 0.30 DA 763/HAT 483, VIS RVR 5000 ALL CATS. DELETE NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -15C (3F) OR ABOVE 47C (117F). CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -15C OR ABOVE 47C. DELETE NOTE: FOR INOPERATIVE MALS, INCREASE RNP 0.30 VISIBILITY TO 1 1/4. CHART NOTE: FOR INOPERATIVE ALS INCREASE RNP 0.30 VISIBILITY TO 1 3/8. DELETE NOTE: GPS REQUIRED. PBN REQUIREMENTS NOTE: RNP AR APCH. THIS IS RNAV (RNP) Z RWY 19, ORIG-B. 1807301356-PERM

FDC **8/8210** PTW ODP HERITAGE FIELD, Pottstown, PA. TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES AMDT 2A... TAKEOFF OBSTACLE NOTES: RWY 10: TREE, POLE BEGINNING 58 FT FROM DER, 18 FT RIGHT OF CENTERLINE, UP TO 365 FT MSL. BUILDING, TREE BEGINNING 403 FT FROM DER, 136 FT LEFT OF CENTERLINE, UP TO 25 FT AGL/339 FT MSL. TREE, BUILDING BEGINNING 745 FT FROM DER, 23 FT LEFT OF CENTERLINE, UP TO 380 FT MSL. TREE 1573 FT FROM DER, 111 FT RIGHT OF CENTERLINE, 376 FT MSL. TREE 1620 FT FROM DER, 248 FT RIGHT OF CENTERLINE, 379 FT MSL. TREE 1701 FT FROM DER, 136 FT RIGHT OF CENTERLINE, 384 FT MSL. TREE 2004 FT FROM DER, 239 FT RIGHT OF CENTERLINE, 388 FT MSL. TREE 2127 FT FROM DER, 11 FT RIGHT OF CENTERLINE, 398 FT MSL. TREES BEGINNING 2198 FT FROM DER, 71 FT LEFT OF CENTERLINE, UP TO 410 FT MSL. TREE, BUILDING BEGINNING 2414 FT FROM DER, 19 FT LEFT OF CENTERLINE, UP TO 416 FT MSL. TREE, BUILDING BEGINNING 2486 FT FROM DER, 22 FT RIGHT OF CENTERLINE, UP TO 425 FT MSL. TANK, WATER_TOWER BEGINNING 1 NM FROM DER, 349 FT RIGHT OF CENTERLINE, UP TO 111 FT AGL/477 FT MSL. RWY 28: TREE 124 FT FROM DER, 481 FT RIGHT OF CENTERLINE, 327 FT MSL. TREES BEGINNING 845 FT FROM DER, 12 FT RIGHT OF CENTERLINE, UP TO 337 FT MSL. TREE 910 FT FROM DER, 107 FT LEFT OF CENTERLINE, 332 FT MSL. TREES BEGINNING 1007 FT FROM DER, 61 FT RIGHT OF CENTERLINE, UP TO 338 FT MSL. TREES BEGINNING 1138 FT FROM DER, 53 FT RIGHT OF CENTERLINE, UP TO 372 FT MSL. TOWER 1.3 NM FROM DER, 1680 FT LEFT OF CENTERLINE, 295 FT AGL/544 FT MSL. ALL OTHER DATA REMAINS AS PUBLISHED. THIS IS TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES, AMDT 2B. 1810221640-PERM

FDC **8/8629** ALB IAP ALBANY INTL, Albany, NY. RNAV (GPS) RWY 28, ORIG-B... CHART NOTE: WHEN VGSI INOP, PROCEDURE NA AT NIGHT. DELETE NOTE: DME/DME RNP-0.3 NA. PBN REQUIREMENTS NOTE: RNP APCH. CHART NOTE: RWY 28 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. DELETE NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. THIS IS RNAV (GPS) RWY 28, ORIG-C. 1808011347-PERM