

U.S. Department
of Transportation

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

**Federal Aviation
Administration**

Transmittal Letter 15-19

July 31, 2015

**PREPARED BY THE AERONAUTICAL INFORMATION GROUP, AJV-53
(AVAILABLE ON THE WEB AT [HTTP://NFDC.FAA.GOV](http://NFDC.FAA.GOV))**

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

[4910-13]

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 97

[Docket No. [31031](#); Amdt. No. [3655](#)]

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

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Final rule.

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

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

The incorporation by reference of certain publications

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

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

For Examination

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

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

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

4. The National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to:

http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html.

Availability

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

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

SUPPLEMENTARY INFORMATION:

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

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

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

Availability and Summary of Material Incorporated by Reference

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

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

The Rule

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

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

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

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

List of Subjects in 14 CFR part 97:

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

Issued in Washington, DC on [JULY 31, 2015](#)



John Duncan
Director, Flight Standards Service

ADOPTION OF THE AMENDMENT

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

Part 97—Standard Instrument Approach Procedures

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

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

2. Part 97 is amended to read as follows:

Effective 17 SEPTEMBER 2015

Atmore, AL, Atmore Muni, RNAV (GPS) RWY 36, Amdt 1B
 Fort Wayne, IN, Fort Wayne Intl, Takeoff Minimums and Obstacle DP, Amdt 3
 South Haven, MI, South Haven Area Rgnl, RNAV (GPS) RWY 5, Amdt 1C
 South Haven, MI, South Haven Area Rgnl, RNAV (GPS) RWY 23, Amdt 1C

Effective 15 OCTOBER 2015

Anchorage, AK, Ted Stevens Anchorage Intl, ILS RWY 15, Amdt 6B
 Anchorage, AK, Ted Stevens Anchorage Intl, ILS OR LOC/DME RWY 7L, ILS RWY 7L (SA CAT I),
 ILS RWY 7L (SA CAT II), Amdt 3B
 Anchorage, AK, Ted Stevens Anchorage Intl, ILS OR LOC/DME RWY 7R, ILS RWY 7R (CAT II), ILS
 RWY 7R (CAT III), ILS RWY 7R (SA CAT I), Amdt 3B
 Anchorage, AK, Ted Stevens Anchorage Intl, RNAV (GPS) RWY 7L, Amdt 2C
 Anchorage, AK, Ted Stevens Anchorage Intl, RNAV (GPS) RWY 15, Amdt 2C
 Anchorage, AK, Ted Stevens Anchorage Intl, RNAV (GPS) Y RWY 7R, Amdt 4C
 Anchorage, AK, Ted Stevens Anchorage Intl, RNAV (RNP) RWY 33, Orig-A
 Anchorage, AK, Ted Stevens Anchorage Intl, RNAV (RNP) Z RWY 7R, Orig-A
 Nogales, AZ, Nogales Intl, NDB OR GPS-C, Amdt 2C, CANCELED
 Hawthorne, CA, Jack Northrop Field/Hawthorne Muni, Takeoff Minimums and Obstacle DP, Amdt 4
 Miami, FL, Miami Intl, RNAV (RNP) Y RWY 8R, Orig-B
 Raymond, MS, John Bell Williams, RNAV (GPS) RWY 30, Amdt 4
 New York, NY, John F Kennedy Intl, ILS OR LOC RWY 4L, Amdt 11
 New York, NY, John F Kennedy Intl, RNAV (RNP) Z RWY 4L, Amdt 1
 New York, NY, John F Kennedy Intl, VOR RWY 4L, Amdt 1
 Greenville, SC, Donaldson Field, Takeoff Minimums and Obstacle DP, Orig-A
 Greenville, SC, Greenville Downtown, Takeoff Minimums and Obstacle DP, Amdt 7
 Tullahoma, TN, Tullahoma Rgnl Arpt/Wm Northern Field, VOR RWY 6, Amdt 1A, CANCELED
 Tullahoma, TN, Tullahoma Rgnl Arpt/Wm Northern Field, VOR RWY 24, Orig-D, CANCELED
 Tyler, TX, Tyler Pounds Rgnl, RNAV (GPS) RWY 17, Orig
 Tyler, TX, Tyler Pounds Rgnl, RNAV (GPS) RWY 35, Orig
 Tyler, TX, Tyler Pounds Rgnl, Takeoff Minimums and Obstacle DP, Amdt 2

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

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

NOTES, (CONT.):
 CHART PROFILE NOTE: DESCENT ANGLE NA.
 CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.

| TAA | FROM | TO | ALT |
|-----|-------------------------|---------------------|------|
| 1. | 271/30 CW 090/30 (NOPT) | 271/10 CW 090/10 | 3100 |
| 2. | 271/10 CW 090/10 | GOKDE (IF/IAF) (FB) | 2600 |
| 3. | 090/30 CW 271/30 | GOKDE (IF/IAF) (FO) | 2600 |



| | | | | | |
|-------------------------------------|---|-----------|-------------------------------------|--|--------------------------|
| CITY AND STATE ATMORE, AL | ELEVATION: 286 AIRPORT NAME: ATMORE MUNI | TDZE: 286 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 36, AMDT 1B 17 SEPTEMBER 2015 | SUP: |
| | | | | | AMDT: 1A |
| | | | | | DATED: 05/29/2014 |

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

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ARINC SUMMARY - 424-18 - RNAV (GPS)

| ROUTES | TRANSITION | FIX | SEQ | USE | PATH | TURN | FO/FB | RNP | MAG (TRUE) | DISTANCE | ALTITUDE | SPEED |
|--------|------------|-------|-----|------|------|------|-------|-----|----------------|----------|----------|-------|
| | GOKDE | GOKDE | 010 | IAF | HF | R | FO | | 000.8 (359.8T) | 004.0 | AA 02600 | |
| | | GOKDE | 010 | FACF | IF | | FB | | | | AA 02600 | |
| | | HEVBU | 020 | FAF | TF | | FB | 0.5 | 000.8 (359.8T) | 006.0 | AA 01900 | |
| | | OKVOE | 021 | SDF | TF | | FB | 0.3 | 000.8 (359.8T) | 002.5 | AA 01100 | |
| | | RW36 | 030 | MAP | TF | | FO | 0.3 | 000.8 (359.8T) | 002.5 | AT 00720 | |

| MISSED APPROACH | FIX | SEQ | USE | PATH | TURN | FO/FB | RNP | MAG (TRUE) | DISTANCE | ALTITUDE | SPEED |
|-----------------|-------|-----|-----|------|------|-------|-----|----------------|----------|----------|-------|
| | | 040 | | CA | | FB | | 000.8 (359.8T) | | AA 00686 | |
| | FEVIB | 050 | | DF | | FO | | | | AA 02600 | |
| | FEVIB | 060 | | HM | R | FO | | 180.8 (179.8T) | 004.0 | AA 02600 | |

| POINT DATA | WAYPOINT | LAT IN SECS | LONG IN SECS | LAT IN MINS | LONG IN MINS |
|------------|----------|-------------|--------------|-------------|--------------|
| | FEVIB | N311319.11 | W0872651.75 | N3113.319 | W08726.863 |
| | GOKDE | N304936.11 | W0872645.54 | N3049.602 | W08726.759 |
| | HEVBU | N305536.93 | W0872647.00 | N3055.616 | W08726.783 |
| | OKVOE | N305805.27 | W0872647.60 | N3058.088 | W08726.793 |
| | RW36 | N310035.64 | W0872648.25 | N3100.594 | W08726.804 |

| RUNWAY DATA | RWY | THRESHOLD ELEVATION | TCH |
|-------------|------|---------------------|-----|
| | RW36 | 00278 | 00 |



| | | | | |
|-------------------------------------|-------------------------------------|-------------------------------------|--|--------------------------|
| CITY AND STATE ATMORE, AL | ELEVATION: 286 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 36, AMDT 1B 17 SEPTEMBER 2015 | SUP: |
| | AIRPORT NAME: ATMORE MUNI | | | AMDT: 1A |
| | | | | DATED: 05/29/2014 |

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

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

| City, State | Airport | Effective Date | Amdt. No. |
|--------------------|-----------------|-----------------------|------------------|
| FORT WAYNE, IN | FORT WAYNE INTL | 17 SEPTEMBER 2015 | 3 |

TAKEOFF MINIMUMS:

STANDARD

TEXTUAL DEPARTURE PROCEDURES:

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTES: RWY 5, LIGHTED STRUCTURES BEGINNING 9 FEET FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 3 FEET AGL/800 FEET MSL. FENCE AND TREES BEGINNING 152 FEET FROM DER, 521 FEET RIGHT OF CENTERLINE, UP TO 42 FEET AGL/842 FEET MSL. RAILROAD 834 FEET FROM DER, 582 FEET RIGHT OF CENTERLINE, 23 FEET AGL/820 FEET MSL. TREES BEGINNING 927 FEET FROM DER, 499 FEET LEFT OF CENTERLINE, 40 FEET AGL/836 FEET MSL.

NOTE: RWY 9: LIGHTED STRUCTURES BEGINNING 11 FEET FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 2 FEET AGL/794 FEET MSL. POLE 86 FEET FROM DER, 442 FEET RIGHT OF CENTERLINE, 28 FEET AGL/820 FEET MSL. POLE 380 FEET FROM DER, 505 FEET RIGHT OF CENTERLINE, 32 FEET AGL/822 FEET MSL. TOWER 3124 FEET FROM DER, 1109 FEET LEFT OF CENTERLINE, 111 FEET AGL/910 FEET MSL.

NOTE: RWY 14: LIGHTED STRUCTURES BEGINNING 9 FEET FROM DER, LEFT AND RIGHT OF CENTERLINE, UP 2 FEET AGL/797 FEET MSL. TREE 1079 FEET FROM DER, 667 FEET LEFT OF CENTERLINE, 23 FEET AGL/825 FEET MSL.

NOTE: RWY 23: LIGHTED STRUCTURES BEGINNING 8 FEET FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 2 FEET AGL/815 FEET MSL.

NOTE: RWY 27: LIGHTED STRUCTURES BEGINNING 9 FEET FROM DER, 48 FEET LEFT OF CENTERLINE, UP 2 FEET AGL/800 FEET MSL. FENCES BEGINNING 28 FEET FROM DER, 470 FEET RIGHT OF CENTERLINE, UP TO 6 FEET AGL/804 FEET AGL. TOWER 194 FEET FROM DER, 523 FEET LEFT OF CENTERLINE, 19 FEET AGL/809 FEET MSL. OBSTRUCTION LIGHT 370 FEET FROM DER, 230 FEET LEFT OF CENTERLINE, 14 FEET AGL/812 FEET MSL. TREES BEGINNING 3587 FEET FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 104 FEET AGL/910 FEET MSL.

NOTE: RWY 32: LIGHTED STRUCTURES BEGINNING 9 FEET FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 2 FEET AGL/803 FEET MSL. TREES BEGINNING 3672 FEET FROM DER, 611 FEET LEFT OF CENTERLINE, UP TO 100 FEET AGL/901 FEET MSL.

CONTROLLING OBSTACLES:



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

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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. |
|----------------|-----------------|-------------------|-----------|
| FORT WAYNE, IN | FORT WAYNE INTL | 17 SEPTEMBER 2015 | 3 |

REMARKS:

FLIGHT INSPECTED BY:

PAUL ARMSTRONG *Digitally signed by*
JACOB POWERS
Jul 15, 2015

7/10/2015

REQUIRED EFFECTIVE DATE:

ROUTINE

DEVELOPED BY:

SCOTT BAGENSIE *Digitally signed by*
JACOB POWERS AJV-353
Jul 15, 2015

04/13/2015

APPROVED BY:

GEORGE L. GONZALEZ AJV-353 *Digitally signed by*
JACOB POWERS
Jul 15, 2015

COORDINATED WITH:

APA, ALPA, AOPA, NBAA, ZMP, ARPT MGR

CHANGES:

1. ADDED DEPARTURE OBSTACLES TO TAKEOFF NOTES.
2. REMOVED DEPARTURE ROUTE FROM RWY 32.

REASONS:

1. AIRPORT SURVEY UPDATED.
2. OBSTACLE AC INFORMATION UPDATED.



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

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TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE | |
|--------------------|----------------------------|---------------------|----------|---|
| PMM VOR/DME | SUSOY (FO) | 227.06 / 22.57 | 4000 | LNAV: RW05 CLIMB TO 4000 DIRECT JUSRO AND HOLD, CONTINUE CLIMB-IN-HOLD TO 4000. ADDITIONAL FLIGHT DATA: HOLD NE, RT, 226.93 INBOUND. CHART FAS OBST: 759 TREE 422033N/0861551W CHART 920 TOWER 421927N/0861757W. CHART CIRCLING ICON |
| ELX VOR/DME | SUSOY (FO) | 284.64 / 15.21 | 4000 | |
| ZIMEG (IAF) | SUSOY (NOPT) (FB) | 022.30 / 7.90 | 4000 | |
| YOLUR (IAF) | SUSOY (NOPT) (FB) | 073.18 / 7.90 | 4000 | |
| SUSOY (IF/IAF) | NODCI (FB) | 046.66 / 7.00 | 2500 | |
| NODCI (FAF) | LIVTE/2.10 NM TO RW05 (FB) | 046.73 / 3.58 | | |
| (SEE FORM 8260-10) | | | | |

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD SW SUSOY, RT, 046.66 INBOUND, 4000 FT. IN LIEU OF PT (IAF)
3. FAC: 046.73 FAF: NODCI DIST FAF TO MAP: 5.68 THLD: 5.68
4. MIN. ALT: SUSOY 4000, NODCI 2500, LIVTE/2.10 NM TO RW05 1360
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: GS ALT AT: OM: MM: IM:
7. GS ANGLE: TCH: 34:1 IS NOT CLEAR
8. MSA FROM: RW05 2500

MAG VAR: **3W** EPOCH YEAR: **1985**

MINIMUMS

| TAKEOFF: | SEE FAA FORM 8260-15A FOR THIS AIRPORT | | | | | | ALTERNATE: N A | | | STANDARD @ | | | | | |
|-----------------|--|-----|---------|--------|-----|---------|----------------|-------|---------|------------|-------|---------|--------|-----|---------|
| CATEGORY =====> | A | | | B | | | C | | | D | | | E | | |
| | DH/MDA | VIS | HAT/HAA | DH/MDA | VIS | HAT/HAA | DH/MDA | VIS | HAT/HAA | DH/MDA | VIS | HAT/HAA | DH/MDA | VIS | HAT/HAA |
| LNAV MDA | 1020 | 1 | 361 | 1020 | 1 | 361 | 1020 | 1 | 361 | 1020 | 1 | 361 | | | |
| CIRCLING | 1120 | 1 | 454 | 1140 | 1 | 474 | 1280 | 1 3/4 | 614 | 1520 | 2 3/4 | 854 | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

NOTES:
 CHART NOTE: DME/DME RNP-0.3 NA.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON PMM VOR/DME AIRWAY RADIALS 243 CW 303.
 CHART PROFILE NOTE: DESCENT ANGLE NA.
 CHART NOTE: PROCEDURE NA AT NIGHT.
 (SEE FORM 8260-10)

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.
 @ CAT D 900-2 3/4



| | | | | |
|--|---|-------------------------------------|--|--|
| CITY AND STATE SOUTH HAVEN, MI | ELEVATION: 666 TDZE: 659 AIRPORT NAME: SOUTH HAVEN AREA RGNL | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 5, AMDT 1C 17 SEPTEMBER 2015 | SUP: AMDT: 1B DATED 12/11/2014 |
|--|---|-------------------------------------|--|--|

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

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TERMINAL ROUTES, (CONT.):

| FROM | TO | COURSE AND DISTANCE | ALTITUDE |
|-----------------------|-----------------|---------------------|----------|
| LIVTE/2.10 NM TO RW05 | RW05 (MAP) (FO) | 046.73 / 2.10 | |
| RW05 (MAP) | 1020 MSL | 046.73 | |
| 1020 MSL | JUSRO (FO) | | 4000 |

NOTES, (CONT.):

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BENTON HARBOR ALTIMETER SETTING AND INCREASE ALL MDA 40 FEET; INCREASE LNAV CATS C AND D VISIBILITY 1/8 MILE AND CIRCLING CAT D VISIBILITY 1/4 MILE.

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

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ZIMEG ON V116 WEST BOUND.

CHART NOTE: CIRCLING NA TO RWYS 14 AND 32.



| | | | | | |
|-----------------------------------|--|-----------|------------------------------|---|-------------------|
| CITY AND STATE SOUTH HAVEN, MI | ELEVATION: 666 | TDZE: 659 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 5, AMDT 1C 17 SEPTEMBER 2015 | SUP: |
| | AIRPORT NAME: SOUTH HAVEN AREA RGNL | | | | AMDT: 1B |
| | | | | | DATED: 12/11/2014 |

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

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

ARINC SUMMARY - KLWA

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|---------|----------|----------|-------|-----|---------|---------|-------|----------|------------|-------------|------------------------------|---------------------------------|----------------------|
| ELX | 010 | ELX | IF | FB | | | | | | | | | | V |
| ELX | 020 | SUSOY | TF | FO | 2.0 | 284.6 | | | | | | AA 04000 | | EY |
| ELX | 030 | SUSOY | HF | FO | | 046.7 | | | R | | | AA 04000 | | EE A |
| PMM | 010 | PMM | IF | FB | | | | | | | | | | V |
| PMM | 020 | SUSOY | TF | FO | 2.0 | 227.1 | | | | | | AA 04000 | | EY |
| PMM | 030 | SUSOY | HF | FO | | 046.7 | | | R | | | AA 04000 | | EE A |
| YOLUR | 010 | YOLUR | IF | FB | | | | | | | | | | E A |
| YOLUR | 020 | SUSOY | TF | FB | 1.0 | 073.2 | | | | | | AA 04000 | | EE B |
| ZIMEG | 010 | ZIMEG | IF | FB | | | | | | | | | | E A |
| ZIMEG | 020 | SUSOY | TF | FB | 1.0 | 022.3 | | | | | | AA 04000 | | EE B |
| | 010 | SUSOY | IF | FB | | | | | | | | AA 04000 | | E I |
| | 020 | NODCI | TF | FB | 0.5 | 046.7 | | | | RW05 | | AA 02500 | | E F |
| | 021 | LIVTE | TF | FB | 0.3 | 046.7 | | | | | | AA 01360 | | E S |
| | 030 | RW05 | TF | FO | 0.3 | 046.7 | | 0.00 | | | | AT 01020 | | GY M |
| | 040 | | CA | FB | | 046.7 | | | | | | AA 01020 | | M |
| | 050 | JUSRO | DF | FO | | | | | | | | AA 04000 | | EY |
| | 060 | JUSRO | HM | FO | | 226.9 | | | R | | | AA 04000 | | EE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| ELX | N420839.88 | W0860721.74 |
| PMM | N422757.73 | W0860617.32 |
| JUSRO | N423033.21 | W0860302.50 |
| LIVTE | N421921.24 | W0861733.71 |
| NODCI | N421646.14 | W0862053.72 |
| SUSOY | N421142.35 | W0862724.31 |
| YOLUR | N420901.93 | W0863724.42 |
| ZIMEG | N420414.92 | W0863055.04 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|--------------------|---------------------|---------------------|---------------|
| RW05 | N422052.25 | W0861536.17 | 00652 | |



| | | | | |
|--|---|---|---|--------------------------|
| CITY AND STATE SOUTH HAVEN, MI | ELEVATION: 666 TDZE: 659 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 5, AMDT 1C 17 SEPTEMBER 2015 | SUP: |
| | AIRPORT NAME: SOUTH HAVEN AREA RGNL | | | AMDT: 1B |
| | | | | DATED: 12/11/2014 |

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

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TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE |
|----------------|-------------------|---------------------|----------|
| ELX VOR/DME | JUSRO (FO) | 011.31 / 22.11 | 4000 |
| OSEGO | ZUBON (FB) | 286.89 / 13.30 | 4000 |
| RAINE | JUSRO (FO) | 096.05 / 20.22 | 4000 |
| ZEELE | RURDE (FB) | 180.64 / 14.65 | 4000 |
| ZUBON (IAF) | JUSRO (NOPT) (FB) | 272.04 / 7.20 | 4000 |
| RURDE (IAF) | JUSRO (NOPT) (FB) | 181.93 / 7.00 | 4000 |
| JUSRO (IF/IAF) | KIDTE (FB) | 226.93 / 7.00 | 2500 |

LNAV: RW23

CLIMB TO 4000 DIRECT SUSOY AND HOLD. CONTINUE CLIMB-IN-HOLD TO 4000.

ADDITIONAL FLIGHT DATA:
HOLD SW, RT, 046.66 INBOUND.
CHART FAS OBST: 809 TREE 422126N/0861420W
CHART CIRCLING ICON

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD NE JUSRO, RT, 226.93 INBOUND, 4000 FT. IN LIEU OF PT (IAF)
3. FAC: 226.86 FAF: KIDTE DIST FAF TO MAP: 5.63 THLD: 5.63
4. MIN. ALT: JUSRO 4000, KIDTE 2500, PIXOE/2.50 NM TO RW23 1500
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: GS ALT AT: OM: MM: IM:
7. GS ANGLE: TCH: 34:1 IS NOT CLEAR
8. MSA FROM: RW23 2500

MAG VAR: **3W** EPOCH YEAR: **1985**

MINIMUMS

| TAKEOFF: | SEE FAA FORM 8260-15A FOR THIS AIRPORT | | | | | | ALTERNATE: N A | STANDARD @ | | | | | | | | |
|-----------------|--|-----|---------|--------|-----|---------|----------------|------------|---------|--------|-------|---------|--------|-----|---------|--|
| CATEGORY =====> | A | | | B | | | C | | | D | | | E | | | |
| | DH/MDA | VIS | HAT/HAA | DH/MDA | VIS | HAT/HAA | DH/MDA | VIS | HAT/HAA | DH/MDA | VIS | HAT/HAA | DH/MDA | VIS | HAT/HAA | |
| LNAV MDA | 1060 | 1 | 394 | 1060 | 1 | 394 | 1060 | 1 1/8 | 394 | 1060 | 1 1/8 | 394 | | | | |
| CIRCLING | 1120 | 1 | 454 | 1140 | 1 | 474 | 1280 | 1 3/4 | 614 | 1520 | 2 3/4 | 854 | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

NOTES:
CHART NOTE: DME/DME RNP-0.3 NA.
CHART NOTE: PROCEDURE NA AT NIGHT.
CHART PROFILE NOTE: DESCENT ANGLE NA.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BENTON HARBOR ALTIMETER SETTING AND (SEE FORM 8260-10)

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.
@ CAT D 900-2 3/4



| | | | | |
|--|---|-------------------------------------|---|--|
| CITY AND STATE SOUTH HAVEN, MI | ELEVATION: 666 TDZE: 666 AIRPORT NAME: SOUTH HAVEN AREA RGNL | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 23, AMDT 1C 17 SEPTEMBER 2015 | SUP: AMDT: 1B DATED 12/11/2014 |
|--|---|-------------------------------------|---|--|

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

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TERMINAL ROUTES, (CONT.):

| FROM | TO | COURSE AND DISTANCE | ALTITUDE |
|-----------------------|----------------------------|---------------------|----------|
| KIDTE (FAF) | PIXOE/2.50 NM TO RW23 (FB) | 226.86 / 3.13 | |
| PIXOE/2.50 NM TO RW23 | RW23 (MAP) (FO) | 226.86 / 2.50 | |
| RW23 (MAP) | 1060 MSL | 226.86 | |
| 1060 MSL | SUSOY (FO) | | 4000 |

NOTES, (CONT.):

INCREASE ALL MDA 40 FEET; INCREASE LNAV CATS C AND D VISIBILITY 1/8 MILE AND CIRCLING CAT D VISIBILITY 1/4 MILE.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ELX VOR/ DME AIRWAY RADIALS 002 CW 094.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT RAINE ON V215 SOUTHWEST BOUND.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ZEELE ON V55 NORTHBOUND.

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

CHART NOTE: CIRCLING NA TO RWYS 14 AND 32.



| | | | | | |
|-----------------------------------|--|-----------|------------------------------|--|-------------------|
| CITY AND STATE SOUTH HAVEN, MI | ELEVATION: 666 | TDZE: 666 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 23, AMDT 1C 17 SEPTEMBER 2015 | SUP: |
| | AIRPORT NAME: SOUTH HAVEN AREA RGNL | | | | AMDT: 1B |
| | | | | | DATED: 12/11/2014 |

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

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ARINC SUMMARY - KLWA

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|---------|----------|----------|-------|-----|---------|---------|-------|----------|------------|-------------|------------------------------|---------------------------------|----------------------|
| ELX | 010 | ELX | IF | FB | | | | | | | | | | V |
| ELX | 020 | JUSRO | TF | FO | 2.0 | 011.3 | | | | | | AA 04000 | | EY |
| ELX | 030 | JUSRO | HF | FO | | 226.9 | | | R | | | AA 04000 | | EE A |
| OSEGO | 010 | OSEGO | IF | FB | | | | | | | | | | E |
| OSEGO | 020 | ZUBON | TF | FB | 2.0 | 286.9 | | | | | | AA 04000 | | E A |
| OSEGO | 030 | JUSRO | TF | FB | 1.0 | 272.0 | | | | | | AA 04000 | | EE B |
| RAINE | 010 | RAINE | IF | FB | | | | | | | | | | E |
| RAINE | 020 | JUSRO | TF | FO | 2.0 | 096.1 | | | | | | AA 04000 | | EY |
| RAINE | 030 | JUSRO | HF | FO | | 226.9 | | | R | | | AA 04000 | | EE A |
| ZEELE | 010 | ZEELE | IF | FB | | | | | | | | | | E |
| ZEELE | 020 | RURDE | TF | FB | 2.0 | 180.6 | | | | | | AA 04000 | | E A |
| ZEELE | 030 | JUSRO | TF | FB | 1.0 | 181.9 | | | | | | AA 04000 | | EE B |
| | 010 | JUSRO | IF | FB | | | | | | | | AA 04000 | | E I |
| | 020 | KIDTE | TF | FB | 0.5 | 226.9 | | | | RW23 | | AA 02500 | | E F |
| | 021 | PIXOE | TF | FB | 0.3 | 226.9 | | | | | | AA 01500 | | E S |
| | 030 | RW23 | TF | FO | 0.3 | 226.9 | | 0.00 | | | | AT 01060 | | GY M |
| | 040 | | CA | FB | | 226.9 | | | | | | AA 01060 | | M |
| | 050 | SUSOY | DF | FO | | | | | | | | AA 04000 | | EY |
| | 060 | SUSOY | HM | FO | | 046.7 | | | R | | | AA 04000 | | EE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| ELX | N420839.88 | W0860721.74 |
| JUSRO | N423033.21 | W0860302.50 |
| KIDTE | N422530.46 | W0860935.97 |
| OSEGO | N422730.61 | W0853551.38 |
| PIXOE | N422314.76 | W0861231.82 |
| RAINE | N423141.10 | W0863020.37 |
| RURDE | N423733.27 | W0860313.13 |
| SUSOY | N421142.35 | W0862724.31 |
| ZEELE | N425211.55 | W0860402.08 |
| ZUBON | N423040.87 | W0855318.50 |

RUNWAYS

THRESHOLD THRESHOLD THRESHOLD PROCEDURE



| | | | | |
|--|---|---|--|--------------------------|
| CITY AND STATE SOUTH HAVEN, MI | ELEVATION: 666 TDZE: 666 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 23, AMDT 1C 17 SEPTEMBER 2015 | SUP: |
| | AIRPORT NAME: SOUTH HAVEN AREA RGNL | | | AMDT: 1B |
| | | | | DATED: 12/11/2014 |

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

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

| RUNWAY | LATITUDE | LONGITUDE | ELEVATION | TCH |
|--------|------------|-------------|-----------|-----|
| RW23 | N422126.48 | W0861451.92 | 00666 | |



| | | | | |
|-----------------------------------|--|----------------------------------|---|-------------------|
| CITY AND STATE SOUTH HAVEN, MI | ELEVATION: 666 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 23, AMDT 1C 17 SEPTEMBER 2015 | SUP: |
| | TDZE: 666 | | | AMDT: 1B |
| | AIRPORT NAME: SOUTH HAVEN AREA RGNL | | | DATED: 12/11/2014 |

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

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NOTES, (CONT.):
CHART PROFILE NOTE: USE I-BSC DME WHEN ON THE LOCALIZER COURSE.
CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW RVR 5000 NOT AUTHORIZED.



| | | | | | |
|--|--|-----------|--------------------------------------|---|--------------------------|
| CITY AND STATE ANCHORAGE, AK | ELEVATION: 151 AIRPORT NAME: TED STEVENS ANCHORAGE INTL | TDZE: 151 | FACILITY IDENTIFIER: I-BSC | PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: ILS RWY 15, AMDT 6B, 10/15/2015 | SUP: |
| | | | | | AMDT: 6A |
| | | | | | DATED: 07/24/2014 |

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29

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ARINC SUMMARY - PANC

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|---------|----------|----------|-------|-----|---------|---------|-------|----------|------------|-------------|------------------------------|---------------------------------|----------------------|
| BGQ | 010 | BGQ | FC | FB | | 181.4 | BGQ | | | | | AA 03000 | | V A |
| BGQ | 020 | CARDD | CF | FB | | 181.4 | IBSC | | | | | AA 03000 | | EE B |
| ELLAM | 010 | ELLAM | IF | FB | | | TED | | | | | | | E A |
| ELLAM | 020 | PEPVE | AF | FB | | 036.6 | TED | | L | | | AA 06300 | | E |
| ELLAM | 030 | YOHNN | AF | FB | | 012.0 | TED | | L | | | AA 03100 | | E |
| ELLAM | 040 | CARDD | CF | FB | | 146.9 | IBSC | | | | | AA 03000 | | EE B |
| IVANN | 010 | IVANN | IF | FB | | | TED | | | | | | | E A |
| IVANN | 020 | YOHNN | AF | FB | | 288.4 | TED | | R | | | AA 03100 | | E |
| IVANN | 030 | CARDD | CF | FB | | 146.9 | IBSC | | | | | AA 03000 | | EE B |
| | 010 | CARDD | IF | FB | | | IBSC | | | | | AA 03000 GI 01600 | | E I |
| | 020 | KANSY | CF | FB | | 147.0 | IBSC | 3.20 | | TED | | GI 01600 GS 01600 | | E F |
| | 030 | RW15 | CF | FO | | 147.0 | IBSC | 3.20 | | | | AT 00209 | | GY M |
| | 040 | | CA | FB | | 146.9 | | | | | | AA 00800 | | M |
| | 050 | | VI | FB | | 200.0 | | | | | | | | |
| | 060 | JUKEP | CF | FO | | 210.0 | TED | | | | | AA 02500 | | EY |
| | 070 | JUKEP | HM | FO | | 210.0 | | | R | | | AA 02500 | | EE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| BGQ | N613410.04 | W1495801.72 |
| TED | N611004.32 | W1495736.51 |
| IBSC (DME) | N611000.01 | W1495940.34 |
| ELLAM | N612241.91 | W1492020.43 |
| IVANN | N612300.21 | W1503425.31 |
| CARDD | N612241.93 | W1500654.71 |
| JUKEP | N610001.26 | W1502029.03 |
| KANSY | N611554.60 | W1500304.51 |
| PEPVE | N612902.32 | W1493440.09 |
| YOHNN | N613057.17 | W1501136.82 |
| IBSC (LOC) | N610959.92 | W1495945.64 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|--------------------|---------------------|---------------------|---------------|
|--------|--------------------|---------------------|---------------------|---------------|



| | | | | |
|--|--|--------------------------------------|--|--------------------------|
| CITY AND STATE ANCHORAGE, AK | ELEVATION: 151 TDZE: 151 | FACILITY IDENTIFIER: I-BSC | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: ILS RWY 15, AMDT 6B, 10/15/2015 | SUP: |
| | AIRPORT NAME: TED STEVENS ANCHORAGE INTL | | | AMDT: 6A |
| | | | | DATED: 07/24/2014 |

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29

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RW15 N611158.07 W1500051.77 00151 58



| | | | | |
|--|--|--|--|--------------------------|
| CITY AND STATE ANCHORAGE, AK | ELEVATION: 151 TDZE: 151 | FACILITY IDENTIFIER: I-BSC | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: ILS RWY 15, AMDT 6B, 10/15/2015 | SUP: |
| | AIRPORT NAME: TED STEVENS ANCHORAGE INTL | | | AMDT: 6A |
| | | | | DATED: 07/24/2014 |

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

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TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE | ILS: DA LOC: I-TGN 1.92 DME FIX |
|----------------------------|------------------------------|-----------------------------|----------|--|
| TED VOR/DME | WEBBI/I-TGN 6.37 DME | 253.06 / 5.86 | 1600 | CLIMB TO 600 THEN CLIMBING RIGHT TURN TO 2500 VIA HEADING 230 AND TED VOR/DME R-210 TO JUKEP/TED 15.00 DME AND HOLD. |
| ENA VOR/DME (IAF) | AINKK/I-TGN 16.83 DME (NOPT) | 011.38 / 38.72 (TED LR-246) | 2000 | |
| AINKK/I-TGN 16.83 DME (IF) | WEBBI/I-TGN 6.37 DME | 071.88 / 10.45 (I-TGN) | 1600 | |
| | | | | ADDITIONAL FLIGHT DATA: HOLD NE, RT, 209.95 INBOUND. CHART FAS OBST: 196 TREE 610956N/1500304W 394 AAO 610945N/1501042W CHART VDP AT 2.76 DME* DISTANCE VDP TO THLD 0.85 MILES. *LOC ONLY. |

- PT L SIDE OF COURSE 251.88 OUTBOUND 1600 FT WITHIN 10 MILES OF WEBBI (IAF)
-
- FAC: 071.88 FAF: WEBBI/I-TGN 6.37 DME DIST FAF TO MAP: _____ THLD: 4.46
- MIN. ALT: WEBBI 1600
- DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: 1847 100 HAT: 893 GS ANT: 972
- MIN GS INCPT: 1600 GS ALT AT: WEBBI 1600 OM: _____ MM: _____ IM: _____
- GS ANGLE: 3.00 TCH: 53.5
- MSA FROM: TED VOR/DME 021-181 8900, 181-276 1800, 276-021 5600

MAG VAR: 18E EPOCH YEAR: 2020

MINIMUMS

| | | | | | | | | | | | | | | | |
|---|----------------|-----------------|-----------------|--------|------|---------|--------|-------|---------|--------|------|---------|--------|-------|---------|
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT | ALTERNATE: N A | ILS: STANDARD # | LOC: STANDARD @ | | | | | | | | | | | | |
| CATEGORY =====> | A | | B | | | C | | | D | | | E | | | |
| | DH/MDA | VIS | HAT/HAA | DH/MDA | VIS | HAT/HAA | DH/MDA | VIS | HAT/HAA | DH/MDA | VIS | HAT/HAA | DH/MDA | VIS | HAT/HAA |
| S-ILS 07L | 328 | 1800 | 200 | 328 | 1800 | 200 | 328 | 1800 | 200 | 328 | 1800 | 200 | 328 | 1800 | 200 |
| S-LOC 07L | 500 | 2400 | 372 | 500 | 2400 | 372 | 500 | 3500 | 372 | 500 | 3500 | 372 | 500 | 3500 | 372 |
| CIRCLING | 700 | 1 | 549 | 700 | 1 | 549 | 700 | 1 1/2 | 549 | 800 | 2 | 649 | 920 | 2 3/4 | 769 |

NOTES:
SA CATEGORY I ILS SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED S-ILS 7L: CAT A, B, C, D, RA 158, RVR 1400, HAT 150, DA 278 MSL.
SA CATEGORY II ILS SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED S-ILS 7L: CAT A, B, C, D, RA 108, RVR 1200, HAT 100, DA 228 MSL.
(SEE FORM 8260-10)

CAT D 700-2, CAT E 800-2 3/4
@ CAT E 800-2 3/4



| | | | | |
|--|--|--------------------------------------|---|--|
| CITY AND STATE ANCHORAGE, AK | ELEVATION: 151 TDZE: 128 AIRPORT NAME: TED STEVENS ANCHORAGE INTL | FACILITY IDENTIFIER: I-TGN | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC/DME RWY 7L, AMDT 3B ILS RWY 7L (SA CAT I) ILS RWY 7L (SA CAT II) 10/15/2015 | SUP: AMDT: 3A DATED 07/24/2014 |
|--|--|--------------------------------------|---|--|

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

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NOTES, (CONT.):

CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-ILS 7L CAT E VISIBILITY TO RVR 4000, S-LOC 7L CATS C, D AND E VISIBILITY TO RVR 5500.

CHART NOTE: DME REQUIRED.

CHART PROFILE NOTE: PROCEDURE TURN NA FOR CAT E AIRCRAFT.

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

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

CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE} TCH {FEET}).



| | | | | | |
|---------------------------------|----------------------------|-----------|-------------------------------|---|---------------------------------|
| CITY AND STATE ANCHORAGE, AK | ELEVATION: 151 | TDZE: 128 | FACILITY IDENTIFIER: I-TGN | PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: | SUP: |
| | AIRPORT NAME: | | | ILS OR LOC/DME RWY 7L, AMDT 3B | AMDT: 3A |
| | TED STEVENS ANCHORAGE INTL | | | ILS RWY 7L (SA CAT I) ILS RWY 7L (SA CAT II) | 10/15/2015 DATED: 07/24/2014 |

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29

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ARINC SUMMARY - PANC

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|---------|----------|----------|-------|-----|---------|---------|-------|----------|------------|-------------|------------------------------|---------------------------------|----------------------|
| ENA | 010 | ENA | FC | FB | | 011.4 | ENA | | | | | AA 02000 | | V A |
| ENA | 020 | AINKK | CF | FB | | 011.4 | ITGN | | | | | AA 02000 | | EE B |
| TED | 010 | TED | IF | FB | | | | | | | | | | V |
| TED | 020 | WEBBI | TF | FB | | | | | | | | AA 01600 | | E |
| TED | 030 | WEBBI | PI | FB | | 206.9 | ITGN | | R | | | AA 01600 | | EE A |
| | 010 | AINKK | IF | FB | | | ITGN | | | | | AA 02000 GI 01600 | | E I |
| | 020 | WEBBI | CF | FB | | 072.0 | ITGN | 3.00 | | TED | | GI 01600 GS 01600 | | E F |
| | 030 | RW07L | CF | FO | | 072.0 | ITGN | 3.00 | | | | AT 00181 | | GY M |
| | 040 | | CA | FB | | 071.9 | | | | | | AA 00600 | | M |
| | 050 | | VI | FB | | 230.0 | | | R | | | | | |
| | 060 | JUKEP | CF | FO | | 210.0 | TED | | | | | AA 02500 | | EY |
| | 070 | JUKEP | HM | FO | | 210.0 | | | R | | | AA 02500 | | EE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| ENA | N603652.93 | W1511142.87 |
| TED | N611004.32 | W1495736.51 |
| ITGN (DME) | N611014.06 | W1495633.03 |
| AINKK | N611005.78 | W1503117.02 |
| JUKEP | N610001.26 | W1502029.03 |
| WEBBI | N611010.28 | W1500941.97 |
| ITGN (LOC) | N611011.33 | W1495632.65 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|--------------------|---------------------|---------------------|---------------|
| RW07L | N611011.15 | W1500030.00 | 00128 | 54 |



| | | | | |
|--|--|--------------------------------------|--|--------------------------|
| CITY AND STATE ANCHORAGE, AK | ELEVATION: 151 TDZE: 128 | FACILITY IDENTIFIER: I-TGN | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP: |
| | AIRPORT NAME: TED STEVENS ANCHORAGE INTL | | ILS OR LOC/DME RWY 7L, AMDT 3B | AMDT: 3A |
| | | | ILS RWY 7L (SA CAT I) | DATED: 07/24/2014 |

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25

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ARINC SUMMARY - PANC

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|---------|----------|----------|-------|-----|---------|---------|-------|----------|------------|-------------|------------------------------|---------------------------------|----------------------|
| ENA | 010 | ENA | FC | FB | | 011.4 | ENA | | | | | AA 02000 | | V A |
| ENA | 020 | AINKK | CF | FB | | 011.4 | ITGN | | | | | AA 02000 | | EE B |
| TED | 010 | TED | IF | FB | | | | | | | | | | V |
| TED | 020 | WEBBI | TF | FB | | | | | | | | AA 01600 | | E |
| TED | 030 | WEBBI | PI | FB | | 206.9 | ITGN | | R | | | AA 01600 | | EE A |
| | 010 | AINKK | IF | FB | | | ITGN | | | | | AA 02000 | | E I |
| | 020 | WEBBI | CF | FB | | 072.0 | ITGN | | | TED | | AA 01600 | | E F |
| | 030 | RW07L | CF | FO | | 072.0 | ITGN | 3.01 | | | | AT 00181 | | GY M |
| | 040 | | CA | FB | | 071.9 | | | | | | AA 00600 | | M |
| | 050 | | VI | FB | | 230.0 | | | R | | | | | |
| | 060 | JUKEP | CF | FO | | 210.0 | TED | | | | | AA 02500 | | EY |
| | 070 | JUKEP | HM | FO | | 210.0 | | | R | | | AA 02500 | | EE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| ENA | N603652.93 | W1511142.87 |
| TED | N611004.32 | W1495736.51 |
| ITGN (DME) | N611014.06 | W1495633.03 |
| AINKK | N611005.78 | W1503117.02 |
| JUKEP | N610001.26 | W1502029.03 |
| WEBBI | N611010.28 | W1500941.97 |
| ITGN (LOC) | N611011.33 | W1495632.65 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|--------------------|---------------------|---------------------|---------------|
| RW07L | N611011.15 | W1500030.00 | 00128 | 54 |



| | | | | |
|--|--|--------------------------------------|--|--------------------------|
| CITY AND STATE ANCHORAGE, AK | ELEVATION: 151 TDZE: 128 | FACILITY IDENTIFIER: I-TGN | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP: |
| | AIRPORT NAME: TED STEVENS ANCHORAGE INTL | | ILS OR LOC/DME RWY 7L, AMDT 3B | AMDT: 3A |
| | | | ILS RWY 7L (SA CAT I) | DATED: 07/24/2014 |

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

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TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE | ILS: DA LOC: I-ANC 2.23 DME FIX LOC: RW07L |
|--------------------------------|----------------------------------|-----------------------------|----------|--|
| TED VOR/DME | TULLI/I-ANC 6.67 DME | 251.93 / 6.84 | 1600 | CLIMB TO 600 THEN CLIMBING RIGHT TURN TO 2500 ON TED VOR/DME R-210 TO JUKEP/TED 15.00 DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NE, RT, 209.95 INBOUND. CHART ARRIVAL HOLDING AT TED VOR/DME: HOLD SW, LT, 068.42 INBOUND, 3000. CHART FAS OBST: 200 TREE 610956N/1500301W 399 AAO 610948N/1501038W. CHART VDP AT 3.23 DME* DISTANCE VDP TO THLD 1.00 MILES. *LOC ONLY. CHART IN PLANVIEW: ENA VOR/DME 37.36 DME AT ELIAS. |
| ENA VOR/DME (IAF) | ELIAS INT/I-ANC 18.62 DME (NOPT) | 008.23 / 37.36 (TED LR-246) | 2000 | |
| ELIAS INT/I-ANC 18.62 DME (IF) | TULLI/I-ANC 6.67 DME | 071.85 / 11.95 (I-ANC) | 1600 | |

1. PT L SIDE OF COURSE 251.85 OUTBOUND 1600 FT WITHIN 10 MILES OF TULLI (IAF)
 2. _____
 3. FAC: 071.85 FAF: TULLI/I-ANC 6.67 DME DIST FAF TO MAP: _____ THLD: 4.44
 4. MIN. ALT: TULLI 1600, WIVDA/I-ANC 4.83 DME 1000*
 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: 862 GS ANT: 1074
 6. MIN GS INCPT: 1600 GS ALT AT: TULLI 1600 OM: _____ MM: _____ IM: 231
 7. GS ANGLE: 3.00 TCH: 54.8
 8. MSA FROM: TED VOR/DME 021-181 8900, 181-276 1800, 276-021 5600

MAG VAR: 18E EPOCH YEAR: 2020

MINIMUMS

| | | | | | | | | | | | | | | | |
|---|----------------|-----------------|-----------------|--------|------|---------|--------|-------|---------|--------|-------|---------|--------|-------|---------|
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT | ALTERNATE: N A | ILS: STANDARD # | LOC: STANDARD @ | | | | | | | | | | | | |
| CATEGORY =====> | A | | B | | C | | D | | E | | | | | | |
| | DH/MDA | VIS | HAT/HAA | DH/MDA | VIS | HAT/HAA | DH/MDA | VIS | HAT/HAA | DH/MDA | VIS | HAT/HAA | DH/MDA | VIS | HAT/HAA |
| S-ILS 07R | 332 | 1800 | 200 | 332 | 1800 | 200 | 332 | 1800 | 200 | 332 | 1800 | 200 | 332 | 1800 | 200 |
| S-LOC 07R | 520 | 2400 | 388 | 520 | 2400 | 388 | 520 | 3500 | 388 | 520 | 3500 | 388 | 520 | 3500 | 388 |
| S-LOC SIDESTEP 7L | 520 | 5000 | 392 | 520 | 5000 | 392 | 520 | 1 1/2 | 392 | 520 | 1 1/2 | 392 | 520 | 1 1/2 | 392 |
| CIRCLING | 700 | 1 | 549 | 700 | 1 | 549 | 700 | 1 1/2 | 549 | 800 | 2 | 649 | 920 | 2 3/4 | 769 |

NOTES:
 CATEGORY II ILS SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED S-ILS 7R: CAT A, B, C, D, RA
 115, RVR 1200, HAT 100, DA 232 MSL.
 CATEGORY III ILS SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED. S-ILS 7R: CAT III CAT
 A,B,C,D, RVR 600.
 (SEE FORM 8260-10)

CAT D 700-2, CAT E 800-2 3/4
 @ CAT E 800-2 3/4



| | | | | | |
|---------------------------------|---|--------------------------------|-------------------------------|---|--------------------------------------|
| CITY AND STATE ANCHORAGE, AK | ELEVATION: 151 AIRPORT NAME: TED STEVENS ANCHORAGE INTL | TDZE: 07R 132 TDZE: 07L 128 | FACILITY IDENTIFIER: I-ANC | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC/DME RWY 7R, AMDT 3B ILS RWY 7R (CAT II), ILS RWY 7R (CAT III) ILS RWY 7R (SA CAT I) 10/15/2015 | SUP: AMDT: 3A DATED 07/24/2014 |
|---------------------------------|---|--------------------------------|-------------------------------|---|--------------------------------------|

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

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NOTES, (CONT.):
CHART NOTE: FOR INOPERATIVE ALSF-2, INCREASE S-ILS 7R CAT E VISIBILITY TO RVR 4000, AND S-LOC 7R VISIBILITY TO RVR 6000.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: RWY 7L THRESHOLD 6140' E OF RWY 7R THRESHOLD.
CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO SIDESTEP RWY 7L CAT A, B, AND C.
CHART PROFILE NOTE: PROCEDURE TURN NA FOR CAT E AIRCRAFT.
CHART PLANVIEW NOTE: AIRCRAFT ARRIVING AT TED VOR/DME MAY REQUIRE DESCENT TO 3600 IN THE TED VOR/DME HOLDING PATTERN BEFORE COMMENCING APPROACH.
CAT II RVR 1000 CHART NOTE: RVR 1000 AUTHORIZED WITH SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF AUTOLAND OR HUD TO TOUCHDOWN.
SA CATEGORY I ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED S-ILS 7R: CAT A, B, C, D, RA 245, RVR 1400, HAT 150, DA 282 MSL.
SA CAT I CHART NOTE: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF HUD TO DH.



| | | | | | |
|---------------------------------|---|---------------|-------------------------------|---|-------------------|
| CITY AND STATE ANCHORAGE, AK | ELEVATION: 151 | TDZE: 07R 132 | FACILITY IDENTIFIER: I-ANC | PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: ILS OR LOC/DME RWY 7R, AMDT 3B ILS RWY 7R (CAT II) , ILS RWY 7R (CAT III) ILS RWY 7R (SA CAT I) 10/15/2015 | SUP: |
| | AIRPORT NAME: TED STEVENS ANCHORAGE INTL | TDZE: 07L 128 | | | AMDT: 3A |
| | | | | | DATED: 07/24/2014 |

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29

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ARINC SUMMARY - PANC

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|---------|----------|----------|-------|-----|---------|---------|-------|----------|------------|-------------|------------------------------|---------------------------------|----------------------|
| ENA | 010 | ENA | FC | FB | | 008.2 | ENA | | | | | AA 02000 | | V A |
| ENA | 020 | ELIAS | CF | FB | | 008.2 | IANC | | | | | AA 02000 | | EE B |
| TED | 010 | TED | IF | FB | | | | | | | | | | V H |
| TED | 020 | TULLI | TF | FB | | | | | | | | AA 01600 | | E |
| TED | 030 | TULLI | PI | FB | | 206.9 | IANC | | R | | | AA 01600 | | EE A |
| | 010 | ELIAS | IF | FB | | | IANC | | | | | AA 02000 | GI 01600 | E I |
| | 020 | TULLI | CF | FB | | 072.0 | IANC | 3.00 | | TED | | GI 01600 | GS 01600 | E F |
| | 030 | RW07R | CF | FO | | 072.0 | IANC | 3.00 | | | | AT 00187 | | GY M |
| | 040 | | CA | FB | | 071.9 | | | | | | AA 00600 | | M |
| | 050 | JUKEP | CF | FO | | 210.0 | TED | | R | | | AA 02500 | | EY |
| | 060 | JUKEP | HM | FO | | 210.0 | | | R | | | AA 02500 | | EE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| ENA | N603652.93 | W1511142.87 |
| TED | N611004.32 | W1495736.51 |
| IANC (DME) | N611002.02 | W1495758.40 |
| ELIAS | N610956.19 | W1503624.86 |
| JUKEP | N610001.26 | W1502029.03 |
| TULLI | N611003.11 | W1501144.06 |
| IANC (LOC) | N611004.39 | W1495755.50 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|--------------------|---------------------|---------------------|---------------|
| RW07R | N611004.12 | W1500234.34 | 00132 | 55 |



| | | | | | |
|--|--|----------------------|--|--|--------------------------|
| CITY AND STATE ANCHORAGE, AK | ELEVATION: 151 | TDZE: 07R 132 | FACILITY IDENTIFIER: I-ANC | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: ILS OR LOC/DME RWY 7R, AMDT 3B ILS RWY 7R (CAT II), ILS RWY 7R (CAT III) ILS RWY 7R (SA CAT I) 10/15/2015 | SUP: |
| | AIRPORT NAME: TED STEVENS ANCHORAGE INTL | TDZE: 07L 128 | | | AMDT: 3A |
| | | | | | DATED: 07/24/2014 |

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25

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ARINC SUMMARY - PANC

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|---------|----------|----------|-------|-----|---------|---------|-------|----------|------------|-------------|------------------------------|---------------------------------|----------------------|
| ENA | 010 | ENA | FC | FB | | 008.2 | ENA | | | | | AA 02000 | | V A |
| ENA | 020 | ELIAS | CF | FB | | 008.2 | IANC | | | | | AA 02000 | | EE B |
| TED | 010 | TED | IF | FB | | | | | | | | | | V H |
| TED | 020 | TULLI | TF | FB | | | | | | | | AA 01600 | | E |
| TED | 030 | TULLI | PI | FB | | 206.9 | IANC | | R | | | AA 01600 | | EE A |
| | 010 | ELIAS | IF | FB | | | IANC | | | | | AA 02000 | | E I |
| | 020 | TULLI | CF | FB | | 072.0 | IANC | | | TED | | AA 01600 | | E F |
| | 021 | WIVDA | CF | FB | | 072.0 | IANC | 3.01 | | | | AA 01000 | | E S |
| | 030 | RW07R | CF | FO | | 072.0 | IANC | 3.01 | | | | AT 00187 | | GY M |
| | 040 | | CA | FB | | 071.9 | | | | | | AA 00600 | | M |
| | 050 | JUKEP | CF | FO | | 210.0 | TED | | R | | | AA 02500 | | EY |
| | 060 | JUKEP | HM | FO | | 210.0 | | | R | | | AA 02500 | | EE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| ENA | N603652.93 | W1511142.87 |
| TED | N611004.32 | W1495736.51 |
| IANC (DME) | N611002.02 | W1495758.40 |
| ELIAS | N610956.19 | W1503624.86 |
| JUKEP | N610001.26 | W1502029.03 |
| TULLI | N611003.11 | W1501144.06 |
| WIVDA | N611003.61 | W1500756.41 |
| IANC (LOC) | N611004.39 | W1495755.50 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|--------------------|---------------------|---------------------|---------------|
| RW07R | N611004.12 | W1500234.34 | 00132 | 55 |



| | | | | | |
|--|--|----------------------|--------------------------------------|--|--------------------------|
| CITY AND STATE ANCHORAGE, AK | ELEVATION: 151 | TDZE: 07R 132 | FACILITY IDENTIFIER: I-ANC | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: ILS OR LOC/DME RWY 7R, AMDT 3B ILS RWY 7R (CAT II), ILS RWY 7R (CAT III) ILS RWY 7R (SA CAT I) 10/15/2015 | SUP: |
| | AIRPORT NAME: TED STEVENS ANCHORAGE INTL | TDZE: 07L 128 | | | AMDT: 3A |
| | | | | | DATED: 07/24/2014 |

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

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| TERMINAL ROUTES | | | | MISSED APPROACH | |
|-----------------|------------------|---------------------|----------|--|--|
| FROM | TO | COURSE AND DISTANCE | ALTITUDE | | |
| GASTO | CEYAB (FB) | 040.80 / 16.77 | 2000 | LPV: DA LNAV/VNAV: DA LNAV: RW07L | |
| IVANN | ECIKI (FB) | 162.52 / 7.77 | 3600 | CLIMB TO 800 THEN CLIMBING RIGHT TURN TO 2500 DIRECT JUKEP AND HOLD. | |
| ECIKI (IAF) | NAJIL (FB) | 115.00 / 7.52 | 2000 | | |
| CEYAB (IAF) | NAJIL (FB) | 026.57 / 6.88 | 2000 | ADDITIONAL FLIGHT DATA: HOLD NE, RT, 208.00 INBOUND. CHART FAS OBST: 343 TREE 610936N/1500201W DISTANCE TO THLD FROM 200 HATH: 0.46 NM. CHART VDP AT 1.22 MILES TO RW07L* *LNAV ONLY. WAAS CHANNEL # 86215 REFERENCE PATH ID: W07B 354 AAO 610915N/1501018W LTP HAE: 45 M | |
| NAJIL (IF) | WEBBI | 071.55 / 6.53 | 1600 | | |
| WEBBI (FAF) | RW07L (MAP) (FO) | 071.75 / 4.46 | 800 | | |
| RW07L (MAP) | 800 MSL | 071.75 | 800 | | |
| 800 MSL | JUKEP (FO) | | 2500 | | |

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. PROFILE STARTS AT NAJIL
3. FAC: 071.75 FAF: WEBBI DIST FAF TO MAP: 4.46 THLD: 4.46
4. MIN. ALT: NAJIL 2000, WEBBI 1600
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: 1600 GS ALT AT: WEBBI 1600 OM: MM: IM:
7. GS ANGLE: 3.00 TCH: 53.5 34:1 IS CLEAR
8. MSA FROM: RW07L 8900

MAG VAR: 18E 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 |
| LPV DA | 328 | 2400 | 200 | 328 | 2400 | 200 | 328 | 2400 | 200 | 328 | 2400 | 200 | | | |
| LNAV/VNAV DA | 601 | 6000 | 473 | 601 | 6000 | 473 | 601 | 6000 | 473 | 601 | 6000 | 473 | | | |
| LNAV MDA | 600 | 2400 | 472 | 600 | 2400 | 472 | 600 | 5000 | 472 | 600 | 5000 | 472 | | | |
| CIRCLING | 700 | 1 | 549 | 700 | 1 | 549 | 700 | 1 1/2 | 549 | 800 | 2 | 649 | | | |

NOTES:
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -24C (-12F) OR ABOVE 42C (107F).
CHART NOTE: DME/DME RNP-0.3 NA.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT IVANN ON V440 WESTBOUND AND ARRIVALS AT GASTO ON (SEE FORM 8260-10)



| | | | | |
|---------------------------------|---|------------------------------|--|------------------|
| CITY AND STATE ANCHORAGE, AK | ELEVATION: 151 TDZE: 128 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 7L, AMDT 2C 10/15/2015 | SUP: |
| | AIRPORT NAME: TED STEVENS ANCHORAGE INTL | | | AMDT: 2B |
| | | | | DATED 07/24/2014 |

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

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NOTES, (CONT.):
V462 SOUTHWEST BOUND.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).



| | | | | | |
|--|--|-----------|-------------------------------------|---|--------------------------|
| CITY AND STATE ANCHORAGE, AK | ELEVATION: 151 AIRPORT NAME: TED STEVENS ANCHORAGE INTL | TDZE: 128 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 7L, AMDT 2C 10/15/2015 | SUP: |
| | | | | | AMDT: 2B |
| | | | | | DATED: 07/24/2014 |

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

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

FAS DATA BLOCK INFORMATION

| <u>DATA FIELD</u> | <u>DATA</u> |
|--|---------------|
| OPERATION TYPE | 0 |
| SBAS SERVICE PROVIDER IDENTIFIER | 0 |
| AIRPORT IDENTIFIER | PANC |
| RUNWAY | RW07L |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W07B |
| LTP/FTP LATITUDE | 611011.1535N |
| LTP/FTP LONGITUDE | 1500029.9995W |
| LTP/FTP ELLIPSOIDAL HEIGHT | +00450 |
| FPAP LATITUDE | 611011.3200N |
| FPAP LONGITUDE | 1495653.8800W |
| THRESHOLD CROSSING HEIGHT (TCH) | 00053.5 |
| 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 CA966DE2

ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|-------------------------|--------|
| ICAO CODE | PA |
| LTP ORTHOMETRIC HEIGHT | +00389 |
| FPAP ORTHOMETRIC HEIGHT | +00389 |



| | | | | | |
|---------------------------------|---|-----------|------------------------------|--|-------------------|
| CITY AND STATE ANCHORAGE, AK | ELEVATION: 151 | TDZE: 128 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 7L, AMDT 2C 10/15/2015 | SUP: |
| | AIRPORT NAME: TED STEVENS ANCHORAGE INTL | | | | AMDT: 2B |
| | | | | | DATED: 07/24/2014 |

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

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

ARINC SUMMARY - 424-18 - RNAV (GPS)

| ROUTES | TRANSITION | FIX | SEQ | USE | PATH | TURN | FO/FB | RNP | MAG (TRUE) | DISTANCE | ALTITUDE | SPEED |
|--------|------------|-------|-----|------|------|------|-------|-----|----------------|----------|----------|-------|
| | GASTO | GASTO | 010 | | IF | | FB | | | | | |
| | GASTO | CEYAB | 020 | IAF | TF | | FB | 2.0 | 040.8 (058.8T) | 016.8 | AA 02000 | |
| | GASTO | NAJIL | 030 | | TF | | FB | 1.0 | 026.6 (044.6T) | 006.9 | AA 02000 | |
| | IVANN | IVANN | 010 | | IF | | FB | | | | | |
| | IVANN | ECIKI | 020 | IAF | TF | | FB | 2.0 | 162.5 (180.5T) | 007.8 | AA 03600 | |
| | IVANN | NAJIL | 030 | | TF | | FB | 1.0 | 115.0 (133.0T) | 007.5 | AA 02000 | |
| | | NAJIL | 010 | FACF | IF | | FB | | | | AA 02000 | |
| | | WEBBI | 020 | FAF | TF | | FB | 0.5 | 071.6 (089.6T) | 006.5 | AA 01600 | |
| | | RW07L | 030 | MAP | TF | | FO | 0.3 | 071.8 (089.8T) | 004.5 | AT 00181 | |

| MISSED APPROACH | FIX | SEQ | USE | PATH | TURN | FO/FB | RNP | MAG (TRUE) | DISTANCE | ALTITUDE | SPEED |
|-----------------|-------|-----|-----|------|------|-------|-----|----------------|----------|----------|-------|
| | | 040 | | CA | | FB | | 071.8 (089.8T) | | AA 00800 | |
| | JUKEP | 050 | | DF | R | FO | | | | AA 02500 | |
| | JUKEP | 060 | | HM | R | FO | | 208.0 (226.0T) | 004.0 | AA 02500 | |

| POINT DATA | WAYPOINT | LAT IN SECS | LONG IN SECS | LAT IN MINS | LONG IN MINS |
|------------|----------|-------------|--------------|-------------|--------------|
| | CEYAB | N610514.90 | W1503310.94 | N6105.248 | W15033.182 |
| | ECIKI | N611515.28 | W1503434.08 | N6115.255 | W15034.568 |
| | GASTO | N605638.36 | W1510243.16 | N6056.639 | W15102.719 |
| | IVANN | N612300.21 | W1503425.31 | N6123.004 | W15034.422 |
| | JUKEP | N610001.26 | W1502029.03 | N6100.021 | W15020.484 |
| | NAJIL | N611007.88 | W1502312.68 | N6110.131 | W15023.211 |
| | WEBBI | N611010.28 | W1500941.97 | N6110.171 | W15009.700 |
| | RW07L | N611011.15 | W1500030.00 | N6110.186 | W15000.500 |

| RUNWAY DATA | RWY | THRESHOLD ELEVATION | TCH |
|-------------|-------|---------------------|-----|
| | RW07L | 00128 | 54 |

QUALITY
5
CHECKED

| | | | | |
|--|--|-------------------------------------|---|--------------------------|
| CITY AND STATE ANCHORAGE, AK | ELEVATION: 151 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 7L, AMDT 2C | SUP: |
| | AIRPORT NAME: TED STEVENS ANCHORAGE INTL | | 10/15/2015 | AMDT: 2B |
| | | | | DATED: 07/24/2014 |

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

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

TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE | |
|------------------|-----------------|---------------------|----------|--|
| IVANN (IAF) | CARDD (FB) | 073.12 / 13.24 | 3000 | LPV: DA LNAV/VNAV: DA LNAV: RW15 |
| TAGER (IAF) | CARDD (FB) | 132.62 / 20.31 | 3000 | |
| BGQ VORTAC (IAF) | CARDD (FB) | 182.39 / 12.27 | 3000 | CLIMB TO 2500 DIRECT ZUXAN ON TRACK 227.35 TO JUKEP AND HOLD. |
| CARDD (IF) | KANSY (FB) | 146.78 / 7.05 | 1600 | |
| KANSY (FAF) | RW15 (MAP) (FO) | 146.85 / 4.10 | | ADDITIONAL FLIGHT DATA: HOLD NE, RT, 208.00 INBOUND. CHART FAS OBST: 243 TREE 611203N/1500025W DISTANCE TO THLD FROM 250 HAT: 0.57 NM. CHART VDP AT 0.81 MILES TO RW15* *LNAV ONLY. WAAS CHANNEL # 90115 REFERENCE PATH ID: W15A 310 AAO 611548N/1500158W LTP HAE: 51.9 M |
| RW15 (MAP) | 401 MSL | 146.85 | | |
| 401 MSL | ZUXAN (FB) | | | |
| ZUXAN | JUKEP (FO) | 227.35 / 12.52 | 2500 | |

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. PROFILE STARTS AT CARDD
3. FAC: 146.85 FAF: KANSY DIST FAF TO MAP: 4.10 THLD: 4.10
4. MIN. ALT: CARDD 3000, KANSY 1600
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: 1600 GS ALT AT: KANSY 1600 OM: MM: IM:
7. GS ANGLE: 3.20 TCH: 58.0 34:1 IS NOT CLEAR
8. MSA FROM: RW15 8900

MAG VAR: 18E 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 |
| LPV DA | 418 | 4000 | 267 | 418 | 4000 | 267 | 418 | 4000 | 267 | 418 | 4000 | 267 | | | |
| LNAV/VNAV DA | 401 | 4000 | 250 | 401 | 4000 | 250 | 401 | 4000 | 250 | 401 | 4000 | 250 | | | |
| LNAV MDA | 500 | 4000 | 349 | 500 | 4000 | 349 | 500 | 4500 | 349 | 500 | 4500 | 349 | | | |
| CIRCLING | 700 | 1 | 549 | 700 | 1 | 549 | 700 | 1 1/2 | 549 | 800 | 2 | 649 | | | |

NOTES:
CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LNAV/VNAV.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -25C (-13F) OR ABOVE 54C (130F).
CHART NOTE: FOR INOPERATIVE ODAL, INCREASE LPV ALL CATS TO VISIBILITY TO RVR 4500, AND LNAV CAT (SEE FORM 8260-10)



| | | | | |
|---------------------------------|---|------------------------------|--|------------------|
| CITY AND STATE ANCHORAGE, AK | ELEVATION: 151 TDZE: 151 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 15, AMDT 2C, 10/15/2015 | SUP: |
| | AIRPORT NAME: TED STEVENS ANCHORAGE INTL | | | AMDT: 2B |
| | | | | DATED 11/13/2014 |

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

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NOTES, (CONT.):

C/D VISIBILITY TO RVR 5500.

CHART NOTE: DME/DME RNP-0.3 NA.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT IVANN ON V440 WESTBOUND AND AT TAGER ON V436 NORTHWEST BOUND.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON BGQ VORTAC ON V436-456 NORTHBOUND.

CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW RVR 4000 NOT AUTHORIZED.

CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE{ANGLE} / TCH {FEET}).



| | | | | |
|--|---|-------------------------------------|---|--------------------------|
| CITY AND STATE ANCHORAGE, AK | ELEVATION: 151 TDZE: 151 AIRPORT NAME: TED STEVENS ANCHORAGE INTL | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 15, AMDT 2C, 10/15/2015 | SUP: |
| | | | | AMDT: 2B |
| | | | | DATED: 11/13/2014 |

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

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

FAS DATA BLOCK INFORMATION

| <u>DATA FIELD</u> | <u>DATA</u> |
|--|---------------|
| OPERATION TYPE | 0 |
| SBAS SERVICE PROVIDER IDENTIFIER | 0 |
| AIRPORT IDENTIFIER | PANC |
| RUNWAY | RW15 |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W15A |
| LTP/FTP LATITUDE | 611158.0700N |
| LTP/FTP LONGITUDE | 1500051.7700W |
| LTP/FTP ELLIPSOIDAL HEIGHT | +00519 |
| FPAP LATITUDE | 611015.7800N |
| FPAP LONGITUDE | 1495954.5300W |
| THRESHOLD CROSSING HEIGHT (TCH) | 00058.0 |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F |
| GLIDEPATH ANGLE (GPA) | 03.20 |
| COURSE WIDTH AT THRESHOLD | 106.75 |
| LENGTH OFFSET | 0000 |
| HORIZONTAL ALERT LIMIT (HAL) | 40.0 |
| VERTICAL ALERT LIMIT (VAL) | 50.0 |

CRC REMAINDER E1C44744

ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|-------------------------|--------|
| ICAO CODE | PA |
| LTP ORTHOMETRIC HEIGHT | +00461 |
| FPAP ORTHOMETRIC HEIGHT | +00461 |



| | | | | | |
|---------------------------------|---|-----------|------------------------------|--|-------------------|
| CITY AND STATE ANCHORAGE, AK | ELEVATION: 151 | TDZE: 151 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 15, AMDT 2C, 10/15/2015 | SUP: |
| | AIRPORT NAME: TED STEVENS ANCHORAGE INTL | | | | AMDT: 2B |
| | | | | | DATED: 11/13/2014 |

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

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ARINC SUMMARY - PANC

ROUTES

| TRANSITION | WPT SEQ | WPT NAME | LEG TYPE | FB/FO | RNP | MAG CRS | REC NAV | ANGLE | TURN DIR | CENTER FIX | TURN RADIUS | ALTITUDE DESCRIPTION & VALUE | SPEED LIMIT DESCRIPTION & VALUE | WPT DESCRIPTION CODE |
|------------|---------|----------|----------|-------|-----|---------|---------|-------|----------|------------|-------------|------------------------------|---------------------------------|----------------------|
| BGQ | 010 | BGQ | IF | FB | | | | | | | | | | V A |
| BGQ | 020 | CARDD | TF | FB | 1.0 | 182.4 | | | | | | AA 03000 | | EE B |
| IVANN | 010 | IVANN | IF | FB | | | | | | | | | | E A |
| IVANN | 020 | CARDD | TF | FB | 1.0 | 073.1 | | | | | | AA 03000 | | EE B |
| TAGER | 010 | TAGER | IF | FB | | | | | | | | | | E A |
| TAGER | 020 | CARDD | TF | FB | 1.0 | 132.6 | | | | | | AA 03000 | | EE B |
| | 010 | CARDD | IF | FB | | | | | | | | AA 03000 | | E I |
| | 020 | KANSY | TF | FB | 0.5 | 146.8 | | | | RW15 | | AA 01600 | | E F |
| | 030 | RW15 | TF | FO | 0.3 | 146.9 | | 3.20 | | | | AT 00209 | | GY M |
| | 040 | | CA | FB | | 146.9 | | | | | | AA 00401 | | M |
| | 050 | ZUXAN | DF | FB | | | | | | | | | | E |
| | 060 | JUKEP | TF | FO | 1.0 | 227.4 | | | | | | AA 02500 | | EY |
| | 070 | JUKEP | HM | FO | | 208.0 | | | R | | | AA 02500 | | EE |

POINTS

| POINT NAME | LATITUDE | LONGITUDE |
|------------|------------|-------------|
| BGQ | N613410.04 | W1495801.72 |
| CARDD | N612241.93 | W1500654.71 |
| IVANN | N612300.21 | W1503425.31 |
| JUKEP | N610001.26 | W1502029.03 |
| KANSY | N611554.60 | W1500304.51 |
| TAGER | N614022.59 | W1502737.46 |
| ZUXAN | N610515.61 | W1495707.08 |

RUNWAYS

| RUNWAY | THRESHOLD LATITUDE | THRESHOLD LONGITUDE | THRESHOLD ELEVATION | PROCEDURE TCH |
|--------|--------------------|---------------------|---------------------|---------------|
| RW15 | N611158.07 | W1500051.77 | 00151 | 58.0 |



| | | | | | |
|--|--|------------------|----------------------|---|--------------------------|
| CITY AND STATE ANCHORAGE, AK | ELEVATION: 151 | TDZE: 151 | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP: |
| | AIRPORT NAME: TED STEVENS ANCHORAGE INTL | | RNAV | RNAV (GPS) RWY 15, AMDT 2C, 10/15/2015 | AMDT: 2B |
| | | | | | DATED: 11/13/2014 |

RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33

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

| TERMINAL ROUTES | | | | MISSED APPROACH |
|-----------------|------------------|---------------------|----------|---|
| FROM | TO | COURSE AND DISTANCE | ALTITUDE | |
| GASTO | CEYAB (FB) | 040.80 / 16.77 | 2000 | LPV: DA LNAV/VNAV: DA LNAV: RW07R |
| IVANN | ECIKI (FB) | 162.52 / 7.77 | 3600 | |
| CEYAB (IAF) | WEWWO (FB) | 026.38 / 6.70 | 2000 | CLIMB TO 900 THEN CLIMBING RIGHT TURN TO 3000 DIRECT JUKEP AND HOLD. |
| ECIKI (IAF) | WEWWO (FB) | 116.41 / 7.50 | 2000 | |
| WEWWO (IF) | TULLI (FB) | 071.55 / 5.70 | 1600 | |
| TULLI (FAF) | RW07R (MAP) (FO) | 071.72 / 4.44 | | ADDITIONAL FLIGHT DATA: HOLD NE, RT, 208.00 INBOUND. CHART FAS OBST: 356 POLE 610933N/1500202W DISTANCE TO THLD FROM 200 HAT: 0.46 NM. CHART VDP AT 1.38 MILES TO RW07R* *LNAV ONLY. WAAS CHANNEL # 81815 REFERENCE PATH ID: W07A CHART CIRCLING ICON. LTP HAE: 46.1 M |
| RW07R (MAP) | 900 MSL | 071.72 | 900 | |
| 900 MSL | JUKEP (FO) | | 3000 | |

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. PROFILE STARTS AT WEWWO
3. FAC: 071.72 FAF: TULLI DIST FAF TO MAP: 4.44 THLD: 4.44
4. MIN. ALT: WEWWO 2000, TULLI 1600
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: 1600 GS ALT AT: TULLI 1600 OM: MM: IM:
7. GS ANGLE: 3.00 TCH: 54.8 34:1 IS CLEAR
8. MSA FROM: RW07R 8800

MAG VAR: 18E 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 |
| LPV DA | 332 | 2400 | 200 | 332 | 2400 | 200 | 332 | 2400 | 200 | 332 | 2400 | 200 | | | |
| LNAV/VNAV DA | 660 | 1 3/8 | 528 | 660 | 1 3/8 | 528 | 660 | 1 3/8 | 528 | 660 | 1 3/8 | 528 | | | |
| LNAV MDA | 640 | 2400 | 508 | 640 | 2400 | 508 | 640 | 5500 | 508 | 640 | 5500 | 508 | | | |
| CIRCLING | 740 | 1 | 589 | 740 | 1 | 589 | 740 | 1 1/2 | 589 | 800 | 2 | 649 | | | |
| | | | | | | | | | | | | | | | |

NOTES:
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -24C (-11F) OR ABOVE 43C (109F).
CHART NOTE: DME/DME RNP-0.3 NA.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT IVANN ON V440 WESTBOUND AND ARRIVALS AT GASTO ON (SEE FORM 8260-10)



| | | | | |
|---------------------------------|---|------------------------------|--|--------------------------------------|
| CITY AND STATE ANCHORAGE, AK | ELEVATION: 151 TDZE: 132 AIRPORT NAME: TED STEVENS ANCHORAGE INTL | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 7R, AMDT 4C 10/15/2015 | SUP: AMDT: 4B DATED 01/08/2015 |
|---------------------------------|---|------------------------------|--|--------------------------------------|

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

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

NOTES, (CONT.):

V462 SOUTHWEST BOUND.

CHART NOTE: FOR INOPERATIVE ALSF, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO 1 3/4 MILE, AND LNAV CAT C AND D VISIBILITY TO 1 3/8 MILE.

CHART NOTE: NIGHT LANDING: RWY 25 OPERATIONAL VGSI REQUIRED, REMAIN ON OR ABOVE VGSI GLIDEPATH UNTIL THRESHOLD.

CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).



| | | | | | |
|--|--|-----------|-------------------------------------|--|--------------------------|
| CITY AND STATE ANCHORAGE, AK | ELEVATION: 151 AIRPORT NAME: TED STEVENS ANCHORAGE INTL | TDZE: 132 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 7R, AMDT 4C 10/15/2015 | SUP: |
| | | | | | AMDT: 4B |
| | | | | | DATED: 01/08/2015 |

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

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

FAS DATA BLOCK INFORMATION

| <u>DATA FIELD</u> | <u>DATA</u> |
|--|---------------|
| OPERATION TYPE | 0 |
| SBAS SERVICE PROVIDER IDENTIFIER | 0 |
| AIRPORT IDENTIFIER | PANC |
| RUNWAY | RW07R |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | Y |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W07A |
| LTP/FTP LATITUDE | 611004.1215N |
| LTP/FTP LONGITUDE | 1500234.3365W |
| LTP/FTP ELLIPSOIDAL HEIGHT | +00461 |
| FPAP LATITUDE | 611004.3720N |
| FPAP LONGITUDE | 1495821.5350W |
| THRESHOLD CROSSING HEIGHT (TCH) | 00054.8 |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F |
| GLIDEPATH ANGLE (GPA) | 03.00 |
| COURSE WIDTH AT THRESHOLD | 107.00 |
| LENGTH OFFSET | 0000 |
| HORIZONTAL ALERT LIMIT (HAL) | 40.0 |
| VERTICAL ALERT LIMIT (VAL) | 35.0 |

CRC REMAINDER 4FD27ED7

ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|-------------------------|--------|
| ICAO CODE | PA |
| LTP ORTHOMETRIC HEIGHT | +00401 |
| FPAP ORTHOMETRIC HEIGHT | +00401 |



| | | | | | |
|---------------------------------|---|-----------|------------------------------|--|-------------------|
| CITY AND STATE ANCHORAGE, AK | ELEVATION: 151 | TDZE: 132 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 7R, AMDT 4C 10/15/2015 | SUP: |
| | AIRPORT NAME: TED STEVENS ANCHORAGE INTL | | | | AMDT: 4B |
| | | | | | DATED: 01/08/2015 |

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

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

ARINC SUMMARY - 424-18 - RNAV (GPS)

| ROUTES | TRANSITION | FIX | SEQ | USE | PATH | TURN | FO/FB | RNP | MAG (TRUE) | DISTANCE | ALTITUDE | SPEED |
|--------|------------|-------|-----|------|------|------|-------|-----|----------------|----------|----------|-------|
| | GASTO | GASTO | 010 | | IF | | FB | | | | | |
| | GASTO | CEYAB | 020 | IAF | TF | | FB | 2.0 | 040.8 (058.8T) | 016.8 | AA 02000 | |
| | GASTO | WEWWO | 030 | | TF | | FB | 1.0 | 026.4 (044.4T) | 006.7 | AA 02000 | |
| | IVANN | IVANN | 010 | | IF | | FB | | | | | |
| | IVANN | ECIKI | 020 | IAF | TF | | FB | 2.0 | 162.5 (180.5T) | 007.8 | AA 03600 | |
| | IVANN | WEWWO | 030 | | TF | | FB | 1.0 | 116.4 (134.4T) | 007.5 | AA 02000 | |
| | | WEWWO | 010 | FACF | IF | | FB | | | | AA 02000 | |
| | | TULLI | 020 | FAF | TF | | FB | 0.5 | 071.6 (089.6T) | 005.7 | AA 01600 | |
| | | RW07R | 030 | MAP | TF | | FO | 0.3 | 071.7 (089.7T) | 004.4 | AT 00187 | |

| MISSED APPROACH | FIX | SEQ | USE | PATH | TURN | FO/FB | RNP | MAG (TRUE) | DISTANCE | ALTITUDE | SPEED |
|-----------------|-------|-----|-----|------|------|-------|-----|----------------|----------|----------|-------|
| | | 040 | | CA | | FB | | 071.7 (089.7T) | | AA 00900 | |
| | JUKEP | 050 | | DF | R | FO | | | | AA 03000 | |
| | JUKEP | 060 | | HM | R | FO | | 208.0 (226.0T) | 004.0 | AA 03000 | |

| POINT DATA | WAYPOINT | LAT IN SECS | LONG IN SECS | LAT IN MINS | LONG IN MINS |
|------------|----------|-------------|--------------|-------------|--------------|
| | CEYAB | N610514.90 | W1503310.94 | N6105.248 | W15033.182 |
| | ECIKI | N611515.28 | W1503434.08 | N6115.255 | W15034.568 |
| | GASTO | N605638.36 | W1510243.16 | N6056.639 | W15102.719 |
| | IVANN | N612300.21 | W1503425.31 | N6123.004 | W15034.422 |
| | JUKEP | N610001.26 | W1502029.03 | N6100.021 | W15020.484 |
| | TULLI | N611003.11 | W1501144.06 | N6110.052 | W15011.734 |
| | WEWWO | N611000.93 | W1502330.68 | N6110.016 | W15023.511 |
| | RW07R | N611004.12 | W1500234.34 | N6110.069 | W15002.572 |

| RUNWAY DATA | RWY | THRESHOLD ELEVATION | TCH |
|-------------|-------|---------------------|-----|
| | RW07R | 00132 | 55 |



| | | | | |
|--|--|-------------------------------------|--|--------------------------|
| CITY AND STATE ANCHORAGE, AK | ELEVATION: 151 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) Y RWY 7R, AMDT 4C 10/15/2015 | SUP: |
| | AIRPORT NAME: TED STEVENS ANCHORAGE INTL | | | AMDT: 4B |
| | | | | DATED: 01/08/2015 |

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

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

TERMINAL ROUTES, (CONT.):

| <u>FROM</u> | <u>TO</u> | <u>COURSE AND DISTANCE</u> | <u>ALTITUDE</u> |
|-------------|---------------------------------|-----------------------------------|-----------------|
| JEMOT | CAMLO (RF) (FB) (RNP 1.00) | (2.22 NM RADIUS CCW (CFGNX))/3.06 | 2200 |
| WOLAK (IAF) | CAMLO (TF) (FB) (RNP 1.00) | 065.26 / 6.00 | 2200 |
| CAMLO | HURKI (RF) (FB) (RNP 1.00) | (2.11 NM RADIUS CCW (CFQGG))/3.63 | 2200 |
| HURKI (IF) | FOXON (TF) (FB) (RNP 0.50) | 326.94 / 3.04 | 1200 |
| FOXON (FAF) | RW33 (MAP) (TF) (FO) | 326.91 / 3.11 | |
| RW33 (MAP) | MURRS (TF) (FB) (RNP 1.00) | 326.89 / 7.2 | |
| MURRS (TF) | BGQ VORTAC (TF) (FO) (RNP 1.00) | 351.27 / 17.21 | 4000 |

NOTES, (CONT.):

CHART SPEED ICON IN PLANVIEW AT SULNE: MAX 210 KIAS
 CHART SPEED ICON IN PLANVIEW AT JEMOT: MAX 210 KIAS
 CHART SPEED ICON IN PLANVIEW AT CAMLO: MAX 210 KIAS
 CHART NOTE: RF REQUIRED
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT HOPER ON V320-440
 CHART NOTE: RADAR REQUIRED



| | | | | | |
|--|--|-----------|-------------------------------------|---|--------------------------|
| CITY AND STATE ANCHORAGE, AK | ELEVATION: 151 AIRPORT NAME: TED STEVENS ANCHORAGE INTL | TDZE: 121 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (RNP) RWY 33, ORIG-A 10/15/2015 | SUP: |
| | | | | | AMDT: ORIG |
| | | | | | DATED: 01/08/2015 |

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

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

ARINC SUMMARY - 424-18 - RNAV (RNP)

| ROUTES | TRANSITION | FIX | SEQ | USE | PATH | TURN | FO/FB | RNP | MAG (TRUE) | DISTANCE | ALTITUDE | SPEED |
|--------|------------|-------|-----|------|------|------|-------|-----|------------|----------|----------|--------|
| | HOPER | HOPER | 010 | IAF | IF | | FB | | | | AT 08000 | |
| | HOPER | TAVUE | 020 | | TF | | FB | 1.0 | | | AA 06800 | |
| | HOPER | SULNE | 030 | | TF | | FB | 1.0 | | | AA 05500 | AB 210 |
| | HOPER | JULIN | 040 | | RF | L | FB | 1.0 | | 004.5 | AA 04000 | |
| | HOPER | JEMOT | 050 | | RF | L | FB | 1.0 | | 003.0 | AA 03000 | AB 210 |
| | HOPER | CAMLO | 060 | | RF | L | FB | 1.0 | | 003.1 | AA 02200 | AB 210 |
| | HOPER | HURKI | 070 | | RF | L | FB | 1.0 | | 003.6 | AA 02200 | |
| | WOLAK | WOLAK | 010 | IAF | IF | | FB | | | | | |
| | WOLAK | CAMLO | 020 | | TF | | FB | 1.0 | | | AA 02200 | AB 210 |
| | WOLAK | HURKI | 030 | | RF | L | FB | 1.0 | | 003.6 | AA 02200 | |
| | ZIREN | ZIREN | 010 | IAF | IF | | FB | | | | AT 03000 | |
| | ZIREN | JEMOT | 020 | | TF | | FB | 1.0 | | | AA 03000 | AB 210 |
| | ZIREN | CAMLO | 030 | | RF | L | FB | 1.0 | | 003.1 | AA 02200 | AB 210 |
| | ZIREN | HURKI | 040 | | RF | L | FB | 1.0 | | 003.6 | AA 02200 | |
| | | HURKI | 010 | FACF | IF | | FB | | | | AA 02200 | |
| | | FOXON | 020 | FAF | TF | | FB | 0.5 | | | AA 01200 | |
| | | RW33 | 030 | MAP | TF | | FO | 0.3 | | | AT 00176 | |

| MISSED APPROACH | FIX | SEQ | USE | PATH | TURN | FO/FB | RNP | MAG (TRUE) | DISTANCE | ALTITUDE | SPEED |
|-----------------|-------|-----|-----|------|------|-------|-----|----------------|----------|----------|-------|
| | MURRS | 040 | | TF | | FB | 1.0 | | | | |
| | BGQ | 050 | | TF | | FO | 1.0 | | | AA 04000 | |
| | BGQ | 060 | | HM | R | FO | | 168.0 (186.0T) | 004.0 | AA 04000 | |

| POINT DATA | WAYPOINT | LAT IN SECS | LONG IN SECS | LAT IN MINS | LONG IN MINS |
|------------|----------|-------------|--------------|-------------|--------------|
| | BGQ | N613410.04 | W1495801.72 | N6134.167 | W14958.029 |
| | HOPER | N610010.11 | W1494422.60 | N6100.169 | W14944.377 |
| | CAMLO | N610144.69 | W1500019.68 | N6101.745 | W15000.328 |
| | CFCZD | N610358.65 | W1500038.09 | N6103.978 | W15000.635 |
| | CFGNX | N610356.65 | W1500051.03 | N6103.944 | W15000.851 |
| | CFQGG | N610350.11 | W1500049.48 | N6103.835 | W15000.825 |
| | CFWDD | N610313.26 | W1495936.05 | N6103.221 | W14959.601 |
| | FOXON | N610718.54 | W1495815.59 | N6107.309 | W14958.260 |
| | HURKI | N610422.99 | W1495637.91 | N6104.383 | W14956.632 |
| | JEMOT | N610316.16 | W1500512.06 | N6103.269 | W15005.201 |
| | JULIN | N610554.84 | W1500317.18 | N6105.914 | W15003.286 |
| | MURRS | N611714.14 | W1500349.34 | N6117.236 | W15003.822 |
| | SULNE | N610527.38 | W1495447.11 | N6105.456 | W14954.785 |
| | TAVUE | N610234.34 | W1494905.88 | N6102.572 | W14949.098 |
| | WOLAK | N610103.08 | W1501234.57 | N6101.051 | W15012.576 |
| | ZIREN | N610857.96 | W1500858.87 | N6108.966 | W15008.981 |



| | | | | | |
|--|--|------------------|----------------------|--|--------------------------|
| CITY AND STATE ANCHORAGE, AK | ELEVATION: 151 | TDZE: 121 | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP: |
| | AIRPORT NAME: TED STEVENS ANCHORAGE INTL | | RNAV | RNAV (RNP) RWY 33, ORIG-A | AMDT: ORIG |
| | | | | 10/15/2015 | DATED: 01/08/2015 |

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

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

| | | | | | |
|-------------|------|------------------------|-------------|-----------|------------|
| RUNWAY DATA | RW33 | N611018.13 | W1495955.94 | N6110.302 | W14959.932 |
| | RWY | THRESHOLD ELEVATION | TCH | | |
| | RW33 | 00121 | 55 | | |



| | | | | | |
|--|--|------------------|---|--|--------------------------|
| CITY AND STATE ANCHORAGE, AK | ELEVATION: 151 | TDZE: 121 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (RNP) RWY 33, ORIG-A | SUP: |
| | AIRPORT NAME: TED STEVENS ANCHORAGE INTL | | | 10/15/2015 | AMDT: ORIG |
| | | | | | DATED: 01/08/2015 |

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
**RNAV (RNP) - STANDARD,
 INSTRUMENT APPROACH PROCEDURE, - TITLE 14 CFR PART 97.33**

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

TERMINAL ROUTES, (CONT.):

| FROM | TO | COURSE AND DISTANCE | ALTITUDE |
|-------------|----------------------------|------------------------------------|----------|
| MUFFS (IF) | EROME (TF) (FB) (RNP 1.00) | 122.01 / 4.26 | 2000 |
| EROME | TULLI (RF) (FB) (RNP 1.00) | (2.3 NM RADIUS CCW (CFJZF))/2.02 | 1600 |
| LITHE (IF) | TULLI (TF) (FB) (RNP 1.00) | 071.44 / 6.00 | 1600 |
| TULLI (FAF) | RW07R (MAP) (TF) (FB) | 071.71 / 4.44 | |
| RW07R (MAP) | PACHA (TF) (FB) (RNP 0.30) | 071.85 / 1.00 | |
| PACHA (TF) | MOGGY (TF) (FB) (RNP 0.50) | 071.88 / 1.37 | |
| MOGGY (TF) | AROTE (RF) (FB) (RNP 1.00) | (2.50 NM RADIUS CW (CFCPC)) / 6.83 | |
| AROTE (RF) | JUKEP (TF) (FO) (RNP 1.00) | 228.56 / 13.19 | 3000 |

NOTES, (CONT.):

CHART PROFILE NOTE: VGS1 AND RNAV GLIDEPATH NOT COINCIDENT (VGS1 ANGLE {ANGLE}/TCH {FEET}).
 CHART SPEED ICON IN PLANVIEW AT EROME: MAX 220 KIAS
 CHART SPEED ICON IN PLANVIEW AT CENIX: MAX 230 KIAS
 CHART PLANVIEW NOTE AT MOGGY: MAX 230 KIAS UNTIL AROTE
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT HOPER ON V320-440
 CHART NOTE: RF REQUIRED
 CHART NOTE: FOR INOPERATIVE ALSF, INCREASE RNP 0.30 ALL CATS VISIBILITY TO 1 3/8.
 CHART NOTE: MISSED APPROACH REQUIRES RNP LESS THAN 1.0; IF UNABLE SEE RNAV (GPS) Y RWY 7R
 CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS



| | | | | |
|---------------------------------|---|------------------------------|--|-------------------|
| CITY AND STATE ANCHORAGE, AK | ELEVATION: 151 TDZE: 132 AIRPORT NAME: TED STEVENS ANCHORAGE INTL | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (RNP) Z RWY 7R, ORIG-A, 10/15/2015 | SUP: |
| | | | | AMDT: ORIG |
| | | | | DATED: 01/08/2015 |

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

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ARINC SUMMARY - 424-18 - RNAV (RNP)

| ROUTES | TRANSITION | FIX | SEQ | USE | PATH | TURN | FO/FB | RNP | MAG (TRUE) | DISTANCE | ALTITUDE | SPEED |
|--------|------------|-------|-----|-----|------|------|-------|-----|------------|----------|----------|--------|
| | ELIAS | ELIAS | 010 | IAF | IF | | FB | | | | AT 02000 | |
| | ELIAS | LITHE | 020 | | TF | | FB | 1.0 | | | AA 02000 | |
| | ELIAS | TULLI | 030 | | TF | | FB | 1.0 | | | AA 01600 | |
| | HOPER | HOPER | 010 | IAF | IF | | FB | | | | AT 08000 | |
| | HOPER | WESOL | 020 | | TF | | FB | 1.0 | | | AA 05000 | |
| | HOPER | NURDS | 030 | | TF | | FB | 1.0 | | | AA 05000 | |
| | HOPER | CENIX | 040 | | TF | | FB | 1.0 | | | AA 04000 | AB 230 |
| | HOPER | TULLI | 050 | | RF | R | FB | 1.0 | | 007.8 | AA 01600 | |
| | MUFFS | MUFFS | 010 | | IF | | FB | | | | | |
| | MUFFS | EROME | 020 | | TF | | FB | 1.0 | | | AA 02000 | AB 220 |
| | MUFFS | TULLI | 030 | | RF | L | FB | 1.0 | | 002.0 | AA 01600 | |
| | | TULLI | 020 | FAF | IF | | FB | | | | AA 01600 | |
| | | RW07R | 030 | MAP | TF | | FB | 0.3 | | | AT 00187 | |

| MISSED APPROACH | FIX | SEQ | USE | PATH | TURN | FO/FB | RNP | MAG (TRUE) | DISTANCE | ALTITUDE | SPEED |
|-----------------|-------|-----|-----|------|------|-------|-----|----------------|----------|----------|--------|
| | PACHA | 040 | | TF | | FB | 0.3 | | | | |
| | MOGGY | 050 | | TF | | FB | 0.5 | | | | |
| | AROTE | 060 | | RF | R | FB | 1.0 | | 006.8 | | AB 230 |
| | JUKEP | 070 | | TF | | FO | 1.0 | | | AA 03000 | |
| | JUKEP | 080 | | HM | R | FO | | 208.0 (226.0T) | 004.0 | AA 03000 | |

| POINT DATA | WAYPOINT | LAT IN SECS | LONG IN SECS | LAT IN MINS | LONG IN MINS |
|------------|----------|-------------|--------------|-------------|--------------|
| | HOPER | N610010.11 | W1494422.60 | N6100.169 | W14944.377 |
| | AROTE | N610517.60 | W1495537.32 | N6105.293 | W14955.622 |
| | CENIX | N610441.75 | W1501325.28 | N6104.696 | W15013.421 |
| | CFPCP | N610734.82 | W1495740.35 | N6107.580 | W14957.673 |
| | CFJZF | N611220.72 | W1501145.50 | N6112.345 | W15011.758 |
| | CFZGD | N610718.57 | W1501142.39 | N6107.310 | W15011.707 |
| | ELIAS | N610956.19 | W1503624.86 | N6109.937 | W15036.414 |
| | EROME | N611052.48 | W1501524.31 | N6110.875 | W15015.405 |
| | JUKEP | N610001.26 | W1502029.03 | N6100.021 | W15020.484 |
| | LITHE | N611000.20 | W1502407.29 | N6110.003 | W15024.122 |
| | MOGGY | N611004.40 | W1495740.76 | N6110.073 | W14957.679 |
| | MUFFS | N611408.08 | W1502103.96 | N6114.135 | W15021.066 |
| | NURDS | N610344.60 | W1500714.59 | N6103.743 | W15007.243 |
| | PACHA | N611004.26 | W1500030.46 | N6110.071 | W15000.508 |
| | TULLI | N611003.11 | W1501144.06 | N6110.052 | W15011.734 |
| | WESOL | N610247.17 | W1500104.27 | N6102.786 | W15001.071 |
| | RW07R | N611004.12 | W1500234.34 | N6110.069 | W15002.572 |



| | | | | |
|--|--|---|--|------|
| CITY AND STATE ANCHORAGE, AK | ELEVATION: 151 TDZE: 132 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (RNP) Z RWY 7R, ORIG-A, 10/15/2015 | SUP: |
| | AIRPORT NAME: TED STEVENS ANCHORAGE INTL | | AMDT: ORIG | |
| | | | DATED: 01/08/2015 | |

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

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| | | | |
|-------------|-------|-----------|-----|
| RUNWAY DATA | | THRESHOLD | |
| | RWY | ELEVATION | TCH |
| | RW07R | 00132 | 55 |



| | | | | | |
|--|--|------------------|---|--|--------------------------|
| CITY AND STATE ANCHORAGE, AK | ELEVATION: 151 | TDZE: 132 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (RNP) Z RWY 7R, ORIG-A, 10/15/2015 | SUP: |
| | AIRPORT NAME: TED STEVENS ANCHORAGE INTL | | | | AMDT: ORIG |
| | | | | | DATED: 01/08/2015 |

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
GPS OR NDB STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.27

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

TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE |
|------|----|---------------------|----------|
| | | | |
| | | | |
| | | | |

| |
|--|
| |
| |
| |
| |

ADDITIONAL FLIGHT DATA:

1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)
 2. _____
 3. FAC _____ FAF _____ DIST FAF TO MAP _____ THLD _____
 4. MIN. ALT _____
 8. MSA FROM: _____

MAG VAR: _____ EPOCH YEAR: _____

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

ALTERNATE: N A

| CATEGORY =====> | A | | | B | | | C | | | D | | | E | | |
|-----------------|-----|-----|---------|-----|-----|---------|-----|-----|---------|-----|-----|---------|-----|-----|---------|
| | MDA | VIS | HAT/HAA | MDA | VIS | HAT/HAA | MDA | VIS | HAT/HAA | MDA | VIS | HAT/HAA | MDA | VIS | HAT/HAA |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

NOTES:

 PROCEDURE CANCELED EFFECTIVE 15 OCTOBER 2015

| | | | | | |
|-------------------------------|-----------------|---------------------------|-----------------------------|---|-----------------|
| CITY AND STATE NOGALES, AZ | ELEVATION: 3955 | TDZE: NOGALES INTL | FACILITY IDENTIFIER: ENZ | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: NDB OR GPS-C, AMDT 2C, 05/29/2014 | SUP |
| | AIRPORT NAME: | | | | 4 |
| | | | | | CHECKED |
| | | | | | DATE 12/22/2005 |

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

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

| City, State | Airport | Effective Date | Amdt. No. |
|---------------|------------------------------------|-----------------|-----------|
| HAWTHORNE, CA | JACK NORTHROP FIELD/HAWTHORNE MUNI | 15 OCTOBER 2015 | 4 |

TAKEOFF MINIMUMS:

RWY 7: 300-1 3/4 OR STANDARD WITH MINIMUM CLIMB OF 363 FEET TO 500.
RWY 25: 400-3 OR STANDARD WITH MINIMUM CLIMB OF 285 FEET TO 600.

TEXTUAL DEPARTURE PROCEDURES:

RWY 7 - CLIMBING RIGHT TURN TO 3000 HEADING 220.00 AND THE LAX VORTAC R-170 TO LIMBO INT.
RWY 25 – CLIMBING LEFT TURN TO 3000 HEADING 205.00 AND THE LAX VORTAC R-170 TO LIMBO INT.

VISUAL CLIMB OVER AIRPORT:

NA.

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 7: TREE 115 FEET FROM DER, 95 FEET RIGHT OF CENTERLINE, 32 FEET AGL/77 FEET MSL. TREE 5378 FT FROM DER, 483 FT RIGHT OF CENTERLINE, 90 FEET AGL/245 FEET MSL, TREES BEGINNING 4062 FEET FROM DER, 293 FEET RIGHT OF CENTERLINE, UP TO 86 FEET AGL/210 FEET MSL. TREE 4984 FEET FROM DER, 763 FEET RIGHT OF CENTERLINE, 81 FEET AGL/220 FEET MSL. TREE 5163 FEET FROM DER, 90 FEET RIGHT OF CENTERLINE, 59 FEET AGL/218 FEET MSL. TREE 2967 FEET FROM DER, 840 FEET RIGHT OF CENTERLINE, 78 FEET AGL/157 FEET MSL. POLE 1.0 NM FROM DER, 397 FEET RIGHT OF CENTERLINE, 58 FEET AGL/237 FEET MSL. POLE 3187 FEET FROM DER, 172 FEET RIGHT OF CENTERLINE, 62 FEET AGL/160 FEET MSL. POLE 2794 FEET FROM DER, 322 FEET RIGHT OF CENTERLINE, 61 FEET AGL/148 FEET MSL. POLE 1484 FEET FROM DER, 636 FEET RIGHT OF CENTERLINE, 41 FEET AGL/111 FEET MSL. SIGN 73 FEET FROM DER, 405 FEET RIGHT OF CENTERLINE, 38 FEET AGL/94 FEET MSL. T –L TOWER BEGINNING 5428 FEET FROM DER, 855 FEET LEFT OF CENTERLINE, 132 FEET AGL/307 FEET MSL. T –L TWR 5829 FEET FROM DER, 466 FEET LEFT OF CENTERLINE, 130 FEET AGL/273 FEET MSL. T –L TWR 1.2 NM FROM DER, 685 FEET LEFT OF CENTERLINE, 124 FEET AGL/282 FEET MSL. T –L TWR 1.3 NM FROM DER, 205 FEET LEFT OF CENTERLINE, 112 FEET AGL/296 FEET MSL. BLDG 1130 FEET FROM DER, 404 FEET LEFT OF CENTERLINE, 38 FEET AGL/105 FEET MSL. BLDG 1.1 NM FROM DER, 2020 FEET LEFT OF CENTERLINE, 76 FEET AGL/305 FEET MSL. BLDG 5081 FEET FROM DER, 45 FEET LEFT OF CENTERLINE, 69 FEET AGL/228 FEET MSL. BLDG 5284 FEET FROM DER, 94 FEET LEFT OF CENTERLINE, 69 FEET AGL/230 FEET MSL. BLDG 1130 FEET FROM DER, 405 FEET LEFT OF CENTERLINE, 38 FEET AGL/105 MSL. MONUMENT 1.3 NM FROM DER, 2258 FEET LEFT OF CENTERLINE, 121 FEET AGL/327 FEET MSL. TOWER 1.3 NM FROM DER, 1711 FEET LEFT OF CENTERLINE, 115 FEET AGL/322 FEET MSL. TOWERS BEGINNING 1.3 NM FROM DER, 1673 FEET LEFT OF CENTERLINE, UP TO 83 FEET AGL/285 FEET MSL. TREE 5054 FEET FROM DER, 1002 FEET LEFT OF CENTERLINE, 67 FEET AGL/241 MSL. TREES BEGINNING 2866 FEET FROM DER, 56 FEET LEFT OF CENTERLINE, UP TO 67 FEET AGL/170 FEET MSL. POLES BEGINNING 263 FEET FROM DER, 119 FEET LEFT OF CENTERLINE, 37 FEET AGL/93 FEET MSL. POLES BEGINNING 1401 FEET FROM DER, 168 FEET LEFT OF CENTERLINE, UP TO 62 FEET AGL/130 FEET MSL. NOTE: RWY 25: TREE 988 FEET FROM DER, 162 FEET RIGHT OF CENTERLINE, 71 FEET AGL/136 FEET MSL. POLES BEGINNING 309 FEET FROM DER, 202 FEET RIGHT OF CENTERLINE, UP TO 77 FEET AGL/149 FEET MSL. NAVAID 6 FEET FROM DER, ON CENTERLINE, 8 FEET AGL/73 FEET MSL. TANK 4471 FEET FROM DER, 1311 FEET LEFT OF CENTERLINE, 137 FEET AGL/227 FEET MSL. TREES BEGINNING 383 FEET FROM DER, 91 FEET LEFT OF CENTERLINE, UP TO 61 FEET AGL/122 FEET MSL. POLE BEGINNING 91 FEET FROM DER, 257 FEET LEFT OF CENTERLINE, UP TO 51 FEET AGL/118 FEET MSL. SIGN 219 FEET FROM DER, 75 FEET LEFT OF CENTERLINE, 23 FEET AGL/88 FEET MSL. BLDG 286 FEET FROM DER, 363 FEET LEFT OF CENTERLINE, 36 FEET AGL/101 FEET MSL. BLDG 2357 FEET FROM DER, 147 FEET LEFT OF CENTERLINE 83 FEET AGL/154 FEET MSL. BLDG 2.6 NM FROM DER, 290 FEET LEFT OF CENTERLINE, 353 FEET AGL/462 FEET MSL.

CONTROLLING OBSTACLES:

RWY 7: 307 FEET MSL T –L TWR 335535.09N/1181833.59W (CLIMB GRADIENT) 327 FEET MSL MONUMENT 335550.20N/1181808.14W (CLIMB-TO-ALTITUDE)
RWY 25: 227 FEET MSL TANK 335505.37N-1182128.12W (CLIMB GRADIENT) 462 FEET MSL BLDG 335509.04N/1182343.47W (CLIMB-TO-ALTITUDE)

OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: 10246 FEET MSL AAO 341712.00N/1173918.00W.

REMARKS:



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

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

| City, State | Airport | Effective Date | Amdt. No. |
|---------------|------------------------------------|-----------------|-----------|
| HAWTHORNE, CA | JACK NORTHROP FIELD/HAWTHORNE MUNI | 15 OCTOBER 2015 | 4 |

FLIGHT INSPECTED BY:

TONY BAMSEY

Digitally signed by
FICO **LONNIE EVERHART** 07/09/2015
Jul 13, 2015

REQUIRED EFFECTIVE DATE:

ROUTINE

DEVELOPED BY:

RONALD O. SALPINO

Digitally signed by
AJV 543 **LONNIE EVERHART** 27 APR 2015
Jul 13, 2015

APPROVED BY:

JILL OLSON

Digitally signed by
LONNIE EVERHART, AJV 543
Jul 13, 2015

COORDINATED WITH:

ATA, AOPA, APA, ALPA, NBAA, ZLA, SOCAL APP CON, WESTERN FPT, AMGR

CHANGES:

1. LOWERED RWY 7 VISIBILITY FROM 2 SM TO 1 3/4.
2. CHANGED RWY 7 HEADING FROM 240 TO 220 AND RWY 25 HEADING FROM 210 TO 205.
3. UPDATED TAKEOFF OBSTACLES.
4. RAISED RWY 25 TAKEOFF MINIMUMS FROM 200-1 TO 400-3.
5. LOWERED RWY 25 CLIMB GRADIENT FROM 289 FT PER NM TO 285.

REASONS:

1. OBSTACLE DISTANCE FROM DER ROUNDED TO NEXT HIGHER VISIBILITY VALUE IS 1 3/4.
2. ATC REQUESTED TO AVOID LAX MISSED APPROACH CORRIDOR.
3. OBSTACLE DATA BASE UPDATED.
4. OBSTACLE (06-001350) LOCATED 2.6 NM PENETRATES THE 40:1 OIS.
5. OBSTACLE HEIGHT/LOCATION WAS UPDATED IN THE OBSTACLE DATA BASE.



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

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

TERMINAL ROUTES, (CONT.):

| FROM | TO | COURSE AND DISTANCE | ALTITUDE |
|-------------|-----------------------|---------------------|----------|
| RW08R (MAP) | 397 MSL (CA) | 092.35 | |
| 397 MSL | EWKIF (DF) (FB) | | |
| EWKIF | VKZ VOR/DME (TF) (FO) | 126.60 / 5.83 | 3000 |

NOTES, (CONT.):

CHART NOTE: *MISSED APPROACH REQUIRES MINIMUM CLIMB OF 330 FEET PER NM TO 600.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT WORPP ON V529 NORTHWEST BOUND, V35 WESTBOUND.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT FOGSO ON V157 WESTBOUND.

CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE} TCH {FEET}).



| | | | | | |
|-----------------------------|-----------------------------|---------|------------------------------|---|-------------------|
| CITY AND STATE MIAMI, FL | ELEVATION: 9 | TDZE: 8 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (RNP) Y RWY 8R, ORIG-B 15 OCTOBER 2015 | SUP: |
| | AIRPORT NAME: MIAMI INTL | | | | AMDT: ORIG-A |
| | | | | | DATED: 06/30/2011 |

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

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

ARINC SUMMARY - 424-18 - RNAV (RNP)

| ROUTES | TRANSITION | FIX | SEQ | USE | PATH | TURN | FO/FB | RNP | MAG (TRUE) | DISTANCE | ALTITUDE | SPEED |
|--------|------------|-------|-----|------|------|------|-------|-----|------------|----------|----------|-------|
| | FOGSO | FOGSO | 010 | IAF | IF | | FB | | | | | |
| | FOGSO | KROME | 020 | | TF | | FB | 1.0 | | | AT 03000 | |
| | FOGSO | COPRA | 030 | | TF | | FB | 1.0 | | | AA 03000 | |
| | WORPP | WORPP | 010 | IAF | IF | | FB | | | | | |
| | WORPP | KROME | 020 | | TF | | FB | 1.0 | | | AT 03000 | |
| | WORPP | COPRA | 030 | | TF | | FB | 1.0 | | | AA 03000 | |
| | | COPRA | 010 | FACF | IF | | FB | | | | AA 03000 | |
| | | LAWNN | 020 | FAF | TF | | FB | 1.0 | | | AA 01500 | |
| | | RW08R | 030 | MAP | TF | | FO | 0.3 | | | AT 00059 | |

| MISSED APPROACH | FIX | SEQ | USE | PATH | TURN | FO/FB | RNP | MAG (TRUE) | DISTANCE | ALTITUDE | SPEED |
|-----------------|-------|-----|-----|------|------|-------|-----|----------------|----------|----------|-------|
| | | 040 | | CA | | FB | | 092.4 (087.4T) | | AA 00397 | |
| | EWKIF | 050 | | DF | | FB | | | | | |
| | VKZ | 060 | | TF | | FO | 1.0 | | | AA 03000 | |
| | VKZ | 070 | | HM | L | FO | | 300.0 (295.0T) | 004.0 | AA 03000 | |

| POINT DATA | WAYPOINT | LAT IN SECS | LONG IN SECS | LAT IN MINS | LONG IN MINS |
|------------|----------|-------------|--------------|-------------|--------------|
| | VKZ | N254506.84 | W0800915.99 | N2545.114 | W08009.267 |
| | FOGSO | N253749.12 | W0804412.13 | N2537.819 | W08044.202 |
| | WORPP | N255336.69 | W0805826.87 | N2553.612 | W08058.448 |
| | COPRA | N254736.91 | W0802814.88 | N2547.615 | W08028.248 |
| | EWKIF | N254810.74 | W0801445.91 | N2548.179 | W08014.765 |
| | KROME | N254725.53 | W0803240.40 | N2547.426 | W08032.673 |
| | LAWNN | N254750.14 | W0802302.07 | N2547.836 | W08023.035 |
| | RW08R | N254802.52 | W0801805.16 | N2548.042 | W08018.086 |

| RUNWAY DATA | RWY | THRESHOLD ELEVATION | TCH |
|-------------|-------|---------------------|-----|
| | RW08R | 00008 | 51 |



| | | | | | |
|------------------------------------|------------------------------------|----------------|----------------------|--|--------------------------|
| CITY AND STATE MIAMI, FL | ELEVATION: 9 | TDZE: 8 | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP: |
| | AIRPORT NAME: MIAMI INTL | | RNAV | RNAV (RNP) Y RWY 8R, ORIG-B | AMDT: ORIG-A |
| | | | | 15 OCTOBER 2015 | DATED: 06/30/2011 |

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

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

TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE | |
|-----------------------|----------------------------|---------------------|----------|--|
| DASLE (IF/IAF) | BOYAS (FB) | 303.60 / 6.89 | 1900 | LPV: DA LNAV/VNAV: DA LNAV: RW30 |
| BOYAS (FAF) | RAYRO/2.70 NM TO RW30 (FB) | 303.54 / 2.28 | | |
| RAYRO/2.70 NM TO RW30 | RW30 (MAP) (FO) | 303.54 / 2.70 | | CLIMB TO 2900 DIRECT CIGDA AND HOLD. |
| RW30 (MAP) | 513 MSL | 303.54 | | |
| 513 MSL | CIGDA (FO) | | 2900 | |

ADDITIONAL FLIGHT DATA:
HOLD NW, RT, 123.38 INBOUND.
CHART FAS OBST: 488 TWR 321622N/0902205W
DISTANCE TO THLD FROM 266 HAT: 0.66 NM.
CHART VDP AT 1.04 MILES TO RW30*
*LNAV ONLY.
WAAS CHANNEL # 78034
REFERENCE PATH ID: W30A
CHART CIRCLING ICON
LTP HAE: 48.7 M

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD SE DASLE, RT, 303.60 INBOUND, 3000 FT. IN LIEU OF PT (IAF)
3. FAC: 303.54 FAF: BOYAS DIST FAF TO MAP: 4.98 THLD: 4.98
4. MIN. ALT: DASLE 3000, BOYAS 1900, RAYRO/2.70 NM TO RW30 1140*
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: 1900 GS ALT AT: BOYAS 1900 OM: MM: IM:
7. GS ANGLE: 3.03 TCH: 52.5 34:1 IS NOT CLEAR
8. MSA FROM:

MAG VAR: 0E EPOCH YEAR: 2010

MINIMUMS

| TAKEOFF: | SEE FAA FORM 8260-15A FOR THIS AIRPORT | | | | | | ALTERNATE: N A | | | STANDARD @ | | | | | |
|-----------------|--|-------|---------|--------|-------|---------|----------------|-------|---------|------------|-------|---------|--------|-----|---------|
| CATEGORY =====> | A | | | B | | | C | | | D | | | E | | |
| | DH/MDA | VIS | HAT/HAA | DH/MDA | VIS | HAT/HAA | DH/MDA | VIS | HAT/HAA | DH/MDA | VIS | HAT/HAA | DH/MDA | VIS | HAT/HAA |
| LPV DA | 513 | 7/8 | 266 | 513 | 7/8 | 266 | 513 | 7/8 | 266 | 513 | 7/8 | 266 | | | |
| LNAV/VNAV DA | 699 | 1 1/2 | 452 | 699 | 1 1/2 | 452 | 699 | 1 1/2 | 452 | 699 | 1 1/2 | 452 | | | |
| LNAV MDA | 740 | 1 | 493 | 740 | 1 | 493 | 740 | 1 3/8 | 493 | 740 | 1 3/8 | 493 | | | |
| CIRCLING | 740 | 1 | 493 | 760 | 1 | 513 | 980 | 2 | 733 | 980 | 2 1/4 | 733 | | | |

NOTES:
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C (5F) OR ABOVE 54C (130F). @ NA WHEN LOCAL WEATHER NOT AVAILABLE.
CHART NOTE: DME/DME RNP-0.3 NA. @ CAT D 800-2 1/4
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI {ANGLE}/TCH {FEET})
CHART NOTE: CIRCLING NA FOR CAT D SW OF RWY 12-30.
(SEE FORM 8260-10)

| | | | | |
|-------------------------------|-------------------------------------|------------------------------|--|--------------------------|
| CITY AND STATE RAYMOND, MS | ELEVATION: 247 TDZE: 247 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 30, AMDT 4 15 OCTOBER 2015 | SUP: QUALITY |
| | AIRPORT NAME: JOHN BELL WILLIAMS | | | AMDT: 10 3B |
| | | | | DATED: 12/11/2014 |

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

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NOTES, (CONT.):

CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
 CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE HAWKINS FIELD ALTIMETER SETTING
 INCREASE ALL DA/MDA 40 FT. INCREASE LPV AND LNAV/VNAV ALL CATS VISIBILITY AND LNAV CAT C/D
 VISIBILITY 1/8 MILE, INCREASE CIRCLING CAT C VISIBILITY 1/4 MILE.
 CHART NOTE: BARO-VNAV AND VDP NA WHEN USING HAWKINS FIELD ALTIMETER SETTING.

| TAA | FROM | TO | ALT |
|-----|-------------------------|---------------------|------|
| 1. | 214/30 CW 034/30 (NOPT) | DASLE (IF/IAF) (FB) | 3000 |
| 2. | 034/30 CW 214/30 | DASLE (IF/IAF) (FO) | 3500 |

| | | | | | |
|-------------------------------|---|-----------|------------------------------|--|--------------------------|
| CITY AND STATE RAYMOND, MS | ELEVATION: 247 AIRPORT NAME: JOHN BELL WILLIAMS | TDZE: 247 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 30, AMDT 4 15 OCTOBER 2015 | SUP: QUALITY |
| | | | | | AMDT: 10 3B |
| | | | | | DATED: 10/11/2014 |

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

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

FAS DATA BLOCK INFORMATION

| <u>DATA FIELD</u> | <u>DATA</u> |
|--|---------------|
| OPERATION TYPE | 0 |
| SBAS SERVICE PROVIDER IDENTIFIER | 0 |
| AIRPORT IDENTIFIER | KJWW |
| RUNWAY | RW30 |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W30A |
| LTP/FTP LATITUDE | 321801.0955N |
| LTP/FTP LONGITUDE | 0902411.1475W |
| LTP/FTP ELLIPSOIDAL HEIGHT | +00487 |
| FPAP LATITUDE | 321850.3660N |
| FPAP LONGITUDE | 0902538.8205W |
| THRESHOLD CROSSING HEIGHT (TCH) | 00052.5 |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F |
| GLIDEPATH ANGLE (GPA) | 03.03 |
| COURSE WIDTH AT THRESHOLD | 106.75 |
| LENGTH OFFSET | 1072 |
| HORIZONTAL ALERT LIMIT (HAL) | 40.0 |
| VERTICAL ALERT LIMIT (VAL) | 50.0 |

CRC REMAINDER 2A1BC9A2

ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|-------------------------|--------|
| ICAO CODE | K7 |
| LTP ORTHOMETRIC HEIGHT | +00753 |
| FPAP ORTHOMETRIC HEIGHT | +00753 |

CITY AND STATE
RAYMOND, MS

ELEVATION: 247 TDZE: 247
AIRPORT NAME:
JOHN BELL WILLIAMS

FACILITY IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) RWY 30, AMDT 4
15 OCTOBER 2015

SUP: **QUALITY**
AMDT: **10 3B**
DATED: **12/11/2014**
CHECKED

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

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ARINC SUMMARY - 424-18 - RNAV (GPS)

| ROUTES | TRANSITION | FIX | SEQ | USE | PATH | TURN | FO/FB | RNP | MAG (TRUE) | DISTANCE | ALTITUDE | SPEED |
|--------|------------|-------|-----|------|------|------|-------|-----|----------------|----------|----------|----------|
| | DASLE | DASLE | 010 | IAF | HF | R | FO | | 303.6 (303.6T) | 004.0 | AA 03000 | |
| | | DASLE | 010 | FACF | IF | | FB | | | | AA 03000 | |
| | | BOYAS | 020 | FAF | TF | | FB | 0.5 | 303.6 (303.6T) | 006.9 | AA 01900 | |
| | | RAYRO | 021 | SDF | TF | | FB | 0.3 | 303.5 (303.5T) | 002.3 | AA 01140 | GS 01157 |
| | | RW30 | 030 | MAP | TF | | FO | 0.3 | 303.5 (303.5T) | 002.7 | AT 00299 | |

| MISSED APPROACH | FIX | SEQ | USE | PATH | TURN | FO/FB | RNP | MAG (TRUE) | DISTANCE | ALTITUDE | SPEED |
|-----------------|-------|-----|-----|------|------|-------|-----|----------------|----------|----------|-------|
| | | 040 | | CA | | FB | | 303.5 (303.5T) | | AA 00513 | |
| | CIGDA | 050 | | DF | | FO | | | | AA 02900 | |
| | CIGDA | 060 | | HM | R | FO | 2.0 | 123.4 (123.4T) | 004.0 | AA 02900 | |

| POINT DATA | WAYPOINT | LAT IN SECS | LONG IN SECS | LAT IN MINS | LONG IN MINS |
|------------|----------|-------------|--------------|-------------|--------------|
| | BOYAS | N321515.86 | W0901917.54 | N3215.264 | W09019.292 |
| | CIGDA | N322600.20 | W0903825.84 | N3226.003 | W09038.431 |
| | DASLE | N321126.66 | W0901231.30 | N3211.444 | W09012.522 |
| | RAYRO | N321631.47 | W0902131.81 | N3216.525 | W09021.530 |
| | RW30 | N321801.10 | W0902411.15 | N3218.018 | W09024.186 |

| RUNWAY DATA | RWY | THRESHOLD ELEVATION | TCH |
|-------------|------|---------------------|-----|
| | RW30 | 00247 | 53 |

| | | | | |
|--------------------------------------|--|-------------------------------------|---|--------------------------|
| CITY AND STATE RAYMOND, MS | ELEVATION: 247 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 30, AMDT 4 15 OCTOBER 2015 | SUP: QUALITY |
| | AIRPORT NAME: JOHN BELL WILLIAMS | | | AMDT: 10 3B |
| | | | | DATED: 12/11/2014 |

ILS - STANDARD
INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.29

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TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE | ILS: DA LOC: 4.49 MILES AFTER KRSTL/I-HIQ 4.95 DME/RADAR OR AT I-HIQ 0.46 DME FIX |
|--------------------------------|----------------------------|-----------------------|----------|--|
| AROKE INT/I-HIQ 10.97 DME (IF) | KRSTL/I-HIQ 4.95 DME/RADAR | 044.75 / 6.02 (I-HIQ) | 1500 | CLIMB TO 2000 THEN CLIMBING RIGHT TURN TO 3000 ON JFK VOR/DME R-062 TO DUFFY INT/JFK 14.80 DME AND HOLD, OR AS DIRECTED BY ATC. ALTERNATE MA: CLIMB TO 2000 THEN CLIMBING RIGHT TURN TO 4000 DIRECT DPK VOR/DME AND HOLD. ADDITIONAL FLIGHT DATA: HOLD NE, LT, 242.03 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD E DPK VOR/DME, LT, 258.09 INBOUND. FAS OBST: 209 AAO 403445N/0734951W CHART VDP AT 1.62 DME* DISTANCE VDP TO THLD 1.17 MILES. *LOC ONLY. CHART IN PLANVIEW: DPK VOR/DME. CHART CIRCLING ICON. |

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. PROFILE STARTS AT AROKE
3. FAC: 044.75 FAF: KRSTL/I-HIQ 4.95 DME/RADAR DIST FAF TO MAP: 4.49 THLD: 4.49
4. MIN. ALT: AROKE 2000, KRSTL 1500
5. DIST TO THLD FROM OM: - MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 1087
6. MIN GS INCPT: 1500 GS ALT AT: KRSTL 1500 OM: - MM: - IM: -
7. GS ANGLE: 3.00 TCH: 57.2
8. MSA FROM: JFK VOR/DME 360-270 2000, 270-360 2900

MAG VAR: 14W EPOCH YEAR: 2000

MINIMUMS

| TAKEOFF: | SEE FAA FORM 8260-15A FOR THIS AIRPORT | | | | | | ALTERNATE: N A | ILS: # | LOC: STANDARD | | | | | | | |
|-----------------|--|------|---------|--------|------|---------|----------------|--------|---------------|--------|-------|---------|--------|-----|---------|--|
| CATEGORY =====> | A | | | B | | | C | | | D | | | E | | | |
| | DH/MDA | VIS | HAT/HAA | DH/MDA | VIS | HAT/HAA | DH/MDA | VIS | HAT/HAA | DH/MDA | VIS | HAT/HAA | DH/MDA | VIS | HAT/HAA | |
| S-ILS 4L | 223 | 4000 | 210 | 223 | 4000 | 210 | 223 | 4000 | 210 | 223 | 4000 | 210 | | | | |
| S-LOC 4L | 460 | 5500 | 447 | 460 | 5500 | 447 | 460 | 1 3/8 | 447 | 460 | 1 3/8 | 447 | | | | |
| CIRCLING | 640 | 1 | 627 | 640 | 1 | 627 | 640 | 1 3/4 | 627 | 660 | 2 | 647 | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

NOTES:
 CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 4R. # CAT A, B, C 700-2, CAT D 700-2
 CHART NOTE: DME OR RADAR REQUIRED.
 CHART PLANVIEW NOTE: RADAR REQUIRED.
 CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE} TCH {FEET}).
 (SEE FORM 8260-10)

| | | | | |
|--------------------------------|--|-------------------------------|---|---|
| CITY AND STATE NEW YORK, NY | ELEVATION: 13 TDZE: 13 AIRPORT NAME: JOHN F KENNEDY INTL | FACILITY IDENTIFIER: I-HIQ | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 4L, AMDT 11 15 OCTOBER 2015 | SUP: <i>QUALITY</i> AMDT: <i>10</i> 10B DATED <i>CHECKED</i> 10/13/2012 |
|--------------------------------|--|-------------------------------|---|---|

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

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

NOTES, (CONT.):
 CHART NOTE: LOC PROCEDURE NA DURING SIMULTANEOUS OPERATIONS.

| | | | | | |
|--------------------------------|--------------------------------------|----------|-------------------------------|--|--------------------------|
| CITY AND STATE NEW YORK, NY | ELEVATION: 13 | TDZE: 13 | FACILITY IDENTIFIER: I-HIQ | PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: ILS OR LOC RWY 4L, AMDT 11 15 OCTOBER 2015 | SUP: QUALITY |
| | AIRPORT NAME: JOHN F KENNEDY INTL | | | | AMDT: 10 10B |
| | | | | | DATED: 02/13/2012 |

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

ILS STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.29

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

ARINC SUMMARY - 424-18 - ILS

| ROUTES | TRANSITION | FIX | SEQ | USE | PATH | TURN | FO/FB | RNP | MAG (TRUE) | DISTANCE | ALTITUDE | SPEED |
|--------|------------|-------|-----|------|------|------|-------|-----|------------|----------|-------------------|-------|
| | | AROKE | 010 | FACF | IF | | FB | | | | AA 02000 GI 01500 | |
| | | KRSTL | 020 | FAF | CF | | FB | | 045.0() | 006.0 | GI 01500 GS 01500 | |
| | | RW04L | 030 | MAP | CF | | FO | | 045.0() | 004.5 | AT 00070 | |

| MISSED APPROACH | FIX | SEQ | USE | PATH | TURN | FO/FB | RNP | MAG (TRUE) | DISTANCE | ALTITUDE | SPEED |
|-----------------|-------|-----|-----|------|------|-------|-----|------------|----------|----------|-------|
| | | 040 | | CA | | FB | | 044.8() | | AA 02000 | |
| | DUFFY | 050 | | CF | | FO | | 062.0() | 012.0 | AA 03000 | |
| | DUFFY | 060 | | HM | L | FO | | 242.0() | T01.0 | AA 03000 | |

| POINT DATA | WAYPOINT | LAT IN SECS | LONG IN SECS | LAT IN MINS | LONG IN MINS |
|------------|------------|-------------|--------------|-------------|--------------|
| | JFK | N403758.40 | W0734617.00 | N4037.973 | W07346.283 |
| | AROKE | N402820.56 | W0735407.60 | N4028.343 | W07354.127 |
| | DUFFY | N404728.00 | W0733121.39 | N4047.467 | W07331.357 |
| | KRSTL | N403331.40 | W0735005.89 | N4033.523 | W07350.098 |
| | RW04L | N403723.18 | W0734705.05 | N4037.386 | W07347.084 |
| | IHIQ (LOC) | N403907.01 | W0734543.91 | N4039.117 | W07345.732 |

| RUNWAY DATA | RWY | THRESHOLD ELEVATION | TCH |
|-------------|-------|---------------------|-----|
| | RW04L | 00012 | 57 |



| | | | | | |
|--------------------------------|--------------------------------------|----------|----------------------|---|-------------------|
| CITY AND STATE NEW YORK, NY | ELEVATION: 13 | TDZE: 13 | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP: |
| | AIRPORT NAME: JOHN F KENNEDY INTL | | I-HIQ | ILS OR LOC RWY 4L, AMDT 11 15 OCTOBER 2015 | AMDT: 10B |
| | | | | | DATED: 12/13/2012 |

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25

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

ARINC SUMMARY - 424-18 - LOC

| ROUTES | TRANSITION | FIX | SEQ | USE | PATH | TURN | FO/FB | RNP | MAG (TRUE) | DISTANCE | ALTITUDE | SPEED |
|--------|------------|-------|-----|------|------|------|-------|-----|------------|----------|----------|-------|
| | | AROKE | 010 | FACF | IF | | FB | | | | AA 02000 | |
| | | KRSTL | 020 | FAF | CF | | FB | | 045.0() | 006.0 | AA 01500 | |
| | | RW04L | 030 | MAP | CF | | FO | | 045.0() | 004.5 | AT 00070 | |

| MISSED APPROACH | FIX | SEQ | USE | PATH | TURN | FO/FB | RNP | MAG (TRUE) | DISTANCE | ALTITUDE | SPEED |
|-----------------|-------|-----|-----|------|------|-------|-----|------------|----------|----------|-------|
| | | 040 | | CA | | FB | | 044.8() | | AA 02000 | |
| | DUFFY | 050 | | CF | | FO | | 062.0() | 012.0 | AA 03000 | |
| | DUFFY | 060 | | HM | L | FO | | 242.0() | T01.0 | AA 03000 | |

| POINT DATA | WAYPOINT | LAT IN SECS | LONG IN SECS | LAT IN MINS | LONG IN MINS |
|------------|------------|-------------|--------------|-------------|--------------|
| | JFK | N403758.40 | W0734617.00 | N4037.973 | W07346.283 |
| | AROKE | N402820.56 | W0735407.60 | N4028.343 | W07354.127 |
| | DUFFY | N404728.00 | W0733121.39 | N4047.467 | W07331.357 |
| | KRSTL | N403331.40 | W0735005.89 | N4033.523 | W07350.098 |
| | RW04L | N403723.18 | W0734705.05 | N4037.386 | W07347.084 |
| | IHIQ (LOC) | N403907.01 | W0734543.91 | N4039.117 | W07345.732 |

| RUNWAY DATA | RWY | THRESHOLD ELEVATION | TCH |
|-------------|-------|---------------------|-----|
| | RW04L | 00012 | 57 |



| | | | | | |
|---------------------------------------|---|-----------------|----------------------|--|--------------------------|
| CITY AND STATE NEW YORK, NY | ELEVATION: 13 | TDZE: 13 | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP: |
| | AIRPORT NAME: JOHN F KENNEDY INTL | | I-HIQ | ILS OR LOC RWY 4L, AMDT 11 | AMDT: 10B |
| | | | | 15 OCTOBER 2015 | DATED: 12/13/2012 |

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

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

| TERMINAL ROUTES | | | | MISSED APPROACH |
|-----------------|----------------------------|---------------------|----------|---|
| FROM | TO | COURSE AND DISTANCE | ALTITUDE | RNP: DA |
| REPRE (IF) | KRSTL (TF) (FB) (RNP 1.00) | 044.68 / 6.50 | 1500 | CLIMB TO 3000 ON TRACK 044.76 TO WORDI AND ON TRACK 091.23 TO DUFFY AND HOLD. |
| KRSTL (FAF) | RW04L (MAP) (TF) (FO) | 044.73 / 4.49 | | |
| RW04L (MAP) | WORDI (TF) (FB) (RNP 1.00) | 044.76 / 9.92 | 3000 | ADDITIONAL FLIGHT DATA: HOLD NE, LT, 244.00 INBOUND. DISTANCE TO THLD FROM 355 HAT: 0.94 NM. ROUTE TYPE: A, H ROUTE TYPE QUALIFIER 1: F ROUTE TYPE QUALIFIER 2: S #TCH 69.6 MSL (DO NOT CHART) |
| WORDI | DUFFY (TF) (FO) (RNP 1.00) | 091.23 / 7.05 | | |

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- PROFILE STARTS AT REPRE
- FAC: 044.73 FAF: DIST FAF TO MAP: THLD:
- MIN. ALT: REPRE 2000, KRSTL 1500
- DIST TO THLD FROM OM: 4.49 MM: IM: 150 HAT: 100 HAT: GS ANT:
- MIN GS INCPT: 1500 GS ALT AT: KRSTL 1500 OM: MM: IM:
- GS ANGLE: 3.00 TCH: 57.2# 34:1 IS CLEAR
- MSA FROM: RW04L 2900

MAG VAR: 14W EPOCH YEAR: 2000

| MINIMUMS | | | | | | | | | | | | | | | |
|-----------------|--|-----|---------|--------|-----|---------|--------|----------------|---------|--------|----------|---------|--------|-----|---------|
| TAKEOFF: | SEE FAA FORM 8260-15A FOR THIS AIRPORT | | | | | | | ALTERNATE: N A | | | STANDARD | | | | |
| CATEGORY =====> | A | | | B | | | C | | | D | | | E | | |
| | DH/MDA | VIS | HAT/HAA | DH/MDA | VIS | HAT/HAA | DH/MDA | VIS | HAT/HAA | DH/MDA | VIS | HAT/HAA | DH/MDA | VIS | HAT/HAA |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

| AUTHORIZATION REQUIRED | | | | | | | | | | | | | | | |
|------------------------|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|-----|--|--|--|
| RNP 0.30 DA | 368 | 6000 | 355 | 368 | 6000 | 355 | 368 | 6000 | 355 | 368 | 6000 | 355 | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

NOTES:
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -11C (13F) OR ABOVE 54C (130F).
 CHART NOTE: GPS REQUIRED.
 CHART PLANVIEW NOTE: RADAR REQUIRED.
 (SEE FORM 8260-10)



| | | | | |
|--------------------------------|--------------------------------------|------------------------------|---|------------------|
| CITY AND STATE NEW YORK, NY | ELEVATION: 13 TDZE: 13 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (RNP) Z RWY 4L, AMDT 1 10/15/2015 | SUP: |
| | AIRPORT NAME: JOHN F KENNEDY INTL | | | AMDT: ORIG-B |
| | | | | DATED 12/13/2012 |

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.

NOTES, (CONT.):

CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 4R.

CHART NOTE: USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS.

CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE} TCH {FEET}).



| | | | | | |
|--------------------------------|---|----------|------------------------------|--|-------------------|
| CITY AND STATE NEW YORK, NY | ELEVATION: 13 AIRPORT NAME: JOHN F KENNEDY INTL | TDZE: 13 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (RNP) Z RWY 4L, AMDT 1 10/15/2015 | SUP: |
| | | | | | AMDT: ORIG-B |
| | | | | | DATED: 12/13/2012 |

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

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

ARINC SUMMARY - 424-18 - RNAV (RNP)

| ROUTES | TRANSITION | FIX | SEQ | USE | PATH | TURN | FO/FB | RNP | MAG (TRUE) | DISTANCE | ALTITUDE | SPEED |
|--------|------------|-------|-----|------|------|------|-------|-----|------------|----------|----------|-------|
| | | REPRE | 010 | FACF | IF | | FB | | | | AA 02000 | |
| | | KRSTL | 020 | FAF | TF | | FB | 1.0 | | | AA 01500 | |
| | | RW04L | 030 | MAP | TF | | FO | 0.3 | | | AT 00070 | |

| MISSED APPROACH | FIX | SEQ | USE | PATH | TURN | FO/FB | RNP | MAG (TRUE) | DISTANCE | ALTITUDE | SPEED |
|-----------------|-------|-----|-----|------|------|-------|-----|----------------|----------|----------|-------|
| | WORDI | 040 | | TF | | FB | 1.0 | | | | |
| | DUFFY | 050 | | TF | | FO | 1.0 | | | AA 03000 | |
| | DUFFY | 060 | | HM | L | FO | | 244.0 (230.0T) | 004.0 | AA 03000 | |

| POINT DATA | WAYPOINT | LAT IN SECS | LONG IN SECS | LAT IN MINS | LONG IN MINS |
|------------|----------|-------------|--------------|-------------|--------------|
| | DUFFY | N404728.00 | W0733121.39 | N4047.467 | W07331.357 |
| | KRSTL | N403331.40 | W0735005.89 | N4033.523 | W07350.098 |
| | REPRE | N402755.83 | W0735426.97 | N4027.931 | W07354.450 |
| | WORDI | N404554.79 | W0734024.44 | N4045.913 | W07340.407 |
| | RW04L | N403723.18 | W0734705.05 | N4037.386 | W07347.084 |

| RUNWAY DATA | RWY | THRESHOLD ELEVATION | TCH |
|-------------|-------|---------------------|-----|
| | RW04L | 00012 | 57 |



| | | | | | |
|---------------------------------------|---|-----------------|----------------------|---|--------------------------|
| CITY AND STATE NEW YORK, NY | ELEVATION: 13 | TDZE: 13 | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP: |
| | AIRPORT NAME: JOHN F KENNEDY INTL | | RNAV | RNAV (RNP) Z RWY 4L, AMDT 1 10/15/2015 | AMDT: ORIG-B |
| | | | | | DATED: 12/13/2012 |

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
 VOR STANDARD INSTRUMENT APPROACH PROCEDURE
 FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23

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

TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE |
|-------------|---------------------------------|---------------------|----------|
| JFK VOR/DME | KTAIT INT/JFK 5.30 DME/RADAR | 231.94 / 5.30 | 1500 |

MAP: 4.46 MILES AFTER KTAIT INT/JFK 5.30 DME/RADAR OR AT JFK 0.84 DME FIX

CLIMB TO 2000 THEN CLIMBING RIGHT TURN TO 3000 ON JFK VOR/DME R-062 TO DUFFY INT/JFK 14.79 DME AND HOLD.

ADDITIONAL FLIGHT DATA:
 HOLD NE, LT, 242.03 INBOUND.
 FAS OBST: 214 AAO 403450N/0734959W
 CHART VDP AT 2.07 DME
 DISTANCE VDP TO THLD 1.23 MILES.
 KTAIT TO RW04L: 3.02/57
 CHART CIRCLING ICON.
 FAC CROSSES RWY C/L EXTENDED 3599 FROM THLD.

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- HOLD SW KTAIT, RT, 051.94 INBOUND, 1500 FT. IN LIEU OF PT (IAF)
- FAC 051.94 FAF KTAIT INT/JFK 5.30 DME/RADAR DIST FAF TO MAP 4.46 THLD 4.46
- MIN. ALT KTAIT 1500
- MSA FROM: JFK VOR/DME 360-270 2000, 270-360 2900

MAG VAR: 12W EPOCH YEAR:1980

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-4L | 480 | 5500 | 467 | 480 | 5500 | 467 | 480 | 1 3/8 | 467 | 480 | 1 3/8 | 467 | | | |
| CIRCLING | 640 | 1 | 627 | 640 | 1 | 627 | 640 | 1 3/4 | 627 | 660 | 2 | 647 | | | |

NOTES:
 CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE} TCH {FEET}).



| | | | | |
|--------------------------------|---|-----------------------------|--|----------------------------------|
| CITY AND STATE NEW YORK, NY | ELEVATION: 13 TDZE: 13 | FACILITY IDENTIFIER: JFK | PROCEDURE NO./AMDТ NO./EFFECTIVE DATE: VOR RWY 4L, AMDТ 1 10/15/2015 | SUP |
| | AIRPORT NAME: JOHN F KENNEDY INTL | | | AMDT ORIG-A |
| | DATE 01/18/2007 | | | |

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

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

| City, State | Airport | Effective Date | Amdt. No. |
|-----------------------|------------------------|------------------------|------------------|
| GREENVILLE, SC | DONALDSON FIELD | 15 OCTOBER 2015 | ORIG-A |

TAKEOFF MINIMUMS:

RWY 23, STANDARD.

RWY 5, 300-1 3/4 OR STANDARD WITH MINIMUM CLIMB OF 220 FT PER NM TO 1300, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1800 FT PRIOR TO DER.

TEXTUAL DEPARTURE PROCEDURES:

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 5, FENCE 63 FT FROM DER, 457 FT RIGHT OF CENTERLINE, 8 FT AGL/921 FT MSL. TREES BEGINNING 874 FT FROM DER, 723 FT LEFT OF CENTERLINE, UP TO 67 FT AGL/976 FT MSL. TREES BEGINNING 1088 FT FROM DER, 129 FT RIGHT OF CENTERLINE, UP TO 82 FT AGL/998 FT MSL. TOWER 1.5 NM FROM DER, 2224 FT LEFT OF CENTERLINE, 250 FT AGL/1167 FT MSL.

CONTROLLING OBSTACLES:

RWY 5 – 1167 FT MSL TOWER 344722.00N/0822116.00W.



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

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

| City, State | Airport | Effective Date | Amdt. No. |
|----------------|-----------------|-----------------|-----------|
| GREENVILLE, SC | DONALDSON FIELD | 15 OCTOBER 2015 | ORIG-A |

REMARKS:

FLIGHT INSPECTED BY: *Digitally signed by*
STEPHEN F. KOCH **MARLON J ROBINSON**
PICO
Jul 22, 2015

07/16/2015

REQUIRED EFFECTIVE DATE:

ROUTINE

DEVELOPED BY:

PETER GUIMOND *Digitally signed by*
PETER R GUIMOND AJV-5413
May 22, 2015

05/22/2015

APPROVED BY: *Digitally signed by*

ADOLFO URRUTIA **MARLON J ROBINSON**
AJV-5410
Jul 22, 2015

COORDINATED WITH:

ALPA, AOPA, NBAA, ZTL, GSP APP CON, AMGR.

CHANGES:

1. AMENDED AIRPORT NAME FROM DONALDSON CENTER TO DONALDSON FIELD.
2. DELETED RWY 23 TAKEOFF OBSTACLE NOTES.
3. AMENDED RWY 5 TAKEOFF OBSTACLE NOTES.
4. AMENDED RWY 5 CONTROLLING OBSTACLE DESCRIPTION FROM ANT ON OL TWR TO TOWER.
5. AMENDED RWY 5 CONTROLLING OBSTACLE LATITUDE AND LONGITUDE.

REASONS:

1. MATCH NASR AIRPORT DATA.
2. NEW OBSTACLE STUDY. AIRPORT OBSTACLE SURVEY UPDATED SINCE LAST AMENDMENT.
3. NEW OBSTACLE STUDY. AIRPORT OBSTACLE SURVEY UPDATED SINCE LAST AMENDMENT.
4. MATCH AIRNAV DESCRIPTION.
5. MATCH AIRNAV VALUES.



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

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

| City, State | Airport | Effective Date | Amdt. No. |
|----------------|---------------------|-----------------|-----------|
| GREENVILLE, SC | GREENVILLE DOWNTOWN | 15 OCTOBER 2015 | 7 |

TAKEOFF MINIMUMS:

RWY 1, 19, STANDARD.

RWY 10, 300-1 OR STANDARD WITH MINIMUM CLIMB OF 355 FT PER NM TO 1300.

RWY 28, 300-2 1/2 OR STANDARD WITH MINIMUM CLIMB OF 220 FT PER NM TO 1500, OR ALTERNATIVELY, WITH STANDARD TAKEOFF MINIMUMS AND A NORMAL 200 FT PER NM CLIMB GRADIENT, TAKEOFF MUST OCCUR NO LATER THAN 1900 FT PRIOR TO DER.

TEXTUAL DEPARTURE PROCEDURES:

RWY 1: CLIMB HEADING 006.23 TO 2800 BEFORE TURNING WEST OR NORTHWEST.

RWY 10: CLIMB HEADING 096.33 TO 1800 BEFORE TURNING WEST OR NORTHWEST.

RWY 19: CLIMB HEADING 186.20 TO 1800 BEFORE TURNING NORTH.

RWY 28: CLIMB HEADING 276.32 TO 2300 BEFORE TURNING NORTH OR NORTHWEST.

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 1, SIGN 26 FT FROM DER, 125 FT LEFT OF CENTERLINE, 3 FT AGL/1049 FT MSL. BUILDING AND POLES BEGINNING 195 FT FROM DER, 374 FT RIGHT OF CENTERLINE, UP TO 48 FT AGL/1111 FT MSL. TREES BEGINNING 350 FT FROM DER, 319 FT LEFT OF CENTERLINE, UP TO 88 FT AGL/1129 FT MSL. SIGN, BUILDING, POLES, AND TREES BEGINNING 1050 FT FROM DER, 55 FT RIGHT OF CENTERLINE, UP TO 52 FT AGL/1188 FT MSL. BUILDINGS 4064 FT FROM DER, 384 FT RIGHT OF CENTERLINE, UP TO 61 FT AGL/1174 FT MSL.

NOTE: RWY 10, SIGN AND TREES BEGINNING 18 FT FROM DER, 48 FT RIGHT OF CENTERLINE, UP TO 31 FT AGL/1026 FT MSL. SIGN 21 FT FROM DER, 124 FT LEFT OF CENTERLINE, 3 FT AGL/1017 FT MSL. POLE AND TREES BEGINNING 9 FT FROM DER, 198 FT RIGHT OF CENTERLINE, UP TO 56 FT AGL/1057 FT MSL. TREES BEGINNING 498 FT FROM DER, 50 FT LEFT OF CENTERLINE, UP TO 51 FT AGL/1042 FT MSL. TREES BEGINNING 1821 FT FROM DER, 603 FT LEFT OF CENTERLINE, UP TO 47 FT AGL/1068 FT MSL. BUILDING AND POLE BEGINNING 3337 FT FROM DER, 539 FT RIGHT OF CENTERLINE, UP TO 105 FT AGL/1136 FT MSL. TOWER 5213 FT FROM DER, 810 FT LEFT OF CENTERLINE, 152 FT AGL/1173 FT MSL.

NOTE: RWY 19, SIGNS BEGINNING 11 FT FROM DER, 71 FT RIGHT OF CENTERLINE, UP TO 3 FT AGL/991 FT MSL. TREES BEGINNING 173 FT FROM DER, 492 FT RIGHT OF CENTERLINE, UP TO 45 FT AGL/1013 FT MSL. POLE AND TREES BEGINNING 276 FT FROM DER, 527 FT LEFT OF CENTERLINE, UP TO 33 FT AGL/1003 FT MSL. TREES BEGINNING 2809 FT FROM DER, 763 FT RIGHT OF CENTERLINE, UP TO 83 FT AGL/1094 FT MSL.

NOTE: RWY 28, SIGNS BEGINNING 13 FT FROM DER, 77 FT LEFT OF CENTERLINE, UP TO 3 FT AGL/1000 FT MSL. POLE AND TREES BEGINNING 45 FT FROM DER, 285 FT RIGHT OF CENTERLINE, UP TO 49 FT AGL/1043 FT MSL. POLES AND TREES BEGINNING 194 FT FROM DER, 251 FT LEFT OF CENTERLINE, UP TO 56 FT AGL/1021 FT MSL. TREES BEGINNING 532 FT FROM DER, 60 FT RIGHT OF CENTERLINE, UP TO 95 FT AGL/1047 FT MSL. TREES BEGINNING 850 FT FROM DER, 323 FT LEFT OF CENTERLINE, UP TO 71 FT AGL/1075 FT MSL. BUILDING 1.9 NM FROM DER, 2143 FT RIGHT OF CENTERLINE, 332 FT AGL/1316 FT MSL.

CONTROLLING OBSTACLES:

RWY 10 – 1173 FT MSL TOWER 345059.00N/0821941.00W.

RWY 28 – 1316 FT MSL BUILDING 345116.95N/0822351.37W.

OBSTACLES MANDATING ODP ROUTE DEVELOPMENT:

RWY 1, 10, 19, 28 – 2539 FT MSL TOWER 345629.40N/0822440.40W.



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

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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. |
|----------------|---------------------|-----------------|-----------|
| GREENVILLE, SC | GREENVILLE DOWNTOWN | 15 OCTOBER 2015 | 7 |

REMARKS:

1. RWY 10 CLIMB GRADIENT ROUNDED UP TO 355 FT PER NM FOR PUBLICATION (COMPUTED VALUE 353 FT PER NM).
2. RWY 28 CLIMB GRADIENT ROUNDED UP TO 220 FT PER NM FOR PUBLICATION (COMPUTED VALUE 218 FT PER NM).

FLIGHT INSPECTED BY:

REQUIRED EFFECTIVE DATE:

STEPHEN F. KOCH *Digitally signed by* FICO 07/16/2015
JULIE A MORGAN
 Jul 21, 2015

ROUTINE

DEVELOPED BY:

PETER GUIMOND *Digitally signed by* AJV-5413 05/27/2015
PETER R GUIMOND
 May 27, 2015

APPROVED BY:

ADOLFO URRUTIA *Digitally signed by* AJV-5410
JULIE A MORGAN
 Jul 21, 2015

COORDINATED WITH:

ALPA, AOPA, NBAA, ZTL, GSP APP CON, GMU ATCT, AMGR.

CHANGES:

1. INCREASED RWY 10 CLIMB GRADIENT FROM 340 FT PER NM TO 1300 TO READ 355 FT PER NM TO 1300.
2. INCREASED RWY 28 VISIBILITY VALUE FROM 2 1/4 MILES TO 2 1/2 MILES.
3. AMENDED RWY 10 TEXTUAL DP INSTRUCTIONS FROM CLIMB HEADING 096.33 TO 1600 BEFORE TURNING LEFT TO READ CLIMB HEADING 096.33 TO 1800 BEFORE TURNING WEST OR NORTHWEST.
4. AMENDED RWY 19 TEXTUAL DP INSTRUCTIONS FROM CLIMB HEADING 186.20 TO 1600 BEFORE TURNING RIGHT TO READ CLIMB HEADING 186.20 TO 1800 BEFORE TURNING NORTH.
5. AMENDED RWY 1 TEXTUAL DP INSTRUCTIONS FROM CLIMB HEADING 006.23 TO 2700 BEFORE TURNING LEFT TO READ CLIMB HEADING 006.23 TO 2800 BEFORE TURNING WEST OR NORTHWEST.
6. AMENDED RWY 28 TEXTUAL DP INSTRUCTIONS FROM CLIMB HEADING 276.32 TO 2300 BEFORE TURNING RIGHT TO READ CLIMB HEADING 276.32 TO 2300 BEFORE TURNING NORTH OR NORTHWEST.
7. AMENDED TAKEOFF OBSTACLE NOTES FOR ALL RUNWAYS.
8. DELETED 1300 FT MSL TREE FROM RWY 10 CONTROLLING OBSTACLES.
9. AMENDED RWY 28 CONTROLLING OBSTACLE FROM 1315 MSL BUILDING TO 1316 MSL BUILDING AND AMENDED LATITUDE/LONGITUDE.

REASONS:

1. APPLIED 5D HORIZONTAL AND VERTICAL ACCURACY ADJUSTMENT TO CONTROLLING OBSTACLE.
2. VISIBILITY RECOMPUTED FROM UPDATE LATITUDE/LONGITUDE OF CONTROLLING OBSTACLE.
- 3, 4. CONTROLLING OBSTACLE LIES IN DIVERSE "B" AREA, REFORMATTED INSTRUCTIONS ARE LESS RESTRICTIVE. CLIMB TO ALTITUDE INCREASED AFTER APPLYING 5E HORIZONTAL AND VERTICAL ACCURACY ADJUSTMENT TO CONTROLLING OBSTACLE.
- 5, 6. REPLACED TURN DIRECTION (LEFT OR RIGHT) WITH COMPASS POINTS TO STANDARDIZE WITH UPDATED RWY 10 AND RWY 19 INSTRUCTIONS. CLIMB TO ALTITUDE INCREASED AFTER APPLYING 5E HORIZONTAL AND VERTICAL ACCURACY ADJUSTMENT TO CONTROLLING OBSTACLE.
7. NEW OBSTACLE STUDY. NEW OBSTACLE SURVEY ADDED SINCE LAST AMENDMENT.
8. NEW OBSTACLE STUDY.
9. MATCH AIRNAV VALUES FOR OBSTACLE.



**U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
 VOR STANDARD INSTRUMENT APPROACH PROCEDURE
 FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23**

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

TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE |
|------|----|---------------------|----------|
| | | | |
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| |

ADDITIONAL FLIGHT DATA:

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

2. _____

3. FAC _____ FAF _____ DIST FAF TO MAP _____ THLD _____

4. MIN. ALT _____

8. MSA FROM: _____

MAG VAR: _____ EPOCH YEAR: _____

| | | | | | | | | | | | | | | | |
|---|----------------|----------|----------|----------|----------|---------|-----|-----|---------|-----|-----|---------|-----|-----|---------|
| TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT | ALTERNATE: N A | | | | | | | | | | | | | | |
| CATEGORY =====> | A | B | C | D | E | | | | | | | | | | |
| | MDA | VIS | HAT/HAA | MDA | VIS | HAT/HAA | MDA | VIS | HAT/HAA | MDA | VIS | HAT/HAA | MDA | VIS | HAT/HAA |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

NOTES:

PROCEDURE CANCELED EFFECTIVE 15 OCTOBER 2015



| | | | | |
|---------------------------------|---|-----------------------------|--|----------------------------------|
| CITY AND STATE TULLAHOMA, TN | ELEVATION: 1084 THRE: 1084 AIRPORT NAME: TULLAHOMA RGNL ARPT/WM NORTHERN FIELD | FACILITY IDENTIFIER: UXM | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR RWY 6, AMDT 1A, 01/08/2015 | SUP AMDT 1 DATE 05/31/2012 |
|---------------------------------|---|-----------------------------|--|----------------------------------|

**U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
 VOR STANDARD INSTRUMENT APPROACH PROCEDURE
 FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23**

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TERMINAL ROUTES

MISSED APPROACH

| FROM | TO | COURSE AND DISTANCE | ALTITUDE |
|------|----|---------------------|----------|
| | | | |
| | | | |
| | | | |

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| |
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| |

ADDITIONAL FLIGHT DATA:

1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)
 2. _____
 3. FAC _____ FAF _____ DIST FAF TO MAP _____ THLD _____
 4. MIN. ALT _____
 8. MSA FROM: _____

MAG VAR: _____ EPOCH YEAR: _____

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

ALTERNATE: N A

| CATEGORY =====> | A | | | B | | | C | | | D | | | E | | |
|-----------------|-----|-----|---------|-----|-----|---------|-----|-----|---------|-----|-----|---------|-----|-----|---------|
| | MDA | VIS | HAT/HAA | MDA | VIS | HAT/HAA | MDA | VIS | HAT/HAA | MDA | VIS | HAT/HAA | MDA | VIS | HAT/HAA |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

NOTES:

 PROCEDURE CANCELED EFFECTIVE 15 OCTOBER 2015



| | | | | |
|---------------------------------|--|-----------------------------|--|-------------|
| CITY AND STATE TULLAHOMA, TN | ELEVATION: 1084 TDZE: 1082 | FACILITY IDENTIFIER: UXM | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: VOR RWY 24, ORIG-D, 01/08/2015 | SUP |
| | AIRPORT NAME: TULLAHOMA RGNL ARPT/WM NORTHERN FIELD | | | AMDT ORIG-C |
| | DATE 04/07/2011 | | | |

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

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TERMINAL ROUTES, (CONT.):

| <u>FROM</u> | <u>TO</u> | <u>COURSE AND DISTANCE</u> | <u>ALTITUDE</u> |
|-------------|------------|----------------------------|-----------------|
| RW17 (MAP) | 789 MSL | 177.16 | |
| 789 MSL | FOBUM (FO) | | 2500 |

NOTES, (CONT.):

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

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LONGVIEW ALTIMETER SETTING AND INCREASE LPV DA TO 895 FEET, LNAV/VNAV DA TO 924 FEET AND ALL MDA 120 FEET; INCREASE LPV AND LNAV/VNAV ALL CATS AND LNAV CAT C/D VISIBILITY 3/8 MILE, INCREASE CIRCLING CAT C 1/4 MILE AND CAT D 1/2 MILE.

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

CITY AND STATE
 TYLER, TX

ELEVATION: 544 TDZE: 539
 AIRPORT NAME:
 TYLER POUNDS RGNL

FACILITY IDENTIFIER:
 RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
 RNAV (GPS) RWY 17, ORIG
 15 OCTOBER 2015

SUP: 4
 AMDT: NONE
 DATED:



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

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FAS DATA BLOCK INFORMATION

| <u>DATA FIELD</u> | <u>DATA</u> |
|--|---------------|
| OPERATION TYPE | 0 |
| SBAS SERVICE PROVIDER IDENTIFIER | 0 |
| AIRPORT IDENTIFIER | KTYR |
| RUNWAY | RW17 |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W17A |
| LTP/FTP LATITUDE | 322137.2740N |
| LTP/FTP LONGITUDE | 0952419.5530W |
| LTP/FTP ELLIPSOIDAL HEIGHT | +01314 |
| FPAP LATITUDE | 322007.9925N |
| FPAP LONGITUDE | 0952419.8470W |
| THRESHOLD CROSSING HEIGHT (TCH) | 00045.0 |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F |
| GLIDEPATH ANGLE (GPA) | 03.00 |
| COURSE WIDTH AT THRESHOLD | 106.75 |
| LENGTH OFFSET | 1280 |
| HORIZONTAL ALERT LIMIT (HAL) | 40.0 |
| VERTICAL ALERT LIMIT (VAL) | 50.0 |
| | |
| <u>CRC REMAINDER</u> | 363F59D7 |

ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|-------------------------|--------|
| ICAO CODE | K4 |
| LTP ORTHOMETRIC HEIGHT | +01577 |
| FPAP ORTHOMETRIC HEIGHT | +01577 |

| | | | | | |
|-----------------------------|------------------------------------|-----------|------------------------------|--|------------|
| CITY AND STATE TYLER, TX | ELEVATION: 544 | TDZE: 539 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 17, ORIG 15 OCTOBER 2015 | SUP: 4 |
| | AIRPORT NAME: TYLER POUNDS RGNL | | | | AMDT: NONE |
| | | | | | DATED: |



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

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ARINC SUMMARY - 424-18 - RNAV (GPS)

| ROUTES | TRANSITION | FIX | SEQ | USE | PATH | TURN | FO/FB | RNP | MAG (TRUE) | DISTANCE | ALTITUDE | SPEED |
|--------|------------|-------|-----|------|------|------|-------|-----|----------------|----------|----------|----------|
| | BOLRE | BOLRE | 010 | IAF | IF | | FB | | | | | |
| | BOLRE | CAKEL | 020 | | TF | | FB | 1.0 | 171.2 (174.2T) | 006.3 | AA 02500 | |
| | CAKEL | CAKEL | 010 | IAF | HF | R | FO | | 177.2 (180.2T) | 004.0 | AA 02500 | |
| | OTTUV | OTTUV | 010 | | IF | | FB | | | | | |
| | OTTUV | ZIYCO | 020 | IAF | TF | | FB | 2.0 | 227.2 (230.2T) | 008.9 | AA 02500 | |
| | OTTUV | CAKEL | 030 | | TF | | FB | 1.0 | 243.7 (246.7T) | 009.1 | AA 02500 | |
| | | CAKEL | 010 | FACF | IF | | FB | | | | AA 02500 | |
| | | HORDA | 020 | FAF | TF | | FB | 0.5 | 177.2 (180.2T) | 005.0 | AA 02200 | |
| | | XOLSE | 021 | SDF | TF | | FB | 0.3 | 177.2 (180.2T) | 003.1 | AA 01200 | GS 01200 |
| | | RW17 | 030 | MAP | TF | | FO | 0.3 | 177.2 (180.2T) | 002.0 | AT 00563 | |

| MISSED APPROACH | FIX | SEQ | USE | PATH | TURN | FO/FB | RNP | MAG (TRUE) | DISTANCE | ALTITUDE | SPEED |
|-----------------|-------|-----|-----|------|------|-------|-----|----------------|----------|----------|-------|
| | | 040 | | CA | | FB | | 177.2 (180.2T) | | AA 00789 | |
| | FOBUM | 050 | | DF | | FO | | | | AA 02500 | |
| | FOBUM | 060 | | HM | L | FO | | 357.2 (000.2T) | 004.0 | AA 02500 | |

| POINT DATA | WAYPOINT | LAT IN SECS | LONG IN SECS | LAT IN MINS | LONG IN MINS |
|------------|----------|-------------|--------------|-------------|--------------|
| | BOLRE | N323801.14 | W0952502.68 | N3238.019 | W09525.045 |
| | CAKEL | N323147.03 | W0952417.54 | N3231.784 | W09524.292 |
| | FOBUM | N321044.66 | W0952421.69 | N3210.744 | W09524.362 |
| | HORDA | N322646.42 | W0952418.54 | N3226.774 | W09524.309 |
| | OTTUV | N324105.29 | W0950621.92 | N3241.088 | W09506.365 |
| | XOLSE | N322337.63 | W0952419.16 | N3223.627 | W09524.319 |
| | ZIYCO | N323523.99 | W0951424.59 | N3235.400 | W09514.410 |
| | RW17 | N322137.27 | W0952419.55 | N3221.621 | W09524.326 |

| RUNWAY DATA | RWY | THRESHOLD ELEVATION | TCH |
|-------------|------|---------------------|-----|
| | RW17 | 00518 | 45 |

| | | | | | |
|-----------------------------|------------------------------------|-----------|----------------------------------|--|---|
| CITY AND STATE TYLER, TX | ELEVATION: 544 | TDZE: 539 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 17, ORIG 15 OCTOBER 2015 | SUP: QUALITY 4 |
| | AIRPORT NAME: TYLER POUNDS RGNL | | | | AMDT: NONE |
| | | | | | DATED: |

RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33

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| TERMINAL ROUTES | | | | MISSED APPROACH | |
|-----------------------|----------------------------|---------------------|----------|--|--|
| FROM | TO | COURSE AND DISTANCE | ALTITUDE | | |
| UIM VOR/DME | FOBUM (FO) | 179.72 / 42.05 | 2500 | LPV: DA LNAV/VNAV: DA LNAV: RW35 | |
| FZT VOR/DME (IAF) | FOBUM (NOPT) (FB) | 042.43 / 8.92 | 2500 | CLIMB TO 2500 DIRECT CAKEL AND HOLD. | |
| FOBUM (IF/IAF) | NERBE (FB) | 357.16 / 5.00 | 2200 | | |
| NERBE (FAF) | HANAS/2.30 NM TO RW35 (FB) | 357.16 / 2.76 | | ADDITIONAL FLIGHT DATA: HOLD N, RT, 177.16 INBOUND. CHART FAS OBST: 694 TOWER 321927N/0952350W CHART 916 TOWER 321607N/0952418W. DISTANCE TO THLD FROM 250 HAT: 0.64 NM. CHART VDP AT 1.16 MILES TO RW35* *LNAV ONLY. WAAS CHANNEL # 73037 REFERENCE PATH ID: W35A CHART CIRCLING ICON. LTP HAE: 139.5 M | |
| HANAS/2.30 NM TO RW35 | RW35 (MAP) (FO) | 357.16 / 2.30 | | | |
| RW35 (MAP) | 794 MSL | 357.16 | | | |
| 794 MSL | CAKEL (FO) | | 2500 | | |

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD S FOBUM, LT, 357.16 INBOUND, 2500 FT. IN LIEU OF PT (IAF)
3. FAC: 357.16 FAF: NERBE DIST FAF TO MAP: 5.06 THLD: 5.06
4. MIN. ALT: FOBUM 2500, NERBE 2200, HANAS/2.30 NM TO RW35 1320*
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: 2200 GS ALT AT: NERBE 2200 OM: MM: IM:
7. GS ANGLE: 3.00 TCH: 45.0 34:1 IS NOT CLEAR
8. MSA FROM: RW35 3100

MAG VAR: 3E EPOCH YEAR: 2015

| MINIMUMS | | | | | | | | | | | | | | | |
|-----------------|--|-----|---------|--------|-----|---------|----------------|-------|---------|------------|-------|---------|--------|-----|---------|
| TAKEOFF: | SEE FAA FORM 8260-15A FOR THIS AIRPORT | | | | | | ALTERNATE: N A | | | STANDARD @ | | | | | |
| CATEGORY =====> | A | | | B | | | C | | | D | | | E | | |
| | DH/MDA | VIS | HAT/HAA | DH/MDA | VIS | HAT/HAA | DH/MDA | VIS | HAT/HAA | DH/MDA | VIS | HAT/HAA | DH/MDA | VIS | HAT/HAA |
| LPV DA | 794 | 3/4 | 250 | 794 | 3/4 | 250 | 794 | 3/4 | 250 | 794 | 3/4 | 250 | | | |
| LNAV/VNAV DA | 801 | 7/8 | 257 | 801 | 7/8 | 257 | 801 | 7/8 | 257 | 801 | 7/8 | 257 | | | |
| LNAV MDA | 960 | 1 | 416 | 960 | 1 | 416 | 960 | 1 1/8 | 416 | 960 | 1 1/8 | 416 | | | |
| CIRCLING | 960 | 1 | 416 | 1000 | 1 | 456 | 1160 | 1 3/4 | 616 | 1280 | 2 1/4 | 736 | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

NOTES:
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -5C (23F) OR ABOVE 54C (130F). @ NA WHEN LOCAL WEATHER NOT AVAILABLE.
 CHART NOTE: DME/DME RNP-0.3 NA. @ CAT D 800-2 1/4
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON UIM VOR/DME AIRWAY RADIALS 086 CW 218.
 CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
 (SEE FORM 8260-10)

| | | | | |
|-----------------------------|--|------------------------------|--|-------------------------------|
| CITY AND STATE TYLER, TX | ELEVATION: 544 TDZE: 544 AIRPORT NAME: TYLER POUNDS RGNL | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 35, ORIG 15 OCTOBER 2015 | SUP: 4 AMDT: NONE DATED |
|-----------------------------|--|------------------------------|--|-------------------------------|

QUALITY
4
CHECKED

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

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NOTES, (CONT.):

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LONGVIEW ALTIMETER SETTING AND INCREASE LPV DA TO 900 FEET, LNAV/VNAV DA TO 907 FEET AND ALL MDA 120 FEET; INCREASE LPV AND LNAV/VNAV ALL CATS AND LNAV CAT C/D VISIBILITY 3/8 MILE, INCREASE CIRCLING CAT C 1/4 MILE AND CAT D 1/2 MILE.
CHART NOTE: BARO-VNAV AND VDP NA WHEN USING LONGVIEW ALTIMETER SETTING.



| | | | | | |
|-----------------------------|------------------------------------|-----------|------------------------------|--|------------|
| CITY AND STATE TYLER, TX | ELEVATION: 544 | TDZE: 544 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 35, ORIG 15 OCTOBER 2015 | SUP: |
| | AIRPORT NAME: TYLER POUNDS RGNL | | | | AMDT: NONE |
| | | | | | DATED: |

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

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FAS DATA BLOCK INFORMATION

| <u>DATA FIELD</u> | <u>DATA</u> |
|--|---------------|
| OPERATION TYPE | 0 |
| SBAS SERVICE PROVIDER IDENTIFIER | 0 |
| AIRPORT IDENTIFIER | KTYR |
| RUNWAY | RW35 |
| APPROACH PERFORMANCE DESIGNATOR | 0 |
| ROUTE INDICATOR | |
| REFERENCE PATH DATA SELECTOR | 0 |
| REFERENCE PATH IDENTIFIER (APPROACH ID) | W35A |
| LTP/FTP LATITUDE | 322049.4630N |
| LTP/FTP LONGITUDE | 0952419.7050W |
| LTP/FTP ELLIPSOIDAL HEIGHT | +01395 |
| FPAP LATITUDE | 322218.7445N |
| FPAP LONGITUDE | 0952419.4115W |
| THRESHOLD CROSSING HEIGHT (TCH) | 00045.0 |
| TCH UNITS SELECTOR (METERS OR FEET USED) | F |
| GLIDEPATH ANGLE (GPA) | 03.00 |
| COURSE WIDTH AT THRESHOLD | 106.75 |
| LENGTH OFFSET | 1280 |
| HORIZONTAL ALERT LIMIT (HAL) | 40.0 |
| VERTICAL ALERT LIMIT (VAL) | 50.0 |

CRC REMAINDER 72FA8719

ADDITIONAL PATH POINT RECORD INFORMATION

| | |
|-------------------------|--------|
| ICAO CODE | K4 |
| LTP ORTHOMETRIC HEIGHT | +01658 |
| FPAP ORTHOMETRIC HEIGHT | +01658 |



| | | | | |
|-----------------------------|------------------------------------|------------------------------|--|------------|
| CITY AND STATE TYLER, TX | ELEVATION: 544 TDZE: 544 | FACILITY IDENTIFIER: RNAV | PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 35, ORIG 15 OCTOBER 2015 | SUP: |
| | AIRPORT NAME: TYLER POUNDS RGNL | | | AMDT: NONE |
| | | | | DATED: |

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

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

ARINC SUMMARY - 424-18 - RNAV (GPS)

| ROUTES | TRANSITION | FIX | SEQ | USE | PATH | TURN | FO/FB | RNP | MAG (TRUE) | DISTANCE | ALTITUDE | SPEED |
|--------|------------|-------|-----|------|------|------|-------|-----|----------------|----------|----------|----------|
| | FZT | FZT | 010 | IAF | IF | | FB | | | | | |
| | FZT | FOBUM | 020 | | TF | | FB | 1.0 | 042.4 (045.4T) | 008.9 | AA 02500 | |
| | UIM | UIM | 010 | | IF | | FB | | | | | |
| | UIM | FOBUM | 020 | | TF | | FO | 2.0 | 179.7 (182.7T) | 042.1 | AA 02500 | |
| | UIM | FOBUM | 030 | IAF | HF | L | FO | | 357.2 (000.2T) | 004.0 | AA 02500 | |
| | | FOBUM | 010 | FACF | IF | | FB | | | | AA 02500 | |
| | | NERBE | 020 | FAF | TF | | FB | 0.5 | 357.2 (000.2T) | 005.0 | AA 02200 | |
| | | HANAS | 021 | SDF | TF | | FB | 0.3 | 357.2 (000.2T) | 002.8 | AA 01320 | GS 01321 |
| | | RW35 | 030 | MAP | TF | | FO | 0.3 | 357.2 (000.2T) | 002.3 | AT 00589 | |

| MISSED APPROACH | FIX | SEQ | USE | PATH | TURN | FO/FB | RNP | MAG (TRUE) | DISTANCE | ALTITUDE | SPEED |
|-----------------|-------|-----|-----|------|------|-------|-----|----------------|----------|----------|-------|
| | | 040 | | CA | | FB | | 357.2 (000.2T) | | AA 00794 | |
| | CAKEL | 050 | | DF | | FO | | | | AA 02500 | |
| | CAKEL | 060 | | HM | R | FO | | 177.2 (180.2T) | 004.0 | AA 02500 | |

| POINT DATA | WAYPOINT | LAT IN SECS | LONG IN SECS | LAT IN MINS | LONG IN MINS |
|------------|----------|-------------|--------------|-------------|--------------|
| | FZT | N320428.58 | W0953150.85 | N3204.476 | W09531.848 |
| | UIM | N325249.73 | W0952200.81 | N3252.829 | W09522.014 |
| | CAKEL | N323147.03 | W0952417.54 | N3231.784 | W09524.292 |
| | FOBUM | N321044.66 | W0952421.69 | N3210.744 | W09524.362 |
| | HANAS | N321831.41 | W0952420.16 | N3218.524 | W09524.336 |
| | NERBE | N321545.28 | W0952420.71 | N3215.755 | W09524.345 |
| | RW35 | N322049.46 | W0952419.71 | N3220.824 | W09524.329 |

| RUNWAY DATA | RWY | THRESHOLD ELEVATION | TCH |
|-------------|------|---------------------|-----|
| | RW35 | 00544 | 45 |

QUALITY
4
CHECKED

| | | | | | |
|-----------------------------|------------------------------------|-----------|----------------------|--|------------|
| CITY AND STATE TYLER, TX | ELEVATION: 544 | TDZE: 544 | FACILITY IDENTIFIER: | PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: | SUP: |
| | AIRPORT NAME: TYLER POUNDS RGNL | | RNAV | RNAV (GPS) RWY 35, ORIG | AMDT: NONE |
| | | | | 15 OCTOBER 2015 | DATED: |

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

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

| City, State | Airport | Effective Date | Amdt. No. |
|-------------|-------------------|-----------------|-----------|
| TYLER, TX. | TYLER POUNDS RGNL | 15 OCTOBER 2015 | 2 |

TAKEOFF MINIMUMS:

RWY 4, 13, 17, 22, 31, 35 STANDARD

TEXTUAL DEPARTURE PROCEDURES:

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 4, TREES BEGINNING 306 FEET FROM DER, 648 FEET RIGHT OF CENTERLINE, UP TO 67 FEET AGL/576 FEET MSL.

NOTE: RWY 13, BUSH 12 FEET FROM DER, 290 FEET RIGHT OF CENTERLINE, 8 FEET AGL/547 FEET MSL. TREES BEGINNING 173 FEET FROM DER, 414 FEET RIGHT OF CENTERLINE, UP TO 62 FEET AGL/581 FEET MSL. TREES BEGINNING 643 FEET FROM DER, 514 FEET LEFT OF CENTERLINE, UP TO 69 FEET AGL/608 FEET MSL.

NOTE: RWY 17, TREE 970 FEET FROM DER, 363 FEET LEFT OF CENTERLINE, 47 FEET AGL/586 FEET MSL. TREE 1340 FEET FROM DER, 207 FEET RIGHT OF CENTERLINE, 69 FEET AGL/578 FEET MSL.

NOTE: RWY 22, TREES BEGINNING 97 FEET FROM DER, 375 FEET RIGHT OF CENTERLINE, UP TO 87 FEET AGL/626 FEET MSL.

NOTE: RWY 31, TREES BEGINNING 504 FEET FROM DER, 534 FEET RIGHT OF CENTERLINE, UP TO 75 FEET AGL/564 FEET MSL. TREES BEGINNING 908 FEET FROM DER, 666 FEET LEFT OF CENTERLINE, UP TO 37 FEET AGL/556 FEET MSL.

NOTE: RWY 35, TREES BEGINNING 1104 FEET FROM DER, 26 FEET RIGHT OF CENTERLINE, UP TO 58 FEET AGL/567 FEET MSL.

CONTROLLING OBSTACLES:



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

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

| City, State | Airport | Effective Date | Amdt. No. |
|--------------------|-------------------|-----------------------|------------------|
| TYLER, TX. | TYLER POUNDS RGNL | 15 OCTOBER 2015 | 2 |

REMARKS:

FLIGHT INSPECTED BY:

BRYAN VEIT

Digitally signed by
JACOB POWERS
Jul 15, 2015

7/9/2015

REQUIRED EFFECTIVE DATE:

ROUTINE

DEVELOPED BY:

THOMAS L. KIRKPATRICK

AJV-5423

5/14/2015

Digitally signed by
THOMAS L KIRKPATRICK
May 19, 2015

APPROVED BY:

GEORGE GONZALEZ

AJV-5420

Digitally signed by
JACOB POWERS
Jul 15, 2015

COORDINATED WITH:

ALPA, AOPA, NBAA, ZFW, ARPT MGR, TYR ATCT, GGG APP CON

CHANGES:

UPDATE TAKEOFF OBSTACLE NOTES FOR RWY 4/22.

REASONS:

NEW RUNWAY SURVEY AS RESULT, RWY 4 DISPLACED THRESHOLD REMOVED AND RUNWAY LENGTH EXTENDED ON SW.



[4910-13]

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 97

[Docket No. [31032](#); Amdt. No. [3656](#)]

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

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Final rule.

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

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

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

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

For Examination

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

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

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

4. The National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to:

http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html.

Availability

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

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

SUPPLEMENTARY INFORMATION:

This rule amends Title 14, Code of Federal Regulations,
Part 97 (14 CFR part 97) by amending the referenced SIAPs.
The complete regulatory description of each SIAP is listed on
the appropriate FAA Form 8260, as modified by the National
Flight Data Center (NFDC)/Permanent Notice to Airmen (P-
NOTAM), and is incorporated by reference under 5 U.S.C.
552(a), 1 CFR part 51, and 14 CFR §97.20. The large number
of SIAPs, their complex nature, and the need for a special
format make their verbatim publication in the **Federal Register**
expensive and impractical. Further, airmen do not use the
regulatory text of the SIAPs, but refer to their graphic
depiction on charts printed by publishers of aeronautical
materials. Thus, the advantages of incorporation by reference
are realized and publication of the complete description of
each SIAP contained on FAA form documents is unnecessary.

This amendment provides the affected CFR sections, and specifies the SIAPs and Takeoff Minimums and ODPs with their applicable effective dates. This amendment also identifies the airport and its location, the procedure and the amendment number.

Availability and Summary of Material Incorporated by Reference

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

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

The Rule

This amendment to 14 CFR part 97 is effective upon publication of each separate SIAP and Takeoff Minimums and ODP as amended in the transmittal. For safety and timeliness of change considerations, this amendment incorporates only specific changes contained for each SIAP and Takeoff Minimums and ODP as modified by FDC permanent NOTAMs.

The SIAPs and Takeoff Minimums and ODPs, as modified by FDC permanent NOTAM, and contained in this amendment are based on the criteria contained in the U.S. Standard for Terminal Instrument Procedures (TERPS). In developing these changes to SIAPs and Takeoff Minimums and ODPs, the TERPS criteria were applied only to specific conditions existing at the affected

airports. All SIAP amendments in this rule have been previously issued by the FAA in a FDC NOTAM as an emergency action of immediate flight safety relating directly to published aeronautical charts.

The circumstances that created the need for these SIAP and Takeoff Minimums and ODP amendments require making them effective in less than 30 days.

Because of the close and immediate relationship between these SIAPs, Takeoff Minimums and ODPs, and safety in air commerce, I find that notice and public procedure under 5 U.S.C. 553(b) are impracticable and contrary to the public interest and, where applicable, under 5 U.S.C. 553(d), good cause exists for making these SIAPs effective in less than 30 days.

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

List of Subjects in 14 CFR part 97:

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

Issued in Washington, DC on [JULY 31, 2015](#)



John Duncan
Director, Flight Standards Service

ADOPTION OF THE AMENDMENT

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

PART 97 - STANDARD INSTRUMENT APPROACH PROCEDURES

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

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

2. Part 97 is amended to read as follows:

By amending: §97.23 VOR, VOR/DME, VOR or TACAN, and VOR/DME or TACAN; §97.25 LOC, LOC/DME, LDA, LDA/DME, SDF, SDF/DME; §97.27 NDB, NDB/DME; §97.29 ILS, ILS/DME, MLS, MLS/DME, MLS/RNAV; §97.31 RADAR SIAPs; §97.33 RNAV SIAPs; and §97.35 COPTER SIAPs, Identified as follows:

.....EFFECTIVE UPON PUBLICATION

| AIRAC DATE | STATE | CITY | AIRPORT | FDC NUMBER | FDC DATE | SUBJECT |
|------------|-------|-------------|---------------------------------|------------|----------|----------------------------------|
| 17-Sep-15 | KS | Syracuse | Syracuse-Hamilton County Muni | 5/0596 | 07/21/15 | RNAV (GPS) RWY 36, Orig |
| 17-Sep-15 | NM | Albuquerque | Albuquerque Intl Sunport | 5/0613 | 07/21/15 | RNAV (RNP) Y RWY 21, Orig-A |
| 17-Sep-15 | TX | El Paso | El Paso Intl | 5/0614 | 07/21/15 | RNAV (RNP) Y RWY 4, Orig-D |
| 17-Sep-15 | TX | El Paso | El Paso Intl | 5/0615 | 07/21/15 | RNAV (RNP) Z RWY 4, Orig-C |
| 17-Sep-15 | GA | Atlanta | Dekalb-Peachtree | 5/1465 | 07/16/15 | RNAV (GPS) Y RWY 21L, Amdt 1A |
| 17-Sep-15 | GA | Atlanta | Dekalb-Peachtree | 5/1466 | 07/16/15 | ILS OR LOC RWY 21L, Amdt 8B |
| 17-Sep-15 | VA | Danville | Danville Rgnl | 5/2541 | 07/15/15 | RNAV (GPS) RWY 31, Orig |
| 17-Sep-15 | VA | Brookneal | Brookneal/Campbell County | 5/3677 | 07/16/15 | RNAV (GPS) RWY 6, Orig |
| 17-Sep-15 | GA | Macon | Middle Georgia Rgnl | 5/4287 | 07/15/15 | ILS OR LOC/DME RWY 5, Amdt 1A |
| 17-Sep-15 | GA | Macon | Middle Georgia Rgnl | 5/4288 | 07/15/15 | RNAV (GPS) RWY 5, Amdt 1A |
| 17-Sep-15 | MS | Jackson | Jackson-Medgar Wiley Evers Intl | 5/5477 | 07/16/15 | VOR/DME OR TACAN RWY 16R, Orig |
| 17-Sep-15 | MS | Jackson | Jackson-Medgar Wiley Evers Intl | 5/5478 | 07/16/15 | VOR/DME OR TACAN RWY 16L, Orig |
| 17-Sep-15 | MS | Jackson | Jackson-Medgar Wiley Evers Intl | 5/5479 | 07/16/15 | VOR/DME OR TACAN RWY 34L, Orig |
| 17-Sep-15 | MS | Jackson | Jackson-Medgar Wiley Evers Intl | 5/5486 | 07/16/15 | VOR/DME OR TACAN RWY 34R, Orig-A |
| 17-Sep-15 | PA | Meadville | Port Meadville | 5/5667 | 07/16/15 | LOC RWY 25, Amdt 6A |
| 17-Sep-15 | PA | Meadville | Port Meadville | 5/5669 | 07/16/15 | RNAV (GPS) RWY 25, Amdt 1A |
| 17-Sep-15 | PA | Meadville | Port Meadville | 5/5671 | 07/16/15 | RNAV (GPS) RWY 7, Amdt 1A |
| 17-Sep-15 | PA | Meadville | Port Meadville | 5/5672 | 07/16/15 | VOR RWY 7, Amdt 8A |
| 17-Sep-15 | TX | Rockport | Aransas Co | 5/6318 | 07/21/15 | VOR/DME OR TACAN-A, Amdt 9 |
| 17-Sep-15 | NC | Washington | Warren Field | 5/6319 | 07/21/15 | LOC RWY 5, Amdt 1B |
| 17-Sep-15 | NC | Washington | Warren Field | 5/6436 | 07/21/15 | VOR/DME RWY 5, Amdt 3 |
| 17-Sep-15 | NC | Washington | Warren Field | 5/6437 | 07/21/15 | RNAV (GPS) RWY 17, Amdt 1 |
| 17-Sep-15 | NC | Washington | Warren Field | 5/6438 | 07/21/15 | RNAV (GPS) RWY 23, Amdt 1 |

| | | | | | | |
|-----------|----|------------------|---------------|--------|----------|--|
| 17-Sep-15 | NC | Washington | Warren Field | 5/6439 | 07/21/15 | RNAV (GPS) RWY 35, Amdt 1 |
| 17-Sep-15 | NC | Washington | Warren Field | 5/6440 | 07/21/15 | Takeoff Minimums and (Obstacle) DP, Amdt 1 |
| 17-Sep-15 | NC | Washington | Warren Field | 5/6528 | 07/21/15 | RNAV (GPS) RWY 5, Amdt 1A |
| 17-Sep-15 | NC | North Wilkesboro | Wilkes County | 5/8443 | 07/15/15 | ILS OR LOC RWY 1, Orig-B |
| 17-Sep-15 | VT | Newport | Newport State | 5/9046 | 07/15/15 | RNAV (GPS) RWY 36, Orig-A |

AIRAC Date: 17 SEPTEMBER 2015

FDC **5/0596** 3K3 IAP SYRACUSE-HAMILTON COUNTY MUNI, SYRACUSE, KS. RNAV (GPS) RWY 36, ORIG... CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE 3.20 TCH 43.6 FEET). CHANGE HELICOPTER VISIBILITY NOTE TO READ: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. THIS IS RNAV (GPS) RWY 36 ORIG-A. 1507061740-PERM

FDC **5/0613** ABQ IAP ALBUQUERQUE INTL SUNPORT, ALBUQUERQUE, NM. RNAV (RNP) Y RWY 21, ORIG-A... CHART: ASR. THIS IS RNAV (RNP) Y RWY 21 ORIG-B. 1507061816-PERM

FDC **5/0614** ELP IAP EL PASO INTL, EL PASO, TX. RNAV (RNP) Y RWY 4, ORIG-D... CHART: ASR. THIS IS RNAV (RNP) Y RWY 4 ORIG-E. 1507061819-PERM

FDC **5/0615** ELP IAP EL PASO INTL, EL PASO, TX. RNAV (RNP) Z RWY 4, ORIG-C... CHART: ASR. THIS IS RNAV (RNP) Z RWY 4 ORIG-D. 1507061819-PERM

FDC **5/1465** PDK IAP DEKALB-PEACHTREE, ATLANTA, GA. RNAV (GPS) Y RWY 21L, AMDT 1A... CIRCLING CATS B/C MDA 1540/HAA 542. CHANGE ALTIMETER SETTING NOTE TO READ; WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE FULTON COUNTY AIRPORT-BROWN FIELD ALTIMETER SETTING AND INCREASE LNAV/VNAV ALL CATS DA TO 1505 AND ALL MDA 60 FEET; INCREASE LNAV/VNAV ALL CATS VISIBILITY 1/2 MILE, LNAV CATS C/D VISIBILITY 1/8 MILE AND CIRCLING CAT C VISIBILITY 1/4 MILE. DELETE THRE 983. CHART TDZE 991 FEET. THIS IS RNAV (GPS) Y RWY 21L, AMDT 1B. 1506191735-PERM

FDC **5/1466** PDK IAP DEKALB-PEACHTREE, ATLANTA, GA. ILS OR LOC RWY 21L, AMDT 8B... CIRCLING CATS B/C MDA 1540/HAA 542. CHANGE ALTIMETER SETTING NOTE TO READ: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE FULTON COUNTY AIRPORT-BROWN FIELD ALTIMETER SETTING AND INCREASE S-ILS 21L DA TO 1378 AND ALL MDA 60 FEET; INCREASE S-ILS 21L ALL CATS VISIBILITY 1/8 MILE, INCREASE S-LOC 21L CATS C/D AND CIRCLING CAT C VISIBILITY 1/4 MILE. THIS IS ILS OR LOC RWY 21L, AMDT 8C. 1506191735-PERM

FDC **5/2541** DAN IAP DANVILLE RGNL, DANVILLE, VA. RNAV (GPS) RWY 31, ORIG... LP HAT 418. LNAV MDA 1040/HAT 478 ALL CATS. CIRCLING MDA 1080/HAA 509 ALL CATS. CHART FAS OBST: 780 TOWER 363320N/0791843W. CHANGE HELICOPTER NOTE TO READ: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. CHART TDZE 562 DELETE THRE 528. THIS IS RNAV (GPS) RWY 31 ORIG-A. 1504241826-PERM

FDC **5/3677** 0V4 IAP BROOKNEAL/CAMPBELL COUNTY, BROOKNEAL, VA. RNAV (GPS) RWY 6, ORIG... CHANGE: HELICOPTER VISIBILITY REDUCTION NOTE TO READ: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NA. THIS IS RNAV (GPS) RWY 6 ORIG-A. 1507101919-PERM

FDC **5/4287** MCN IAP MIDDLE GEORGIA RGNL, MACON, GA. ILS OR LOC/DME RWY 5, AMDT 1A... S-ILS 5 DA 594/HAT 250 ALL CATS, VIS RVR 4000 ALL CATS. S-LOC 5 VIS RVR 4000 CATS A/B, RVR 5000 CATS C/D/E. CIRCLING CATS A/B MDA 900/HAA 546. DELETE NOTE: WHEN VGSI INOP, CIRCLING RWY 13 AND 31 NA AT NIGHT. CHART NOTE: NIGHT LANDING: RWY 31 NA. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. DELETE NOTE: FOR INOPERATIVE MALSR, INCREASE S-ILS 5 CAT E VISIBILITY TO RVR 4000 AND S-LOC 5 CATS C/D/E VISIBILITY TO 1 3/8 MILES. CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO S-ILS 5. CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-LOC 5 CATS A/B VISIBILITY TO RVR 5500 AND CATS C/D/E VISIBILITY TO 1 3/8 MILE. DELETE NOTE: *CAT A/B/C/D RVR 1800 AUTHORIZED WITH THE USE OF FD OR AP OR HUD TO DA.. THIS IS ILS OR LOC/DME RWY 5, AMDT 1B. 1505201803-PERM

FDC **5/4288** MCN IAP MIDDLE GEORGIA RGNL, MACON, GA. RNAV (GPS) RWY 5, AMDT 1A... LPV DA 594/HAT 250, VIS RVR 4000. LNAV/VNAV DA 890/HAT 546, VIS 1 3/8. LNAV VIS CAT A/B RVR 4000. CIRCLING CAT A/B MDA 900/HAA 546. DELETE NOTE: WHEN VGSI INOP, CIRCLING RWY 13 AND 31 NA AT NIGHT. CHART NOTE: NIGHT LANDING: RWY 31 NA. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV MINIMUMS. CHART NOTE: FOR INOPERATIVE MALSR, INCREASE LNAV CATS A/B VISIBILITY TO RVR 5500 AND CATS C/D VISIBILITY TO 1 3/8 MILE. 34:1 IS NOT CLEAR. THIS IS RNAV (GPS) RWY 5, AMDT 1B. 1505201803-PERM

FDC **5/5477** JAN IAP JACKSON-MEDGAR WILEY EVERS INTL, JACKSON, MS. VOR/DME OR TACAN RWY 16R, ORIG... S-16R HAT 560 ALL CATS. CHART: ASR. CHART TDZE 320 DELETE THRE 305. THIS IS VOR/DME OR TACAN RWY 16R ORIG-A. 1507151342-PERM

FDC **5/5478** JAN IAP JACKSON-MEDGAR WILEY EVERS INTL, JACKSON, MS. VOR/DME OR TACAN RWY 16L, ORIG... S-16L HAT 548 ALL CATS. CHART: ASR. CHART TDZE 312 DELETE THRE 305. THIS IS VOR/DME OR TACAN RWY 16L ORIG-A. 1507151342-PERM

FDC **5/5479** JAN IAP JACKSON-MEDGAR WILEY EVERS INTL, JACKSON, MS. VOR/DME OR TACAN RWY 34L, ORIG... CHART: ASR. CHANGE THRE 329 TO TDZE 329. THIS IS VOR/DME OR TACAN RWY 34L ORIG-A. 1507151342-PERM

FDC **5/5486** JAN IAP JACKSON-MEDGAR WILEY EVERS INTL, JACKSON, MS. VOR/DME OR TACAN RWY 34R, ORIG-A... CHART: ASR. THIS IS VOR/DME OR TACAN RWY 34R ORIG-B. 1507151345-PERM

FDC **5/5667** GKJ IAP PORT MEADVILLE, MEADVILLE, PA. LOC RWY 25, AMDT 6A... DELETE NOTE: PROCEDURE NA AT NIGHT. CHART NOTE: NIGHT LANDING: RWY 7 NA. THIS IS LOC RWY 25, AMDT 6B. 1507151618-PERM

FDC **5/5669** GKJ IAP PORT MEADVILLE, MEADVILLE, PA. RNAV (GPS) RWY 25, AMDT 1A... DELETE NOTE: PROCEDURE NA AT NIGHT. CHART NOTE: NIGHT LANDING: RWY 7 NA. THIS IS RNAV (GPS) RWY 25, AMDT 1B. 1507151618-PERM

FDC **5/5671** GKJ IAP PORT MEADVILLE, MEADVILLE, PA. RNAV (GPS) RWY 7, AMDT 1A... DELETE NOTE: PROCEDURE NA AT NIGHT. CHART NOTE: NIGHT LANDING: RWY 7 NA. THIS IS RNAV (GPS) RWY 7, AMDT 1B. 1507151618-PERM

FDC **5/5672** GKJ IAP PORT MEADVILLE, MEADVILLE, PA. VOR RWY 7, AMDT 8A... DELETE NOTE: PROCEDURE NA AT NIGHT. CHART NOTE: NIGHT LANDING: RWY 7 NA. THIS IS VOR RWY 7, AMDT 8B. 1507151618-PERM

FDC **5/6318** RKP IAP ARANSAS CO, ROCKPORT, TX. VOR/DME OR TACAN-A, AMDT 9... TERMINAL ROUTE CRP R-054/10.00 TO BISON DISTANCE 8.0 NM. THIS IS VOR/DME OR TACAN-A, AMDT 9A. 1507161438-PERM

FDC **5/6319** OCW IAP WARREN FIELD, WASHINGTON, NC. LOC RWY 5, AMDT 1B... CHANGE AIRPORT NAME TO READ: WASHINGTON-WARREN. THIS IS LOC RWY 5, AMDT 1C. 1507161441-PERM

FDC **5/6436** OCW IAP WARREN FIELD, WASHINGTON, NC. VOR/DME RWY 5, AMDT 3... CHANGE AIRPORT NAME TO READ: WASHINGTON-WARREN. DELETE NOTE: WHEN VGSI INOP, STRAIGHT-IN/CIRCLING RWY 05 PROCEDURE NA AT NIGHT. DELETE NOTE: CIRCLING TO RWY 17 NA AT NIGHT. CHART NOTE: NIGHT LANDING: RWY 17 NA. THIS IS VOR/DME RWY 5, AMDT 3A. 1507161459-PERM

FDC **5/6437** OCW IAP WARREN FIELD, WASHINGTON, NC. RNAV (GPS) RWY 17, AMDT 1... CHANGE AIRPORT NAME TO READ: WASHINGTON-WARREN. DELETE NOTE: PROCEDURE NA AT NIGHT. CHART NOTE: NIGHT LANDING: RWY 17 NA. CHANGE HELICOPTER VISIBILITY REDUCTION NOTE TO READ: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. THIS IS RNAV (GPS) RWY 17, AMDT 1A. 1507161459-PERM

FDC **5/6438** OCW IAP WARREN FIELD, WASHINGTON, NC. RNAV (GPS) RWY 23, AMDT 1... CHANGE AIRPORT NAME TO READ: WASHINGTON-WARREN. DELETE NOTE: CIRCLING TO RWY 17-35 NA AT NIGHT. CHART NOTE: NIGHT LANDING: RWY 17 NA. DELETE NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA. 34:1 IS CLEAR. THIS IS RNAV (GPS) RWY 23, AMDT 1A. 1507161459-PERM

FDC **5/6439** OCW IAP WARREN FIELD, WASHINGTON, NC. RNAV (GPS) RWY 35, AMDT 1... CHANGE AIRPORT NAME TO READ: WASHINGTON-WARREN. DELETE NOTE: PROCEDURE NA AT NIGHT. CHART NOTE: NIGHT LANDING: RWY 17 NA. CHANGE HELICOPTER VISIBILITY REDUCTION NOTE TO READ: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. THIS IS RNAV (GPS) RWY 35, AMDT 1A. 1507161459-PERM

FDC **5/6440** OCW ODP WARREN FIELD, WASHINGTON, NC. TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES AMDT 1... CHANGE AIRPORT NAME TO READ: WASHINGTON-WARREN. ALL OTHER DATA REMAINS AS PUBLISHED. THIS IS TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES, AMDT 1A. 1507161459-PERM

FDC **5/6528** OCW IAP WARREN FIELD, WASHINGTON, NC. RNAV (GPS) RWY 5, AMDT 1A... CHANGE AIRPORT NAME TO READ: WASHINGTON-WARREN. THIS IS RNAV (GPS) RWY 5, AMDT 1B. 1507161505-PERM

FDC **5/8443** UKF IAP WILKES COUNTY, NORTH WILKESBORO, NC. ILS OR LOC RWY 1, ORIG-B... S-ILS 1 DA 1527/HAT 250. VIS 3/4 ALL CATS. S-LOC 1 CAT A/B VIS 3/4. CAT C/D VIS 1 3/8. DME MINIMUMS: S-LOC 1 CAT A/B/C VIS 3/4. DELETE NOTE: DME MINIMUMS, FOR INOPERATIVE MALSR, INCREASE S-LOC 1 CAT D VISIBILITY TO 1 MILE. CHART NOTE: NIGHT LANDING: RWY 19 NA. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. CHART NOTE: FOR INOPERATIVE MALSR INCREASE S-LOC 1 CAT A/B AND DME MINIMUMS S-LOC 1 ALL CATS VISIBILITY 1/4 MILE. THIS IS ILS OR LOC RWY 1 ORIG-C. 1506151412-PERM

FDC **5/9046** EFK IAP NEWPORT STATE, NEWPORT, VT. RNAV (GPS) RWY 36, ORIG-A... DELETE NOTE: WHEN VGSI INOP, STRAIGHT-IN/CIRCLING RWY 36 PROCEDURE NA AT NIGHT. DELETE NOTE: CIRCLING TO RWY 5, RWY 18, AND RWY 23 NA AT NIGHT. CHART NOTE: NIGHT LANDING: RWY 5, 18, 23 NA. CHANGE HELICOPTER VISIBILITY REDUCTION NOTE TO READ: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. THIS IS RNAV (GPS) RWY 36 ORIG-B. 1507011409-PERM