

U.S. Department
of Transportation

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

**Federal Aviation
Administration**

Transmittal Letter 15-16

June 19, 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. [31024](#); Amdt. No. [3649](#)]

**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 [JUNE 19, 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 23 JULY 2015

Gallatin, TN, Sumner County Rgnl, RNAV (GPS) RWY 17, Amdt 2
Gallatin, TN, Sumner County Rgnl, RNAV (GPS) RWY 35, Amdt 2
Gallatin, TN, Sumner County Rgnl, Takeoff Minimums and Obstacle DP, Amdt 4

Effective 20 AUGUST 2015

Roanoke, VA, Roanoke Rgnl/Woodrum Field, LDA Y RWY 6, Amdt 12
Roanoke, VA, Roanoke Rgnl/Woodrum Field, LDA Z RWY 6, Orig
Roanoke, VA, Roanoke Rgnl/Woodrum Field, RNAV (GPS) RWY 6, Amdt 3

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.
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TERMINAL ROUTES	MISSED APPROACH
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FROM	TO	COURSE AND DISTANCE	ALTITUDE
BNA VORTAC	HAGNO (FO)	026.04 / 28.31	3000
BWG VORTAC (IAF)	HAGNO (NOPT) (FB)	182.35 / 21.60	3000
HAGNO (IF/IAF)	SONEL (FB)	173.02 / 5.98	2300
SONEL (FAF)	GOLME/2.40 NM TO RW17 (FB)	173.05 / 2.82	
GOLME/2.40 NM TO RW17	RW17 (MAP) (FO)	173.05 / 2.40	
RW17 (MAP)	983 MSL	173.05	
983 MSL	OPCIL (FO)		3000

LPV: DA
 LNAV/VNAV: DA
 LNAV: RW17

CLIMB TO 3000 DIRECT OPCIL AND HOLD.

ADDITIONAL FLIGHT DATA:
 HOLD S, RT, 353.08 INBOUND.
 CHART FAS OBST: 860 TREE 362459N/0862420W
 940 AAO 362538N/0862514W
 DISTANCE TO THLD FROM 486 HAT: 1.35 NM.
 CHART VDP AT 1.58 MILES TO RW17*
 *LNAV ONLY.
 WAAS CHANNEL # 70725
 REFERENCE PATH ID: W17A
 CHART CIRCLING ICON.
 LTP HAE: 148.3 M

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD N HAGNO, RT, 173.02 INBOUND, 3000 FT. IN LIEU OF PT (IAF)
3. FAC: 173.05 FAF: SONEL DIST FAF TO MAP: 5.22 THLD: 5.22
4. MIN. ALT: HAGNO 3000, SONEL 2300, GOLME/2.40 NM TO RW17 1400*
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: 2300 GS ALT AT: SONEL 2300 OM: MM: IM:
7. GS ANGLE: 3.00 TCH: 56.0 34:1 IS NOT CLEAR
8. MSA FROM: RW17 3100

MAG VAR: 2W EPOCH YEAR: 1995

MINIMUMS

TAKEOFF: **SEE FAA FORM 8260-15A FOR THIS AIRPORT** ALTERNATE: N A X

CATEGORY =====>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA	1069	1 5/8	486	1069	1 5/8	486	1069	1 5/8	486	1069	1 5/8	486			
LNAV/VNAV DA	1075	1 5/8	492	1075	1 5/8	492	1075	1 5/8	492	1075	1 5/8	492			
LNAV MDA	1120	1	537	1120	1	537	1120	1 1/2	537	1120	1 1/2	537			
CIRCLING	1120	1	537	1120	1	537	1240	1 3/4	657	1280	2 1/4	697			

NOTES:
 CHART NOTE: BARO-VNAV AND VDP NA WHEN USING NASHVILLE ALTIMETER SETTING.
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 54C (130F).
 CHART NOTE: DME/DME RNP-0.3 NA.
 CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE} / TCH {FEET}).
 (SEE FORM 8260-10)



CITY AND STATE GALLATIN, TN	ELEVATION: 583 TDZE: 583 AIRPORT NAME: SUMNER COUNTY RGNL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 17, AMDT 2 23 JULY 2015	SUP: AMDT: 1A DATED 06/24/2014
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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.):

*LNAV ONLY

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BNA VORTAC ON V-140 WESTBOUND.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON BWG VORTAC AIRWAY RADIALS 106 CW 228.

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

INCREASE ALL DA 49 FEET AND ALL MDA 60 FEET; INCREASE LPV ALL CATS AND LNAV CATS C AND D

VISIBILITY 1/8 MILE AND LNAV/VNAV ALL CATS AND CIRCLING CATS C/D VISIBILITY 1/4 MILE.

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



CITY AND STATE GALLATIN, TN	ELEVATION: 583	TDZE: 583	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 17, AMDT 2 23 JULY 2015	SUP:
	AIRPORT NAME: SUMNER COUNTY RGNL				AMDT: 1A
					DATED: 06/24/2014

**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	M33
RUNWAY	RW17
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W17A
LTP/FTP LATITUDE	362301.0565N
LTP/FTP LONGITUDE	0862436.2700W
LTP/FTP ELLIPSOIDAL HEIGHT	+01483
FPAP LATITUDE	362132.9170N
FPAP LONGITUDE	0862419.1280W
THRESHOLD CROSSING HEIGHT (TCH)	00056.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0832
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER 2C17E5A1

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+01778
FPAP ORTHOMETRIC HEIGHT	+01778



CITY AND STATE GALLATIN, TN	ELEVATION: 583	TDZE: 583	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 17, AMDT 2 23 JULY 2015	SUP:
	AIRPORT NAME: SUMNER COUNTY RGNL				AMDT: 1A
					DATED: 06/24/2014

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.

SUSAP M33 K7PR17 RW17 001 0000W17A0N3623010565W08624362700+014830300N3621329170W08624191280106750832000560F4005002C17E5A1
 SUSAP M33 K7PR17 RW17 002E +01778+01778LPV 70725

	1	2	3	4	5	6	7	8	9	0	1	2	3
MSA	12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012												

	SUSAP M33 K7SRW17 K7PG	0	18018003125	M									



CITY AND STATE GALLATIN, TN	ELEVATION: 583	TDZE: 583	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 17, AMDT 2 23 JULY 2015	SUP:
	AIRPORT NAME: SUMNER COUNTY RGNL		RNAV		AMDT: 1A
					DATED: 06/24/2014

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
	BNA	BNA	010		IF		FB					
	BNA	HAGNO	020		TF		FO	2.0	026.0 (024.0T)	028.3	AA 03000	
	BNA	HAGNO	030	IAF	HF	R	FO		173.0 (171.0T)	004.0	AA 03000	
	BWG	BWG	010	IAF	IF		FB					
	BWG	HAGNO	020		TF		FB	1.0	182.4 (180.4T)	021.6	AA 03000	
		HAGNO	010	FACF	IF		FB				AA 03000	
		SONEL	020	FAF	TF		FB	0.5	173.0 (171.0T)	006.0	AA 02300	
		GOLME	021	SDF	TF		FB	0.3	173.1 (171.1T)	002.8	AA 01400	GS 01403
		RW17	030	MAP	TF		FO	0.3	173.1 (171.1T)	002.4	AT 00639	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		173.1 (171.1T)		AA 00983	
	OPCIL	050		DF		FO				AA 03000	
	OPCIL	060		HM	R	FO		353.1 (351.1T)	004.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	BNA	N360813.06	W0864105.18	N3608.218	W08641.086
	BWG	N365543.47	W0862636.36	N3655.725	W08626.606
	GOLME	N362523.51	W0862504.00	N3625.392	W08625.067
	HAGNO	N363405.77	W0862646.06	N3634.096	W08626.768
	OPCIL	N360920.59	W0862157.09	N3609.343	W08621.952
	SONEL	N362810.96	W0862536.63	N3628.183	W08625.611
	RW17	N362301.06	W0862436.27	N3623.018	W08624.605

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW17	00583	56



CITY AND STATE GALLATIN, TN	ELEVATION: 583	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 17, AMDT 2 23 JULY 2015	SUP:
	TDZE: 583			AMDT: 1A
	AIRPORT NAME: SUMNER COUNTY RGNL			DATED: 06/24/2014

TERMINAL ROUTES				MISSED APPROACH	
FROM	TO	COURSE AND DISTANCE	ALTITUDE		
BWG VORTAC	OPCIL (FO)	177.35 / 46.47	3000	LPV: DA LNAV/VNAV: DA LNAV: RW35	
BNA VORTAC	JOBZO (FB)	099.78 / 8.36	3000	CLIMB TO 3000 DIRECT HAGNO AND HOLD. ADDITIONAL FLIGHT DATA: HOLD N, RT, 173.02 INBOUND. CHART FAS OBST: 646 TREE 362124N/0862459W. CHART 845 TOWER 361931.10N/0862353.49W. DISTANCE TO THLD FROM 250 HAT: 0.77 NM. CHART VDP AT 1.10 MILES TO RW35* *LNAV ONLY. WAAS CHANNEL # 65627 REFERENCE PATH ID: W35A CHART CIRCLING ICON. LTP HAE: 132.9 M	
JOBZO (IAF)	OPCIL (NOPT) (FB)	074.55 / 7.56	3000		
OPCIL (IF/IAF)	APATY (FB)	353.08 / 6.72	2500		
APATY (FAF)	WABOK/2.30 NM TO RW35 (FB)	353.07 / 3.76			
WABOK/2.30 NM TO RW35 (SEE FORM 8260-10)	RW35 (MAP) (FO)	353.07 / 2.30			

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. HOLD S OPCIL, RT, 353.08 INBOUND, 3000 FT. IN LIEU OF PT (IAF)
3. FAC: 353.07 FAF: APATY DIST FAF TO MAP: 6.06 THLD: 6.06
4. MIN. ALT: OPCIL 3000, APATY 2500, WABOK/2.30 NM TO RW35 1300*
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: 2500 GS ALT AT: APATY 2500 OM: MM: IM:
7. GS ANGLE: 3.00 TCH: 37.0 34:1 IS NOT CLEAR
8. MSA FROM: RW35 3100

MAG VAR: 2W EPOCH YEAR: 1995

MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT										ALTERNATE: N A X					
CATEGORY =====>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA	814	1	250	814	1	250	814	1	250	814	1	250			
LNAV/VNAV DA	838	1	274	838	1	274	838	1	274	838	1	274			
LNAV MDA	900	1	336	900	1	336	900	1	336	900	1	336			

CIRCLING	1100	1	517	1120	1	537	1240	1 3/4	657	1280	2 1/4	697			

NOTES:
 CHART NOTE: BARO-VNAV AND VDP NA WHEN USING NASHVILLE ALTIMETER SETTING.
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 54C (130F).
 CHART NOTE: DME/DME RNP-0.3 NA.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BNA VORTAC ON V-140 WESTBOUND.
 (SEE FORM 8260-10)



CITY AND STATE GALLATIN, TN	ELEVATION: 583 TDZE: 564 AIRPORT NAME: SUMNER COUNTY RGNL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 35, AMDT 2 23 JULY 2015	SUP: AMDT: 1A DATED: 06/24/2014
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US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

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

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
RW35 (MAP)	814 MSL	353.07	
814 MSL	HAGNO (FO)		3000

NOTES, (CONT.):

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON BWG VORTAC AIRWAY RADIALS 106 CW 228.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE NASHVILLE INTL ALTIMETER SETTING AND INCREASE ALL DA 49 FEET AND ALL MDA 60 FEET; INCREASE LNAV/VNAV ALL CATS AND LNAV CAT C/D VISIBILITY 1/8 MILE AND CIRCLING CAT C/D VISIBILITY 1/2 MILE.

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



CITY AND STATE GALLATIN, TN	ELEVATION: 583	TDZE: 564	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 35, AMDT 2 23 JULY 2015	SUP:
	AIRPORT NAME: SUMNER COUNTY RGNL				AMDT: 1A
					DATED: 06/24/2014

**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	M33
RUNWAY	RW35
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W35A
LTP/FTP LATITUDE	362159.5200N
LTP/FTP LONGITUDE	0862424.3005W
LTP/FTP ELLIPSOIDAL HEIGHT	+01329
FPAP LATITUDE	362327.6590N
FPAP LONGITUDE	0862441.4500W
THRESHOLD CROSSING HEIGHT (TCH)	00037.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0832
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER 65CC471D

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+01623
FPAP ORTHOMETRIC HEIGHT	+01623



CITY AND STATE GALLATIN, TN	ELEVATION: 583 TDZE: 564	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 35, AMDT 2 23 JULY 2015	SUP:
	AIRPORT NAME: SUMNER COUNTY RGNL			AMDT: 1A
				DATED: 06/24/2014

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 PACKET - 424-18 - RNAV (GPS)

	1	2	3	4	5	6	7	8	9	0	1	2	3
NAVAID	12345678901	2345678901	2345678901	2345678901	2345678901	2345678901	2345678901	2345678901	2345678901	2345678901	2345678901	2345678901	23456789012
	SUSAD	BNA	K7011410VTH	N36081306W086410518	N36081306W086410518	W0020005662	NARNASHVILLE						
	SUSAD	BWG	K5011790VTHW	N36554347W086263636	N36554347W086263636	E0020005652	NARBOWLING GREEN						

	1	2	3	4	5	6	7	8	9	0	1	2	3
WP	12345678901	2345678901	2345678901	2345678901	2345678901	2345678901	2345678901	2345678901	2345678901	2345678901	2345678901	2345678901	23456789012
	SUSAEAENRT	APATY	K70	W	N36155971W086231441	W0038	NAR	APATY					
	SUSAEAENRT	HAGNO	K70	W	N36340577W086264606	W0038	NAR	HAGNO					
	SUSAEAENRT	JOBZO	K70	W	N36070462W086305172	W0037	NAR	JOBZO					
	SUSAEAENRT	OPCIL	K70	W	N36092059W086215709	W0038	NAR	OPCIL					
	SUSAEAENRT	WABOK	K70	W	N36194301W086235777	W0038	NAR	WABOK					

	1	2	3	4	5	6	7	8	9	0	1	2	3
AIRPORT	12345678901	2345678901	2345678901	2345678901	2345678901	2345678901	2345678901	2345678901	2345678901	2345678901	2345678901	2345678901	23456789012
	SUSAP M33	K7AM33	0	063YHN36223030W086243030W002000583	1800018000C	MNAR	SUMNER COUNTY	RGNL					

	1	2	3	4	5	6	7	8	9	0	1	2	3
SEGMENT	12345678901	2345678901	2345678901	2345678901	2345678901	2345678901	2345678901	2345678901	2345678901	2345678901	2345678901	2345678901	23456789012
	SUSAP M33	K7FR35	ABNA	010BNA	K7D OV	IF				18000			A JS
	SUSAP M33	K7FR35	ABNA	020JOBZOK7EA0E	A	020TF	09980084	+	03000				A JS
	SUSAP M33	K7FR35	ABNA	030OPCILK7EA0EE	B	010TF	07460076	+	03000				A JS
	SUSAP M33	K7FR35	ABWG	010BWG	K5D OV	IF				18000			A JS
	SUSAP M33	K7FR35	ABWG	020OPCILK7EA0EY	020TF		17740465	+	03000				A JS
	SUSAP M33	K7FR35	ABWG	030OPCILK7EA0EE	AR	HF	35310040	+	03000				A JS
	SUSAP M33	K7FR35	R	010OPCILK7EA0E	I	IF		+	03000	18000			A JS
	SUSAP M33	K7FR35	R	020APATYK7EA1E	F	051TF	35310067	+	02500			RW35	K7PGA JS
	SUSAP M33	K7FR35	R	020APATYK7EA2WALPV	ALNAV/VNAV	ALNAV							JS
	SUSAP M33	K7FR35	R	021WABOKK7EA0E	S	031TF	35310038	V	0130001302			-300	A JS
	SUSAP M33	K7FR35	R	030RW35	K7PGOGY	M	35310023		00570			-300	A JS
	SUSAP M33	K7FR35	R	040	0	M	3531	+	00814				A JS
	SUSAP M33	K7FR35	R	050HAGNOK7EA0EY	DF			+	03000				A JS
	SUSAP M33	K7FR35	R	060HAGNOK7EA0EE	R	HM	17300040	+	03000				A JS

	1	2	3	4	5	6	7	8	9	0	1	2	3
RUNWAY	12345678901	2345678901	2345678901	2345678901	2345678901	2345678901	2345678901	2345678901	2345678901	2345678901	2345678901	2345678901	23456789012
	SUSAP M33	K7GRW35	0063003531	N36215952W086242430+0805	+0132900533000037100R								

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

QUALITY
 16
 CHECKED

CITY AND STATE GALLATIN, TN	ELEVATION: 583 TDZE: 564 AIRPORT NAME: SUMNER COUNTY RGNL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 35, AMDT 2 23 JULY 2015	SUP: AMDT: 1A DATED: 06/24/2014
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U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - FAR PART 97.33

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

PP 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012

SUSAP M33 K7PR35 RW35 001 0000W35A0N3621595200W08624243005+013290300N3623276590W08624414500106750832000370F40050065CC471D
SUSAP M33 K7PR35 RW35 002E +01623+01623LPV 65627

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

SUSAP M33 K7SRW35 K7PG 0 18018003125 M



CITY AND STATE GALLATIN, TN	ELEVATION: 583 AIRPORT NAME: SUMNER COUNTY RGNL	TDZE: 564 FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 35, AMDT 2 23 JULY 2015	SUP:
				AMDT: 1A
				DATED: 06/24/2014

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
	BNA	BNA	010		IF		FB					
	BNA	JOBZO	020	IAF	TF		FB	2.0	099.8 (097.8T)	008.4	AA 03000	
	BNA	OPCIL	030		TF		FB	1.0	074.6 (072.6T)	007.6	AA 03000	
	BWG	BWG	010		IF		FB					
	BWG	OPCIL	020		TF		FO	2.0	177.4 (175.4T)	046.5	AA 03000	
	BWG	OPCIL	030	IAF	HF	R	FO		353.1 (351.1T)	004.0	AA 03000	
		OPCIL	010	FACF	IF		FB				AA 03000	
		APATY	020	FAF	TF		FB	0.5	353.1 (351.1T)	006.7	AA 02500	
		WABOK	021	SDF	TF		FB	0.3	353.1 (351.1T)	003.8	AA 01300	GS 01302
		RW35	030	MAP	TF		FO	0.3	353.1 (351.1T)	002.3	AT 00570	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		353.1 (351.1T)		AA 00814	
	HAGNO	050		DF		FO				AA 03000	
	HAGNO	060		HM	R	FO		173.0 (171.0T)	004.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	BNA	N360813.06	W0864105.18	N3608.218	W08641.086
	BWG	N365543.47	W0862636.36	N3655.725	W08626.606
	APATY	N361559.71	W0862314.41	N3615.995	W08623.240
	HAGNO	N363405.77	W0862646.06	N3634.096	W08626.768
	JOBZO	N360704.62	W0863051.72	N3607.077	W08630.862
	OPCIL	N360920.59	W0862157.09	N3609.343	W08621.952
	WABOK	N361943.01	W0862357.77	N3619.717	W08623.963
	RW35	N362159.52	W0862424.30	N3621.992	W08624.405

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW35	00533	37



CITY AND STATE GALLATIN, TN	ELEVATION: 583	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 35, AMDT 2 23 JULY 2015	SUP:
	AIRPORT NAME: SUMNER COUNTY RGNL			AMDT: 1A
				DATED: 06/24/2014

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.
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City, State	Airport	Effective Date	Amdt. No.
GALLATIN, TN	SUMNER COUNTY RGNL	23 JULY 2015	4

TAKEOFF MINIMUMS:

RWY 17: STANDARD.
RWY 35: 300 – 1 1/2 OR STANDARD WITH MINIMUM CLIMB OF 305 FT PER NM TO 900.

TEXTUAL DEPARTURE PROCEDURES:

RWY 35: CLIMB HEADING 353.06 TO 1800 BEFORE TURNING LEFT.

VISUAL CLIMB OVER AIRPORT:

TAKEOFF OBSTACLE NOTES:

NOTE: RWY 17: TREES BEGINNING 99 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 91 FT AGL/586 FT MSL. POLE 537 FT FROM DER, 605 FT LEFT OF CENTERLINE, 34 FT AGL/549 FT MSL. TREES BEGINNING 940 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 83 FT AGL/570 FT MSL.
NOTE: RWY 35: T-L TOWERS AND POLES BEGINNING 131 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 25 FT AGL/624 FT MSL. TERRAIN BEGINNING 171 FT FROM DER, 447 FT LEFT OF CENTERLINE, UP TO 592 FT MSL. VEHICLES ON ROAD BEGINNING 199 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 17 FT AGL/605 FT MSL. TREES AND POLES BEGINNING 923 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 91 FT AGL/702 FT MSL. BUILDINGS BEGINNING 1023 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 26 FT AGL/623 FT MSL. T-L TOWERS BEGINNING 1311 FT FROM DER, 452 FT LEFT OF CENTERLINE, UP TO 97 FT AGL/702 FT MSL. TREES AND POLES BEGINNING 3251 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, UP TO 96 FT AGL/718 FT MSL. T-L TOWERS BEGINNING 4374 FT FROM DER, 428 FT LEFT OF CENTERLINE, UP TO 95 FT AGL/722 FT MSL.

CONTROLLING OBSTACLES:

RWY 35: 783 FT MSL TREE, 362351.30N/0862455.40W. 769 FT MSL TREE, 362409.26N/0862446.85W.
OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: RWY 35 – 1502 FT MSL TOWER, 362804.00N/0862839.00W



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

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City, State	Airport	Effective Date	Amdt. No.
GALLATIN, TN	SUMNER COUNTY RGNL	23 JULY 2015	4

REMARKS:

FLIGHT INSPECTED BY:

KEVIN RIESE *Digitally signed by*
JULIE A MORGAN FICO 05/22/2015
May 29, 2015

REQUIRED EFFECTIVE DATE:

ROUTINE

DEVELOPED BY:

MIKE MELSSEN *Digitally signed by*
JULIE A MORGAN AJV-352 01/12/2015
Feb 04, 2015

APPROVED BY:

SUSAN CRUMB *Digitally signed by*
JULIE A MORGAN AJV-352
May 29, 2015

COORDINATED WITH:

AOPA, NBAA, ZME, BNA APP CON, AMGR.

CHANGES:

1. UPDATED TAKEOFF OBSTACLE NOTES.
2. CHANGED RWY 35 TAKEOFF MINIMUMS FROM 400 – 2 ½ OR STANDARD WITH MINIMUM CLIMB OF 373 FEET PER NM TO 900 TO 300 – 1 OR STANDARD WITH MINIMUM CLIMB OF 305 FT PER NM TO 900.

REASONS:

- 1, 2. NEW SURVEY DATA.



TERMINAL ROUTES				MISSED APPROACH	
FROM	TO	COURSE AND DISTANCE	ALTITUDE		
ODR VOR	EXUNE/I-SZK 15.39 DME	251.78 / 15.41	6200	LDA/GS: DA LDA: 8.54 MILES AFTER RAMKE/I-SZK 9.95 DME/RADAR OR AT JOKNI/I-SZK 1.41 DME FIX	
PSK VORTAC (IAF)	EXUNE/I-SZK 15.39 DME (NOPT)	076.90 / 22.59	5300	CLIMB TO 1800 THEN CLIMBING RIGHT TURN TO 5000 ON ODR VOR R-155 TO PARTE INT/LYH 28.64 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5000, OR AS DIRECTED BY ATC.	
EXUNE/I-SZK 15.39 DME (IF/IAF)	RAMKE/I-SZK 9.95 DME/RADAR	072.25 / 5.43 (I-SZK)	4300	ALTERNATE MA: CLIMB TO 1800 THEN CLIMBING RIGHT TURN TO 5000 DIRECT VIT NDB AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5000. (ADF REQUIRED).	
				ADDITIONAL FLIGHT DATA: HOLD SE, RT, 335.00 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD SE VINTON NDB, RT, 335.93 INBOUND. CHART FAS OBST: 1469 TOWER 371815N/0800236W CHART IN PLANVIEW: VINTON NDB. CHART PLANVIEW NOTE: LOC/AZIMUTH OFFSET 14.53 DEGREES. CHART CIRCLING ICON. CHART IN PLANVIEW ONLY: PSK 22.6 DME AT EXUNE. FAC CROSSES RWY C/L EXTENDED 3048 FROM THLD.	
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. HOLD W EXUNE, RT, 072.25 INBOUND, 5300 FT. IN LIEU OF PT (IAF) 3. FAC: <u>072.25</u> FAF: <u>RAMKE/I-SZK 9.95 DME/RADAR</u> DIST FAF TO MAP: <u>8.54</u> THLD: <u>9.71</u> 4. MIN. ALT: EXUNE 5300, RAMKE 4300, SKIRT OM/I-SZK 4.92 DME/RADAR 2680* 5. DIST TO THLD FROM OM: <u>4.67</u> MM: <u>-</u> IM: <u>-</u> 150 HAT: <u>-</u> 100 HAT: <u>-</u> GS ANT: <u>921</u> 6. MIN GS INCPT: <u>4300</u> GS ALT AT: <u>RAMKE 4300</u> OM: <u>2671</u> MM: <u>-</u> IM: <u>-</u> 7. GS ANGLE: <u>3.00</u> TCH: <u>54.9</u> 8. MSA FROM: ODR VOR 5700					
				MAG VAR: 8W	EPOCH YEAR: 2010

MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		LDA/GS: @		LDA: @			
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-LDA/GS 6	1615	1 1/8	440	1615	1 1/8	440	1615	1 1/8	440	1615	1 1/8	440			
S-LDA 6	2680	1	1505	2680	1	1505	2680	3	1505	2680	3	1505			
CIRCLING	2680	1 3/8	1505	2680	1 1/2	1505	2680	3	1505	2800	3	1625			
SKIRT OM/DME/RADAR															
S-LDA 6	1720	1	545	1720	1	545	1720	1 1/8	545	1720	1 1/8	545			
CIRCLING	1720	1 3/8	545	1720	1 3/8	545	2420	3	1245	2800	3	1625			

NOTES:
 CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO S-LDA 6 CATS C AND D. @ CAT A, B 1600-2, CAT C 1600-3, CAT D 1700-3
 CHART NOTE: CIRCLING NA NW OF RWY 6-24.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON PSK VORTAC AIRWAY RADIALS 021 CW 100.
 CHART PLANVIEW NOTE: LDA/GLIDE SLOPE
 (SEE FORM 8260-10)

CITY AND STATE ROANOKE, VA	ELEVATION: 1175 TDZE: 1175 AIRPORT NAME: ROANOKE RGNL/WOODRUM FIELD	FACILITY IDENTIFIER: I-SZK	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: LDA Y RWY 6, AMDT 12 20 AUGUST 2015	SUP: LDA RWY 6 AMDT: 11 DATED: 01/12/2012
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US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
LDA - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.25

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

NOTES, (CONT.):
 CHART PLANVIEW NOTE: DME OR RADAR REQUIRED.
 CHART PROFILE NOTE: VGSI AND LDA GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE} / TCH {FEET}).
 *LOC ONLY
 CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-LDA/GS 6 ALL CATS VISIBILITY TO 1 1/2.



CITY AND STATE ROANOKE, VA	ELEVATION: 1175	TDZE: 1175	FACILITY IDENTIFIER: I-SZK	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: LDA Y RWY 6, AMDT 12 20 AUGUST 2015	SUP: LDA RWY 6	
	AIRPORT NAME: ROANOKE RGNL/WOODRUM FIELD					AMDT: 11
						DATED: 01/12/2012

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

LDA STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.25

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ARINC SUMMARY - 424-18 - LDA

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	ODR	ODR	010		IF		FB					
	ODR	EXUNE	020		TF		FO				AA 06200	
	ODR	EXUNE	030	IAF	HF	R	FO		072.3()	T01.0	AA 05300	
	PSK	PSK	010	IAF	FC		FB		076.9()	020.6	AA 05300	
	PSK	EXUNE	020		CF		FB		076.9()	002.0	AA 05300	
		EXUNE	010	FACF	IF		FB				AA 05300	
		RAMKE	020	FAF	CF		FB		072.0()	005.4	AA 04300	
		SKIRT	021	SDF	CF		FB		072.0()	005.0	AA 02680	
		JOKNI	030	MAP	CF		FO		072.0()	003.5	AT 01580	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		072.3()		AA 01800	
	PARTE	050		CF		FO		155.0()	015.0	AA 05000	
	PARTE	060		HM	R	FO		335.0()	T01.0	AA 05000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	ODR	N371927.12	W0795844.35	N3719.452	W07958.739
	PSK	N370515.74	W0804246.44	N3705.262	W08042.774
	ISZK (DME)	N371919.65	W0795841.53	N3719.328	W07958.692
	PARTE	N370639.26	W0794822.11	N3706.654	W07948.369
	EXUNE	N371236.79	W0801602.77	N3712.613	W08016.046
	JOKNI	N371842.67	W0800017.63	N3718.711	W08000.294
	RAMKE	N371459.26	W0800955.67	N3714.988	W08009.928
	SKIRT	N371711.28	W0800414.45	N3717.188	W08004.241
	RW06	N371920.05	W0795902.40	N3719.334	W07959.040
	ISZK (LOC)	N371919.40	W0795842.30	N3719.323	W07958.705

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW06	01152	58



CITY AND STATE ROANOKE, VA	ELEVATION: 1175	TDZE: 1175	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP: LDA RWY 6
	AIRPORT NAME: ROANOKE RGNL/WOODRUM FIELD		I-SZK	LDA Y RWY 6, AMDT 12 20 AUGUST 2015	AMDT: 11
					DATED: 01/12/2012

LDA - STANDARD
INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.25

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TERMINAL ROUTES

MISSED APPROACH

FROM	TO	COURSE AND DISTANCE	ALTITUDE	LDA/GS: DA
ODR VOR	EXUNE/I-SZK 15.39 DME	251.78 / 15.41	6200	CLIMB TO 1800 THEN CLIMBING RIGHT TURN TO 5000 ON ODR VOR R-155 TO PARTE INT/LYH 28.64 DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5000, OR AS DIRECTED BY ATC. ALTERNATE MA: CLIMB TO 1800 THEN CLIMBING RIGHT TURN TO 5000 DIRECT VIT NDB AND HOLD, CONTINUE CLIMB-IN-HOLD TO 5000. (ADF REQUIRED). ADDITIONAL FLIGHT DATA: HOLD SE, RT, 335.00 INBOUND. CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD SE VINTON NDB, RT, 335.93 INBOUND. CHART IN PLANVIEW: VIT NDB. CHART PLANVIEW NOTE: LOC/AZMUTH OFFSET 14.53 DEGREES. CHART IN PLANVIEW ONLY: PSK 22.6 DME AT EXUNE. FAC CROSSES RWY C/L EXTENDED 3048 FROM THLD.
PSK VORTAC (IAF)	EXUNE/I-SZK 15.39 DME (NOPT)	076.90 / 22.59	5300	
EXUNE/I-SZK 15.39 DME (IF/IAF)	RAMKE/I-SZK 9.95 DME/RADAR	072.25 / 5.43 (I-SZK)	4300	

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- HOLD W EXUNE, RT, 072.25 INBOUND, 5300 FT. IN LIEU OF PT (IAF)
- FAC: 072.25 FAF: DIST FAF TO MAP: THLD:
- MIN. ALT: EXUNE 5300, RAMKE 4300
- DIST TO THLD FROM OM: 4.67 MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 921
- MIN GS INCPT: 4300 GS ALT AT: RAMKE 4300 OM: 2671 MM: - IM: -
- GS ANGLE: 3.00 TCH: 54.9
- MSA FROM: ODR VOR 5700

MAG VAR: 8W EPOCH YEAR: 2010

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A			LDA/GS: 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-LDA/GS 6	1425	3/4	250	1425	3/4	250	1425	3/4	250	1425	3/4	250			

NOTES:
 CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-LDA/GS 6 ALL CATS VISIBILITY TO 7/8 MILE.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON PSK VORTAC AIRWAY RADIALS 021 CW 100.
 CHART PLANVIEW NOTE: LDA/GLIDE SLOPE
 CHART PLANVIEW NOTE: DME OR RADAR REQUIRED.
 (SEE FORM 8260-10)

CITY AND STATE ROANOKE, VA	ELEVATION: 1175 TDZE: 1175	FACILITY IDENTIFIER: I-SZK	PROCEDURE NO./AMDТ NO./EFFECTIVE DATE: LDA Z RWY 6, ORIG 20 AUGUST 2015	SUP: 4
	AIRPORT NAME: ROANOKE RGNL/WOODRUM FIELD			AMDТ: NONE
				DATED

QUALITY

4

CHECKED

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
LDA - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.25

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

NOTES, (CONT.):

CHART PROFILE NOTE: VGS1 AND LDA GLIDEPATH NOT COINCIDENT.

CHART NOTE: MISSED APPROACH REQUIRES A MINIMUM CLIMB OF 350 FEET PER NM TO 3600, IF UNABLE TO MEET CLIMB GRADIENT, SEE LDA Y RWY 6.

CITY AND STATE

ROANOKE, VA

ELEVATION: 1175

TDZE: 1175

AIRPORT NAME:

ROANOKE RGNL/WOODRUM FIELD

FACILITY IDENTIFIER:

I-SZK

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

LDA Z RWY 6, ORIG

20 AUGUST 2015

SUP:

4

AMDT:

NONE

DATED:

QUALITY

CHECKED

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

LDA 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 - LDA

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	ODR	ODR	010		IF		FB					
	ODR	EXUNE	020		TF		FO				AA 06200	
	ODR	EXUNE	030	IAF	HF	R	FO		072.3 ()	T01.0	AA 05300	
	PSK	PSK	010	IAF	FC		FB		076.9 ()	020.6	AA 05300	
	PSK	EXUNE	020		CF		FB		076.9 ()	002.0	AA 05300	
		EXUNE	010	FACF	IF		FB				AA 05300	
		RAMKE	020	FAF	CF		FB		072.0 ()	005.4	AA 04300	
		RW06	030	MAP	CF		FO		072.0 ()	009.7	AT 01207	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		072.3 ()		AA 01800	
	PARTE	050		CF		FO		155.0 ()	015.0	AA 05000	
	PARTE	060		HM	R	FO		335.0 ()	T01.0	AA 05000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	ODR	N371927.12	W0795844.35	N3719.452	W07958.739
	PSK	N370515.74	W0804246.44	N3705.262	W08042.774
	ISZK (DME)	N371919.65	W0795841.53	N3719.328	W07958.692
	PARTE	N370639.26	W0794822.11	N3706.654	W07948.369
	EXUNE	N371236.79	W0801602.77	N3712.613	W08016.046
	RAMKE	N371459.26	W0800955.67	N3714.988	W08009.928
	RW06	N371920.05	W0795902.40	N3719.334	W07959.040
	ISZK (LOC)	N371919.40	W0795842.30	N3719.323	W07958.705

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW06	01152	58



CITY AND STATE ROANOKE, VA	ELEVATION: 1175	TDZE: 1175	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: ROANOKE RGNL/WOODRUM FIELD		I-SZK	LDA Z RWY 6, ORIG 20 AUGUST 2015	AMDT: NONE
					DATED:

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

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

TERMINAL ROUTES

MISSED APPROACH

FROM	TO	COURSE AND DISTANCE	ALTITUDE
PSK VORTAC	RIVRE (FB)	080.87 / 17.73	6000
ZOOMS	SUSGE (FB)	157.06 / 11.04	7000
SUSGE	WEXOD (FB)	152.12 / 5.79	6000
RIVRE (IAF)	DIXXY (FB)	072.01 / 5.06	5200
WEXOD (IAF)	DIXXY (FB)	112.92 / 6.50	5200
DIXXY (IF)	CLAMM (FB)	072.05 / 5.30	4300
CLAMM (FAF)	HIVLU/4.22 NM TO CAKIX (FB)	072.14 / 5.00	2700
(SEE FORM 8260-10)			

LNAV: CAKIX

CLIMBING RIGHT TURN TO 4000 DIRECT DEWET AND HOLD.

ADDITIONAL FLIGHT DATA:
 HOLD E, LT, 257.68 INBOUND.
 CHART FAS OBST: 1469 TOWER 371815N/0800236W
 2376 AAO 371627N/0801109W.
 CHART VDP AT 1.11 MILES TO CAKIX.
 CLAMM TO RW06: 3.00/58.
 CHART CIRCLING ICON.
 FAC CROSSES RWY C/L EXTENDED 3000 FROM THLD.
 CHART PLANVIEW NOTE: FINAL APPROACH COURSE
 OFFSET 14.53 DEGREES.

MAG VAR: 8W EPOCH YEAR: 2010

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. PROFILE STARTS AT DIXXY
3. FAC: 072.14 FAF: CLAMM DIST FAF TO MAP: 9.22 THLD: 9.70
4. MIN. ALT: DIXXY 5200, CLAMM 4300, HIVLU/4.22 NM TO CAKIX 2700
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
6. MIN GS INCPT: GS ALT AT: OM: MM: IM:
7. GS ANGLE: TCH: 34:1 IS CLEAR
8. MSA FROM: CAKIX 5700

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A			@					
CATEGORY =====>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LNAV MDA **	1720	3/4	545	1720	3/4	545	1720	1 1/8	545	1720	1 1/8	545			
LNAV MDA	1980	3/4	805	1980	3/4	805	1980	1 7/8	805	1980	1 7/8	805			
CIRCLING	1980	1	805	1980	1 1/4	805	2420	3	1245	2800	3	1625			

NOTES:
 CHART NOTE: CIRCLING NA NW OF RWY 6-24. @ CAT A, B 900-2, CAT C 1300-3, CAT D 1700-3
 CHART NOTE: DME/DME RNP-0.3 NA.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT PSK VORTAC ON AIRWAY RADIALS 069 CW 153.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ZOOMS ON V140 WESTBOUND AND V258 WESTBOUND.
 (SEE FORM 8260-10)



CITY AND STATE ROANOKE, VA	ELEVATION: 1175 TDZE: 1175 AIRPORT NAME: ROANOKE RGNL/WOODRUM FIELD	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 6, AMDT 3 20 AUGUST 2015	SUP: AMDT: 2 DATED 11/15/2012
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US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

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

TERMINAL ROUTES, (CONT.):

<u>FROM</u>	<u>TO</u>	<u>COURSE AND DISTANCE</u>	<u>ALTITUDE</u>
HIVLU/4.22 NM TO CAKIX	CAKIX (MAP) (FO)	072.14 / 4.22	
CAKIX (MAP)	1575 MSL	072.14	
1575 MSL	DEWET (FO)		4000

NOTES, (CONT.):

CHART NOTE: ** MISSED APPROACH REQUIRES MINIMUM CLIMB OF 276 FEET PER NM TO 2700.
 CHART NOTE: FOR INOPERATIVE MALSR, INCREASE LNAV ** CAT A AND B VISIBILITY TO 1 AND LNAV CAT A VISIBILITY TO 1, CAT C AND D VISIBILITY TO 2 1/2 MILE.



CITY AND STATE ROANOKE, VA	ELEVATION: 1175	TDZE: 1175	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 6, AMDT 3 20 AUGUST 2015	SUP:	
	AIRPORT NAME: ROANOKE RGNL/WOODRUM FIELD				AMDT:	2
					DATED:	11/15/2012

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 PACKET - 424-18 - RNAV (GPS)

NAVAID	1	2	3	4	5	6	7	8	9	0	1	2	3
1234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012													
SUSAD	PSK	K6011680V	HA	N37051574W080424644		N37051574W080424644	W0060021202		NARPULASKI				

WP	1	2	3	4	5	6	7	8	9	0	1	2	3
1234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012													
SUSAEAENRT	CAKIX	K60	W	N37190087W079593073				W0086	NAR		CAKIX		
SUSAEAENRT	CLAMM	K60	W	N37145963W080095505				W0084	NAR		CLAMM		
SUSAEAENRT	DEWET	K60	C	L N37055420W079511802				W0086	NAR		DEWET		
SUSAEAENRT	DIXXY	K60	C	L N37124053W080155302				W0084	NAR		DIXXY		
SUSAEAENRT	HIVLU	K60	W	N37171046W080041657				W0085	NAR		HIVLU		
SUSAEAENRT	RIVRE	K60	W	N37102751W080213456				W0083	NAR		RIVRE		
SUSAEAENRT	SUSGE	K60	W	N37190331W080275979				W0083	NAR		SUSGE		
SUSAEAENRT	WEXOD	K60	W	N37142133W080234478				W0083	NAR		WEXOD		
SUSAEAENRT	ZOOMS	K60	C	L N37283222W080350670				W0082	NAR		ZOOMS		

AIRPORT	1	2	3	4	5	6	7	8	9	0	1	2	3
123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012													
SUSAP	KROAK6AROA	0	068YHN37193170W079583150W008001175			1800018000C		MNAR		ROANOKE RGNL/WOODRUM FIELD			

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012													
SUSAP	KROAK6FR06	APSK	010PSK	K6D 0V	IF					18000		A	JS
SUSAP	KROAK6FR06	APSK	020RIVREK6EA0E	A 020TF		08090177		+ 06000				A	JS
SUSAP	KROAK6FR06	APSK	030DIXXYK6EA0EE	B 010TF		07200051		+ 05200				A	JS
SUSAP	KROAK6FR06	AZOOMS	010ZOOMSK6EA0E	IF						18000		A	JS
SUSAP	KROAK6FR06	AZOOMS	020SUSGEK6EA0E	020TF		15710110		+ 07000				A	JS
SUSAP	KROAK6FR06	AZOOMS	030WEXODK6EA0E	A 020TF		15210058		+ 06000				A	JS
SUSAP	KROAK6FR06	AZOOMS	040DIXXYK6EA0EE	B 010TF		11290065		+ 05200				A	JS
SUSAP	KROAK6FR06	R	010DIXXYK6EA0E	I IF				+ 05200		18000		A	JS
SUSAP	KROAK6FR06	R	020CLAMMK6EA1E	F 051TF		07210053		+ 04300			CAKIX K6EAA	JS	JS
SUSAP	KROAK6FR06	R	020CLAMMK6EA2WN		N	ALNAV						JS	
SUSAP	KROAK6FR06	R	021HIVLUK6EA0E	S 031TF		07210050		V 0270002707		-300		A	JS
SUSAP	KROAK6FR06	R	030CAKIXK6EA0EY	M 031TF		07210042		01368		-300		A	JS
SUSAP	KROAK6FR06	R	040	0 M CA		0721		+ 01575				A	JS
SUSAP	KROAK6FR06	R	050DEWETK6EA0EY	R DF				+ 04000				A	JS
SUSAP	KROAK6FR06	R	060DEWETK6EA0EE	L HM		25770040		+ 04000				A	JS

RUNWAY	1	2	3	4	5	6	7	8	9	0	1	2	3
123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012													

QUALITY
15
CHECKED

CITY AND STATE ROANOKE, VA	ELEVATION: 1175 TDZE: 1175	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: ROANOKE RGNL/WOODRUM FIELD	RNAV	RNAV (GPS) RWY 6, AMDT 3 20 AUGUST 2015	AMDT: 2
				DATED: 11/15/2012

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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 SUSAP KROAK6GRW06 0068000577 N37192005W079590240+0000 +0318801152000058150R

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

 SUSAP KROAK6SCAKIXK6EA 0 18018005725 M



CITY AND STATE ROANOKE, VA	ELEVATION: 1175 TDZE: 1175	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 6, AMDT 3 20 AUGUST 2015	SUP:
	AIRPORT NAME: ROANOKE RGNL/WOODRUM FIELD			AMDT: 2
				DATED: 11/15/2012

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
	PSK	PSK	010		IF		FB					
	PSK	RIVRE	020	IAF	TF		FB	2.0	080.9 (072.9T)	017.7	AA 06000	
	PSK	DIXXY	030		TF		FB	1.0	072.0 (064.0T)	005.1	AA 05200	
	ZOOMS	ZOOMS	010		IF		FB					
	ZOOMS	SUSGE	020		TF		FB	2.0	157.1 (149.1T)	011.0	AA 07000	
	ZOOMS	WEXOD	030	IAF	TF		FB	2.0	152.1 (144.1T)	005.8	AA 06000	
	ZOOMS	DIXXY	040		TF		FB	1.0	112.9 (104.9T)	006.5	AA 05200	
		DIXXY	010	FACF	IF		FB				AA 05200	
		CLAMM	020	FAF	TF		FB	0.5	072.1 (064.1T)	005.3	AA 04300	
		HIVLU	021	SDF	TF		FB	0.3	072.1 (064.1T)	005.0	AA 02700	GS 02707
		CAKIX	030	MAP	TF		FO	0.3	072.1 (064.1T)	004.2	AT 01368	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		072.1 (064.1T)		AA 01575	
	DEWET	050		DF	R	FO				AA 04000	
	DEWET	060		HM	L	FO		257.7 (249.7T)	004.0	AA 04000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	PSK	N370515.74	W0804246.44	N3705.262	W08042.774
	CAKIX	N371900.87	W0795930.73	N3719.015	W07959.512
	CLAMM	N371459.63	W0800955.05	N3714.994	W08009.918
	DEWET	N370554.20	W0795118.02	N3705.903	W07951.300
	DIXXY	N371240.53	W0801553.02	N3712.676	W08015.884
	HIVLU	N371710.46	W0800416.57	N3717.174	W08004.276
	RIVRE	N371027.51	W0802134.56	N3710.459	W08021.576
	SUSGE	N371903.31	W0802759.79	N3719.055	W08027.997
	WEXOD	N371421.33	W0802344.78	N3714.356	W08023.746
	ZOOMS	N372832.22	W0803506.70	N3728.537	W08035.112
	RW06	N371920.05	W0795902.40	N3719.334	W07959.040

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW06	01152	58



CITY AND STATE ROANOKE, VA	ELEVATION: 1175	TDZE: 1175	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: ROANOKE RGNL/WOODRUM FIELD		RNAV	RNAV (GPS) RWY 6, AMDT 3	AMDT: 2
				20 AUGUST 2015	DATED: 11/15/2012

[4910-13]

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 97

[Docket No. [31025](#); Amdt. No. [3650](#)]

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 [JUNE 19, 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
23-Jul-15	WI	New Richmond	New Richmond Rgnl	5/7846	06/02/15	This NOTAM, published in TL 15-15, is hereby rescinded in its entirety.
AIRAC DATE	STATE	CITY	AIRPORT	FDC NUMBER	FDC DATE	SUBJECT
23-Jul-15	WI	Baraboo	Baraboo Wisconsin Dells	5/0094	6/9/2015	RNAV (GPS) RWY 1, Amdt 1A
23-Jul-15	WI	Baraboo	Baraboo Wisconsin Dells	5/0095	6/9/2015	LOC/DME RWY 1, Amdt 1B
23-Jul-15	WI	Baraboo	Baraboo Wisconsin Dells	5/0097	6/9/2015	RNAV (GPS) RWY 19, Amdt 1A
23-Jul-15	OH	Jackson	James A Rhodes	5/0679	6/9/2015	VOR/DME-A, Amdt 2A
23-Jul-15	OH	Jackson	James A Rhodes	5/0680	6/9/2015	RNAV (GPS) RWY 19, Amdt 1B
23-Jul-15	OH	Jackson	James A Rhodes	5/0681	6/9/2015	RNAV (GPS) RWY 1, Amdt 1B
23-Jul-15	IA	Algona	Algona Muni	5/2064	6/8/2015	RNAV (GPS) RWY 12, Orig-B
23-Jul-15	IA	Algona	Algona Muni	5/2065	6/8/2015	RNAV (GPS) RWY 30, Amdt 1A
23-Jul-15	IA	Algona	Algona Muni	5/2066	6/8/2015	VOR/DME-A, Amdt 7A
23-Jul-15	TX	Rocksprings	Edwards County	5/2350	6/9/2015	VOR RWY 14, Amdt 5
23-Jul-15	MO	Caruthersville	Caruthersville Memorial	5/4038	6/9/2015	VOR/DME RWY 18, Orig
23-Jul-15	MO	Caruthersville	Caruthersville Memorial	5/4042	6/9/2015	RNAV (GPS) RWY 18, Amdt 1A
23-Jul-15	MO	Caruthersville	Caruthersville Memorial	5/4043	6/9/2015	RNAV (GPS) RWY 36, Amdt 1
23-Jul-15	WI	Middleton	Middleton Muni - Morey Field	5/4207	6/9/2015	VOR RWY 28, Orig
23-Jul-15	NM	Angel Fire	Angel Fire	5/4335	6/8/2015	RNAV (GPS) RWY 17, Amdt 1B
23-Jul-15	WI	Monroe	Monroe Muni	5/4607	6/9/2015	RNAV (GPS) RWY 12, Orig
23-Jul-15	WI	Monroe	Monroe Muni	5/4608	6/9/2015	RNAV (GPS) RWY 30, Orig
23-Jul-15	WI	Monroe	Monroe Muni	5/4609	6/9/2015	VOR/DME RWY 30, Amdt 8
23-Jul-15	CA	Vacaville	Nut Tree	5/9713	6/9/2015	RNAV (GPS) Z RWY 20, Orig-A
23-Jul-15	CA	Vacaville	Nut Tree	5/9714	6/9/2015	VOR/DME-A, Amdt 5
23-Jul-15	WI	Middleton	Middleton Muni - Morey Field	5/9940	6/9/2015	LOC/DME RWY 10, Amdt 1

23-Jul-15	WI	Middleton	Middleton Muni - Morey Field	5/9941	6/9/2015	RNAV (GPS) RWY 10, Amdt 1
23-Jul-15	WI	Middleton	Middleton Muni - Morey Field	5/9942	6/9/2015	RNAV (GPS) RWY 28, Amdt 2

AIRAC Date: 23 JULY 2015

FDC **5/0094** DLL IAP BARABOO WISCONSIN DELLS, BARABOO, WI. RNAV (GPS) RWY 1, AMDT 1A... DELETE NOTE: CIRCLING TO RWY 1 AND 19 NA AT NIGHT. CHANGE HELICOPTER VISIBILITY NOTE TO READ: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. THIS IS RNAV (GPS) RWY 1, AMDT 1B. 1506011316-PERM

FDC **5/0095** DLL IAP BARABOO WISCONSIN DELLS, BARABOO, WI. LOC/DME RWY 1, AMDT 1B... DELETE NOTE: CIRCLING TO RWY 1 AND 19 NA AT NIGHT. CHANGE HELICOPTER VISIBILITY NOTE TO READ: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. THIS IS LOC/DME RWY 1, AMDT 1C. 1506011318-PERM

FDC **5/0097** DLL IAP BARABOO WISCONSIN DELLS, BARABOO, WI. RNAV (GPS) RWY 19, AMDT 1A... DELETE NOTE: PROCEDURE NA AT NIGHT. CHANGE HELICOPTER VISIBILITY NOTE TO READ: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. THIS IS RNAV (GPS) RWY 19, AMDT 1B. 1506011320-PERM

FDC **5/0679** I43 IAP JAMES A RHODES, JACKSON, OH. VOR/DME-A, AMDT 2A... CHART NOTE: PROCEDURE NA AT NIGHT. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. THIS IS VOR/DME-A, AMDT 2B. 1506021246-PERM

FDC **5/0680** I43 IAP JAMES A RHODES, JACKSON, OH. RNAV (GPS) RWY 19, AMDT 1B... CHART NOTE: PROCEDURE NA AT NIGHT. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. 34:1 IS NOT CLEAR. THIS IS RNAV (GPS) RWY 19, AMDT 1C. 1506021246-PERM

FDC **5/0681** I43 IAP JAMES A RHODES, JACKSON, OH. RNAV (GPS) RWY 1, AMDT 1B... CHART NOTE: PROCEDURE NA AT NIGHT. CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. DELETE NOTE: VDP NA WITH GREATER PORTSMOUTH ALTIMETER SETTING. DELETE VDP. THIS IS RNAV (GPS) RWY 1, AMDT 1C. 1506021246-PERM

FDC **5/2064** AXA IAP ALGONA MUNI, ALGONA, IA. RNAV (GPS) RWY 12, ORIG-B... CHART NOTE: CIRCLING NA TO RWYS 18 AND 36. DELETE NOTE: RWY 12 STRAIGHT-IN AND CIRCLING MINIMUMS NA AT NIGHT. CHART NOTE: NIGHT LANDING: RWY 12 NA. THIS IS RNAV (GPS) RWY 12 ORIG-C. 1506031952-PERM

FDC **5/2065** AXA IAP ALGONA MUNI, ALGONA, IA. RNAV (GPS) RWY 30, AMDT 1A... CHART NOTE: CIRCLING NA TO RWYS 18 AND 36. THIS IS RNAV (GPS) RWY 30, AMDT 1B. 1506031952-PERM

FDC **5/2066** AXA IAP ALGONA MUNI, ALGONA, IA. VOR/DME-A, AMDT 7A...
CHART NOTE: CIRCLING NA TO RWYS 18 AND 36. THIS IS VOR/DME-A, AMDT
7B. 1506031952-PERM

FDC **5/2350** ECU IAP EDWARDS COUNTY, ROCKSPRINGS, TX. VOR RWY 14,
AMDT 5... CHART NOTE: PROCEDURE NA AT NIGHT. CHART NOTE:
HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. DELETE
VDP. DELETE: DESCENT ANGLE 3.02/TCH 45. CHART PROFILE NOTE:
DESCENT ANGLE NA. THIS IS VOR RWY 14, AMDT 5A. 1506041100-PERM

FDC **5/4038** M05 IAP CARUTHERSVILLE MEMORIAL, CARUTHERSVILLE, MO.
VOR/DME RWY 18, ORIG... CHANGE NOTE: VISIBILITY REDUCTION BY
HELICOPTER NA, TO READ: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM
NOT AUTHORIZED. CHART NOTE: PROCEDURE NA AT NIGHT. THIS IS
VOR/DME RWY 18 ORIG-A. 1506051518-PERM

FDC **5/4042** M05 IAP CARUTHERSVILLE MEMORIAL, CARUTHERSVILLE, MO.
RNAV (GPS) RWY 18, AMDT 1A... CHART NOTE: PROCEDURE NA AT NIGHT.
CHANGE NOTE: VISIBILITY REDUCTION BY HELICOPTER NA, TO READ:
HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. THIS IS
RNAV (GPS) RWY 18, AMDT 1B. 1506051521-PERM

FDC **5/4043** M05 IAP CARUTHERSVILLE MEMORIAL, CARUTHERSVILLE, MO.
RNAV (GPS) RWY 36, AMDT 1... CHANGE NOTE: VISIBILITY REDUCTION BY
HELICOPTER NA, TO READ: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM
NOT AUTHORIZED. CHART NOTE: PROCEDURE NA AT NIGHT. THIS IS RNAV
(GPS) RWY 36, AMDT 1A. 1506051523-PERM

FDC **5/4207** C29 IAP MIDDLETON MUNI - MOREY FIELD, MIDDLETON, WI. VOR
RWY 28, ORIG... CHART NOTE: CIRCLING NA TO RWYS 1 AND 9. THIS IS VOR
RWY 28 ORIG-A. 1506051720-PERM

FDC **5/4335** AXX IAP ANGEL FIRE, ANGEL FIRE, NM. RNAV (GPS) RWY 17, AMDT
1B... DELETE NOTE: PROCEDURE NA AT NIGHT. THIS IS RNAV (GPS) RWY 17,
AMDT 1C. 1506052157-PERM

FDC **5/4607** EFT IAP MONROE MUNI, MONROE, WI. RNAV (GPS) RWY 12,
ORIG... CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM
NOT AUTHORIZED. 34:1 IS NOT CLEAR. THIS IS RNAV (GPS) RWY 12 ORIG-A.
1506081230-PERM

FDC **5/4608** EFT IAP MONROE MUNI, MONROE, WI. RNAV (GPS) RWY 30,
ORIG... CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM
NOT AUTHORIZED. 34:1 IS NOT CLEAR. THIS IS RNAV (GPS) RWY 30 ORIG-A.
1506081230-PERM

FDC **5/4609** EFT IAP MONROE MUNI, MONROE, WI. VOR/DME RWY 30, AMDT 8...
CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT
AUTHORIZED. THIS IS VOR/DME RWY 30, AMDT 8A. 1506081230-PERM

FDC **5/9713** VCB IAP NUT TREE, VACAVILLE, CA. RNAV (GPS) Z RWY 20, ORIG-
A... CHART NOTE: NIGHT LANDING: RWY 2 NA.. DELETE NOTE: VISIBILITY
REDUCTION BY HELICOPTERS NA. CHART NOTE: HELICOPTER VISIBILITY
REDUCTION BELOW 3/4 SM NOT AUTHORIZED. THIS IS RNAV (GPS) Z RWY 20
ORIG-B. 1505291952-PERM

FDC **5/9714** VCB IAP NUT TREE, VACAVILLE, CA. VOR/DME-A, AMDT 5... CHART
NOTE: NIGHT LANDING: RWY 2 NA CHART NOTE: HELICOPTER VISIBILITY
REDUCTION BELOW 1 SM NOT AUTHORIZED. THIS IS VOR/DME-A, AMDT 5A.
1505291952-PERM

FDC **5/9940** C29 IAP MIDDLETON MUNI - MOREY FIELD, MIDDLETON, WI.
LOC/DME RWY 10, AMDT 1... CHART NOTE: CIRCLING NA TO RWYS 1 AND 19.
DELETE NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA. CHART NOTE:
HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. THIS
IS LOC/DME RWY 10, AMDT 1A. 1505311926-PERM

FDC **5/9941** C29 IAP MIDDLETON MUNI - MOREY FIELD, MIDDLETON, WI. RNAV
(GPS) RWY 10, AMDT 1... CHART NOTE: CIRCLING NA TO RWYS 1 AND 19.
DELETE NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA. CHART NOTE:
HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.. THIS
IS RNAV (GPS) RWY 10, AMDT 1A. 1505311926-PERM

FDC **5/9942** C29 IAP MIDDLETON MUNI - MOREY FIELD, MIDDLETON, WI. RNAV
(GPS) RWY 28, AMDT 2... CHART NOTE: CIRCLING NA TO RWYS 1 AND 9.
DELETE NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA. CHART NOTE:
HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED. THIS
IS RNAV (GPS) RWY 28, AMDT 2A. 1505311926-PERM