

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33

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

<u>AIRPORT</u> STAFFORD RGNL	<u>AIRPORT ID</u> KRMN	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 33	<u>ORIGINAL/AMENDMENT</u> 1A	<u>CITY</u> STAFFORD	<u>STATE</u> VA
<u>AIRPORT ELEVATION</u> 211	<u>TDZE</u> 195	<u>SUPERSEDED</u> RNAV (GPS) RWY 33	<u>ORIGINAL/AMENDMENT</u> 1	<u>DATED</u> 09/30/2004	<u>MAG VAR</u> 10W
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 3 JANUARY 2019	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 2000

TERMINAL ROUTES

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
ZUNAR		GRUBY		TF	FB	2.00	322.42	10.58	3000
PEGBY		GRUBY		TF	FB	2.00	019.37	7.87	3000
GRUBY	IAF	RISVE		TF	FB	1.00	301.89	5.73	3000
RISVE	IF	CODAC		TF	FB	1.00	329.26	6.30	2000
CODAC	FAF	JAVIK/2.40 NM TO RW33		TF	FB	0.30	329.21	3.11	
JAVIK/2.40 NM TO RW33		RW33	MAP	TF	FO	0.30	329.21	2.40	
RW33	MAP	450 MSL		CA			329.21		
450 MSL		KOBEC		DF	FB	1.00			
KOBEC		TECOV		TF	FB	1.00	209.16	8.50	
TECOV		FALKO		TF	FO	1.00	151.39	12.75	4000

MISSED APPROACH

MAP:

LPV: DA
 LNAV/VNAV: DA
 LNAV: RW33

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4000 DIRECT KOBEC AND LEFT TURN ON TRACK 209.16 TO TECOV AND LEFT TURN ON TRACK 151.39 TO FALKO AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)

2. PROFILE STARTS AT RISVE

3. FAC: 329.21

FAF: CODAC

DIST FAF TO MAP: 5.51

DIST FAF TO THLD: 5.51

4. MIN ALT: RISVE 3000, CODAC 2000, JAVIK/2.40 NM TO RW33 980*

5. DIST TO THLD FROM OM:

MM:

IM:

150 HAT:

255 HAT: 0.72

GS ANT:

6. MIN GP INCPT: 2000

GP ALT AT FAF : CODAC 2000

OM:

MM:

IM:

7. GP ANGLE: 3.05

34:1: IS CLEAR

20:1: IS CLEAR

TCH: 45.6

8. MSA FROM: RW33 2500

PBN REQUIREMENTS NOTE:

RNP APCH

NOTES:

CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV ALL CATS.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15C OR ABOVE 54C.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT GRUBY ON V286 SOUTHEAST BOUND AND V376 SOUTHBOUND.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV CAT C/D VISIBILITY TO 1 3/8 SM.

ADDITIONAL FLIGHT DATA:

CHART DEMO MOA, HILL MOA, R-6601
CHART R-6612, R-6611A
CHART VDP AT 1.51 NM TO RW33*
*LNAV ONLY
WAAS CHANNEL #81805
REFERENCE PATH ID: W33A
CHART FAS OBST: 412 TOWER 382246N/0772507W.
HOLD SW, LT, 030.85 INBOUND
LTP HAE: 19.8 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LPV DA	450	3/4	255	450	3/4	255	450	3/4	255	450	1	255			
LNAV/VNAV DA	546	3/4	351	546	3/4	351	546	3/4	351	546	1	351			
LNAV MDA	700	3/4	505	700	3/4	505	700	1 1/2	505	700	1 1/2	505			
CIRCLING	720	1	509	740	1	529	840	1 3/4	629	880	2	669			



CHANGES - REASONS

- 1. DELETED CHART NOTE; DME/DME RNP-0.3 NA - IAW 8260.19H 8-6-8 (B(1)) PBN NAVSPEC.
- 2. DELETED CHART NOTE; IF LOCAL ALTIMETER SETTING NOT RECEIVED, USE SHANNON, FREDERICKSBURG, VA ALTIMETER SETTING AND INCREASE ALL DAS/MDAS 40 FEET. - NOTE MOVED TO BACK OF -9 AND MADE CONTINGENCY REMOTE ALTIMETER NOTE.
- 3. DELETED CHART NOTE; VDP AND BARO-VNAV NA WHEN USING SHANNON, FREDERICKSBURG, VA ALTIMETER SETTING - NOTE MOVED TO BACK OF -9 AND MADE CONTINGENCY REMOTE ALTIMETER NOTE.
- 4. DELETED CHART NOTE; INOPERATIVE TABLE DOES NOT APPLY TO LNAV CAT C - NEW VIS-CHECK WORKSHEET INCORPORATES INOPERATIVE TABLE.
- 5. CHANGED CHART NOTE FROM "BARO/VNAV NA BELOW -15C (5F)" TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -15C OR ABOVE 54C" - NEW REPORTS FORMAT ELIMINATED FAHRENHEIT VALUES.
- 6. CHANGED LNAV/VNAV MDA/HAT FROM "460/264" TO "546/351" - CONTROLLING OBSTACLE UPDATED FROM "196 FOOT ROAD" TO "361 FOOT TOWER".
- 7. CHANGED LPV HAT FROM "254" TO "255" - THRESHOLD ELEVATION CHANGED FROM "196" TO "195.2".
- 8. CHANGED LNAV HAT FROM "504" TO "505" - THRESHOLD ELEVATION CHANGED FROM "196" TO "195.2".
- 9. CHANGED VDP LOCATION FROM "1.52 NM " TO "1.51 NM" - UPDATED LOCATION FOUND DURING PROCEDURE AMENDMENT.
- 10. DESCENT ANGLE CHANGED FROM "3.00" TO "3.05" - WITH CURRENT LOCATION OF FAF, ANGLE INCREASED 0.05 DEGREES.
- 11. CHANGED INTERMEDIATE RNP FROM "0.50" TO "1.00" - UPDATED TO 8260.58A CHANGE 1 TABLE 1-2-1.
- 12. ADDED 20:1 CLEAR TO LINE 7 - IAW 8260.19H 8-6-7 (G(3)) FOR DOCUMENTING CLEAR SLOPES FOR RNAV PROCEDURE.
- 13. ADDED PBN REQUIREMENTS NOTE: RNP APCH - IAW 8260.19H 8-6-8 (B(1)) PBN NAVSPEC.
- 14. ADDED CHART NOTE; FOR INOPERATIVE ALS, INCREASE LNAV CAT C/D VISIBILITY TO 1 3/8 SM - INCREASE NOTED BY UPDATED VIS-CHECK WORKSHEET.
- 15. CHANGED FAS OBST FROM "400 TOWER 382246.90N/0772508.10W" TO "412 TOWER 382246N/0772507W" - NEW CONTROLLING OBSTACLE.
- 16. DELETED FAS OBST; 196 ROAD 382319.29N/772643.08W - OBSTACLE NO LONGER CONTROLLING OBSTACLE.
- 17. CHANGED "DISTANCE TO THLD FROM 254 HAT: 0.73 NM" TO "DISTANCE TO THLD 255 HAT: 0.72 NM" - CHANGED DUE TO ONE FOOT INCREASE IN HAT.
- 18. CHANGED CRC REMAINDER FROM "FFC0265D" TO "68CC6159" - LTP/FTP ELLIPSOIDAL HEIGHT CHANGED FROM "+00200" TO "+00198" AND GLIDEPATH ANGLE CHANGED FROM "3.00" TO "3.05".
- 19. ADDED CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV ALL CATS - PER VIS-CHECK TOOL.

NOTAM IFDC 8/7037 INCORPORATED INTO THIS AMENDMENT.

PDF EDIT 8/20/19: JAMES LAFFERTY, DELETED STATEMENT "ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED".



COORDINATED WITH:

A4A

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ALPA

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AOPA

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APA

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HAI

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NBAA

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OTHER:

ZDC, NYG APP CON, PCT APP CON, A/P MGR, VA DOT

FLIGHT CHECKED BY

BOB S PRESSLER

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Oct 29, 2018

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Sep 11, 2018

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Oct 29, 2018

OFFICE

FICO

OFFICE

AJV-5433

OFFICE

AJV-5430

DATE

10/23/18

DATE

08/20/2018

DATE

TITLE

MANAGER



FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KRMN
RUNWAY	RW33
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W33A
LTP/FTP LATITUDE	382334.4600N
LTP/FTP LONGITUDE	0772659.1400W
LTP/FTP ELLIPSOIDAL HEIGHT	+00198
FPAP LATITUDE	382411.8500N
FPAP LONGITUDE	0772740.2200W
THRESHOLD CROSSING HEIGHT (TCH)	00045.6
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.05
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1224
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	68CC6159
ADDITIONAL PATH POINT RECORD INFORMATION	
ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00522
FPAP ORTHOMETRIC HEIGHT	+00522

