

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (RNP) STANDARD INSTRUMENT APPROACH PROCEDURE**

TITLE 14 CFR PART 97.33

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated.
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 ID</u> KMFR	<u>PROCEDURE NAME</u> RNAV (RNP) Z RWY 14	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> MEDFORD	<u>STATE</u> OR		
<u>AIRPORT ELEVATION</u> 1335	<u>TDZE</u> 1303	<u>SUPERSEDED</u> RNAV (RNP) Z RWY 14	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<u>DATED</u> 06/30/2011	<u>MAG VAR</u> 16E	<u>EPOCH YEAR</u> 2010
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 3 NOVEMBER 2022	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

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>
LANKS	IAF	WOTSU		TF	FB	1.00	299.21	8.06	5300
TALEM	IAF	GUULS		TF	FB	1.00	313.07	6.00	6900
GUULS		JIVTI		TF	FB	0.80	313.02	11.04	5700
PAPLE	IAF	JIVTI		TF	FB	1.00	040.72	8.04	5600
SAMIE	IAF	FISTA		TF	FB	1.00	142.67	2.98	5400
WOTSU	IF	ADAYA		TF	FB	1.00	299.12	7.60	5300
ADAYA		OSSAJ	PFAF	RF	FB	1.00	(2.25 NM RADIUS CCW (CFFSL))	6.14	3900
JIVTI	IF	JAABE		TF	FB	1.00	351.08	6.62	4700
JAABE		HURSH		RF	FB	1.00	(2.59 NM RADIUS CW (CFFST))	0.64	4600
HURSH		CLING		RF	FB	1.00	(2.59 NM RADIUS CW (CFFST))	2.62	4500
CLING		OSSAJ	PFAF	RF	FB	0.30	(2.59 NM RADIUS CW (CFFST))	3.58	3900
FISTA	IF	HOGGN		TF	FB	1.00	142.68	3.15	4300
HOGGN		OSSAJ	PFAF	TF	FB	0.90	142.70	2.60	3900
OSSAJ	PFAF	RW14	MAP	TF	FO	0.30	142.72	8.00	
RW14	MAP	WEMOM		TF	FB	1.00	142.76	5.07	
WEMOM		CUDUB		RF	FB	1.00	(6.74 NM RADIUS CCW (CFFWK))	5.43	
CUDUB		HUBUX		RF	FB	1.00	(14.92 NM RADIUS CW (CFFWP))	7.88	
HUBUX		HORUG		RF	FB	1.00	(6.80 NM RADIUS CCW (CFFVC))	21.02	

QUALITY
42
CHECKED

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
HORUG		CUTTR		TF	FO	1.00	310.01	28.46	9000

MISSED APPROACH**MAP:**

RNP: DA

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 9000 ON TRACK 142.76 TO WEMOM, LEFT TURN TO CUDUB, RIGHT TURN HUBUX, LEFT TURN HORUG, THEN ON TRACK 310.01 TO CUTTR AND HOLD.

*MISSED APPROACH REQUIRES MINIMUM CLIMB OF 244 FEET PER NM TO 5000.

ALTERNATE MISSED APPROACH INSTRUCTIONS:**PROFILE:**

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

2. PROFILE STARTS AT OSSAJ

3. FAC: 142.72 PFAF: OSSAJ DIST PFAF TO MAP: DIST PFAF TO THLD:

4. MIN ALT: OSSAJ 3900

5. DIST TO THLD FROM PFAF: 8.00 MM: IM: 150 HAT: 456 HAT: 1.28 GS ANT:

6. MIN GP INCPT: 3900 GP ALT AT PFAF : OSSAJ 3900 OM: MM: IM:

7. GP ANGLE: 3.00 34:1: IS CLEAR 20:1: IS CLEAR TCH: 58.1

8. MSA FROM: RW14 10400

PBN REQUIREMENTS NOTE:

RNP AR APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -6°C OR ABOVE 54°C.

CHART PLANVIEW NOTE AT TALEM, PAPLE: (RNP 0.30).

CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.

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

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT LANKS ON V122 SOUTHEAST BOUND.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT TALEM ON V23 SOUTHBOUND.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT PAPLE ON V495 SOUTHBOUND AND ON V122 SOUTHWEST BOUND.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT SAMIE ON V448 AND ON T355 NORTHWEST BOUND.

CHART PLANVIEW NOTE AT SAMIE: (RNP 0.90)

CHART NOTE: FOR INOPERATIVE ALS, INCREASE RNP 0.30 ALL CATS VISIBILITY TO 2 SM.

CHART SPEED ICON IN PLANVIEW AT SAMIE: MAX 210 KIAS.

CHART SPEED ICON IN PLANVIEW AT FISTA: MAX 180 KIAS.

CHART SPEED ICON IN PLANVIEW AT WOTSU: MAX 190 KIAS.

CHART SPEED ICON IN PLANVIEW AT JIVTI: MAX 180 KIAS.

ADDITIONAL FLIGHT DATA:

HOLD S, RT, 016.96 INBOUND.

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
AUTHORIZATION REQUIRED															
RNP 0.30 DA*	1759	4500	456	1759	4500	456	1759	4500	456	1759	4500	456			
RNP 0.30 DA	2049	1 3/4	746	2049	1 3/4	746	2049	1 3/4	746	2049	1 3/4	746			

CHANGES - REASONS

1. ADDED SEGMENTS TALEM TO GUULS AND GUULS TO JIVTI - PER FPT/ATC REQUEST.
2. CHANGED ALTITUDE FROM PAPLE TO JIVTI FROM 5700 TO 5600 AND COURSE FROM 040.73 TO 040.72 - PER FPT/ATC REQUEST.
3. REMOVED SEGMENT WOTSU TO YIDUG AND YIDUG TO ZOPRA AND CNF (IJXEF) 2.80 NM RADIUS - PER FPT/ATC REQUEST.
4. ADDED SEGMENT WOTSU TO ADAYA AND ADAYA TO OSSAJ AND CNF (CFFSL) 2.25 NM RADIUS- PER FPT/ATC REQUEST.
5. REMOVED SEGMENT JIVTI TO HOMAB, HOMAB TO ODSTO AND CNF (IZCIW) 2.70 NM RADIUS FIX AND ODSTO TO ZOPRA AND CNF (IZCIW) 2.70 NM RADIUS FIX - PER FPT/ATC REQUEST.
6. ADDED SEGMENT JIVTI TO JAABE, JAABE TO HURSH AND CNF (CFFST) 2.59 NM RADIUS FIX, HURSH TO CLING AND CNF (CFFST) 2.59 NM RADIUS FIX AND CLING TO OSSAJ AND CNF (CFFST) 2.59 NM RADIUS FIX - PER FPT/ATC REQUEST.
7. REMOVED SEGMENT FISTA TO AMASE AND AMASE TO OSSAJ AND OSSAJ TO ZOPRA - PER FPT/ATC REQUEST.
8. ADDED SEGMENT FISTA TO HOGGN AND HOGGN TO OSSAJ - PER FPT/ATC REQUEST.
9. FINAL SEGMENT CHANGED FROM ZOPRA TO DA TO OSSAJ TO RW14 - PER CURRENT CRITERIA 8260.19I 8-6-4A(6)(C).
10. UPDATED MISSED APPROACH CNF FIX FROM WEMOM TO CUDUB FROM (6.75 NM RADIUS CCW IJYUW)/5.43 TO (6.74 NM RADIUS CCW (CFFWK)) - CURRENT NAMING CONVENTION PER CURRENT CRITERIA.
11. UPDATED MISSED APPROACH CNF FIX FROM CUDUB TO HUBUX FROM (15.00 NM RADIUS CW IXEQU)/7.88 TO (14.92 NM RADIUS CW (CFFWP)) - CURRENT NAMING CONVENTION PER CURRENT CRITERIA.
12. UPDATED MISSED APPROACH CNF FIX FROM HUBUX TO HORUG FROM (6.80 NM RADIUS CCW OYOYY)/20.99 TO (6.80 NM RADIUS CCW (CFFVC)) - CURRENT NAMING CONVENTION PER CURRENT CRITERIA.
13. UPDATED DISTANCE FROM HORUG TO CUTTR FROM 28.4 TO 28.46 - RECALCULATED DISTANCES.
14. PROFILE LINE 2: PROFILE STARTS AT CHANGED FROM ZOPRA TO OSSAJ - PER FPT/ATC REQUEST.
15. PROFILE LINE 6: MIN GP INCPY CHANGED FROM 3100 TO 3900 AND GP ALT AT PFAF CHANGED FROM ZOPRA 3100 TO OSSAJ 3900 - PFAF FIX AND ALT CHANGED PER FPT/ATC REQUEST.
16. PROFILE LINE 7: ADDED 20:1 IS CLEAR - NO 20:1'S/PER CURRENT CRITERIA.
17. PROFILE LINE 8: MSA CHANGED FROM RW14 10800 TO RW14 10400 - NEW CONTROLLING OBSTACLE.
18. ADDED PBN REQUIREMENTS NOTE: RNP AR APCH - GPS AND DELETED GPS REQUIRED AND RF REQUIRED NOTES - IAW 8260.19 PARA 8-6-8 B.
19. CHART NOTE: CHANGED FROM FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -8C (17C) OR ABOVE 45C (113C) TO FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -6C OR ABOVE 54C - CRITICAL TEMP 5 YEAR HISTORY UPDATED.
20. REMOVED CHART SPEED ICON IN PLANVIEW AT HOMAB AND YIDUG - REMOVED FIXES FROM APPROACH PER FPT/ATC REQUEST.
21. ADDED CHART SPEED ICON IN PLANVIEW AT SAMIE: MAX 210 KIAS - PER FPT/ATC REQUEST.
22. CHART SPEED ICON IN PLANVIEW AT FISTA: MAX 180 KIAS - PER FPT/ATC REQUEST.
23. CHART SPEED ICON IN PLANVIEW AT WOTSU: MAX 190 KIAS - PER FPT/ATC REQUEST.
24. CHART SPEED ICON IN PLANVIEW AT JIVTI: MAX 180 KIAS - PER FPT/ATC REQUEST.
25. LINE OF MINIMUMS: RNP 0.30 DA* CHANGED FROM 1665 DA/362 HAT TO 1759 DA/456 HAT AND VIS CHANGED FROM RVR 4000 TO RVR 4500 ALL CATS - NEW CONTROLLING OBS.
26. LINE OF MINIMUMS: RNP 0.30 DA CHANGED FROM 2131 DA/828 HAT TO 2049 DA/746 HAT AND VIS CHANGED FROM 2 1/2 SM TO 1 3/4 SM ALL CATS - NEW CONTROLLING OBS.
27. CHANGED MISSED APPROACH CLIMB GRADIENT FROM 259 FEET PER NM TO 8300 TO 244 FEET PER NM TO 5000 - UPDATED OBSTACLE DATABASE AND MAP STUDY.



COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZSE, CASCADE APP CON, AMGR

FLIGHT CHECKED BY

TODD D HAIFLEY

Digitally signed by

ERIC N SUSKI

Sep 19, 2022

OFFICE

FPO

DATE

09/15/2022

DEVELOPED BY

TARA MARTINELLI

Digitally signed by

ERIC N SUSKI

Sep 19, 2022

OFFICE

AJV-A431

DATE

05/26/2022

APPROVED BY

LONNIE EVERHART

Digitally signed by

ERIC N SUSKI

Sep 19, 2022

OFFICE

AJV-A430

DATE

TITLE
MANAGER