

**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.

<b>AIRPORT ID</b> RDM	<b>PROCEDURE NAME</b> RNAV (RNP) Z RWY 23	<b>ORIGINAL/AMENDMENT</b> 2A	<b>CITY</b> REDMOND	<b>STATE</b> OR
<b>AIRPORT ELEVATION</b> 3082	<b>TDZE</b> 3067	<b>SUPERSEDED</b> RNAV (RNP) Z RWY 23	<b>DATED</b> 08/20/2015	<b>MAG VAR</b> 14E
<b>FACILITY</b> RNAV	<b>COORDINATES OF FACILITIES</b>	<b>ACTUAL EFFECTIVE DATE</b>	<b>REQUIRED EFFECTIVE DATE</b> ROUTINE	<b>EPOCH YEAR</b> 2020
			<b>CANCEL/SUSPEND</b>	

**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>
ARNOY	IAF	WURUK		TF	FB	0.70	170.59	5.36	7900
SAKKO	IAF	IGISE		TF	FB	1.00	319.69	6.45	6600
URBIA	IAF	FOVOK		TF	FB	1.00	343.78	3.52	7000
DSD VORTAC	IAF	CANAM		TF	FB	1.00	036.20	6.60	6700
WISSL	IAF	JUSLU		TF	FB	1.00	124.40	16.06	6600
CUPRI	IAF	JUSLU		TF	FB	1.00	150.54	13.76	6600
IGISE		CUXEP		RF	FB	1.00	(5.00 NM RADIUS CCW (CFBWF))	2.89	6300
FOVOK		POWEL		RF	FB	1.00	(6.20 NM RADIUS CW (CFBWD))	8.52	6600
WURUK		CAGOG		TF	FB	0.70	170.58	4.07	6200
CANAM	IF	URHAZ		TF	FB	1.00	031.58	3.07	6300
CAGOG	IF	RETDO		TF	FB	0.70	226.52	4.41	5000
POWEL	IF	JAPUV		TF	FB	1.00	062.61	3.19	6300
JUSLU	IF	JIDUT		TF	FB	1.00	097.83	4.58	6100
CUXEP	IF	FIXEV		TF	FB	1.00	286.49	3.34	5800
JAPUV		HOGEP		RF	FB	1.00	(2.88 NM RADIUS CCW (CFBWC))	3.84	6300
URHAZ		JIDUT		RF	FB	1.00	(2.61 NM RADIUS CW (CFBVW))	3.02	6100
JIDUT		YIGUS		RF	FB	1.00	(2.61 NM RADIUS CW (CFBVW))	3.30	5100
HOGEP		WUSIV		RF	FB	1.00	(3.61 NM RADIUS CCW (CFBVZ))	3.78	5100
FIXEV		WUSIV		TF	FB	1.00	286.46	2.21	5100
RETDO		ZETBU	PFAF	TF	FB	0.70	226.46	2.21	4300
YIGUS		ZETBU	PFAF	RF	FB	1.00	(2.61 NM RADIUS CW (CFBVV))	2.55	4300
WUSIV		ZETBU	PFAF	RF	FB	1.00	(2.50 NM RADIUS CCW (CFBVX))	2.62	4300
ZETBU	PFAF	RW23	MAP	TF	FO	0.30	226.42	3.77	
RW23	MAP	TIKNE		TF	FB	1.00	226.42	6.72	

QUALITY  
29  
CHECKED

**AIRPORT ID**  
RDM

**PROCEDURE NAME**  
RNAV (RNP) Z RWY 23

**ORIGINAL/AMENDMENT**  
2A

**CITY**  
REDMOND

**STATE**  
OR

TIKNE		PUKAJ		RF	FB	1.00	(5.85 NM RADIUS CCW (CFBDZ))	13.90	
PUKAJ		URBIA		TF	FO	1.00	090.29	2.09	8500

**MISSED APPROACH**

**MAP:**

RNP: DA

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 8500 ON TRACK 226.42 TO TIKNE LEFT TURN TO PUKAJ AND ON TRACK 090.29 TO URBIA AND HOLD, CONTINUE CLIMB-IN-HOLD TO 8500.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**

**PROFILE:**

1. **PT**                      **SIDE OF COURSE**                      **OUTBOUND**                      **FT WITHIN**                      **MILES OF**                      (IAF)
2. PROFILE STARTS AT ZETBU
3. **FAC:** 226.42                      **PFAF:** ZETBU                      **DIST FAF TO MAP:**                      **DIST FAF TO THLD:**
4. **MIN ALT:** ZETBU 4300
5. **DIST TO THLD FROM OM:** 3.77                      **MM:**                      **IM:**                      **150 HAT:**                      **255 HAT:** 0.69                      **GS ANT:**
6. **MIN GP INCPT:** 4300                      **GP ALT AT PFAF:** ZETBU 4300                      **OM:**                      **MM:**                      **IM:**
7. **GP ANGLE:** 3.00                      **34:1:** IS CLEAR                      **20:1:** IS CLEAR                      **TCH:** 47.1
8. **MSA FROM:** RW23 11700

**PBN REQUIREMENTS NOTE:**

RNP AR APCH - GPS, RF. AUTHORIZATION REQUIRED. FROM ARNOY: MIN RNP 0.70.

**NOTES:**

CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).  
 CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.  
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -16°C OR ABOVE 54°C.  
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON DSD VORTAC AIRWAY RADIALS 348 CW 092.  
 CHART SPEED ICON IN PLANVIEW AT URHAZ, JUSLU, CAGOG, JAPUV, AND FIXEV: MAX 180 KIAS.  
 CHART NOTE: FOR INOPERATIVE ALS, INCREASE RNP 0.10 ALL CATS VISIBILITY TO 3/4 SM.  
 CHART NOTE: FOR INOPERATIVE ALS, INCREASE RNP 0.30 ALL CATS VISIBILITY TO 1 3/8 SM.

**ADDITIONAL FLIGHT DATA:**

HOLD SE, RT, 306.00 INBOUND.



**MINIMUMS:**

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

ALTERNATE: NA  STANDARD

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
AUTHORIZATION REQUIRED															
RNP 0.10 DA	3322	1/2	255	3322	1/2	255	3322	1/2	255	3322	1/2	255			
RNP 0.30 DA	3552	1	485	3552	1	485	3552	1	485	3552	1	485			

**CHANGES - REASONS**

1. UPDATED AIRPORT ELEVATION FROM "3080" TO 3082" AND TDZE FROM "3065" TO "3067" – NEW AIRNAV DATA.
2. PROFILE LINE 5: UPDATED FROM "250 HAT: 0.68" TO "255 HAT: 0.69" – NEW FINAL CONTROLLING OBSTACLE.
3. PROFILE LINE 7: ADDED "20:1 IS CLEAR" – NO PENETRATIONS EXIST.
4. PBN REQUIREMENT NOTE: DELETED "GPS REQUIRED" AND "RF REQUIRED" FROM CHART NOTES AND ADDED "RNP AR APCH – GPS, RF. AUTHORIZATION REQUIRED. FROM ARNOY: MIN RNP 0.70." – IAW 8260-19J IMPLEMENTATION MEMO.
5. NOTES: UPDATED CHART NOTE FROM "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -20°C (-4°F) OR ABOVE 53°C (129°F)." TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -16°C OR ABOVE 54°C." – IAW 8260.19J, 8-6-10.R.
6. NOTES: UPDATED CHART PLANVIEW NOTE FROM "PROCEDURE NA FOR ARRIVAL ON DSD VORTAC AIRWAY RADIALS 352 CW 096" TO "PROCEDURE NA FOR ARRIVAL ON DSD VORTAC AIRWAY RADIALS 348 CW 092" – IAW 8260.19J, 8-2-5.G(2).
7. NOTES: DELETED CHART PLANVIEW NOTE AT ARNOY (RNP 0.70) – NO LONGER REQUIRED.
8. NOTES: UPDATED CHART NOTE FROM "FOR INOPERATIVE MALSR, INCREASE RNP 0.10 ALL CATS VISIBILITY TO 7/8 MILE." TO "FOR INOPERATIVE ALS, INCREASE RNP 0.10 ALL CATS VISIBILITY TO 3/4 SM." – IAW 8260.19J, 8-6-12.O(3)(D).
9. NOTES: ADDED CHART NOTE "FOR INOPERATIVE ALS, INCREASE RNP 0.30 ALL CATS VISIBILITY TO 1 1/2 SM" – IAW 8260.19J, 8-6-12.O(3)(D).
10. ADDITIONAL FLIGHT DATA: DELETED "DISTANCE TO THLD FROM 250 HAT: 0.68 NM – DOCUMENTED IN PROFILE LINE 5.
11. ADDITIONAL FLIGHT DATA: DELETED "ROUTE TYPE QUALIFIER 1: F", "ROUTE TYPE: A, H", #TCH 3100.6 MSL (DO NOT CHART), AND "ROUTE TYPE QUALIFIER 2: S" – NO LONGER REQUIRED.
12. MINIMUMS: INCREASED RNP 0.10 DA/HAT ALL CATS FROM "3315/250" TO "3322/255" – NEW CONTROLLING OBSTACLE.
13. MINIMUMS: DECREASED RNP 0.30 VISIBILITY ALL CATS FROM "1 1/4" TO "1" – IAW 8260.3F, TABLE 3-3-1.

**COORDINATED WITH:**

A4A  ALPA  AOPA  APA  HAI  NBAA  OTHER: ZSE, AMGR, ATA

**FLIGHT CHECKED BY**

*Digitally signed by*  
**ROBERT G HAMILTON**  
Mar 28, 2025

**OFFICE**

AJF

**DATE**

03/25/2025

**DEVELOPED BY**

ROBERT G HAMILTON (TODD A. RUSSELL)

*Digitally signed by*  
**ROBERT G HAMILTON**  
Mar 28, 2025

**OFFICE**

AJV-A433

**DATE**

01/31/2025

**APPROVED BY**

ROBERT G HAMILTON

*Digitally signed by*  
**ROBERT G HAMILTON**  
Mar 28, 2025

**OFFICE**

AJV-A433

**DATE**

**TITLE**  
MANAGER



**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD**

<u>AIRPORT ID</u> RDM	<u>PROCEDURE NAME</u> RNAV (RNP) Z RWY 23	<u>AMDT NO.</u> 2A	<u>CITY</u> REDMOND	<u>STATE</u> OR	<u>AIRPORT ELEVATION</u> 3082	<u>FACILITY</u> RNAV
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**PART A: OBSTRUCTION DATA SEGMENTS**

**INITIAL**

**FROM** ARNOY **TO** WURUK

RNP 0.70      DISTANCE 5.36      PAT      MAP      HAT      HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
1. AAO	442616.27N/1205716.59W	5885	50	3	2A	1000				AC3 PR160 AT852	7900
2. TERRAIN	442616.27N/1205716.59W	5685 (5700)								AS1500	7200

**COMPUTATIONS**

ALT    KIAS    KTAS    HAA    VKTW    TR    BA    DTA    COURSE CHANGE    DVEB    VEB OCS    RF CENTER FIX/DISTANCE

**SEGMENT REMARKS:**

**INITIAL**

**FROM** SAKKO **TO** IGISE

RNP 1.00      DISTANCE 6.45      PAT      MAP      HAT      HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
3. AAO	440854.00N/1204521.00W	4544				1000				AC96 AT960	6600
4. TERRAIN	440854.00N/1204521.00W	4344 (4300)								AS1500	5800

**COMPUTATIONS**

ALT    KIAS    KTAS    HAA    VKTW    TR    BA    DTA    COURSE CHANGE    DVEB    VEB OCS    RF CENTER FIX/DISTANCE

**SEGMENT REMARKS:**



**AIRPORT ID**  
RDM

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RNAV (RNP) Z RWY 23

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2A

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REDMOND

**STATE**  
OR

**AIRPORT ELEVATION**  
3082

**FACILITY**  
RNAV

**INITIAL**

**FROM**  
URBIA

**TO**  
FOVOK

**RNP**  
1.00

**DISTANCE**  
3.52

**PAT**

**MAP**

**HAT**

**HMAS**

<b>OBSTRUCTION</b>	<b>COORDINATES</b>	<b>ELEV MSL</b>	<b>HORZ</b>	<b>VERT</b>	<b>AC</b>	<b>ROC</b>	<b>OCS</b>	<b>CG</b>	<b>CGTA</b>	<b>ADJUSTMENTS</b>	<b>MIN ALT</b>
5. AAO	440003.00N/1211248.00W	4006				1000				AC92 AT1902	7000
6. TERRAIN	440103.00N/1211357.00W	3754 (3800)								AS1500	5300

**COMPUTATIONS**

**ALT    KIAS    KTAS    HAA    VKTW    TR    BA    DTA    COURSE CHANGE    DVEB    VEB OCS    RF CENTER FIX/DISTANCE**

**SEGMENT REMARKS:**

**INITIAL**

**FROM**  
DSD VORTAC

**TO**  
CANAM

**RNP**  
1.00

**DISTANCE**  
6.60

**PAT**

**MAP**

**HAT**

**HMAS**

<b>OBSTRUCTION</b>	<b>COORDINATES</b>	<b>ELEV MSL</b>	<b>HORZ</b>	<b>VERT</b>	<b>AC</b>	<b>ROC</b>	<b>OCS</b>	<b>CG</b>	<b>CGTA</b>	<b>ADJUSTMENTS</b>	<b>MIN ALT</b>
7. NAVAID (41-022922)	441509.95N/1211812.69W	4118	20	20	1C	1000				AC20 AT1562	6700
8. TERRAIN	441515.00N/1211812.00W	4085 (4100)								AS1500	5600

**COMPUTATIONS**

**ALT    KIAS    KTAS    HAA    VKTW    TR    BA    DTA    COURSE CHANGE    DVEB    VEB OCS    RF CENTER FIX/DISTANCE**

**SEGMENT REMARKS:**



**AIRPORT ID**  
RDM

**PROCEDURE NAME**  
RNAV (RNP) Z RWY 23

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2A

**CITY**  
REDMOND

**STATE**  
OR

**AIRPORT ELEVATION**  
3082

**FACILITY**  
RNAV

**INITIAL**

**FROM**  
WISL

**TO**  
JUSLU

**RNP**  
1.00

**DISTANCE**  
16.06

**PAT**

**MAP**

**HAT**

**HMAS**

<b>OBSTRUCTION</b>	<b>COORDINATES</b>	<b>ELEV MSL</b>	<b>HORZ</b>	<b>VERT</b>	<b>AC</b>	<b>ROC</b>	<b>OCS</b>	<b>CG</b>	<b>CGTA</b>	<b>ADJUSTMENTS</b>	<b>MIN ALT</b>
9. AAO	442406.00N/1210806.00W	4416	50	3	2A	1000				AC3 PR120 AT1061	6600
10. TERRAIN	442857.00N/1211245.00W	3875 (3900)								AS1500	5400

**COMPUTATIONS**

**ALT      KIAS      KTAS      HAA      VKTW      TR      BA      DTA      COURSE CHANGE      DVEB      VEB OCS      RF CENTER FIX/DISTANCE**

**SEGMENT REMARKS:**

**INITIAL**

**FROM**  
CUPRI

**TO**  
JUSLU

**RNP**  
1.00

**DISTANCE**  
13.76

**PAT**

**MAP**

**HAT**

**HMAS**

<b>OBSTRUCTION</b>	<b>COORDINATES</b>	<b>ELEV MSL</b>	<b>HORZ</b>	<b>VERT</b>	<b>AC</b>	<b>ROC</b>	<b>OCS</b>	<b>CG</b>	<b>CGTA</b>	<b>ADJUSTMENTS</b>	<b>MIN ALT</b>
11. AAO	442454.00N/1210618.00W	4500				1000				AC105 PR90 AT905	6600
12. TERRAIN	442815.00N/1210915.00W	4013 (4000)								AS1500	5500

**COMPUTATIONS**

**ALT      KIAS      KTAS      HAA      VKTW      TR      BA      DTA      COURSE CHANGE      DVEB      VEB OCS      RF CENTER FIX/DISTANCE**

**SEGMENT REMARKS:**



**AIRPORT ID**  
RDM

**PROCEDURE NAME**  
RNAV (RNP) Z RWY 23

**AMDT NO.**  
2A

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OR

**AIRPORT ELEVATION**  
3082

**FACILITY**  
RNAV

**INITIAL: STEPDOWN**

**FROM** IGISE **TO** CUXEP

**RNP** 1.00 **DISTANCE** 2.89 **PAT** **MAP** **HAT** **HMAS**

<b>OBSTRUCTION</b>	<b>COORDINATES</b>	<b>ELEV MSL</b>	<b>HORZ</b>	<b>VERT</b>	<b>AC</b>	<b>ROC</b>	<b>OCS</b>	<b>CG</b>	<b>CGTA</b>	<b>ADJUSTMENTS</b>	<b>MIN ALT</b>
13. AAO	441351.00N/1204848.00W	4183				1000				AC96 AT1021	6300
14. TERRAIN	441351.00N/1204848.00W	3983 (4000)								AS1500	5500

**COMPUTATIONS**

**RF SEGMENT** IGISE-CUXEP **ALT** 7065 **CIAS** 250 **KTAS** 285.00 **HAA** 3984.80 **VKTW** 61.00 **TR** 5.00 **BA** 19.00 **DTA** **COURSE CHANGE** **DVEB** **VEB OCS** **RF CENTER FIX/DISTANCE** (CFBWF)

**SEGMENT REMARKS:**

**INITIAL: STEPDOWN**

**FROM** FOVOK **TO** POWEL

**RNP** 1.00 **DISTANCE** 8.52 **PAT** **MAP** **HAT** **HMAS**

<b>OBSTRUCTION</b>	<b>COORDINATES</b>	<b>ELEV MSL</b>	<b>HORZ</b>	<b>VERT</b>	<b>AC</b>	<b>ROC</b>	<b>OCS</b>	<b>CG</b>	<b>CGTA</b>	<b>ADJUSTMENTS</b>	<b>MIN ALT</b>
15. TREE	440309.00N/1211342.00W	3716				1000				AC92 AT1792	6600
16. TERRAIN	440430.00N/1211257.00W	3547 (3500)								AS1500	5000

**COMPUTATIONS**

**RF SEGMENT** FOVOK-POWEL **ALT** 6787.5 **CIAS** 250 **KTAS** 293.00 **HAA** 6707.80 **VKTW** 80.00 **TR** 6.20 **BA** 18.00 **DTA** **COURSE CHANGE** **DVEB** **VEB OCS** **RF CENTER FIX/DISTANCE** (CFBWD)

**SEGMENT REMARKS:**



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3082

**FACILITY**  
RNAV

**INITIAL: STEPDOWN**

**FROM**  
WURUK

**TO**  
CAGOG

RNP  
0.70

DISTANCE  
4.07

PAT

MAP

HAT

HMAS

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
17. AAO	442530.75N/1205708.26W	4976	50	3	2A	1000				AC3 PR140	6200
18. TERRAIN	442433.00N/1205339.00W	3600 (3600)								AS1500	5100

**COMPUTATIONS**

ALT   KIAS   KTAS   HAA   VKTW   TR   BA   DTA   COURSE CHANGE   DVEB   VEB OCS   RF CENTER FIX/DISTANCE

**SEGMENT REMARKS:**

**INTERMEDIATE**

**FROM**  
CANAM

**TO**  
URHAZ

RNP  
1.00

DISTANCE  
3.07

PAT

MAP

HAT

HMAS

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
19. AAO	442224.00N/1210718.00W	4249				500				AC105 AT1446	6300
20. TERRAIN	441906.00N/1211030.00W	3111 (3100)								AS1500	4600

**COMPUTATIONS**

ALT   KIAS   KTAS   HAA   VKTW   TR   BA   DTA   COURSE CHANGE   DVEB   VEB OCS   RF CENTER FIX/DISTANCE

**SEGMENT REMARKS:**



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**STATE**  
OR

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3082

**FACILITY**  
RNAV

**INTERMEDIATE**

**FROM** CAGOG **TO** RETDO

**RNP** 0.70 **DISTANCE** 4.41 **PAT** **MAP** **HAT** **HMAS**

<b>OBSTRUCTION</b>	<b>COORDINATES</b>	<b>ELEV MSL</b>	<b>HORZ</b>	<b>VERT</b>	<b>AC</b>	<b>ROC</b>	<b>OCS</b>	<b>CG</b>	<b>CGTA</b>	<b>ADJUSTMENTS</b>	<b>MIN ALT</b>
21. AAO	441929.10N/1205822.41W	3546	50	3	2A	500				AC3 AT951	5000
22. TERRAIN	441929.10N/1205822.41W	3346 (3300)								AS1500	4800

**COMPUTATIONS**

**ALT** **KIAS** **KTAS** **HAA** **VKTW** **TR** **BA** **DTA** **COURSE CHANGE** **DVEB** **VEB OCS** **RF CENTER FIX/DISTANCE**

**SEGMENT REMARKS:**

**INTERMEDIATE**

**FROM** POWEL **TO** JAPUV

**RNP** 1.00 **DISTANCE** 3.19 **PAT** **MAP** **HAT** **HMAS**

<b>OBSTRUCTION</b>	<b>COORDINATES</b>	<b>ELEV MSL</b>	<b>HORZ</b>	<b>VERT</b>	<b>AC</b>	<b>ROC</b>	<b>OCS</b>	<b>CG</b>	<b>CGTA</b>	<b>ADJUSTMENTS</b>	<b>MIN ALT</b>
23. AAO	441046.08N/1210002.28W	5096	50	3	2A	500				AC3 PR70 AT631	6300
24. TERRAIN	440957.00N/1210048.00W	4302 (4300)								AS1500	5800

**COMPUTATIONS**

**ALT** **KIAS** **KTAS** **HAA** **VKTW** **TR** **BA** **DTA** **COURSE CHANGE** **DVEB** **VEB OCS** **RF CENTER FIX/DISTANCE**

**SEGMENT REMARKS:**



**AIRPORT ID**  
RDM

**PROCEDURE NAME**  
RNAV (RNP) Z RWY 23

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2A

**CITY**  
REDMOND

**STATE**  
OR

**AIRPORT ELEVATION**  
3082

**FACILITY**  
RNAV

**INTERMEDIATE**

**FROM**  
JUSLU

**TO**  
JIDUT

**RNP**  
1.00

**DISTANCE**  
4.58

**PAT**

**MAP**

**HAT**

**HMAS**

<b>OBSTRUCTION</b>	<b>COORDINATES</b>	<b>ELEV MSL</b>	<b>HORZ</b>	<b>VERT</b>	<b>AC</b>	<b>ROC</b>	<b>OCS</b>	<b>CG</b>	<b>CGTA</b>	<b>ADJUSTMENTS</b>	<b>MIN ALT</b>
25. AAO	442448.00N/1210609.00W	4731				500				AC105 PR70 AT694	6100
26. TERRAIN	442448.00N/1210609.00W	4531 (4500)								AS1500	6000

**COMPUTATIONS**

**ALT    KIAS    KTAS    HAA    VKTW    TR    BA    DTA    COURSE CHANGE    DVEB    VEB OCS    RF CENTER FIX/DISTANCE**

**SEGMENT REMARKS:**

**INTERMEDIATE**

**FROM**  
CUXEP

**TO**  
FIXEV

**RNP**  
1.00

**DISTANCE**  
3.34

**PAT**

**MAP**

**HAT**

**HMAS**

<b>OBSTRUCTION</b>	<b>COORDINATES</b>	<b>ELEV MSL</b>	<b>HORZ</b>	<b>VERT</b>	<b>AC</b>	<b>ROC</b>	<b>OCS</b>	<b>CG</b>	<b>CGTA</b>	<b>ADJUSTMENTS</b>	<b>MIN ALT</b>
27. AAO	441301.38N/1205448.42W	4145	50	3	2A	500				AC3 AT1152	5800
28. TERRAIN	441301.38N/1205448.42W	3945 (3900)								AS1500	5400

**COMPUTATIONS**

**ALT    KIAS    KTAS    HAA    VKTW    TR    BA    DTA    COURSE CHANGE    DVEB    VEB OCS    RF CENTER FIX/DISTANCE**

**SEGMENT REMARKS:**



**AIRPORT ID**  
RDM

**PROCEDURE NAME**  
RNAV (RNP) Z RWY 23

**AMDT NO.**  
2A

**CITY**  
REDMOND

**STATE**  
OR

**AIRPORT ELEVATION**  
3082

**FACILITY**  
RNAV

**INTERMEDIATE: STEPDOWN**

**FROM** JAPUV **TO** HOGEP

**RNP** 1.00 **DISTANCE** 3.84 **PAT** **MAP** **HAT** **HMAS**

<b>OBSTRUCTION</b>	<b>COORDINATES</b>	<b>ELEV MSL</b>	<b>HORZ</b>	<b>VERT</b>	<b>AC</b>	<b>ROC</b>	<b>OCS</b>	<b>CG</b>	<b>CGTA</b>	<b>ADJUSTMENTS</b>	<b>MIN ALT</b>
29. TOWER (41-020387)	441150.87N/1205840.56W	5335	500	125	5E	500				PR90 AC125 AT250	6300
30. TERRAIN	441146.00N/1205839.90W	5220 (5200)								AS1000	6200

**COMPUTATIONS**

**RF SEGMENT** JAPUV-HOGEP **ALT** 6860 **KIAS** 180 **KTAS** 206.00 **HAA** 3779.80 **VKTW** 61.00 **TR** 2.88 **BA** 20.00 **DTA** **COURSE CHANGE** **DVEB** **VEB OCS** **RF CENTER FIX/DISTANCE** (CFBWC)

**SEGMENT REMARKS:**

**INTERMEDIATE: STEPDOWN**

**FROM** URHAZ **TO** JIDUT

**RNP** 1.00 **DISTANCE** 3.02 **PAT** **MAP** **HAT** **HMAS**

<b>OBSTRUCTION</b>	<b>COORDINATES</b>	<b>ELEV MSL</b>	<b>HORZ</b>	<b>VERT</b>	<b>AC</b>	<b>ROC</b>	<b>OCS</b>	<b>CG</b>	<b>CGTA</b>	<b>ADJUSTMENTS</b>	<b>MIN ALT</b>
31. AAO	442228.11N/1210713.13W	4430	50	3	2A	500				AC3 PR70 AT1097	6100
32. TERRAIN	442228.11N/1210713.13W	4230 (4200)								AS1500	5700

**COMPUTATIONS**

**RF SEGMENT** URHAZ-JIDUT **ALT** 6700 **KIAS** 180 **KTAS** 205.00 **HAA** 3619.80 **VKTW** 60.00 **TR** 2.61 **BA** 21.00 **DTA** **COURSE CHANGE** **DVEB** **VEB OCS** **RF CENTER FIX/DISTANCE** (CFBVW)

**SEGMENT REMARKS:**



**AIRPORT ID**  
RDM

**PROCEDURE NAME**  
RNAV (RNP) Z RWY 23

**AMDT NO.**  
2A

**CITY**  
REDMOND

**STATE**  
OR

**AIRPORT ELEVATION**  
3082

**FACILITY**  
RNAV

**INTERMEDIATE: STEPDOWN**

**FROM**  
JIDUT **TO**  
YIGUS

**RNP** **DISTANCE** **PAT** **MAP** **HAT** **HMAS**  
1.00 3.30

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
33. AAO	442352.71N/1210520.93W	4196	50	3	2A	500				AC3 AT401	5100
34. TERRAIN	442352.71N/1210520.93W	3996 (4000)								AS1000	5000

**COMPUTATIONS**

**RF SEGMENT** **ALT** **KIAS** **KTAS** **HAA** **VKTW** **TR** **BA** **DTA** **COURSE CHANGE** **DVEB** **VEB OCS** **RF CENTER FIX/DISTANCE**  
JIDUT-YIGUS 6100 180 203.00 3019.80 59.00 2.61 21.00 (CFBVW)

**SEGMENT REMARKS:**

**INTERMEDIATE: STEPDOWN**

**FROM**  
HOGEV **TO**  
WUSIV

**RNP** **DISTANCE** **PAT** **MAP** **HAT** **HMAS**  
1.00 3.78

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
35. AAO	441314.06N/1205714.69W	4364	50	3	2A	500				AC3 AT233	5100
36. TERRAIN	441651.00N/1205630.00W	3550 (3600)								AS1000	4600

**COMPUTATIONS**

**RF SEGMENT** **ALT** **KIAS** **KTAS** **HAA** **VKTW** **TR** **BA** **DTA** **COURSE CHANGE** **DVEB** **VEB OCS** **RF CENTER FIX/DISTANCE**  
HOGEV-WUSIV 6300 180 203.00 3219.80 59.00 3.61 15.00 (CFBVZ)

**SEGMENT REMARKS:**



**AIRPORT ID**  
RDM

**PROCEDURE NAME**  
RNAV (RNP) Z RWY 23

**AMDT NO.**  
2A

**CITY**  
REDMOND

**STATE**  
OR

**AIRPORT ELEVATION**  
3082

**FACILITY**  
RNAV

**INTERMEDIATE: STEPDOWN**

**FROM**  
FIXEV **TO**  
WUSIV

RNP                      DISTANCE                      PAT                      MAP                      HAT                      HMAS  
1.00                      2.21

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
37. AAO	441646.03N/1205626.73W	3722	50	3	2A	500				AC3 AT875	5100
38. TERRAIN	441700.00N/1205703.00W	3334 (3300)								AS1500	4800

**COMPUTATIONS**

ALT    KIAS    KTAS    HAA    VKTW    TR    BA    DTA    COURSE CHANGE    DVEB    VEB OCS    RF CENTER FIX/DISTANCE

**SEGMENT REMARKS:**

**INTERMEDIATE: STEPDOWN**

**FROM**  
RETDO **TO**  
ZETBU

RNP                      DISTANCE                      PAT                      MAP                      HAT                      HMAS  
0.70                      2.21

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
39. AAO	441854.00N/1210015.00W	3101				500				AC105 AT443 VEB151	4300
40. TERRAIN	441757.00N/1210033.00W	3032 (3000)								AS1000	4000

**COMPUTATIONS**

ALT    KIAS    KTAS    HAA    VKTW    TR    BA    DTA    COURSE CHANGE    DVEB    VEB OCS    RF CENTER FIX/DISTANCE

**SEGMENT REMARKS:**



**AIRPORT ID**  
RDM

**PROCEDURE NAME**  
RNAV (RNP) Z RWY 23

**AMDT NO.**  
2A

**CITY**  
REDMOND

**STATE**  
OR

**AIRPORT ELEVATION**  
3082

**FACILITY**  
RNAV

**INTERMEDIATE: STEPDOWN**

**FROM**  
YIGUS **TO**  
ZETBU

**RNP** **DISTANCE** **PAT** **MAP** **HAT** **HMAS**  
1.00 2.55

<b>OBSTRUCTION</b>	<b>COORDINATES</b>	<b>ELEV MSL</b>	<b>HORZ</b>	<b>VERT</b>	<b>AC</b>	<b>ROC</b>	<b>OCS</b>	<b>CG</b>	<b>CGTA</b>	<b>ADJUSTMENTS</b>	<b>MIN ALT</b>
41. AAO	442100.00N/1205924.00W	3501				500				AC96 VEB188	4300
42. TERRAIN	442100.00N/1205924.00W	3301 (3300)								AS1000	4300

**COMPUTATIONS**

**RF SEGMENT** **ALT** **CIAS** **KTAS** **HAA** **VKTW** **TR** **BA** **DTA** **COURSE CHANGE** **DVEB** **VEB OCS** **RF CENTER FIX/DISTANCE**  
YIGUS-ZETBU 5100 180 199.00 2019.80 57.00 2.61 20.00 (CFBVV)

**SEGMENT REMARKS:**

**INTERMEDIATE: STEPDOWN**

**FROM**  
WUSIV **TO**  
ZETBU

**RNP** **DISTANCE** **PAT** **MAP** **HAT** **HMAS**  
1.00 2.62

<b>OBSTRUCTION</b>	<b>COORDINATES</b>	<b>ELEV MSL</b>	<b>HORZ</b>	<b>VERT</b>	<b>AC</b>	<b>ROC</b>	<b>OCS</b>	<b>CG</b>	<b>CGTA</b>	<b>ADJUSTMENTS</b>	<b>MIN ALT</b>
43. AAO	441909.00N/1205857.00W	3344				500				AT229 AC96 VEB131	4300
44. TERRAIN	441909.00N/1205857.00W	3144 (3100)								AS1000	4100

**COMPUTATIONS**

**RF SEGMENT** **ALT** **CIAS** **KTAS** **HAA** **VKTW** **TR** **BA** **DTA** **COURSE CHANGE** **DVEB** **VEB OCS** **RF CENTER FIX/DISTANCE**  
WUSIV-ZETBU 5100 180 199.00 2019.80 57.00 2.50 21.00 (CFBVX)

**SEGMENT REMARKS:**



**AIRPORT ID**  
RDM

**PROCEDURE NAME**  
RNAV (RNP) Z RWY 23

**AMDT NO.**  
2A

**CITY**  
REDMOND

**STATE**  
OR

**AIRPORT ELEVATION**  
3082

**FACILITY**  
RNAV

**FINAL**

**FROM**  
ZETBU

**TO**  
RW23

**RNP**  
0.10

**DISTANCE**  
3.77

**PAT**

**MAP**  
DA

**HAT**  
255

**HMAS**

<b>OBSTRUCTION</b>	<b>COORDINATES</b>	<b>ELEV MSL</b>	<b>HORZ</b>	<b>VERT</b>	<b>AC</b>	<b>ROC</b>	<b>OCS</b>	<b>CG</b>	<b>CGTA</b>	<b>ADJUSTMENTS</b>	<b>MIN ALT</b>
							ASC			MA5	3322

**COMPUTATIONS**

**ALT    KIAS    KTAS    HAA    VKTW    TR    BA    DTA    COURSE CHANGE    DVEB    VEB OCS    RF CENTER FIX/DISTANCE**

**SEGMENT REMARKS:**

**FINAL**

**FROM**  
ZETBU

**TO**  
RW23

**RNP**  
0.30

**DISTANCE**  
3.77

**PAT**

**MAP**  
DA

**HAT**  
485

**HMAS**

<b>OBSTRUCTION</b>	<b>COORDINATES</b>	<b>ELEV MSL</b>	<b>HORZ</b>	<b>VERT</b>	<b>AC</b>	<b>ROC</b>	<b>OCS</b>	<b>CG</b>	<b>CGTA</b>	<b>ADJUSTMENTS</b>	<b>MIN ALT</b>
45. TREE	441551.56N/1210638.79W	3189	50	20	2C		21.20:1			AC20	3552

**COMPUTATIONS**

**ALT    KIAS    KTAS    HAA    VKTW    TR    BA    DTA    COURSE CHANGE    DVEB    VEB OCS    RF CENTER FIX/DISTANCE**

**SEGMENT REMARKS:**



**MISSED APPROACH: LEVEL SURFACE**

**FROM** DA **TO** URBIA

**RNP** 0.10-1.00 **DISTANCE** **PAT** **MAP** **HAT** **HMAS** 3077

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
46. TREE (41-039955)	441544.24N/1210745.47W	3088	20	3	1A		ASC				8500
47. TOWER (41-000402)	440440.41N/1212001.12W	4570	100	20	3C	1000					5600
48. TERRAIN	440442.00N/1212006.00W	4238 (4200)								AS1500	5700

**COMPUTATIONS**

**ALT** **KIAS** **KTAS** **HAA** **VKTW** **TR** **BA** **DTA** **COURSE CHANGE** **DVEB** **VEB OCS** **RF CENTER FIX/DISTANCE**

**SEGMENT REMARKS:**

RF SEGMENT ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE  
 TIKNE-PUKAJ 8500 265 309.45 5418.5 44 5.85 17.30 0 0 (CFBDZ)/13.90 NM

**MISSED APPROACH: LEVEL SURFACE**

**FROM** DA **TO** URBIA

**RNP** 0.30-1.00 **DISTANCE** **PAT** **MAP** **HAT** **HMAS** 3223

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				8500
47. TOWER (41-000402)	440440.41N/1212001.12W	4570	100	20	3C	1000					5600
48. TERRAIN	440442.00N/1212006.00W	4238 (4200)								AS1500	5700

**COMPUTATIONS**

**ALT** **KIAS** **KTAS** **HAA** **VKTW** **TR** **BA** **DTA** **COURSE CHANGE** **DVEB** **VEB OCS** **RF CENTER FIX/DISTANCE**

**SEGMENT REMARKS:**

RF SEGMENT ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE  
 TIKNE-PUKAJ 8500 265 309.45 5418.5 44 5.85 17.30 0 0 (CFBDZ)/13.90 NM

**CIRCLING**  ALL CATS  CAT A  CAT B  CAT C  CAT D  CAT E  NOT AUTHORIZED



**AIRPORT ID**  
RDM

**PROCEDURE NAME**  
RNAV (RNP) Z RWY 23

**AMDT NO.**  
2A

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REDMOND

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OR

**AIRPORT ELEVATION**  
3082

**FACILITY**  
RNAV

**MSA**

**CENTER**  
RW23

**RADIUS**  
25

<b>SECTOR</b>	<b>OBSTRUCTION</b>	<b>COORDINATES</b>	<b>BEARING</b>	<b>DISTANCE</b>	<b>ELEV MSL</b>	<b>HORZ</b>	<b>VERT</b>	<b>AC</b>	<b>ROC</b>	<b>OCS</b>	<b>ADJUSTMENTS</b>	<b>MIN ALT</b>
360-360	AAO	440621.00N/1214615.00W	238	28.8	10591	250	125	4E	1000		AC92	11700

**MSA REMARKS:**

**NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:**

**AIRPORT ID**  
RDM

**PROCEDURE NAME**  
RNAV (RNP) Z RWY 23

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3082

**FACILITY**  
RNAV

**PART B: SUPPLEMENTAL DATA**

**COMMUNICATIONS WITH**

ZSE ARTCC, RDM TOWER

**WX SERVICE**  
ASOS

**LOCATION**  
RDM

**HRS OPERATION**  
24

**ALTIMETER SOURCE**  
RDM

**DISTANCE**  
0

**WMSCR**  
Y

**ADJUSTMENTS**  
0

**BACK-UP WX SERVICE**  
AWOS-3

**LOCATION**  
BDN

**HRS OPERATION**  
24

**ALTIMETER SOURCE**  
BDN

**DISTANCE**  
9.82

**WMSCR**  
Y

**ADJUSTMENTS**  
0

**WX REMARKS:**

RDM ASOS IS ON SERVICE-A AVAILABLE 24-HOURS. BDN BACKUP ALTIMETER LISTED IS AUTO DATA PULL/NOT APPLICABLE.

**PRIMARY NAVAID**

**MONITOR POINT**

**HRS OPERATION**

**CAT**

<b>APPROACH AND RUNWAY LIGHTING SYSTEM</b>	<b>RUNWAY MARKINGS</b>	<b>RUNWAY VISUAL RANGE</b>
01H	H-G	
RW11 - MIRL (PCL), REIL (PCL), PAPI-4L	NPI-G	
RW29 - MIRL (PCL), REIL (PCL), PAPI-4L	NPI-G	
RW05 - REIL (PCL), HIRL (PCL), VASI-4L	PIR-G	
RW23 - MALSR (PCL), HIRL (PCL), PAPI-4L	PIR-G	

**GLIDESLOPE ANGLE**  
3.00

**ELEV RWY THRESHOLD**  
3053.9

**TCH**  
47.1

**ELEV GS ANTENNA**

**DISTANCE FROM RWY**

**VGSI ANGLE**  
3.00

**TCH**  
50.9

**FINAL APPROACH COURSE AIMING**

RUNWAY THRESHOLD  
ON CENTERLINE

FT FROM THRESHOLD  
FT FROM CENTERLINE

DISPLACED THRESHOLD DISTANCE

**CRITICAL TEMPERATURES**

**CRITICAL LOW**  
-16C

**CRITICAL HIGH**  
+54C

**ACT**  
-16C

**APT ISA**  
+8.9C

**CRITICAL TEMPERATURE REMARKS:**

AVERAGE COLD TEMPERATURE DERIVED FROM 5-YEAR HISTORY (19-23).  
CRITICAL LOW TEMPERATURE BASED ON ACT.  
DESCENT RATE (FPM): STANDARD TEMP 997 HIGH TEMP 1315.

**"VISUAL PORTION OF FINAL" PENETRATIONS**



**HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS**

and/or

**5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS**

**PENETRATIONS REMARKS:**

**PART C: GENERAL REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

100 FT VEGETATION HEIGHT USED PER FPT.

PROCEDURE FIX CUPRI, ARNOY, DSD, SAKKO, AND URBIA CONNECTED TO ENROUTE

MISSED APPROACH HOLDING AT URBIA OFFSET FROM AIRWAY TO AVOID HIGH TERRAIN THAT WOULD REQUIRE MINIMUM HOLDING ALTITUDE ABOVE 8500, PER ATC REQUEST.

MISSED APPROACH: STANDARD RNP AR MISSED APPROACH DESIGN.

**PART D: AIRSPACE**

**DOCKET #**

**ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE**

<b>DISTANCE FROM</b>	<b>THLD</b>	<b>TO 1000FT POINT</b>	<b>3.14</b>
<b>WIDTH OF</b>	<b>FINAL</b>	<b>SEGMENT AT 1000FT POINT</b>	<b>1.20</b>
<b>TRUE COURSE OF</b>	<b>FINAL</b>	<b>SEGMENT CONTAINING 1000FT POINT</b>	<b>240.42</b>
<b>HIGH TERRAIN IN</b>	<b>FINAL</b>	<b>SEGMENT CONTAINING 1000FT POINT</b>	<b>3100</b>
<b>DISTANCE FROM</b>	<b>THLD</b>	<b>TO 1500FT POINT</b>	<b>5.18</b>
<b>WIDTH OF</b>	<b>INTERMEDIATE</b>	<b>SEGMENT AT 1500FT POINT</b>	<b>2.80</b>
<b>TRUE COURSE OF</b>	<b>INTERMEDIATE</b>	<b>SEGMENT CONTAINING 1500FT POINT</b>	<b>@</b>
<b>HIGH TERRAIN IN</b>	<b>INTERMEDIATE</b>	<b>SEGMENT CONTAINING 1500FT POINT</b>	<b>3100</b>

**THRESHOLD COORDINATES (IF STR-IN)**

441532.60N/1210818.39W

**ARP COORDINATES**

441514.65N/1210859.90W

**RUNWAY APCH END AND DIST FURTHEST FROM ARP**

RUNWAY 29 DISTANCE 0.59 NM

**FAF COORDINATES**

441724.21N/1210344.96W

**FIX NAME COORDINATES**

**REMARKS**

@ 1500FT POINT OCCURS AT RF INTERMEDIATE WUSIV (441723.09N/1210016.18W) TO ZETBU (441724.21N/1210344.95W) RF TURN FIX (CFBVX) (441513.71N/1210201.92W)

@ 1500FT POINT OCCURS AT RF INTERMEDIATE YIGUS (441927.94N/1210158.57W) TO ZETBU (441724.21N/1210344.95W) RF TURN FIX (CFBVV) (441935.69N/1210528.90W)

**PART E: PREPARED BY**

**NAME**

ROBERT G HAMILTON (TODD A. RUSSELL)

**OFFICE**

AJV-A433

**DATE**

01/31/2025

**TITLE**

AERONAUTICAL INFORMATION SPECIALIST

