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

FROM	TO	COURSE AND DISTANCE	ALTITUDE
CEPER	CESIN (FB)	269.80 / 17.33	6000
MQG VOR/DME	CESIN (FB)	353.51 / 9.79	6000
JETTS	JAKLU (FB)	175.77 / 7.35	6600
PUW VOR/DME	WAXIT (FO)	069.95 / 18.52	6000
CESIN (IAF)	WAXIT (NOPT) (FB)	359.14 / 9.76	5000
JAKLU (IAF)	WAXIT (NOPT) (FB)	191.08 / 10.00	5000
WAXIT (IF/IAF)	WOMUN (FB)	280.08 / 8.00	4700
(SEE FORM 8260-10)			

MISSED APPROACH

LNAV: WIMAP

CLIMBING LEFT TURN TO 5400 DIRECT OFXEF AND HOLD.

ADDITIONAL FLIGHT DATA:

HOLD SW, RT, 054.91 INBOUND.
CHART FAS OBST: 2769 TREE 464454N/1170429W
3059 AAO 464619N/1165629W
3019 AAO 464552N/1165714W
WOMUN TO RW24: 3.24/58.6.
FAC CROSSES RWY C/L EXTENDED 3006 FROM THLD.
CHART PLANVIEW NOTE: FINAL APPROACH COURSE OFFSET 15.11 DEGREES.

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. HOLD E WAXIT, LT, 280.08 INBOUND, 5000 FT. IN LIEU OF PT (IAF)
3. FAC: 250.23 FAF: WOMUN DIST FAF TO MAP: 5.64 THLD: 6.12
4. MIN. ALT: WAXIT 5000, WOMUN 4700, JORER/2.02 NM TO WIMAP 3460
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: ____ GS ALT AT: ____ OM: ____ MM: ____ IM: ____
7. GS ANGLE: ____ TCH: 34:1 IS NOT CLEAR
8. MSA FROM: WIMAP 6600

MAG VAR: 15E EPOCH YEAR: 2015

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT ALTERNATE: N A STANDARD @

CATEGORY =====>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LNAV MDA	3020	1	471	3020	1	471	3020	1 3/8	471	3020	1 3/8	471			
CIRCLING	3120	1	564	3120	1	564	3120	1 1/2	564	3120	2	564			

NOTES:
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LEWISTON ALTIMETER SETTING AND INCREASE ALL MDAS 220 FEET AND LNAV VISIBILITY CATS CATS C AND D 5/8 MILE. CIRCLING VISIBILITY CAT C AND D 3/4 MILE.
@ NA WHEN LOCAL WEATHER NOT AVAILABLE.
CHART NOTE: WHEN VGSI INOP, STRAIGHT-IN/CIRCLING RWY 24 PROCEDURE NA AT NIGHT.
(SEE FORM 8260-10)

QUALITY CHECKED

CITY AND STATE	ELEVATION: 2556 THRE: 2549 AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP: RNAV (GPS) RWY 23
PULLMAN/MOSCOW,ID, WA	PULLMAN/MOSCOW RGNL	RNAV	RNAV (GPS) RWY 24, AMDT 1	AMDT: ORIG-A
				DATED 08/31/2006

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
[ ] YES [X] NO		ROUTINE

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
[X]	[ ]	[X]	[X]	[X]	[X]	[X] ZSE, SEA FSS, STATE AERO

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:

DEVELOPED BY		
NAME:	FIFO	DATE:
KEITH D. SHYKES	AJV-354	04/19/2012

APPROVED BY		
NAME:	FIFO	DATE:
DEZ SILAGYI MANAGER	AJV-354	

CHANGES:

1. CHANGED PROCEDURE NAME FROM RNAV (GPS) RWY 23 TO RNAV (GPS) X RWY 24.
2. MAG VAR/EPOCH CHANGED FROM 19E/1985 TO 15E/2015.
3. MISSED APPROACH CHANGED FROM CLIMBING LEFT TURN TO 6000 DIRECT CESIN AND HOLD TO CLIMBING LEFT TURN TO 5400 DIRECT OFXEF AND HOLD.
4. MISSED APPROACH POINT CHANGED FROM FINUT TO WIMAP.
5. JORER RELOCATED 3684.54', 265.10T.
6. WOMUN RELOCATED 48.32', 24.21T.
7. WAXIT RELOCATED 6044.62', 115.06T.
8. JAKBU (IAF) CANCELLED AND NEW IAF JAKLU ESTABLISHED 1.55 NM FROM ORIGINAL LOCATION.
9. ADDED HOLD-IN-LIEU AT WAXIT (IF/IAF).
10. ADDED FEEDER SEGMENT FROM PUW VOR/DME TO WAXIT.
11. ADDED FEEDER SEGMENT FROM CEEPER (FEEDER FIX ON V187) TO CESIN (IAF).
12. TERMINAL ROUTE MQG VOR/DME TO CESIN COURSE CHANGED FROM 349.51 TO 353.51.
13. TERMINAL ROUTE JETTS TO JAKBU CHANGED TO JETTS TO JAKLU (IAF) AND COURSE/DISTANCE CHANGED FROM 183.93/7.13 TO 175.77/7.35 AND MDA DECREASED FROM 9000 TO 6500.

SEE 8260-10

REASONS:

1. MAGVAR UPDATE REQUIRES RUNWAY RENUMBER. MULTIPLE RNP PROCEDURES DEVELOPED FOR RWY 24.
2. MAG VAR DEVIATION MORE THAN 3 DEGREES.
3. ATC REQUEST.
4. MAP RELOCATED TO MINIMUM 3000 FEET FROM DISPLACED THLD. FINUT UTILIZED ON OTHER PROCEDURES AND COULD NOT BE RELOCATED.
5. SDF ALT CHANGED. RELOCATION ACCOMMODATES DESCENT GRADIENT.
6. RELOCATED TO CALULATED PFAF LOCATION.
7. RELOCATED TO MITIGATE OBSTACLES IN TURN EXPANSION AREA.
8. IAF RELOCATED TO MITIGATE OBSTACLES IN TURN EXPANSION AREA AND FACILITATES MAXIMUM ALLOWABLE TURN FROM INITIAL TO INTERMEDIATE. RELOCATION IS GREATER THAN 1 NM SO NEW FIX CREATED.
9. ATC REQUEST.
10. ALLOWS TRANSITION FROM ENROUTE TO TERMINAL ENVIRONMENT.
11. ACCOMMODATES WESTBOUND TRAFFIC ON V187 AND MEETS MAXIMUM TURN REQUIREMENTS OTHERWISE NOT MET AT MQG VOR/DME.
12. AIRPORT MAG VAR UPDATE.
13. (IAF) RELOCATION MITIGATES OBSTACLES IN TURN EXPANSION AREA AND FACILITATES MAXIMUM ALLOWABLE TURN FROM INITIAL TO INTERMEDIATE. MDA BASED ON OBSTACLE PLUS MINIMUM ROC.
14. WAXIT (IF) RELOCATED TO MITIGATE OBSTACLES IN TURN EXPANSION AREA. 5500 MDA NOT REQUIRED FOR ROC OR AIRSPACE. 5000 IS HOLD-IN LIEU PATTERN ALTITUDE.

SEE 8260-10

QUALITY CHECKED 4

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

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

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TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
WOMUN (FAF)	JORER/2.02 NM TO WIMAP (FB)	250.23 / 3.64	
JORER/2.02 NM TO WIMAP	WIMAP (MAP) (FO)	250.23 / 2.00	
WIMAP (MAP)	2956 MSL	250.23	
2956 MSL	OFXEF (FO)		5400

NOTES, (CONT.):
CHART NOTE: DME/DME RNP-0.3 NA.
CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA.
CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT.

QUALITY CHECKED

CITY AND STATE	ELEVATION: 2556 THRE: 2549 AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP: RNAV (GPS) RWY 23
PULLMAN/MOSCOW,ID, WA	PULLMAN/MOSCOW RGNL	RNAV	RNAV (GPS) RWY 24, AMDT 1	AMDT: ORIG-A
				DATED: 08/31/2006

ALL AFFECTED PROCEDURES REVIEWED? ☐ YES ☐ NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
☐	☐	☐	☐	☐	☐	☐

FLIGHT CHECKED BY

NAME:	FIFO	DATE:

DEVELOPED BY

NAME:	FIFO	DATE:

APPROVED BY

NAME:	FIFO	DATE:

CHANGES:

CHANGES CONT.
14. TERMINAL ROUTE CESIN TO WAXIT COURSE/DISTANCE CHANGED FROM 349.53/10.00 TO 359.14/9.76 AND MDA DECREASED FROM 5500 TO 5000. 15. TERMINAL ROUTE JAKBU (IAF) TO WAXIT (IF/IAF) CHANGED TO JAKLU TO WAXIT AND COURSE CHANGED FROM 1873.88 TO 191.08 AND MDA DECREASED FROM 5500 TO 5000. 16. TERMINAL ROUTE WAXIT (IF/IAF) TO WOMUN (FAF) COURSE/DISTANCE CHANGED FROM 276.11/7.00 TO 280.08/8.00. 17. FINAL APPROACH COURSE CHANGED FROM 246.19 TO 250.23. 18. JORER ATD REFERENCE CHANGED FROM 2.61 NM TO FINUT TO 2.02 NM TO WIMAP. 19. FINAL SDF (JORER) MDA DECREASED FROM 3660 TO 3460. 20. LNAV MDA CHANGED FROM 3040 TO 3020. 21. LNAV CAT C VISIBILITY CHANGED FROM 1 1/4 TO 1 3/8 AND CAT D CHANGED FROM 1 1/2 TO 1 3/8 . 22. CIRCLING MDA INCREASED FROM CAT A/B 3100, CAT C 3120, CAT D 3140 TO 3120 ALL CATS. 23. ADDED LEWISTON AS BACK-UP ALTIMETER SOURCE. 24. ADDED CHART NOTE: WHEN VGSI INOP, STRAIGHT-IN AND CIRCLING RWY 24 NA AT NIGHT. 25. ADDED ALTERNATE MINIMUMS. 26. CHANGED VDA DATA FROM 3.22/60 TO 3.24/59. 27. MSA CENTER CHANGED FROM FINUT TO WIMAP.

REASONS:

REASONS CONT.
15. IAF AND IF RELOCATED TO MITIGATE OBSTACLES IN TURN EXPANSION AREA AND ALLOW FOR ACCEPTABLE TURN FROM INITIAL TO INTERMEDIATE. 5500 MDA NOT REQUIRED FOR ROC OR AIRSPACE. 5000 IS HOLD-IN-LIEU PATTERN ALT.
16. WAXIT (IF/IAF) RELOCATED TO MITIGATE OBSTACLES IN TURN EXPANSION AREA.
17. CALCULATED PFAF LOCATION/MAG VAR UPDATE.
18. MAP AND SDF RELOCATED.
19. UPDATED CRITERIA CHANGED FINAL GEOMETRY RESULTING IN NEW CONTROLLING OBSTACLE. MDA DERIVED FROM OBSTACLE +ROC+RA+XL.
20. UPDATED OBSTACLE DATA.
21. MDA INCREASE. UPDATED VISIBILITY CRITERA. EFFECT OF HATH ON VISIBILITY.
22. UPDATED OBSTACLE DATA.
23. SUITABLE BACK-UP ALTIMETER SOURCE AVAILABLE. ATC/FPT REQUEST.
24. UNLIT 20:1 VISUAL PORTION OF FINAL PENETRATIONS.
25. UPDATED CRITERIA ALLOWS FOR ALTERNATE MINIMUMS ON RNAV PROCEDURES.
26. CALCULATED VDA. TCH CORRESPONDS WITH VGSI DATA.
27. MISSED APPROACH POINT CHANGED.

8/3/2012: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 4/19/2012.
1. PROCEDURE NAME CHANGED FROM RNAV (GPS) X RWY 24 TO RNAV (GPS) RWY 24.

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 PACKET - 424-18 - RNAV (GPS)

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAD        MQG   K1010820VDLW N46225361W116521024    N46225361W116521024E0200017231     NARNEZ PERCE
        SUSAD        PUW   K1010900VDLA N46402748W117132462    N46402748W117132462E0200027201     NARPULLMAN

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   CEPER K10    C   L N46281137W116254760                    E0147     NAR           CEPER
        SUSAEAENRT   CESIN K10    W     N46323431W116500438                    E0149     NAR           CESIN
        SUSAEAENRT   JAKLU K10    W     N46510101W116401322                    E0149     NAR           JAKLU
        SUSAEAENRT   JETTS K10    C   L N46581378W116381328                    E0149     NAR           JETTS
        SUSAEAENRT   JORER K10    W     N46450682W117022360                    E0150     NAR           JORER
        SUSAEAENRT   OFXEF K10    W     N46402457W117232714                    E0151     NAR           OFXEF
        SUSAEAENRT   WAXIT K10    W     N46420213W116463644                    E0149     NAR           WAXIT
        SUSAEAENRT   WIMAP K10    W     N46445658W117051931                    E0150     NAR           WIMAP
        SUSAEAENRT   WOMUN K10    W     N46452501W116570876                    E0150     NAR           WOMUN

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KPUWK1APUW     0     067YHN46443790W117063450E015002556        1800018000C    MNAR    PULLMAN/MOSCOW RGNL

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KPUWK1FR24   ACEPER 010CEPERK1EA0E       IF                                                18000                B JS
        SUSAP KPUWK1FR24   ACEPER 020CESINK1EA0E  A 020TF                    26980173    + 06000                                B JS
        SUSAP KPUWK1FR24   ACEPER 030WAXITK1EA0EE B 010TF                    35910098    + 05000                                B JS
        SUSAP KPUWK1FR24   AJETTS 010JETTSK1EA0E       IF                                                18000                B JS
        SUSAP KPUWK1FR24   AJETTS 020JAKLUK1EA0E  A 020TF                    17580074    + 06600                                B JS
        SUSAP KPUWK1FR24   AJETTS 030WAXITK1EA0EE B 010TF                    19110100    + 05000                                B JS
        SUSAP KPUWK1FR24   AMQG   010MQG  K1D 0V       IF                                                18000                B JS
        SUSAP KPUWK1FR24   AMQG   020CESINK1EA0E  A 020TF                    35350098    + 06000                                B JS
        SUSAP KPUWK1FR24   AMQG   030WAXITK1EA0EE B 010TF                    35910098    + 05000                                B JS
        SUSAP KPUWK1FR24   APUW   010PUW  K1D 0V       IF                                                18000                B JS
        SUSAP KPUWK1FR24   APUW   020WAXITK1EA0EY   020TF                    07000185    + 06000                                B JS
        SUSAP KPUWK1FR24   APUW   030WAXITK1EA0EE AL   HF                    28010050    + 05000                                B JS
        SUSAP KPUWK1FR24   R      010WAXITK1EA0E  I    IF                                + 05000     18000                      B JS
        SUSAP KPUWK1FR24   R      020WOMUNK1EA1E  F 051TF                    28010080    + 04700                  WIMAP K1EAB JS
        SUSAP KPUWK1FR24   R      020WOMUNK1EA2WN          N          ALNAV                                                      JS
        SUSAP KPUWK1FR24   R      021JORERK1EA0E S  031TF                    25020036    V 0346003473        -324                B JS
        SUSAP KPUWK1FR24   R      030WIMAPK1EA0EY M 031TF                    25020020      02778             -324                B JS
```

QUALITY CHECKED 4

CITY AND STATE	ELEVATION: 2556 THRE: 2549	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP: RNAV (GPS) RWY 23
PULLMAN/MOSCOW,ID, WA	AIRPORT NAME: PULLMAN/MOSCOW RGNL	RNAV	RNAV (GPS) RWY 24, AMDT 1	AMDT: ORIG-A
				DATED: 08/31/2006

ALL AFFECTED PROCEDURES REVIEWED? ☐ YES ☐ NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER ☐ (specify) _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

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```
        SUSAP KPUWK1FR24   R      040          0  M     CA                  2502        + 02956                          B JS
        SUSAP KPUWK1FR24   R      050OFXEFK1EA0EY  L    DF                              + 05400                          B JS
        SUSAP KPUWK1FR24   R      060OFXEFK1EA0EE  R    HM                  05490050    + 05400                          B JS
```

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KPUWK1GRW24    0067302351 N46444649W117055990-0200    +0758502549080159100R
```

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KPUWK1SWIMAPK1EA                0   18018006625                                                                  M
```

QUALITY CHECKED

CITY AND STATE	ELEVATION: 2556 THRE: 2549	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP: RNAV (GPS) RWY 23
PULLMAN/MOSCOW,ID, WA	AIRPORT NAME: PULLMAN/MOSCOW RGNL	RNAV	RNAV (GPS) RWY 24, AMDT 1	AMDT: ORIG-A
				DATED: 08/31/2006

ALL AFFECTED PROCEDURES REVIEWED? ☐ YES ☐ NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER ☐ (specify) _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

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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
	CEPER	CEPER	010		IF		FB					
	CEPER	CESIN	020	IAF	TF		FB	2.0	269.8(284.8T)	017.3	AA 06000	
	CEPER	WAXIT	030		TF		FB	1.0	359.1(014.1T)	009.8	AA 05000	
	JETTS	JETTS	010		IF		FB					
	JETTS	JAKLU	020	IAF	TF		FB	2.0	175.8(190.8T)	007.4	AA 06600	
	JETTS	WAXIT	030		TF		FB	1.0	191.1(206.1T)	010.0	AA 05000	
	MQG	MQG	010		IF		FB					
	MQG	CESIN	020	IAF	TF		FB	2.0	353.5(008.5T)	009.8	AA 06000	
	MQG	WAXIT	030		TF		FB	1.0	359.1(014.1T)	009.8	AA 05000	
	PUW	PUW	010		IF		FB					
	PUW	WAXIT	020		TF		FO	2.0	070.0(085.0T)	018.5	AA 06000	
	PUW	WAXIT	030	IAF	HF	L	FO		280.1(295.1T)	005.0	AA 05000	
		WAXIT	010	FACF	IF		FB				AA 05000	
		WOMUN	020	FAF	TF		FB	0.5	280.1(295.1T)	008.0	AA 04700	
		JORER	021	SDF	TF		FB	0.3	250.2(265.2T)	003.6	AA 03460	GS 03473
		WIMAP	030	MAP	TF		FO	0.3	250.2(265.2T)	002.0	AT 02778	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		250.2(265.2T)		AA 02956	
	OFXEF	050		DF	L	FO				AA 05400	
	OFXEF	060		HM	R	FO		054.9(069.9T)	005.0	AA 05400	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	MQG	N462253.61	W1165210.24	N4622.894	W11652.171
	PUW	N464027.48	W1171324.62	N4640.458	W11713.410
	CEPER	N462811.37	W1162547.60	N4628.190	W11625.793
	CESIN	N463234.31	W1165004.38	N4632.572	W11650.073
	JAKLU	N465101.01	W1164013.22	N4651.017	W11640.220
	JETTS	N465813.78	W1163813.28	N4658.230	W11638.221
	JORER	N464506.82	W1170223.60	N4645.114	W11702.393
	OFXEF	N464024.57	W1172327.14	N4640.410	W11723.452
	WAXIT	N464202.13	W1164636.44	N4642.036	W11646.607
	WIMAP	N464456.58	W1170519.31	N4644.943	W11705.322
	WOMUN	N464525.01	W1165708.76	N4645.417	W11657.146
	RW24	N464446.49	W1170559.90	N4644.775	W11705.998

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW24	02549	59

QUALITY CHECKED

CITY AND STATE	ELEVATION: 2556 / AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	
PULLMAN/MOSCOW,ID, WA	**THRE: 2549** **PULLMAN/MOSCOW RGNL**	**RNAV**	**RNAV (GPS) RWY 24, AMDT 1**	SUP: **RNAV (GPS) RWY 23** / AMDT: **ORIG-A** / DATED: **08/31/2006**

ALL AFFECTED PROCEDURES REVIEWED? ☐ YES ☐ NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER ☐ (specify) _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
FEEDER	CEPER	CESIN	1. AAO	462457.00N/1163024.00W	3632 (4E)	2000	AT368	6000
			2. TERRAIN	462457.00N/1163024.00W	3432 (3400)		AS1500	4900
FEEDER	MQG VOR/DME	CESIN	3. AAO	463336.00N/1165015.00W	3206 (4E)	2000	AT794	6000
			4. TERRAIN	463336.00N/1165015.00W	3006 (3000)		AS1500	4500
FEEDER	JETTS	JAKLU	5. AAO	465327.18N/1163638.58W	4559 (2C)	2000		6600
			6. TERRAIN	465327.18N/1163638.58W	4359 (4400)		AS1500	5900
FEEDER	PUW VOR/DME	WAXIT	7. AAO	464032.27N/1165844.10W	3919 (2C)	2000		6000
			8. TERRAIN	464032.27N/1165844.10W	3719 (3700)		AS1500	5200
INITIAL	CESIN	WAXIT	3. AAO	463336.00N/1165015.00W	3206 (4E)	1000	AT694 PR100	5000
			4. TERRAIN	463336.00N/1165015.00W	3006 (3000)		AS1500	4500
INITIAL	JAKLU	WAXIT	9. AAO	464857.00N/1164454.00W	3603 (4E)	1000	AT397	5000
			10. TERRAIN	464857.00N/1164454.00W	3403 (3400)		AS1500	4900
INTERMEDIATE: LNAV	WAXIT (IF/IAF)	WOMUN	11. AAO	464227.50N/1165523.31W	3679 (2C)	500	SA-98 AT539 PR80	4700
			12. TERRAIN	464236.00N/1165512.00W	3268 (3300)		AS1000	4300
2. HOLD-IN-LIEU-OF-PT	WAXIT	P-6	15. AAO	464224.43N/1165513.75W	3659 (2C)	1000	PR160	4900
			16. TERRAIN	464224.43N/1165513.75W	3459 (3500)		AS1500	5000
3. MISSED APPROACH MAP:	WIMAP	OFXEF				ASC		5400
			17. AAO	464142.00N/1171045.00W	2940 (4E)	1000		4000
ELEV:	2920		18. TERRAIN	464142.00N/1171045.00W	2740 (2700)		AS1500	4200

4. CIRCLING AREA	DISTANCE		HT. ABV. ARPT.		
CATEGORY A	1.3 NM	REQUIRED	350	ACTUAL	564
CATEGORY B	1.5 NM		450		564
CATEGORY C	1.7 NM		450		564
CATEGORY D	2.3 NM		550		564
CATEGORY E	4.5 NM		550		

19. TREE (KPUWT0037)	464535.24N/1170617.55W	2814 (2C)	300		3120
19. TREE (KPUWT0037)	464535.24N/1170617.55W	2814 (2C)	300		3120
19. TREE (KPUWT0037)	464535.24N/1170617.55W	2814 (2C)	300		3120
19. TREE (KPUWT0037)	464535.24N/1170617.55W	2814 (2C)	300		3120

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: WIMAP

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	AAO	037/ 27.1	5560 (6C)	6600					

CITY AND STATE		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
PULLMAN/MOSCOW,ID, WA	ELEVATION: 2556 AIRPORT NAME: PULLMAN/MOSCOW RGNL	RNAV	RNAV (GPS) RWY 24, AMDT 1	ANM

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:
SE ARTCC
EA FSS

ATISFACTORY ON:
(| V H F | X | U H F | | H F

2. WEATHER SERVICE
	N W S	OTHER: ASOS
	F A A	
	A / C	

LOCATION:

3. ALTIMETER SETTING
SOURCE: KPUW / KLWS
DISTANCE: 0 / 22.51
HOURS REMOTE OPERATION: 24 / 24
ADJUSTMENT: 0 / 208

4. MONITOR STATUS
PRIMARY NAVAID:
MONITOR POINT:
HRS OPTN: CAT 1
CAT 3

5. APPROACH & RUNWAY LIGHTING
	ALS
	(S) SALS
	MALS
X	HIRL 24 (PCL), 06 (PCL)
	MIRL
X	REIL 24 (PCL), 06 (PCL)
	TDZ
	C/LINE
X	OTHER (SPECIFY) PAPI-2L 06 PAPI-4L 24

6. RUNWAY MARKINGS
BASIC
ALL WEATHER PIR-G 24
INSTRUMENT NPI-G 06

7. RUNWAY VISUAL RANGE
APPROACH
MIDFIELD
ROLL OUT

8. GLIDE PATH
GP ANGLE:
DISTANCE FROM RWY:
ELEV RWY THRESHOLD:
ELEV GP ANTENNA:
THRESHOLD CROSSING HEIGHT:

9. FINAL APPROACH COURSE AIMING
	RUNWAY THRESHOLD 3006	FT. FROM THRESHOLD
X	ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS: NONE

PART C - REMARKS:

VDP NOT ESTABLISHED - LESS THAN .5 MILE FROM MAP.

THRESHOLD DISPLACED 801.28.

PARA 251, 20:1 PENETRATION.

PARA 251, 34:1 PENETRATION.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

TERPS PARAGRAPH 289 APPLIED TO 3059 AAO
464619N/1165629W
TERPS PARAGRAPH 289 APPLIED TO 3019 AAO
464552N/1165714W

RASS PRESSURE PATTERNS SAME
KPUW 2556.3, KLWS 1441.8
RA = 207.80.
SEE ATTACHED AIRSPACE LETTER.

30' VEGETATION PER FPT.

KPUWT0056 2920 GROUND DISCOUNTED AS CONTROLLING OBSTACLE DUE TO SUSPECTS ELEVATION DATA. 2920 MSL SURVEYED GROUND CONFLICTS SIGNIFICANTLY WITH 7.5 MIN QUAD DATA WHICH INDICATES 2600 MSL AT KPUWT0056 LOCATION AND DTED INDICATES 2609. ACTION INITIATED WITH FPT TO HAVE OBSTACLE REMOVED FROM DATABASE.

LP NOT DEVELOPED. REMOVAL OF KPUWT0056 RESULTS IN SAME CONTROLLING OBSTACLE AND SUBSEQUENTLY THE SAME MDA FOR LP AND LNAV. SINCE THERE IS NOT THE REQUIRED REDUCTION IN MDA AND/OR VISIBILITY, THE ADDITION OF LP MINIMUMS IS NA.

OBSTACLE #13 1190.92' INTO SECONDARY AREA.

25 DEGREE BANK ANGLE UTILIZED IN MISSED APPROACH TO SATISFY MINIMUM LEG LENGTH REQUIREMENTS. AFS MEMO DATED 3 OCT 2011.

TERPS, VOLUME 1, "VISUAL PORTION OF FINAL" PENETRATION:

RWY 24 20:1
2627 GROUND (KPUW0030)
464447.31N/1170538.72W (17.04)
2712 GROUND (KPUWT0026)
464452.19N/1170513.19W (10.04)
2568 GROUND (KPUW0025)
464445.58N/1170553.00W (7.78)
2707 GROUND (KPUW0029)
464452.28N/1170512.90W (3.93)
34:1
2712 GROUND (KPUWT0038)
464447.17N/1170504.66W (61.59)
2700 MSL HZD LT (KPUW0049)
464457.15N/1170512.18W (53.97)
2627 GROUND (KPUW0030)
464447.31N/1170538.72W (42.06)
2654 MSL GRND (KPUWT0027)
464451.29N/1170524.48W (37.60)
2714 MSL GRND (KPUW0033)
464458.19N/1170449.07W (22.40)
2634 MSL HZD LT (KPUW0047)
464454.16N/1170528.46W (22.36)
2580 MSL GRND (KPUW0085)
464447.56N/1170545.16W (7.21)
CONT.

PART D - PREPARED BY: KEITH D. SHYKES
DATE: 04/19/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST
OFFICE: AJV-354

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
FINAL: LNAV	WOMUN	JORER/2.02 NM TO	13. AAO	464543.19N/1165852.21W	2979 (2C)	250	XL7 RA208	3460
		WIMAP						
FINAL: LNAV STEPDOWN	JORER/2.02 NM TO	WIMAP	14. TREE	464453.71N/1170429.34W	2769 (2C)	250		3020
	WIMAP							
3. MISSED APPROACH	MAP:							
	ELEV:							

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT.	
		REQUIRED	ACTUAL
CATEGORY A	1.3 NM	350	
CATEGORY B	1.5 NM	450	
CATEGORY C	1.7 NM	450	
CATEGORY D	2.3 NM	550	
CATEGORY E	4.5 NM	550	

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID:

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A

CITY AND STATE		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
PULLMAN/MOSCOW,ID, WA	**ELEVATION: 2556** AIRPORT NAME: PULLMAN/MOSCOW RGNL	RNAV	RNAV (GPS) RWY 24, AMDT 1	ANM

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE	3. ALTIMETER SETTING
	N W S OTHER:	SOURCE:
	F A A	DISTANCE:
	A / C	HOURS REMOTE OPERATION:
ATISFACTORY ON:		
V H F U H F H F	LOCATION:	ADJUSTMENT:

4. MONITOR STATUS	PRIMARY NAVAID:	
	MONITOR POINT:	
	HRS OPTN:	CAT 1
		CAT 3
5. APPROACH & RUNWAY LIGHTING		ALS
		(S) SALS
		MALS
		HIRL
		MIRL
		REIL
		TDZ
		C/LINE
		OTHER (SPECIFY)
6. RUNWAY MARKINGS		BASIC
		ALL WEATHER
		INSTRUMENT
7. RUNWAY VISUAL RANGE		APPROACH
		MIDFIELD
		ROLL OUT
8. GLIDE PATH	GP ANGLE:	ELEV RWY THRESHOLD:
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT:
9. FINAL APPROACH COURSE AIMING		RUNWAY THRESHOLD FT. FROM THRESHOLD
		ON CENTERLINE FT. FROM CENTERLINE

10. WAIVERS:

PART D - PREPARED BY:	DATE:
TITLE:	OFFICE:

PART C - REMARKS:

CONTINUED.
2674 MSL TREE (KPUW0072)
464508.06N/1170505.66W (4.36)
2589 MSL HZD LT (KPUW0048)
464450.31N/1170539.37W (2.27)

RADIO FIX AND HOLDING DATA RECORD

NAME: CEPER **STATE:** ID **COUNTRY:** US

LATITUDE/LONGITUDE: 462811.37N/1162547.60W **TYPE:** WP, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	NEZ PERCE	MQG	VOR/DME	L	053.65	073.65	19.00	19.00		5500	17500

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V187	1				(US)
IAP	RNAV (GPS) X RWY 24			KPUW	PULLMAN/MOSCOW,ID	WA (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 07/26/2012

DEVELOPED BY: **DATE:** 03/29/2012 **OFFICE:** AJV-354 **NAME:** KEITH SHYKES

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZSE
ATC FACILITY:
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: CESIN **STATE:** ID **COUNTRY:** US

LATITUDE/LONGITUDE: 463234.31N/1165004.38W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

HOLDING: **HOLDING TYPE OF ACTION:** CANCEL

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) X RWY 24			KPUW	PULLMAN/MOSCOW,ID	WA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
DELETED FAC 1; NO LONGER REQUIRED FOR WP REFERENCE.
DELETED PAT 1; KPUW SIAP MISSED APPROACH CHANGED TO ANOTHER WP, HOLDING NO LONGER REQUIRED.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 03/28/2012 **OFFICE:** AJV-354 **NAME:** KEITH SHYKES

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZSE
ATC FACILITY:
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: JAKLU **STATE:** ID **COUNTRY:** US

LATITUDE/LONGITUDE: 465101.01N/1164013.22W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) X RWY 24			KPUW	PULLMAN/MOSCOW,ID	WA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 07/26/2012

DEVELOPED BY: **DATE:** 04/20/2012 **OFFICE:** AJV-354 **NAME:** KEITH SHYKES

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZSE
ATC FACILITY:
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: JETTS **STATE:** ID **COUNTRY:** US

LATITUDE/LONGITUDE: 465813.78N/1163813.28W **TYPE:** WP, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	PULLMAN	PUW	VOR/DME	L	033.44	053.44	30.00	30.00		9000	17500

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V536	1				(US)
IAP	RNAV (RNP) RWY 30			KLWS	LEWISTON	ID (US)
IAP	RNAV (GPS) X RWY 24			KPUW	PULLMAN/MOSCOW, ID	WA (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 06/03/2010

REASON FOR REVISION:
ADDED WP TO FIX TYPE.
ADDED DISTANCE FROM FAC VALUE OF 30.00NM.
UPDATED FIX USE.

ATC COORDINATION: **DATE:** 08/25/2009 **FACILITY:** **NAME:** S

DEVELOPED BY: **DATE:** 08/25/2009 **OFFICE:** AVN-130 **NAME:** KEITH SHYKES

APPROVED BY: **DATE:** 05/06/2010 **OFFICE:** AVN-130 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZSE
ATC FACILITY: SEA APP CON
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: JORER **STATE:** ID **COUNTRY:** US

LATITUDE/LONGITUDE: 464506.82N/1170223.60W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) X RWY 24			KPUW	PULLMAN/MOSCOW,ID	WA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
FIX RELOCATED 3551.77' 265.10T; DESCENT GRADIENT.
DELETED FAC 1; WP REFERENCE NO LONGER REQUIRED.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 03/28/2012 **OFFICE:** AJV-354 **NAME:** KEITH SHYKES

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZSE
ATC FACILITY:
OTHER:

QUALITY CHECKED 4

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: NEZ PERCE VOR/DME **STATE:** ID **COUNTRY:** US

LATITUDE/LONGITUDE: 462253.61N/1165210.24W **TYPE:**

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	NEZ PERCE	MQG	VOR/DME	L							17500

FIX RESTRICTIONS:
MCA V253 6400 SOUTHEAST BOUND

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	NE	MQG	VOR/DME	045.00	225.00	R	1		5000	17500	5	16
2	SW	MQG	VOR/DME	246.00	066.00	L	1		5000	17500	5	16
3	NE		WP	050.00	230.00	R		5	6000	17500	6	17

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	463009.00N/1164906.00W	2799	4E
1	310	AAO	461939.00N/1163818.00W	3996	4E
2	200	TOWER (16-000286)	462733.00N/1170218.00W	3193	5E
3	200	AAO	463051.00N/1164921.00W	2999	4E

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	200	117
1	310	253
2	200	149
3	200	143

REASON FOR NONSTANDARD HOLDING:
PAT 2 TERRAIN

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN(S).

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	VOR RWY 8	KLWS	LEWISTON	ID (US)
1	VOR RWY 26	KLWS	LEWISTON	ID (US)
1	ILS RWY 26	KLWS	LEWISTON	ID (US)

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	TAKEOFF MINIMUMS		2	KLWS	LEWISTON	ID (US)
DP	TRI-CITIES			KPSC	PASCO	WA (US)
DP	SPOKANE			KGEG	SPOKANE	WA (US)
DP	FELTS			KSFF	SPOKANE	WA (US)
DP	WALLA WALLA			KALW	WALLA WALLA	WA (US)
EN ROUTE	V182					(US)
EN ROUTE	V187					(US)
EN ROUTE	V253					(US)
EN ROUTE	V520					(US)
IAP	ILS RWY 26		1	KLWS	LEWISTON	ID (US)
IAP	RNAV (GPS) Y RWY 26			KLWS	LEWISTON	ID (US)
IAP	RNAV (RNP) RWY 30		3	KLWS	LEWISTON	ID (US)
IAP	RNAV (RNP) Z RWY 12			KLWS	LEWISTON	ID (US)
IAP	VOR RWY 26		1	KLWS	LEWISTON	ID (US)
IAP	VOR RWY 8		1	KLWS	LEWISTON	ID (US)
IAP	RNAV (GPS) X RWY 24			KPUW	PULLMAN/MOSCOW, ID	WA (US)
IAP	VOR RWY 5			KPUW	PULLMAN/MOSCOW, ID	WA (US)
IAP	VOR/DME-A			KPUW	PULLMAN/MOSCOW, ID	WA (US)

REQUIRED CHARTING: DP, IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 15 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
CHANGED LEG TIME FROM 1 1/2 TO 1 IN PATTERNS 1 & 2.
ADDED PRECIPITOUS TERRAIN ADJUSTMENT TO PATTERN 1 CIH.

DEVELOPED BY:	**DATE:** 03/09/2012	**OFFICE:** AJV-354	**NAME:** ADOLFO URRUTIA (WES COMBS)
APPROVED BY:	**DATE:**	**OFFICE:** AJV-354	**NAME:** DEZ SILAGYI
	SIGNATURE:		

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZSE
ATC FACILITY: LWS ATCT
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: OFXEF **STATE:** WA **COUNTRY:** US

LATITUDE/LONGITUDE: 464024.57N/1172327.14W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	SW		WP	234.91	054.91	R		5	5000	14000	6	11

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	463645.00N/1171727.00W	2976	4E

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	200	170

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED: PAT 1 170'.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) X RWY 24		1	KPUW	PULLMAN/MOSCOW,ID	WA (US)
IAP	RNAV (GPS) Y RWY 6		1	KPUW	PULLMAN/MOSCOW,ID	WA (US)
IAP	RNAV (RNP) Y RWY 24		1	KPUW	PULLMAN/MOSCOW,ID	WA (US)
IAP	RNAV (RNP) Z RWY 24		1	KPUW	PULLMAN/MOSCOW,ID	WA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
FIX RELOCATED 3416.49', 249.90T; MINIMUM SEGMENT LENGTH FOR KPUW SIAPS.
REMOVED FAC 1; WP REFERENCE NO LONGER REQUIRED.
CHANGED PAT 1 RAD/CRS/BRG FROM 230.92 TO 234.91 AND CRS INBOUND FROM 050.92 TO 054.91; KPUW MAGVAR UPDATE.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 02/27/2012 **OFFICE:** AJV-354 **NAME:** KEITH SHYKES

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZSE
ATC FACILITY:
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: PULLMAN VOR/DME **STATE:** WA **COUNTRY:** US

LATITUDE/LONGITUDE: 464027.48N/1171324.62W **TYPE:**

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	PULLMAN	PUW	VOR/DME	L							17500

FIX RESTRICTIONS:
SPECIAL TLS RWY 5, KPUW, PULLMAN/MOSCOW, ID, WA

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	SW	PUW	VOR/DME	211.94	031.94	L	1-1 1/2		4700	17500	5	16

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	463912.00N/1170936.00W	3065	4E
1	310	AAO	463804.60N/1170516.70W	3646	4E

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	200	110

REASON FOR NONSTANDARD HOLDING:
PAT 1 HIGH TERRAIN TO SOUTH

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	VOR RWY 6	KPUW	PULLMAN/MOSCOW, ID	WA (US)
1	TAKE-OFF MINIMUM AND DEPARTURE PROCEDURES	KPUW	PULLMAN/MOSCOW, ID	WA (US)

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	POTOR			KLWS	LEWISTON	ID (US)
DP	TRI CITIES			KPSC	PASCO	WA (US)
DP	TAKE-OFF MINIMUM AND DEPARTURE PROCEDURES		1	KPUW	PULLMAN/MOSCOW, ID	WA (US)
DP	SPOKANE			KGEG	SPOKANE	WA (US)
DP	FELTS			KSFF	SPOKANE	WA (US)
DP	WALLA WALLA			KALW	WALLA WALLA	WA (US)
EN ROUTE	V253					(US)
EN ROUTE	V536					(US)
IAP	RNAV (GPS) Y RWY 12			KLWS	LEWISTON	ID (US)
IAP	RNAV (RNP) RWY 30			KLWS	LEWISTON	ID (US)
IAP	RNAV (RNP) Z RWY 12			KLWS	LEWISTON	ID (US)
IAP	VOR RWY 8			KLWS	LEWISTON	ID (US)
IAP	TLS RWY 5			KPUW	PULLMAN/MOSCOW, ID	WA (US)
IAP	VOR RWY 6		1	KPUW	PULLMAN/MOSCOW, ID	WA (US)
IAP	RNAV (GPS) X RWY 24			KPUW	PULLMAN/MOSCOW,ID	WA (US)
IAP	RNAV (RNP) Y RWY 24			KPUW	PULLMAN/MOSCOW,ID	WA (US)
IAP	RNAV (RNP) Z RWY 24			KPUW	PULLMAN/MOSCOW,ID	WA (US)
STAR	ZOOMR			KGEG	SPOKANE	WA (US)

REQUIRED CHARTING: DP, STAR, MILITARY IAP, IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 9 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:

4

LAT/LONG UPDATED FROM 464027.50N/1171324.60W TO464027.48N/1171324.62W;AVNIS FACILITY RECORD.
ADDED CLIMB IN HOLD TO PAT 1.
INCREASED PAT 1 MIN HOLDING ALT FROM 4400 TO 4700; CLIMB IN HOLD LVL SFC OBSTACLE.
REMOVED PAT 2; NO LONGER REQUIRED.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 02/06/2012 **OFFICE:** AJV-354 **NAME:** KEITH SHYKES

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZSE
ATC FACILITY: SEA APP CON
OTHER:

QUALITY A CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: WIMAP **STATE:** WA **COUNTRY:** US

LATITUDE/LONGITUDE: 464456.58N/1170519.31W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) X RWY 24			KPUW	PULLMAN/MOSCOW,ID	WA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 07/26/2012

DEVELOPED BY: **DATE:** 03/29/2012 **OFFICE:** AJV-354 **NAME:** KEITH SHYKES

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZSE
ATC FACILITY:
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: WAXIT **STATE:** ID **COUNTRY:** US

LATITUDE/LONGITUDE: 464202.13N/1164636.44W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

HOLDING: **HOLDING TYPE OF ACTION:** ESTABLISH

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	E		WP	100.08	280.08	L		5	5000	14000	6	11

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	464224.43N/1165513.75W	3659	2C

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	200	160

REASON FOR NONSTANDARD HOLDING:
PAT 1 TERRAIN AVOIDANCE

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED: PAT 1 160' ADJUSTMENT.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) X RWY 24		1	KPUW	PULLMAN/MOSCOW,ID	WA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
FIX RELOCATED 6044.62', 115.06T; RELOCATED TO MITIGATE OBSTACLE IN KPUW SIAP TURN EXPANSION AREA.
DELETED FAC 1; WP REFERENCE NO LONGER REQUIRED.
ADDED PAT 1; FACILITATES HOLD-IN LIEU INITIAL FOR KPUW SIAP.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 03/28/2012 **OFFICE:** AJV-354 **NAME:** KEITH SHYKES

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZSE
ATC FACILITY:
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: WOMUN **STATE:** ID **COUNTRY:** US

LATITUDE/LONGITUDE: 464525.01N/1165708.76W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) X RWY 24			KPUW	PULLMAN/MOSCOW,ID	WA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
FIX RELOCATED 48.32', 24.21T; PFAF CALCULATION.
DELETED FAC 1; WP REFERENCE NO LONGER REQUIRED.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 03/28/2012 **OFFICE:** AJV-354 **NAME:** KEITH SHYKES

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZSE
ATC FACILITY:
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: JAKBU **STATE:** ID **COUNTRY:** US

LATITUDE/LONGITUDE: 465140.12N/1164216.03W **TYPE:** WP

CANCELLED

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** CANCEL

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	WAXIT					022.81	10.00				17500

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	PULLMAN/MOSCOW REGIONAL - RNAV (GPS) RWY 23			KPUW	PULLMAN/MOSCOW, ID	WA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 03/17/2005

DEVELOPED BY: **DATE:** **OFFICE:** **NAME:**

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: SEA
ARTCC: ZSE
ATC FACILITY:
OTHER:

QUALITY CHECKED

Federal Aviation Administration

Memorandum

Date: FEB 08 2012

To: Dick Powell Manager, National Flight Data Center, AJV-21

From: ORIGINAL SIGNED
Dez Silagyi, Manager, Terminal Procedures & Charting Services, Western Team, AJV-354

Subject: **ACTION:** Magnetic Variation Change

The Magnetic Variation (MV) data for the airport(s) and/or facility(s) listed under the 'Airport/Facility" column will be revised effective concurrent with the publication of the procedure(s) listed below.

Takeoff Minimums and Obstacle DP, AMDT 4
RNAV (GPS) Y RWY 6, AMDT 2
RNAV (GPS) Y RWY 24, AMDT 1
RNAV (RNP) Z RWY 6, ORIG
RNAV (RNP) Z RWY 24, ORIG

Estimated Chart Date: 07/26/2012

Runway Numbers are affected with the airport rotation; 5/23 change to 6/24.

Please publish these changes in the National Flight Data Digest.

WASHINGTON

Location	Name	Airport /Facility	Identifier	Assigned Magnetic Variation Value	Epoch Year
Pullman/Moscow, ID	Pullman/Moscow Rgnl	Airport	KPUW/PUW	Old 19 ° East New 15 ° East	2015

If you have any questions please notify Dez Silagyi, dez.silagyi@faa.gov (405) 954-9977

CONCURRENCES

ROUTING SYMBOL	INITIALS/SIG	DATE
AJV-34 SBaker	SJB	2-7-12
AJV-354 Lead		
AJV-354 DSilagyi		2/7/12
AJV-341 PGetz		

cc: SEA-FPT , AVJ-3rf
AJV-354; DSilagyi:sbj::x7537:02/07/2012 :U:\AVN100\100Public\MAGVAR\MAGVAR Letters 2012\MV Request MV Change for PULLMAN/MOSCOW,ID, WA (KPUW/PUW) 2-7-12, Requestor:KShykes, AJW-3762:CPavelko