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
ISN VORTAC (IAF)	BEYYA (FB)	307.99 / 31.79	5000
RILMY (IAF)	BEYYA (FB)	028.11 / 37.60	5000
BEYYA (IF)	QUDUC (FB)	302.30 / 7.37	3900
QUDUC (FAF)	LOTNE/2.00 NM TO RW30 (FB)	302.20 / 3.11	
LOTNE/2.00 NM TO RW30	RW30 (MAP) (FO)	302.16 / 2.00	
RW30 (MAP)	2900 MSL	302.16	2900
2900 MSL	BEYYA (FO)		5000

MISSED APPROACH

LPV: DA
LNAV/VNAV: DA
LNAV: RW30

CLIMB TO 2900 THEN CLIMBING RIGHT TURN TO 5000 DIRECT BEYYA AND HOLD.

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. PROFILE STARTS AT BEYYA
3. FAC: 302.20 FAF: QUDUC DIST FAF TO MAP: 5.11 THLD: 5.11
4. MIN. ALT: BEYYA 5000, QUDUC 3900, LOTNE/2.00 NM TO RW30 2900*
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: 3900 GS ALT AT: QUDUC 3900 OM: ____ MM: ____ IM: ____
7. GS ANGLE: 3.00 TCH: 34.0 34:1 IS CLEAR
8. MSA FROM: RW30 4100

ADDITIONAL FLIGHT DATA:
HOLD SE, RT, 302.30 INBOUND.
CHART FAS OBST: 2311 TREE 484604N/1042815W
2509 AAO 484420N/1042442W.
DISTANCE TO THLD FROM 200 HATH: 0.52 NM.
CHART VDP AT 0.97 MILES TO RW30*
*LNAV ONLY.
WAAS CHANNEL # 50529
REFERENCE PATH ID: W30A
LTP HAE: 663.8 M

MAG VAR: 10E EPOCH YEAR: 2005

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	2438	3/4	200	2438	3/4	200	2438	3/4	200	2438	3/4	200			
LNAV/VNAV DA	2488	7/8	250	2488	7/8	250	2488	7/8	250	2488	7/8	250			
LNAV MDA	2580	1	342	2580	1	342	2580	1	342	2580	1	342			
CIRCLING	2680	1	416	2720	1	456	2720	1 1/2	456	2820	2	556			

NOTES:
CHART NOTE: CIRCLING TO RWY 8, 16, 26, 34 NA AT NIGHT.
CHART NOTE: BARO-VNAV NA WHEN USING WILLISTON ALTIMETER SETTING.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -19C (-2F) OR ABOVE 29C (84F).
CHART NOTE: DME/DME RNP-0.3 NA.
(SEE FORM 8260-10)

QUALITY 2 CHECKED

CITY AND STATE	ELEVATION: 2264 THRE: 2238	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
PLENTYWOOD, MT	AIRPORT NAME: SHER-WOOD	RNAV	RNAV (GPS) RWY 30, ORIG	AMDT: NONE
				DATED

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] **ZLC, ARPT MGR**

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME: **ADOLFO URRUTIA (HEIDI SNIDER)**	FIFO **AJV-354**	DATE: **03/01/2012**
APPROVED BY		
NAME: **DEZ SILAGYI** **MANAGER**	FIFO **AJV-354**	DATE:

CHANGES:

ORIGINAL PROCEDURE

REASONS:

FPT REQUEST

QUALITY 2 CHECKED

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NOTES, (CONT.):
CHART NOTE: VDP NA WITH WILLISTON ALTIMETER SETTING.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE WILLISTON ALTIMETER SETTING AND INCREASE ALL DA 157 FT AND ALL MDA 160 FT. INCREASE LPV, LNAV/VNAV ALL CATS VISIBILITY 1/2 MILE, LNAV CAT C AND D VISIBILITY 3/8 MILE, CIRCLING CAT C AND D VISIBILITY 1/4 MILE.

QUALITY 2 CHECKED

CITY AND STATE	ELEVATION: 2264 THRE: 2238	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
PLENTYWOOD, MT	AIRPORT NAME: SHER-WOOD	RNAV	RNAV (GPS) RWY 30, ORIG	AMDT: NONE
				DATED:

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

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:

REASONS:

QUALITY 2 CHECKED

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FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KPWD
RUNWAY	RW30
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W30A
LTP/FTP LATITUDE	484706.9505N
LTP/FTP LONGITUDE	1043104.7415W
LTP/FTP ELLIPSOIDAL HEIGHT	+06638
FPAP LATITUDE	484806.6600N
FPAP LONGITUDE	1043244.6900W
THRESHOLD CROSSING HEIGHT (TCH)	00034.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1560
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	063FA5E5

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+06821
FPAP ORTHOMETRIC HEIGHT	+06821

QUALITY 2 CHECKED

CITY AND STATE	ELEVATION: 2264 THRE: 2238	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
PLENTYWOOD, MT	AIRPORT NAME: SHER-WOOD	RNAV	RNAV (GPS) RWY 30, ORIG	AMDT: NONE
				DATED:

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

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:

REASONS:

QUALITY CHECKED 2

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  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        ISN   K3011630VTLA N48151230W103450240    N48151230W103450240E0120023721     NARWILLISTON

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   BEYYA K10    W     N48384414W104170727                      E0091     NAR           BEYYA
        SUSAEAENRT   LOTNE K10    W     N48454649W104285023                      E0092     NAR           LOTNE
        SUSAEAENRT   QUDUC K10    W     N48434120W104252114                      E0092     NAR           QUDUC
        SUSAEAENRT   RILMY K10    C   L N48091545W104520719                      E0095     NAR           RILMY

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KPWDK1APWD     0     039YHN48472040W104312270E010002264         1800018000C    MNAR    SHER-WOOD

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KPWDK1FR30   AISN   010ISN  K3D 0V  A    IF                                                18000                 A JS
        SUSAP KPWDK1FR30   AISN   020BEYYAK1EA0EE B 010TF                    30800318    + 05000                             A JS
        SUSAP KPWDK1FR30   ARILMY 010RILMYK1EA0E  A    IF                                                18000                 A JS
        SUSAP KPWDK1FR30   ARILMY 020BEYYAK1EA0EE B 010TF                    02810376    + 05000                             A JS
        SUSAP KPWDK1FR30   R      010BEYYAK1EA0E  I    IF                                 + 05000     18000                 A JS
        SUSAP KPWDK1FR30   R      020QUDUCK1EA1E  F 051TF                    30230074    + 03900                  RW30  K1PGA JS
        SUSAP KPWDK1FR30   R      020QUDUCK1EA2WALPV       ALNAV/VNAV ALNAV                                                    JS
        SUSAP KPWDK1FR30   R      021LOTNEK1EA0E S  031TF                    30220031    V 0290002909        -300          A JS
        SUSAP KPWDK1FR30   R      030RW30 K1PG0GY M 031TF                    30220020      02272             -300          A JS
        SUSAP KPWDK1FR30   R      040         0  M     CA                    3022        + 02900                             A JS
        SUSAP KPWDK1FR30   R      050BEYYAK1EA0EY  R   DF                                 + 05000                             A JS
        SUSAP KPWDK1FR30   R      060BEYYAK1EA0EE  R   HM                    30230050    + 05000                             A JS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KPWDK1GRW30    0039003021 N48470695W104310474+0400    +0663802238000034075R

                 1         2         3         4         5         6         7         8         9         0         1         2         3
PP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KPWDK1PR30   RW30 001 0000W30A0N4847069505W10431047415+066380300N4848066600W104324469001067515600003 40F400350063FA5E5
        SUSAP KPWDK1PR30   RW30 002E      +06821+06821LPV       50529
```

QUALITY 2 CHECKED

CITY AND STATE	ELEVATION: 2264 THRE: 2238	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
PLENTYWOOD, MT	AIRPORT NAME: **SHER-WOOD**	**RNAV**	**RNAV (GPS) RWY 30, ORIG**	AMDT: **NONE**
				DATED:

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

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
FLIGHT STANDARDS SERVICES - FAR PART 97.33

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```
                1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KPWDK1SRW30 K1PG                0   18018004125                                                                        M
```

QUALITY 2 CHECKED

CITY AND STATE	ELEVATION: 2264 THRE: 2238	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
PLENTYWOOD, MT	AIRPORT NAME: SHER-WOOD	RNAV	RNAV (GPS) RWY 30, ORIG	AMDT: NONE
				DATED:

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

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

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
	ISN	ISN	010	IAF	IF		FB					
	ISN	BEYYA	020		TF		FB	1.0	308.0(318.0T)	031.8	AA 05000	
	RILMY	RILMY	010	IAF	IF		FB					
	RILMY	BEYYA	020		TF		FB	1.0	028.1(038.1T)	037.6	AA 05000	
		BEYYA	010	FACF	IF		FB				AA 05000	
		QUDUC	020	FAF	TF		FB	0.5	302.3(312.3T)	007.4	AA 03900	
		LOTNE	021	SDF	TF		FB	0.3	302.2(312.2T)	003.1	AA 02900 GS 02909	
		RW30	030	MAP	TF		FO	0.3	302.2(312.2T)	002.0	AT 02272	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		302.2(312.2T)		AA 02900	
	BEYYA	050		DF	R	FO				AA 05000	
	BEYYA	060		HM	R	FO		302.3(312.3T)	005.0	AA 05000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	ISN	N481512.30	W1034502.40	N4815.205	W10345.040
	BEYYA	N483844.14	W1041707.27	N4838.736	W10417.121
	LOTNE	N484546.49	W1042850.23	N4845.775	W10428.837
	QUDUC	N484341.20	W1042521.14	N4843.687	W10425.352
	RILMY	N480915.45	W1045207.19	N4809.258	W10452.120
	RW30	N484706.95	W1043104.74	N4847.116	W10431.079

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW30	02238	34

QUALITY 2 CHECKED

CITY AND STATE	ELEVATION: **2264** THRE: **2238**	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
PLENTYWOOD, MT	AIRPORT NAME: **SHER-WOOD**	**RNAV**	**RNAV (GPS) RWY 30, ORIG**	AMDT: **NONE**
				DATED:

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

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.
INITIAL	ISN VORTAC	BEYYA	1. AAO	482512.50N/1035653.10W	2720 (4E)	1000	AT1280	5000
			2. TERRAIN	482512.50N/1035653.10W	2520 (2500)		AS1500	4000
INITIAL	RILMY	BEYYA	3. AAO	483942.00N/1041733.00W	2589 (4E)	1000	AT1411	5000
			4. TERRAIN	481048.00N/1044842.00W	2379 (2400)		AS1500	3900
INTERMEDIATE	BEYYA	QUDUC	5. AAO	484130.00N/1041857.00W	2638 (4E)	500	AC98	3300
			6. TERRAIN	484130.00N/1041857.00W	2438 (2400)		AS1500	3900
FINAL: LPV	QUDUC	RW30				ASC		2438/200
FINAL: LNAV/VNAV	QUDUC	RW30	7. THRESHOLD	484706.95N/1043104.74W	2238 (1A)	23.44:1		2488/250
FINAL: LNAV	QUDUC	LOTNE/2.00 NM TO RW30	8. AAO	484427.59N/1042544.09W	2449 (2C)	250	RA157 DG44	2900
FINAL: LNAV STEPDOWN	LOTNE/2.00 NM TO RW30	RW30	9. TREE	484603.68N/1042814.57W	2311 (2C)	250		2580
2. PROCEDURE TURN	NA							
3. MISSED APPROACH MAP:	DA / DA / RW30	BEYYA				ASC		5000
			10. AAO	484800.00N/1042200.00W	2825 (4E)	1000		3900
ELEV:	2273/2327/2480		11. TERRAIN	484800.00N/1042200.00W	2625 (2600)		AS1500	4100

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL						
CATEGORY A	1.3 NM	350	416	12. TOWER (30-000639)	484703.97N/1043330.04W	2361 (1A)	300		2680
CATEGORY B	1.5 NM	450	456	12. TOWER (30-000639)	484703.97N/1043330.04W	2361 (1A)	300	HAA	2720
CATEGORY C	1.7 NM	450	456	TOWER (30-000639)	484703.97N/1043330.04W	2361 (1A)	300	HAA	2720
CATEGORY D	2.3 NM	550	556	13. TREE	484700.67N/1042741.25W	2411 (2C)	300	HAA	2820
CATEGORY E	4.5 NM	550							

5. MINIMUM SAFE ALTITUDES PRIMARY NAVAID: RW30

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	AAO	247/ 24.8	3054 (2C)	4100					2

QUALITY CHECKED

CITY AND STATE	ELEVATION: 2264 AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
PLENTYWOOD, MT	SHER-WOOD	RNAV	RNAV (GPS) RWY 30, ORIG	ANM

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE			3. ALTIMETER SETTING
ZLC ARTCC GTF FSS		N W S	OTHER: AWOS-A	SOURCE: KPWD / KISN
		F A A		DISTANCE: 0 / 50.81
		A / C		HOURS REMOTE OPERATION: BACKUP
SATISFACTORY ON:				
X V H F X U H F H F	LOCATION: KPWD			ADJUSTMENT: 0 / 157

4. MONITOR STATUS	PRIMARY NAVAID:		
	MONITOR POINT:		
	HRS OPTN:	CAT 1	
		CAT 3	
5. APPROACH & RUNWAY LIGHTING		ALS	
		(S) SALS	
		MALS	
		HIRL	
	X	MIRL 12 (PCL), 30 (PCL)	
		REIL	
		TDZ	
		C/LINE	
	X	OTHER (SPECIFY) PAPI-2L 12, 30	
6. RUNWAY MARKINGS	BASIC NPI-F 12, 30		
	ALL WEATHER		
	INSTRUMENT		
7. RUNWAY VISUAL RANGE	APPROACH		
	MIDFIELD		
	ROLL OUT		
8. GLIDE PATH	GP ANGLE: 3.00		ELEV RWY THRESHOLD: 2237.8
	DISTANCE FROM RWY:		ELEV GP ANTENNA:
			THRESHOLD CROSSING HEIGHT: 34.0
9. FINAL APPROACH COURSE AIMING	X	RUNWAY THRESHOLD	FT. FROM THRESHOLD
	X	ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS: NONE

PART D - PREPARED BY: ADOLFO URRUTIA (HEIDI SNIDER)	DATE: 03/01/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-354

PART C - REMARKS:

ISA DEVIATION USED: -30C (-54F)

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

TERPS PARAGRAPH 289 APPLIED TO 2509 AAO
484420N/1042442W

SERVICE A: KPWD: NO/KISN: YES

VGSI DATA: 3.00/34
LPV SLOPE: 34:1
LNAV/VNAV SLOPE: 23:44:1

AVERAGE COLD TEMPERATURE DATA NOT AVAILABLE FOR AIRPORT. USED STANDARD ISA DEVIATION.

AVERAGE VEGETATION ASSUMED TO BE 12 FT PER FPT.

OE/AAA DATA CASE ASN # 2011-ANM-3241-OE USED TO DETERMINE OBSTACLE 30-000639 1A ACCURACY CODE, VERIFIED BY O.E. TEAM.

CIRCLING TO RWY 8, 16, 26, 34 NA AT NIGHT DUE TO NO RUNWAY LIGHTING.

RASS PRESSURE PATTERNS SAME
KPWD 2264, KISN 1982
RA = 156.4.
SEE ATTACHED AIRSPACE LETTER.

UTILIZED A 25 DEGREE BANK ANGLE IN MISSED APPROACH DESIGN TO AVOID CANADIAN AIRSPACE TO FPT REQUESTED TERMINATION FIX.

TAA NOT DEVELOPED DUE TO PROXIMITY TO CANADIAN AIRSPACE.

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: BEYYA **STATE:** MT **COUNTRY:** US

LATITUDE/LONGITUDE: 483844.14N/1041707.27W **TYPE:** WP

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

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	SE		WP	122.30	302.30	R		5	5000	10000	6	10

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	484424.00N/1041506.00W	2661	4E

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 12		1	KPWD	PLENTYWOOD	MT (US)
IAP	RNAV (GPS) RWY 30		1	KPWD	PLENTYWOOD	MT (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 02/24/2012 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (HEIDI SNIDER)

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

SIGNATURE:

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

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: LOTNE **STATE:** MT **COUNTRY:** US

LATITUDE/LONGITUDE: 484546.49N/1042850.23W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 30			KPWD	PLENTYWOOD	MT (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 03/20/2012 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (HEIDI SNIDER)

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

SIGNATURE:

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

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: QUDUC **STATE:** MT **COUNTRY:** US

LATITUDE/LONGITUDE: 484341.20N/1042521.14W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 30			KPWD	PLENTYWOOD	MT (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 02/24/2012 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (HEIDI SNIDER)

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

SIGNATURE:

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

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: RILMY **STATE:** MT **COUNTRY:** US

INFO ONLY

LATITUDE/LONGITUDE: 480915.45N/1045207.19W **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	WILLISTON	ISN	VORTAC	L	250.86	262.86	45.26	45.26		6000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
ISN	VORTAC	R-251	46	6000	17500

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

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	067.99	247.99	R		6	6000	14000	8	11

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	TOWER (30-000239)	481200.00N/1043140.00W	2869	5E

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
HOLDING FOR ATC USE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V430					MT (US)
IAP	RNAV (GPS) RWY 12			KPWD	PLENTYWOOD	MT (US)
IAP	RNAV (GPS) RWY 30			KPWD	PLENTYWOOD	MT (US)
IAP	RNAV (GPS) RWY 27			KPO1	POPLAR	MT (US)
IAP	RNAV (GPS) RWY 29			KOLF	WOLF POINT	MT (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 09/23/2010

REASON FOR REVISION:
1. DELETE FAC2, NO LONGER REQUIRED.
2. UPDATE FIX USE.
3. CHANGED DME LEG LENGTH FROM 4 TO 6.

DEVELOPED BY: **DATE:** 04/05/2010 **OFFICE:** AVN-130 **NAME:** PATRICK MULQUEEN

APPROVED BY: **DATE:** 06/23/2010 **OFFICE:** AVN-130 **NAME:** DEZ SILAGYI

SIGNATURE:

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

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: WILLISTON VORTAC **STATE:** ND **COUNTRY:** US

INFO ONLY

LATITUDE/LONGITUDE: 481512.30N/1034502.40W **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	FEET	MRA	MAA
1	WILLISTON	ISN	VORTAC	L							45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
ISN	VORTAC	R-043	90	18000	45000

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	NW	ISN	VORTAC	305.00	125.00	R	1-1 1/2		4000	17500	5	16

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	TOWER (38-000003)	480802.00N/1035138.00W	3217	4D
1	200	AAO	481815.00N/1035809.00W	2691	5E

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 4300 FT.

REMARKS:
ADDITIONAL AIRSPACE REQUIRED FOR PAT 1, P-16 AND UNPLANNED HOLDING P-16.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	J549					(US)
EN ROUTE	V430					(US)
EN ROUTE	V439					(US)
EN ROUTE	V465					(US)
EN ROUTE	V545	1				(US)
EN ROUTE	V71					(US)
IAP	RNAV (GPS) RWY 12			KPWD	PLENTYWOOD	MT (US)
IAP	RNAV (GPS) RWY 30			KPWD	PLENTYWOOD	MT (US)
IAP	RNAV (GPS) RWY 12			K9S2	SCOBEY	MT (US)
IAP	NDB RWY 1			KSDY	SIDNEY	MT (US)
IAP	NDB RWY 19			KSDY	SIDNEY	MT (US)
IAP	NDB RWY 29			KOLF	WOLF POINT	MT (US)
IAP	RNAV (GPS) RWY 30			KD50	CROSBY	ND (US)
IAP	ILS OR LOC RWY 29		1	KISN	WILLISTON	ND (US)
IAP	NDB RWY 29			KISN	WILLISTON	ND (US)
IAP	RNAV (GPS) RWY 11			KISN	WILLISTON	ND (US)
IAP	VOR RWY 11		1	KISN	WILLISTON	ND (US)
IAP	VOR/DME RWY 29		1	KISN	WILLISTON	ND (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8 **DATE OF REVISION:** 07/29/2010

REASON FOR REVISION:
UPDATED FIX USE DATA AND FORMAT.
UNPLANNED HOLDING REVISED NEW AAO OBST FROM 2645 MSL TO 2691 MSL.
UPDATED PAT 1 OBST NEW ID NUMBER.

DEVELOPED BY: **DATE:** 12/08/2009 **OFFICE:** AVN-120 **NAME:** NEIL SIMPANEN

APPROVED BY: **DATE:** 04/16/2010 **OFFICE:** AVN-120 **NAME:** SUE CRUMB

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: CEN
ARTCC: ZLC
ATC FACILITY:

QUALITY CHECKED 2

OTHER:

QUALITY 2 CHECKED

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **PLENTYWOOD** STATE: **MT**

AIRPORT NAME: **SHER - WOOD** ID: **KPWD**

PROCEDURE: **RNAV (GPS) RWY 30** AMDT: **ORIG**

DOCKET # :
(96-AXX-X/Required/Not Required)

ALL DIST TO 1/100 NM; ELEV TO NEAREST FT; COORD TO 1/100 SEC; DEG TO 1/100 DG.

1. Distance from **THLD** to 1000' point **3.23**
   (Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **FINAL** segment at 1000' point **1.20**
   (Enter appropriate segment , final, intermediate, etc.)
3. True Course of **FINAL** segment containing 1000' point **312.2**
4. High Terrain in **FINAL** segment containing 1000' point **2309**
5. Distance from **THLD** to 1500' point **4.91**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **FINAL** segment at 1500' point **1.95**
7. True Course of **FINAL** segment containing 1500' point **312.2**
8. High Terrain in **FINAL** segment containing 1500' point **2309**
9. Threshold Coordinates (if straight-in) ... **484706.95N** / **1043104.74W**
10. ARP Coordinates ..... **484720.40N** / **1043122.70W**
11. Runway Approach End and distance furthest from ARP.....RWY **34**
    Distance **.53** NM
12. FAF Coordinates ..... **484341.20N** / **1042521.14W**
    (Click to Select)

REMARKS: Approach/Drawing attached.