Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: IAP	Date Open: 04/09/2012	Task #: 2008062313868414011	Request #: 20080623138684
Procedure: RNAV (GPS) RWY 13 ORIG		Airport ID: K9D1	Airport: GREGORY MUNI, FLYNN FIELD		Reimbursable #:
City: GREGORY	ST: SD	GPS #:		Estimated Chart Date: 09/20/2012	FICO #:
Fac ID:	Fac. Type: LNAV	Specialist: JEFF RAWDON(Contractor)			

Procedure Review

P2

	Rec'd	Rel'd	Full Name	Comments
Lead:	03/21/2012	05/23/2012	JEFF RAWDON	
QA:	05/23/2012	05/24/2012	STEVEN SZUKALA	
Liaison:	05/24/2012		Alfonso	

Procedure Comments:

Remark Type: INFORMATION

pg 1 of 2

GREGORY, SD GREGORY MUNI, FLYNN FIELD (K9D1) RNAV (GPS) RWY 13, ORIG (LNAV) ENROUTE-NO FC: 8.7.12 PUB: 9.20.12

ATTACHED FORMS: 8260-3; 8260-10; 8260-9; 8260-2(S): HAIRY, ORIG; LKOTA, REV 1; VECLU, ORIG; ZAMSU, ORIG; (INFO ONLY) WINNER (ISD) VOR, REV 8.

CONTACT: JILL OLSON, AJV-353 LEAD, 405.954.9568:

APP CRS	Rwy ldg	3799
127°	THRE	2170
	Apt Elev	2175

RNAV (GPS) RWY 13

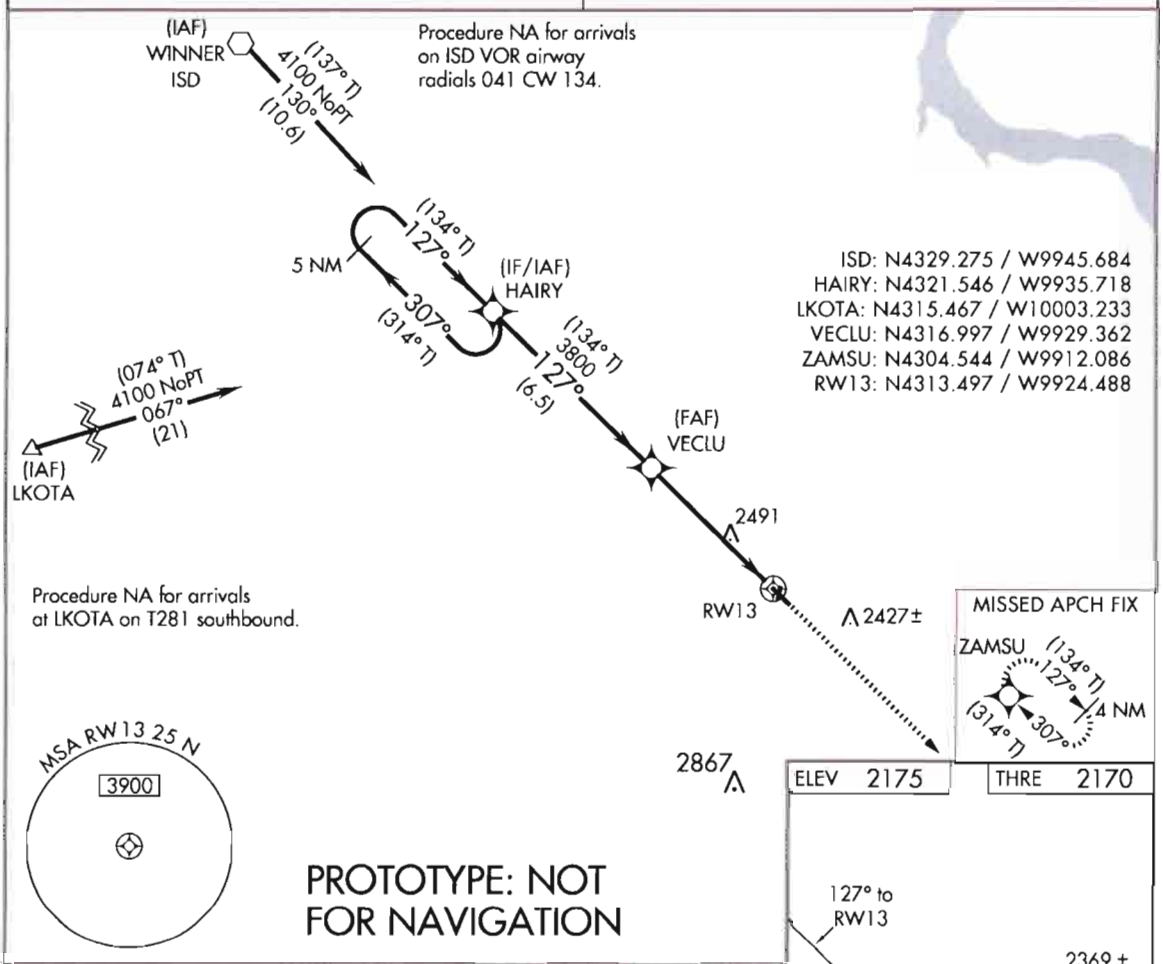
GREGORY MUNI, FLYNN FIELD (9D1)

Circling to Rwy 18/36 NA at night. When VGSI inop, Straight-in/Circling Rwy 13 procedure NA at night. DME/DME RNP-0.3 NA. Use Winner altimeter setting; when not received, use Ainsworth altimeter setting and increase all MDA 100 feet and increase LNAV Cat B visibility ¼ mile and Cat D visibility ⅛ mile and increase Circling Cat B visibility ¼ mile and Cat C visibility ⅜ mile.

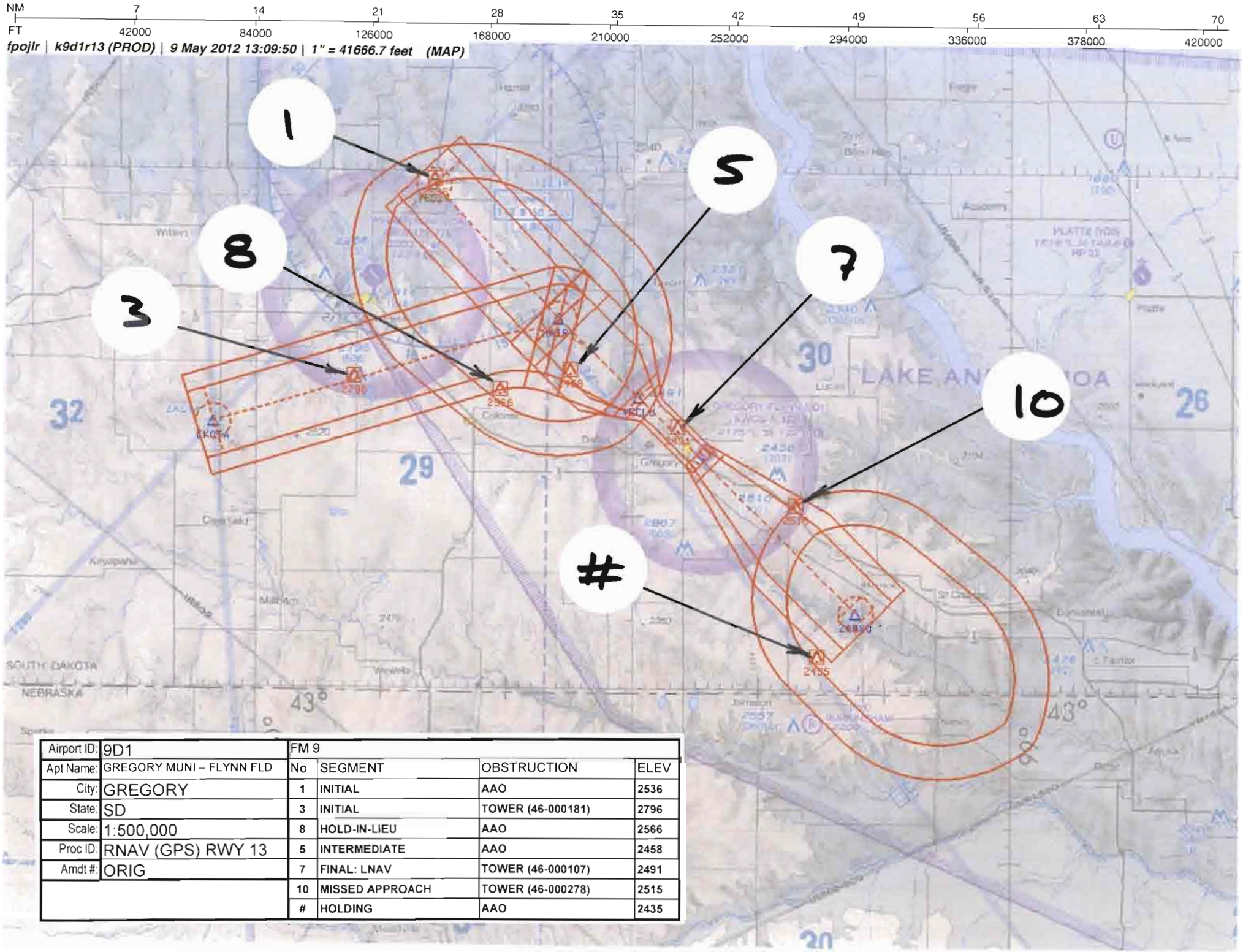
NA

MISSED APPROACH: Climb to 4000 direct ZAMSU and hold.

HURON RADIO	UNICOM
122.1R	122.8 (CTAF) L



CATEGORY	A	B	C	D
LNAV MDA	2820-1 650 (700-1)		2820-1⅞ 650 (700-1⅞)	NA
CIRCLING	2820-1 645 (700-1)		2820-1⅞ 645 (700-1⅞)	NA

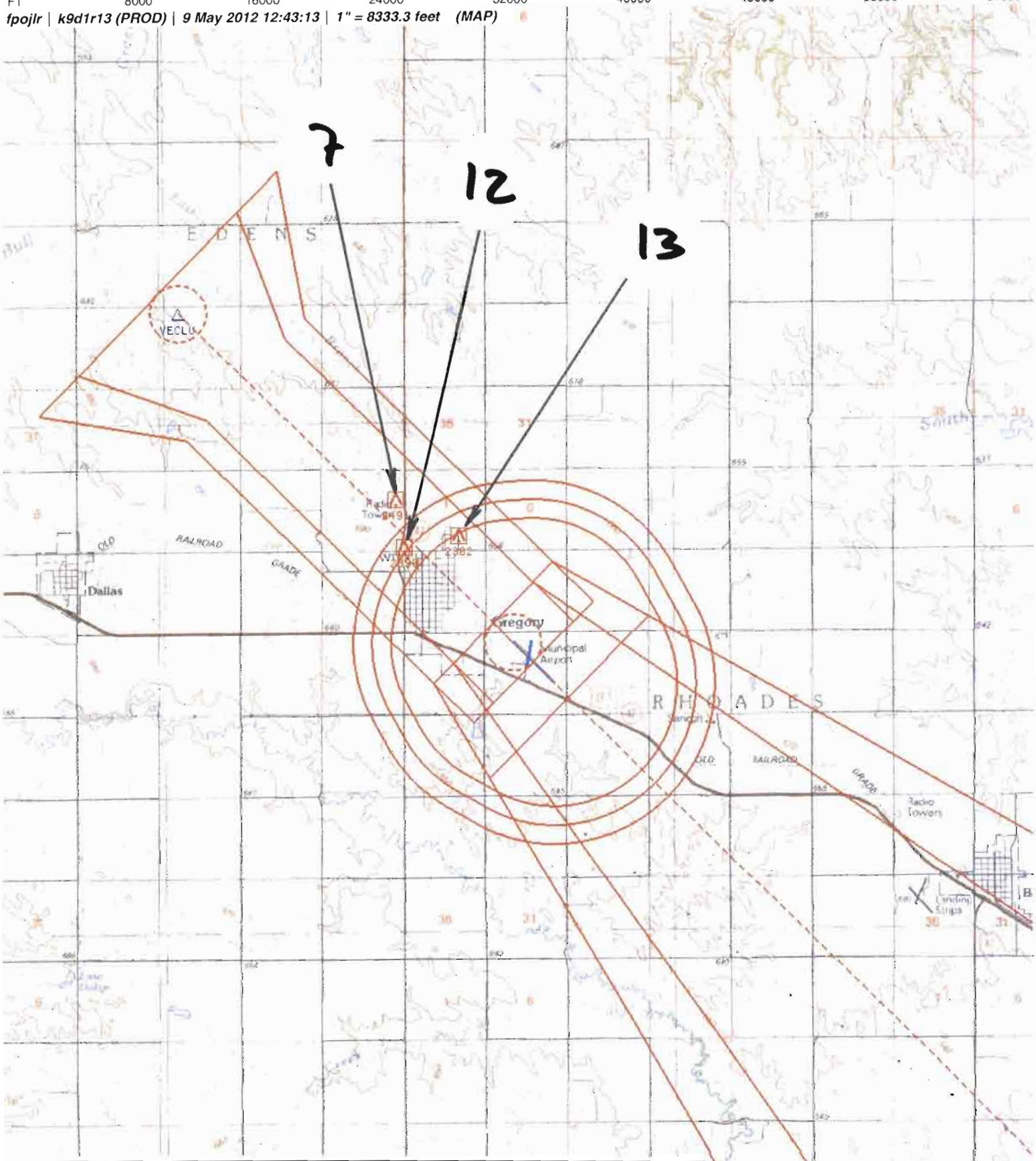


Airport ID:	9D1	FM 9			
Apt Name:	GREGORY MUNI – FLYNN FLD	No	SEGMENT	OBSTRUCTION	ELEV
City:	GREGORY	1	INITIAL	AAO	2536
State:	SD	3	INITIAL	TOWER (46-000181)	2796
Scale:	1:500,000	8	HOLD-IN-LIEU	AAO	2566
Proc ID:	RNAV (GPS) RWY 13	5	INTERMEDIATE	AAO	2458
Amdt #:	ORIG	7	FINAL: LNAV	TOWER (46-000107)	2491
		10	MISSED APPROACH	TOWER (46-000278)	2515
		#	HOLDING	AAO	2435

NM 1 2 3 4 5 6 7 8 9 10

FT 8000 16000 24000 32000 40000 48000 56000 64000

fpojlr | k9d1r13 (PROD) | 9 May 2012 12:43:13 | 1" = 8333.3 feet (MAP)



Airport ID:	9D1	FM 9			
Apt Name:	GREGORY MUNI – FLYNN FLD	No	SEGMENT	OBSTRUCTION	ELEV
City:	GREGORY	7	FINAL: LNAV	TOWER (46-000107)	2491
State:	SD	12	CIRCLING A	TOWER (K9D1T0201)	2302
Scale:	1:100,000	13	CIRCLING B/C	TOWER (46-000686)	2390
Proc ID:	RNAV (GPS) RWY 13				
Amdt #:	ORIG				

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
ISD VOR (IAF)	HAIRY (NOPT) (FB)	129.72 / 10.61	4100
LKOTA (IAF)	HAIRY (NOPT) (FB)	066.01 / 20.99	4100
HAIRY (IF/IAF)	VECLU (FB)	127.39 / 6.50	3800
VECLU (FAF)	RW13 (MAP) (FO)	127.46 / 4.99	
RW13 (MAP)	2575 MSL	127.46	
2575 MSL	ZAMSU (FO)		4000

MISSED APPROACH

LNAV: RW13

CLIMB TO 4000 DIRECT ZAMSU AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD SE, RT, 307.67 INBOUND.
CHART FAS OBST: 2491 TOWER 431456N/0992612W
VECLU TO RW13: 3.00/40.
CHART WINNER ASOS

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. HOLD NW HAIRY, RT, 127.39 INBOUND, 4100 FT. IN LIEU OF PT (IAF)
3. FAC: 127.46 FAF: VECLU DIST FAF TO MAP: 4.99 THLD: 4.99
4. MIN. ALT: HAIRY 4100, VECLU 3800
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: RW13 3900

MAG VAR: 7E EPOCH YEAR: 2000

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
LNAV MDA	2820	1	650	2820	1	650	2820	1 7/8	650		NA				
CIRCLING	2820	1	645	2820	1	645	2820	1 7/8	645		NA				

NOTES:
CHART NOTE: CIRCLING TO RWY 18/36 NA AT NIGHT.
CHART NOTE: WHEN VGSI INOP, STRAIGHT-IN/CIRCLING RWY 13 PROCEDURE NA AT NIGHT.
CHART NOTE: DME/DME RNP-0.3 NA.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT LKOTA ON T281 SOUTHBOUND.
(SEE FORM 8260-10)

QUALITY 4 CHECKED

CITY AND STATE	ELEVATION: 2175 THRE: 2170	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
GREGORY, SD	AIRPORT NAME: GREGORY MUNI - FLYNN FLD	RNAV	RNAV (GPS) RWY 13, 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] **ZMP, ARPT MGR**

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME: **JILL OLSON (JEFF L. RAWDON)**	FIFO **AJV-353**	DATE: **05/08/2012**
APPROVED BY		
NAME: **LARRY H STROUT** **MANAGER**	FIFO **AJV-353**	DATE:

CHANGES:

ORIGINAL PROCEDURE

REASONS:

QUALITY A CHECKED

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NOTES, (CONT.):
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON ISD VOR AIRWAY RADIALS 041 CW 134.
CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT.
CHART NOTE: USE WINNER ALTIMETER SETTING; WHEN NOT RECEIVED, USE AINSWORTH ALTIMETER SETTING AND INCREASE ALL MDA 100 FEET AND INCREASE LNAV CAT B VISIBILITY 1/4 MILE AND CAT D VISIBILITY 1/8 MILE, AND INCREASE CIRCLING CAT B VISIBILITY 1/4 MILE AND CAT C VISIBILITY 3/8 MILE.

QUALITY A CHECKED

CITY AND STATE	ELEVATION: 2175 THRE: 2170	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
GREGORY, SD	AIRPORT NAME: GREGORY MUNI - FLYNN FLD	RNAV	RNAV (GPS) RWY 13, 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:

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        ISD   K3011280V L  N43291649W099454101                        E0080     1     NARWINNER

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   HAIRY K30    W     N43213273W099354305                        E0056     NAR           HAIRY
        SUSAEAENRT   LKOTA K30    W   L N43152800W100031400                        E0060     NAR           LKOTA
        SUSAEAENRT   VECLU K30    W     N43165981W099292171                        E0056     NAR           VECLU
        SUSAEAENRT   ZAMSU K30    W     N43043261W099120514                        E0054     NAR           ZAMSU

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP 9D1 K3A9D1     0     037YHN43131841W099241232E007002175         1800018000C    MNAR    GREGORY MUNI - FLYNN FLD

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP 9D1 K3FR13   AHAIRY 010HAIRYK3EA0EE AR   HF                    12740050    + 04100     18000                B JS
        SUSAP 9D1 K3FR13   AISD   010ISD  K3D 0V  A    IF                                            18000                B JS
        SUSAP 9D1 K3FR13   AISD   020HAIRYK3EA0EE B 010TF                    12970106    + 04100                          B JS
        SUSAP 9D1 K3FR13   ALKOTA 010LKOTAK3EA0E  A    IF                                            18000                B JS
        SUSAP 9D1 K3FR13   ALKOTA 020HAIRYK3EA0EE B 010TF                    06600210    + 04100                          B JS
        SUSAP 9D1 K3FR13   R      010HAIRYK3EA0E  I    IF                                + 04100     18000                B JS
        SUSAP 9D1 K3FR13   R      020VECLUK3EA1E  F 051TF                    12740065    + 03800                 RW13  K3PGB JS
        SUSAP 9D1 K3FR13   R      020VECLUK3EA2WN          N          ALNAV                                                JS
        SUSAP 9D1 K3FR13   R      030RW13 K3PG0GY M 031TF                    12750050      02210             -300          B JS
        SUSAP 9D1 K3FR13   R      040         0  M     CA                    1275        + 02575                          B JS
        SUSAP 9D1 K3FR13   R      050ZAMSUK3EA0EY      DF                                + 04000                          B JS
        SUSAP 9D1 K3FR13   R      060ZAMSUK3EA0EE  R   HM                    30770040    + 04000                          B JS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP 9D1 K3GRW13    0037991275 N43132981W099242926-0300    +0635702170000040060R

                 1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP 9D1 K3SRW13 K3PG                0   18018003925                                                                  M
```

QUALITY CHECKED

CITY AND STATE	ELEVATION: **2175** **THRE: 2170**	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
GREGORY, SD	AIRPORT NAME: **GREGORY MUNI - FLYNN FLD**	**RNAV**	**RNAV (GPS) RWY 13, 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
	HAIRY	HAIRY	010	IAF	HF	R	FO		127.4(134.4T)	005.0	AA 04100	
	ISD	ISD	010	IAF	IF		FB					
	ISD	HAIRY	020		TF		FB	1.0	129.7(136.7T)	010.6	AA 04100	
	LKOTA	LKOTA	010	IAF	IF		FB					
	LKOTA	HAIRY	020		TF		FB	1.0	066.0(073.0T)	021.0	AA 04100	
		HAIRY	010	FACF	IF		FB				AA 04100	
		VECLU	020	FAF	TF		FB	0.5	127.4(134.4T)	006.5	AA 03800	
		RW13	030	MAP	TF		FO	0.3	127.5(134.5T)	005.0	AT 02210	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		127.5(134.5T)		AA 02575	
	ZAMSU	050		DF		FO				AA 04000	
	ZAMSU	060		HM	R	FO		307.7(314.7T)	004.0	AA 04000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	ISD	N432916.49	W0994541.01	N4329.275	W09945.684
	HAIRY	N432132.73	W0993543.05	N4321.546	W09935.718
	LKOTA	N431528.00	W1000314.00	N4315.467	W10003.233
	VECLU	N431659.81	W0992921.71	N4316.997	W09929.362
	ZAMSU	N430432.61	W0991205.14	N4304.544	W09912.086
	RW13	N431329.81	W0992429.26	N4313.497	W09924.488

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW13	02170	40

QUALITY CHECKED

CITY AND STATE	ELEVATION: **2175** THRE: **2170**	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
GREGORY, SD	AIRPORT NAME: **GREGORY MUNI - FLYNN FLD**	**RNAV**	**RNAV (GPS) RWY 13, 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	ISD VOR	HAIRY	1. AAO	432915.90N/0994536.00W	2536 (6C)	1000	AT564	4100
			2. TERRAIN	432915.90N/0994536.00W	2336 (2300)		AS1500	3800
INITIAL	LKOTA	HAIRY	3. TOWER (46-000181)	431746.00N/0995203.00W	2796 (4D)	1000	AT204	4000
			4. TERRAIN	431700.00N/1000339.00W	2583 (2600)		AS1500	4100
INTERMEDIATE	HAIRY (IF/IAF)	VECLU	5. AAO	431812.00N/0993445.00W	2458 (4E)	500	AC98	3100
			6. TERRAIN	431812.00N/0993445.00W	2258 (2300)		AS1500	3800
FINAL: LNAV	VECLU	RW13	7. TOWER (46-000107)	431456.00N/0992612.00W	2491 (2C)	250	RA70	2820
2. HOLD-IN-LIEU-OF-PT	HAIRY	P-6	8. AAO	431703.00N/0994021.00W	2566 (4E)	1000	AT534	4100
			9. TERRAIN	431715.00N/0994106.00W	2366 (2400)		AS1500	3900
3. MISSED APPROACH — MAP:	RW13	ZAMSU				ASC		4000
			10. TOWER (46-000278)	431020.77N/0991652.29W	2515 (5D)	1000		3600
ELEV:	2650		11. TERRAIN	431245.00N/0992133.00W	2300 (2300)		AS1500	3800
			12. TWR (K9D1T0201)	431432.53N/0992516.85W	2302 (1A)	300	SI	~~2820~~
			13. TOWER (46-000686)	431425.75N/0992604.39W	2390 (2B)	300	SI	2820
			13. TOWER (46-000686)	431425.75N/0992604.39W	2390 (2B)	300	SI	2820

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL	
CATEGORY A	1.3 NM	350	645	
CATEGORY B	1.5 NM	450	645	
CATEGORY C	1.7 NM	450	645	
CATEGORY D	2.3 NM	550		
CATEGORY E	4.5 NM	550		

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: RW13

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	TWR (46-000225)	184/ 05.9	2867 (5D)	3900					

CITY AND STATE	ELEVATION: 2175 / AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
GREGORY, SD	GREGORY MUNI - FLYNN FLD	RNAV	RNAV (GPS) RWY 13, ORIG	AGL

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE	3. ALTIMETER SETTING
ZMP ARTCC HON FSS	[ ] N W S [ ] F A A [ ] A / C OTHER: ASOS	SOURCE: KICR / KANW DISTANCE: 21.72 / 46.49 HOURS REMOTE OPERATION: 24 / BACKUP
SATISFACTORY ON:		
[X] V H F [X] U H F [ ] H F	LOCATION: KICR	ADJUSTMENT: 70 / 165

4. MONITOR STATUS	PRIMARY NAVAID:	
	MONITOR POINT:	
	HRS OPTN:	CAT 1
		CAT 3
5. APPROACH & RUNWAY LIGHTING		ALS
		(S) SALS
		MALS
		HIRL
	X	MIRL 31 (PCL), 13 (PCL)
		REIL
		TDZ
		C/LINE
	X	OTHER (SPECIFY) PAPI-2L 31 (PCL), 13 (PCL)
6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	
	INSTRUMENT	NPI-G 31, 13
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	X	RUNWAY THRESHOLD — FT. FROM THRESHOLD
	X	ON CENTERLINE — FT. FROM CENTERLINE

10. WAIVERS: NONE

PART D - PREPARED BY: JILL OLSON (JEFF L. RAWDON)	DATE: 05/08/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-353

PART C - REMARKS:

VDP NOT ESTABLISHED - OBSTACLES PENETRATE VISUAL SURFACES.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

RASS PRESSURE PATTERNS SAME
K9D1 2174.5, KICR 2032.5, KANW 2588.6
RA = 69.84, RA=164.91.
SEE ATTACHED AIRSPACE LETTER.

SERVICE A: KICR: YES / KANW: YES

VGSI DATA: 3.00/30.7

VEGETATION HEIGHT 60' PER FPT.

TAA NOT DEVELOPED PER FPT.

LPV AND LNAV/VNAV NOT DEVELOPED DUE TO GQS PENETRATIONS.

FAS OBSTRUCTION WILL NOT ALLOW LOWER LP MINIMA.

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

20:1
R13:
2200 TREE (K9D1T0155) 431330.56N-0992438.14W (14.21)
2221 TREE (K9D1T0175) 431338.61N-0992436.51W (10.95)
2214 TREE (K9D1T0167) 431338.11N-0992434.56W (10.87)
2210 TREE (K9D1T0164) 431338.31N-0992433.19W (9.77)
2216 TREE (K9D1T0177) 431338.18N-0992437.38W (5.18)
2210 TREE (K9D1T0173) 431337.42N-0992436.68W (3.72)
2186 RD(N) (K9D1T0154) 431336.50N-0992430.06W (0.45)
R18:
2200 RD(N) (K9D1T0129) 431336.53N-0992412.08W (5.77)
R36:
2171 RD(N) (K9D1T0077) 431311.45N-0992420.476W (11.97)

34:1
2245 TREE (K9D1T0199) 431344.65N-0992454.20W (11.50)
2207 TREE (K9D1T0178) 43134.023N-0992436.03W (10.93)
2207 TREE (K9D1T0179) 431337.75N-0992439.46W (10.78)
2207 TREE (K9D1T0180) 431337.77N-0992439.54W (10.61)
2208 TREE (K9D1T0184) 431341.48N-0992435.57W (10.03)
2200 BLDG (K9D1T0170) 431337.78N-0992435.95W (9.69)
2207 TREE (K9D1T0182) 431337.39N-0992440.57W (9.66)
2200 BLDG (K9D1T0170) 431337.78N-0992435.93W (9.20)
2199 BLDG (K9D1T0168) 431337.39N-0992435.98W (8.93)
2192 RD(N) (K9D1T0158) 431336.49N-0992433.74W (7.29)
2192 RD(N) (K9D1T0159) 431336.50N-0992433.85W (7.10)
2209 TREE (K9D1T0193) 431335.88N-0992445.90W (6.69)
2190 BLDG (K9D1T0157) 431337.27N-0992431.79W (6.69)
2192 RD(N) (K9D1T0160) 431336.51N-0992434.11N (6.67)
2192 RD(N) (K9D1T0161) 431336.50N-0992434.46W (6.15)
2192 RD(N) (K9D1T0162) 431336.50N-0992434.93W (5.42)
2192 RD(N) (K9D1T0163) 431336.85N-0992434.78W (4.92)
2207 TREE (K9D1T0191) 431335.11N-0992446.83W (4.85)
2196 TREE (K9D1T0172) 431339.44N-0992433.94W (4.82)
2201 TREE (K9D1T0181) 431339.40N-0992437.64W (4.16)
2190 RD(N) (K9D1T0165) 431336.48N-0992436.09W (1.66)
2199 TREE (K9D1T0186) 431339.21N-0992438.77W (0.80)
2228 TREE (K9D1T0197) 431341.15N-0992455.19W (0.27)

FPO NOTIFIED OF 20:1 SURFACE PENETRATIONS.

QUALITY 4 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: HAIRY **STATE:** SD **COUNTRY:** US

LATITUDE/LONGITUDE: 432132.73N/0993543.05W **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	NW		WP	307.39	127.39	R		5	4100	6000	6	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	431703.00N/0994021.00W	2566	4E

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS(RWY 13		1	K9D1	GREGORY	SD (US)
IAP	RNAV (GPS) RWY 31		1	K9D1	GREGORY	SD (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 05/03/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (STEVEN LEGRAND)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZMP
ATC FACILITY: ARPT MGR
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: LKOTA **STATE:** SD **COUNTRY:** US

LATITUDE/LONGITUDE: 431528.00N/1000314.00W **TYPE:** WP

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

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	T281					(US)
EN ROUTE	T285					(US)
IAP	RNAV (GPS) RWY 13			K9D1	GREGORY	SD (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

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

REASON FOR REVISION:
ADDED IAP AND CONTROLLER REQUIRED CHART PUBLICATIONS.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 05/09/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (JEFF RAWDON)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: CEN
ARTCC: ZMA
ATC FACILITY:
OTHER:

QUALITY 4 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: VECLU **STATE:** SD **COUNTRY:** US

LATITUDE/LONGITUDE: 431659.81N/0992921.71W **TYPE:** WP

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

REMARKS:
8260.54A FORMULA 2-16B USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 13			K9D1	GREGORY	SD (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 05/09/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (JEFF RAWDON)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZMP
ATC FACILITY:
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: ZAMSU **STATE:** SD **COUNTRY:** US

LATITUDE/LONGITUDE: 430432.61N/0991205.14W **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	127.67	307.67	R		4	4000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	430136.00N/0991509.00W	2435	4E

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 13		1	K9D1	GREGORY	SD (US)
IAP	RNAV (GPS) RWY 31		1	K9D1	GREGORY	SD (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 05/08/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (JEFF RAWDON)

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: CEN
ARTCC: ZMP
ATC FACILITY:
OTHER:

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: WINNER VOR **STATE:** SD **COUNTRY:** US

LATITUDE/LONGITUDE: 432916.49N/0994541.01W **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	WINNER	ISD	VOR	L							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	NE	ISD	VOR	023.21	203.21	R	1		4100	10000	5	9

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	AAO	432915.90N/0994536.00W	2536	2C
1	200	AAO	432915.90N/0994536.00W	2536	2C

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 4100.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	T285					(US)
EN ROUTE	V71					(US)
IAP	RNAV (GPS) RWY 13			KANW	AINSWORTH	NE (US)
IAP	RNAV (GPS) RWY 17			KANW	AINSWORTH	NE (US)
IAP	RNAV (GPS) RWY 31			KANW	AINSWORTH	NE (US)
IAP	RNAV (GPS) RWY 13			KRBE	BASSETT	NE (US)
IAP	RNAV (GPS) RWY 31			K9V9	CHAMBERLAIN	SD (US)
IAP	RNAV (GPS) RWY 13			K9D1	GREGORY	SD (US)
IAP	VOR-A		1	KICR	WINNER	SD (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8 **DATE OF REVISION:** 04/08/2010

REASON FOR REVISION:
REMARKS: ADDED PRECIPITOUS TERRAIN EVALUATION COMPLETED REMARK.
FIX USE: UPDATED.

DEVELOPED BY: **DATE:** 10/21/2009 **OFFICE:** AVN-101 **NAME:** EUGENE NEWTON (WENDY DONCASTER)

APPROVED BY: **DATE:** 01/25/2010 **OFFICE:** AVN-120 **NAME:** SUE CRUMB

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZMP
ATC FACILITY:
OTHER:

QUALITY 4 CHECKED

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **GREGORY** STATE: **SD**

AIRPORT NAME: **GREGORY MUNI - FLYNN FLD** ID: **9D1**

PROCEDURE: **RNAV (GPS) RWY 13** 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 **3.32**
   (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 **134.46**
4. High Terrain in **FINAL** segment containing 1000' point **2333**
5. Distance from **THLD** to 1500' point **4.99**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **FINAL** segment at 1500' point **2.13**
7. True Course of **FINAL** segment containing 1500' point **134.46**
8. High Terrain in **FINAL** segment containing 1500' point **2333**
9. Threshold Coordinates (if straight-in) ... **431329.81N** / **0992429.26W**
10. ARP Coordinates ..... **431318.41N** / **0992412.32W**
11. Runway Approach End and distance furthest from ARP.....RWY **31**
    Distance **0.34** NM
12. FAF Coordinates ..... **431659.81N** / **0992921.71W**
    (Click to Select)

REMARKS: Approach/Drawing attached.