Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: IAP	Date Open: 10/31/2012	Task #: 2012103129473401002	Request #: 20121031294734
Procedure: RNAV (GPS) RWY 31 AMDT 1		Airport ID: KRYM	Airport: RAY S MILLER AAF		Reimbursable #:
City: CAMP RIPLEY	ST: MN	GPS #:		Estimated Chart Date: 05/02/2013	FICO #:
Fac ID:	Fac. Type: LNAV	Specialist: RAKE MCGRAW			

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:		02/01/2013	RAKE MCGRAW	
QA:	02/01/2013	02/04/2013	CASIMIR TABAKA	
Liaison:	02/04/2013		Spurlin	ARMY PROCEDURE

Procedure Comments: ENROUTE-NON **Remark Type:** INFORMATION

Aug 2.83

CAMP RIPLEY, MN RAY S MILLER AAF (KRYM) RNAV (GPS) RWY 31, AMDT 1 (LNAV) ENROUTE-NO FC: 5.14.13 PUB: 6.27.13

ATTACHED FORMS: 8260-11; 8260-20; 8260-9; 8260-2(S): CUPLO, REV 2; DAYLE-INT, REV 7; GITTI-INT, REV 3; INONY-INT, REV 3; JOPKA, ORIG; PEGGO, REV 4; URHIL, REV 4.

CONTACT: DON SMITH/MARLON ROBINSON-AJV-352 LEADS, 405.954.1036 / 405.954.3636.

APP CRS	Rwy ldg	6100
312°	THRE	1146
	Apt Elev	1152

NEW

RNAV (GPS) RWY 31

CAMP RIPLEY/RAY S. MILLER AAF (RYM)

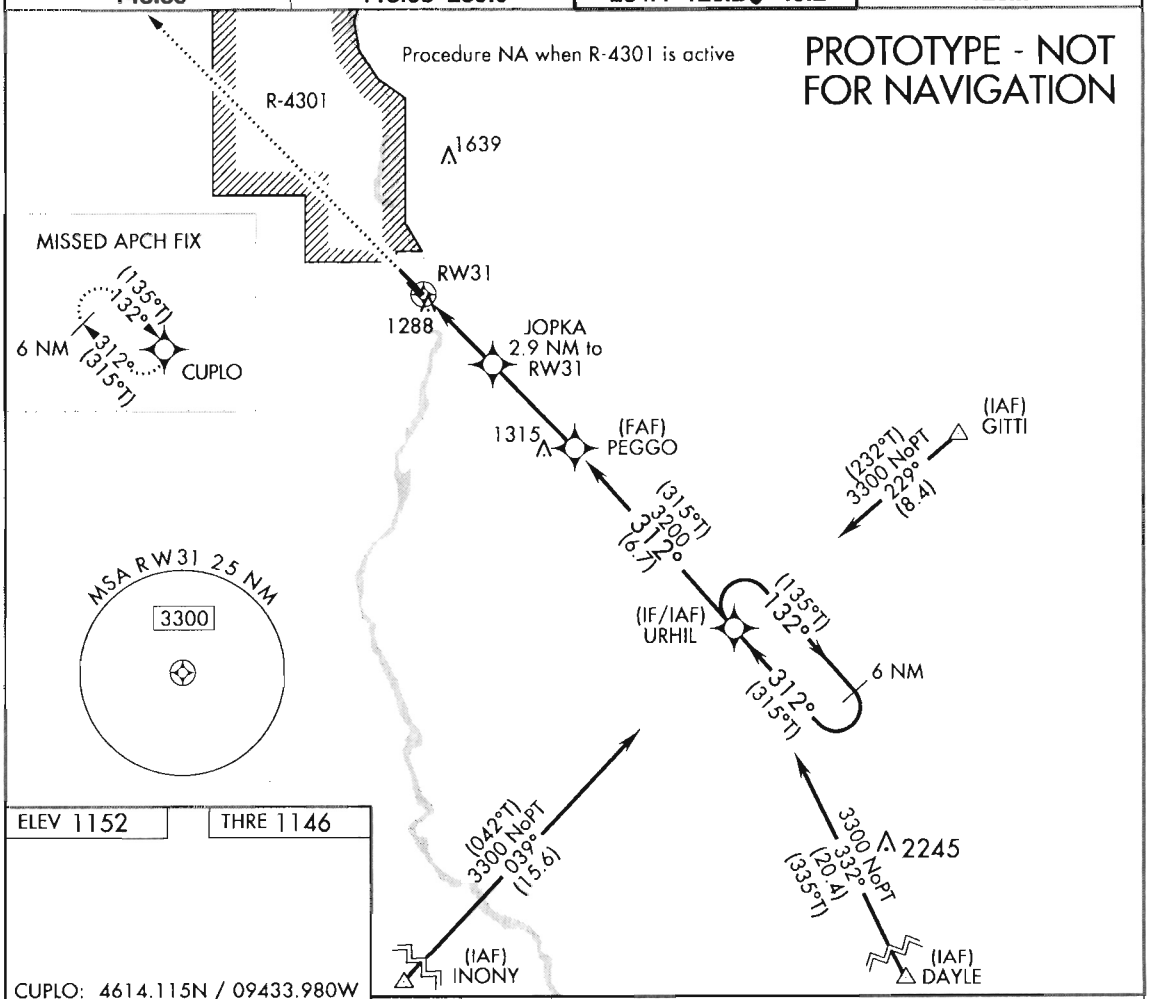
WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LITTLE FALLS ALTIMETER SETTING AND INCREASE ALL MDAS 40 FEET. INCREASE LNAV CATS C AND D VISIBILITY 1/8 MILE. INCREASE CIRCLING CAT C VISIBILITY 1/4 MILE. FOR INOPERATIVE MALSF, INCREASE LNAV CAT D VISIBILITY TO 1 1/4 MILE. FOR INOPERATIVE MALSF WHEN USING LITTLE FALLS ALTIMETER SETTING, INCREASE LNAV CAT D VISIBILITY TO 1 1/4 MILE. DME/DME RNP-0.3 NA. VDP NA WITH LITTLE FALLS ALTIMETER SETTING.

NA

MALSF

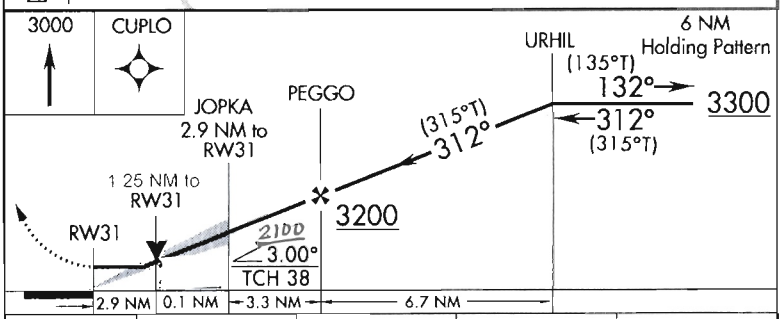
MISSED APPROACH: Climb to 3000 direct CUPLO and hold.

AWOS-3	MINNEAPOLIS CENTER	MILLER TOWER	CLNC DEL
148.35	118.05 239.0	254.4 126.2 (L) 49.2	126.2



ELEV 1152 THRE 1146

CUPLO: 4614.115N / 09433.980W
DAYLE: 4537.413N / 09355.570W
GITTI: 4601.011N / 09358.561W
INONY: 4544.318N / 09422.973W
JOPKA: 4603.055N / 09418.196W
PEGGO: 4600.613N / 09414.733W
URHIL: 4555.867N / 09408.022W
RW31: 4605.116N / 09421.125W



CATEGORY	A	B	C	D
LNAV MDA	1580-¾ 434 (500-¾)		1580-1 434 (500-1)	
C CIRCLING	1640-1 488 (500-1)		1720-1½ 568 (600-1½)	2080-3 928 (1000-3)

MIRL Rwy 13-31 (L)

Federal Aviation Administration

Memorandum

Date: MAY 01 2013

To: Mike Foster
HQ USAASA, ATAS-AI
9325 Gunston, Suite N 319
Fort Belvoir, VA 22060-5582

From: for Susan LW Crumb, Manager, Eastern Products Team AJV-352
Subject: **ACTION:** Transmittal of Data

The attached Army Form(s) for Ray S Miller AAF, Camp Ripley, MN (KRYM) are forwarded for further processing.

8260-11 RNAV (GPS) RWY 13, AMDT 1
RNAV (GPS) RWY 31, AMDT 1

8260-13 NDB RWY 31, AMDT 2A

The attached FAA Form(s) have been forwarded to NFDC.

8260-2 ALEXANDRIA VOR/DME, MN REV 15
BRAINERD VORTAC, MN REV 17
CUPLO, MN REV 2
DAYLE, MN REV 7
EGOLE, MN ORIG
GITTI, MN REV 3
INONY, MN REV 3
JOPKA, MN ORIG
MARXY, MN REV 2
PEGGO, MN REV 4
URHIL, MN REV 4

If unable to accommodate, please notify John Bickerstaff as soon as possible.
Attachment

UNITED STATES ARMY
RNAV STANDARD INSTRUMENT APPROACH PROCEDURE

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
INONY (IAF)	URHIL (NOPT) (FB)	039.05 / 15.58	3300
GITTI (IAF)	URHIL (NOPT) (FB)	229.11 / 8.37	3300
DAYLE (IAF)	URHIL (NOPT) (FB)	331.80 / 20.41	3300
URHIL (IF/IAF)	PEGGO (FB)	312.45 / 6.67	3200
PEGGO (FAF)	JOPKA/2.90 NM TO RW31	312.37 / 3.43	
JOPKA/2.90 NM TO RW31	RW31 (MAP) (FO)	312.37 / 2.90	
RW31 (MAP)	1552 MSL	312.37	
1552 MSL	CUPLO (FO)		3000

MISSED APPROACH

LNAV: RW31

CLIMB TO 3000 DIRECT CUPLO AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD NW, RT, 132.14 INBOUND.
CHART FAS OBST: 1288 WTR1 460439N/0942055W
CHART R-4301.
CHART VDP AT 1.25 MILES TO RW31.
PEGGO TO RW31: 3.00/38.
CHART CIRCLING ICON.

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILE S OF ____ (IAF)
2. HOLD SE URHIL, RT, 312.45 INBOUND, 3300 FT. IN LIEU OF PT (IAF)
3. FAC: 312.37 FAF: PEGGO DIST FAF TO MAP: 6.33 THLD: 6.33
4. MIN. ALT: URHIL 3300, PEGGO 3200, JOPKA/2.90 NM TO RW31 2100
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 CLEAR
8. MSA FROM: RW31 3300

MAG VAR: 3E EPOCH YEAR: 1995

MINIMUMS

TAKEOFF: | | STANDARD | X | SEE FAA FORM 8260-21 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	1580	3/4	434	1580	3/4	434	1580	1	434	1580	1	434			
CIRCLING	1640	1	488	1640	1	488	1720	1 1/2	568	2080	3	928			

NOTES:
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LITTLE FALLS ALTIMETER SETTING AND INCREASE ALL MDAS 40 FEET, INCREASE LNAV CATS C AND D VISIBILITY 1/8 MILE, INCREASE CIRCLING CAT C VISIBILITY 1/4 MILE.
CHART NOTE: FOR INOPERATIVE MALSF, INCREASE LNAV CAT D VISIBILITY TO 1/4 MILE.
(SEE FORM 8260-20)

QUALITY 4 CHECKED

CITY AND STATE	ELEVATION: 1152 THRE: 1146	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
CAMP RIPLEY, MN	AIRPORT NAME: RAY S MILLER AAF	RNAV	RNAV (GPS) RWY 31, AMDT 1	AMDT: ORIG
				DATED 06/05/2008

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

FLIGHT CHECKED BY		
NAME: for William R. Geiser	FIFO	DATE: 4/3/13

DEVELOPED BY		
NAME: for RAKE MCGRAW	FIFO AJV-352	DATE: 12/17/2012

APPROVED BY		
NAME:	UNIT	DATE:

CHANGES:

RECOMMENDED BY: for SUSAN CRUMB, MANAGER, AJV-352 MAY 01 2013

1. IAF INONY COURSE AND DISTANCE CHANGED FROM 036.60/15.63 TO 039.05/15.58
2. IAF GITTI COURSE AND DISTANCE CHANGED FROM 223.61/8.47 TO 229.11/8.37
3. ADDED IAF DAYLE
4. IF/IAF URHIL COURSE AND DISTANCE CHANGED FROM 312.44/6.10 TO 312.45/6.67
5. ADDED FINAL STEPDOWN JOPKA
6. CHANGED MISSED APPROACH FROM "CLIMBING RIGHT TURN TO 3300 DIRECT URHIL AND HOLD" TO DIRECT TO RWY 13 HIL "CLIMB TO 3000 DIRECT CUPLO AND HOLD.
7. FAF PEGGO MOVED - DISTANCE FAF TO MAP/THLD CHANGED FROM 6.23 TO 6.33
8. LNAV HAT CHANGED TO HATH ALL CATS FROM 431 TO 434.
9. CHANGE LNAV CAT D VISIBILITY FROM 1 1/4 TO 1
10. CHANGED CHART NOTE "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LITTLE FALLS ALTIMETER SETTING AND INCREASE ALL MDAS 40 FEET." TO " WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LITTLE FALLS ALTIMETER SETTING AND INCREASE ALL MDAS 40 FEET, INCREASE LNAV CATS C AND D VISIBILITY 1/8 MILE, INCREASE CIRCLING CAT C VISIBILITY 1/4 MILE."
11. ADDED CHART PLANVIEW NOTE: PROCEDURE NA WHEN R-4301 IS ACTIVE
12. ADDED CHART NOTE: FOR INOPERATIVE MALSF, INCREASE LNAV CAT D VISIBILITY TO 1/4 MILE.
13 ADDED CHART NOTE. FOR INOPERATIVE ALSF WHEN USING LITTLE FALLS ALTIMETER SETTING, INCREASE LNAV CAT D VISIBILITY 1/4 MILE.
14. CHANGED CIRCLING MDA CAT A-B FROM 1620 TO 1640, CAT C FROM 1640 TO 1720, CAT D FROM 1720 TO 2080.
15. CHANGED VDA FROM 3.05 TO 3.00

REASONS:

1, 2, 4, 7. NEW PFAF LOCATION
3. ADDED NEW IAF TO ALLOW APPROACHES FROM SOUTH. TURNS FROM SOUTH WERE MORE THAN 90 DEG
5. STEPDOWN ADDED TO KEEP PREVIOUS MINS
6. USAASA REQUEST
8. CRITERIA UPDATE, USED THRESHOLD ELEVATION INSTEAD OF TDZE TO CALCULATE HATH
9. 8260.3B CHG 23 TABLE 3-5A
10.UPDATED NOTE WITH CAT C/D VISIBILITY INCREASE
11. MATCH OTHER PROCEDURES AT AIRFIELD
12, 13. STANDARD INOP COMPONENT TABLE DOES NOT INCLUDE CAT D FOR MALSF.
14. 8260.3B NEW CIRCLING RADIUS
15. 8260.54A FORMULA 2-16B

QUALITY 4 CHECKED

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NOTES, (CONT.):
CHART NOTE: DME/DME RNP-0.3 NA.
CHART NOTE: VDP NA WITH LITTLE FALLS ALTIMETER SETTING.
CHART PLANVIEW NOTE: PROCEDURE NA WHEN R-4301 IS ACTIVE.
CHART NOTE. FOR INOPERATIVE ALSF WHEN USING LITTLE FALLS ALTIMETER SETTING, INCREASE LNAV CAT D VISIBILITY 1/4 MILE.

QUALITY 4 CHECKED

CITY AND STATE	ELEVATION: 1152 THRE: 1146	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
CAMP RIPLEY, MN	AIRPORT NAME: RAY S MILLER AAF	RNAV	RNAV (GPS) RWY 31, AMDT 1	AMDT: ORIG
				DATED: 06/05/2008

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**

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.

ARINC PACKET - 424-18 - RNAV (GPS)

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   CUPLO K30    W     N46140692W094335877                        E0015     NAR           CUPLO
        SUSAEAENRT   DAYLE K30    C   L N45372475W093553420                        E0010     NAR           DAYLE
        SUSAEAENRT   GITTI K30    C   L N46010068W093583367                        E0010     NAR           GITTI
        SUSAEAENRT   INONY K30    C   L N45441906W094225836                        E0014     NAR           INONY
        SUSAEAENRT   JOPKA K30    W     N46030327W094181173                        E0012     NAR           JOPKA
        SUSAEAENRT   PEGGO K30    W     N46003679W094144396                        E0012     NAR           PEGGO
        SUSAEAENRT   URHIL K30    W     N45555201W094080130                        E0011     NAR           URHIL

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KRYMK3ARYM     0     061YHN46052389W094213547E003001152         1800018000M    MNAR    RAY S MILLER AAF

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KRYMK3FR31   ADAYLE 010DAYLEK3EA0E  A    IF                                                18000                 B JS
        SUSAP KRYMK3FR31   ADAYLE 020URHILK3EA0EE B 010TF                      33180204    + 03300                             B JS
        SUSAP KRYMK3FR31   AGITTI 010GITTIK3EA0E  A    IF                                                18000                 B JS
        SUSAP KRYMK3FR31   AGITTI 020URHILK3EA0EE B 010TF                      22910084    + 03300                             B JS
        SUSAP KRYMK3FR31   AINONY 010INONYK3EA0E  A    IF                                                18000                 B JS
        SUSAP KRYMK3FR31   AINONY 020URHILK3EA0EE B 010TF                      03910156    + 03300                             B JS
        SUSAP KRYMK3FR31   AURHIL 010URHILK3EA0EE AR   HF                      31250060    + 03300     18000                   B JS
        SUSAP KRYMK3FR31   R      010URHILK3EA0E  I    IF                                  + 03300     18000                   B JS
        SUSAP KRYMK3FR31   R      020PEGGOK3EA1E  F 051TF                      31250067    + 03200                 RW31  K3PGB JS
        SUSAP KRYMK3FR31   R      020PEGGOK3EA2WN          N          ALNAV                                                     JS
        SUSAP KRYMK3FR31   R      021JOPKAK3EA0E S  031TF                      31240034    V 0210002108        -300            B JS
        SUSAP KRYMK3FR31   R      030RW31 K3PG0GY M 031TF                      31240029      01184             -300            B JS
        SUSAP KRYMK3FR31   R      040         0  M     CA                      3124        + 01552                             B JS
        SUSAP KRYMK3FR31   R      050CUPLOK3EA0EY      DF                                  + 03000                             B JS
        SUSAP KRYMK3FR31   R      060CUPLOK3EA0EE  R   HM                      13210060    + 03000                             B JS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KRYMK3GRW31    0061003123 N46050693W094210749+0100    +0322501146000038100R

                 1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KRYMK3SRW31 K3PG                0   18018003325                                                                        M
```

QUALITY 4 CHECKED

CITY AND STATE	ELEVATION: 1152 THRE: 1146	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
CAMP RIPLEY, MN	AIRPORT NAME: **RAY S MILLER AAF**	**RNAV**	**RNAV (GPS) RWY 31, AMDT 1**	AMDT: **ORIG**
				DATED: **06/05/2008**

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
	DAYLE	DAYLE	010	IAF	IF		FB					
	DAYLE	URHIL	020		TF		FB	1.0	331.8(334.8T)	020.4	AA 03300	
	GITTI	GITTI	010	IAF	IF		FB					
	GITTI	URHIL	020		TF		FB	1.0	229.1(232.1T)	008.4	AA 03300	
	INONY	INONY	010	IAF	IF		FB					
	INONY	URHIL	020		TF		FB	1.0	039.1(042.1T)	015.6	AA 03300	
	URHIL	URHIL	010	IAF	HF	R	FO		312.5(315.5T)	006.0	AA 03300	
		URHIL	010	FACF	IF		FB				AA 03300	
		PEGGO	020	FAF	TF		FB	0.5	312.5(315.5T)	006.7	AA 03200	
		JOPKA	021	SDF	TF		FB	0.3	312.4(315.4T)	003.4	AA 02100 GS 02108	
		RW31	030	MAP	TF		FO	0.3	312.4(315.4T)	002.9	AT 01184	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		312.4(315.4T)		AA 01552	
	CUPLO	050		DF		FO				AA 03000	
	CUPLO	060		HM	R	FO		132.1(135.1T)	006.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	CUPLO	N461406.92	W0943358.77	N4614.115	W09433.980
	DAYLE	N453724.75	W0935534.20	N4537.413	W09355.570
	GITTI	N460100.68	W0935833.67	N4601.011	W09358.561
	INONY	N454419.06	W0942258.36	N4544.318	W09422.973
	JOPKA	N460303.27	W0941811.73	N4603.055	W09418.196
	PEGGO	N460036.79	W0941443.96	N4600.613	W09414.733
	URHIL	N455552.01	W0940801.30	N4555.867	W09408.022
	RW31	N460506.93	W0942107.49	N4605.116	W09421.125

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW31	01146	38

QUALITY 4 CHECKED

CITY AND STATE	ELEVATION: **1152** THRE: **1146**	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
CAMP RIPLEY, MN	AIRPORT NAME: **RAY S MILLER AAF**	**RNAV**	**RNAV (GPS) RWY 31, AMDT 1**	AMDT: **ORIG**
				DATED: **06/05/2008**

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	INONY	URHIL	1. TOWER (27-020467)	454311.45N/0942303.45W	1519 (5D)	1000	AT781	3300
			2. TERRAIN	455515.00N/0940609.00W	1273 (1300)		AS1500	2800
INITIAL	GITTI	URHIL	3. TOWER (27-001742)	460048.56N/0940441.09W	1642 (5D)	1000	AT658	3300
			4. TERRAIN	460103.00N/0935957.00W	1362 (1400)		AS1500	2900
INITIAL	DAYLE	URHIL	5. TOWER (27-001094)	454852.00N/0940139.00W	2245 (5D)	1000		3300
			6. TERRAIN	454921.00N/0940027.00W	1339 (1300)		AS1500	2800
INTERMEDIATE	URHIL (IF/IAF)	PEGGO	7. AAO	455848.00N/0941530.00W	1518 (4E)	500	AC98 AT1084	3200
			8. TERRAIN	455848.00N/0941512.00W	1300 (1300)		AS1500	2800
FINAL: LNAV	PEGGO	JOPKA/2.90 NM TO RW31	9. AAO	460131.32N/0941448.84W	1419 (2C)	250	RA24 XL17 DG390	2100
FINAL: LNAV STEPDOWN	JOPKA/2.90 NM TO RW31	RW31	10. WTR1 (KRYM0016)	460439.33N/0942055.02W	1288 (1A)	250	XP42	1580
2. HOLD-IN-LIEU-OF-PT	URHIL	P-7	5. TOWER (27-001094)	454852.00N/0940139.00W	2245 (5D)	1000		3300
			11. TERRAIN	455748.00N/0935815.00W	1382 (1400)		AS1500	2900
3. MISSED APPROACH — MAP:	RW31	CUPLO				ASC		3000
			12. AAO	461242.00N/0942809.00W	1733 (4E)	1000		2800
ELEV:	1480		13. TERRAIN	461242.00N/0942809.00W	1533 (1500)		AS1500	3000

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL							
CATEGORY A	1.3 NM	350	488	14. TREE	460706.21N/0942159.07W	1339 (2C)	300		1640
CATEGORY B	1.5 NM	450	488	14. TREE	460706.21N/0942159.07W	1339 (2C)	300		1640
CATEGORY C	1.7 NM	450	568	15. TREE	460730.00N/0942500.00W	1419 (2C)	300		1720
CATEGORY D	2.3 NM	550	928	16. TOWER (27-001469)	460857.00N/0942003.00W	1639 (5E)	300	AC125	2080
CATEGORY E	4.5 NM	550							

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: RW31

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	TWR (27-001094)	137/ 21.2	2245 (5D)	3300					

CITY AND STATE	ELEVATION: 1152 / AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
CAMP RIPLEY, MN	RAY S MILLER AAF	RNAV	RNAV (GPS) RWY 31, AMDT 1	10

QUALITY CHECKED

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE			3. ALTIMETER SETTING
ZMP ARTCC RYM TOWER PNM FSS		N W S	OTHER:	SOURCE: KRYM / KLXL
				DISTANCE: 0 / 8.45
		F A A		HOURS REMOTE OPERATION:
SATISFACTORY ON:		A / C		
X V H F X U H F H F	LOCATION:			ADJUSTMENT: 0 / 24

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

5. APPROACH & RUNWAY LIGHTING	
	ALS
	(S) SALS
X	MALSF 31 (PCL)
	HIRL
X	MIRL 31 (PCL), 13 (PCL)
	REIL
	TDZ
	C/LINE
	OTHER (SPECIFY)

6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	PIR-F 31
	INSTRUMENT	NPI-F 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: **RAKE MCGRAW**	DATE: **12/17/2012**
TITLE: **AERONAUTICAL INFORMATION SPECIALIST**	OFFICE: **AJV-352**

PART C - REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

BLOCK 2.
KRYM AWOS NOT ON SERVICE A.
HRS OPTN: 24
BLOCK 3.
KRYM/KLXL, DIST 8.45NM, HRS 24, ADJ 24FT.

SEE ATTACHED AIRSPACE LETTER.

RASS (PRESSURE PATTERNS SAME)
KRYM 1152 MSL
KLXL 1122 MSL
RA= 23.68

NO LP MINS PER USAASA.
VEGETATION 100' PER USAASA.

ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.
CAT A: 1.30NM
CAT B: 1.85NM
CAT C: 2.90NM
CAT D: 3.80NM

FAF ALTITUDE RETAINED 3200FT PER USAASA

XP: MATCH PREVIOUS MINIMUMS

RADIO FIX AND HOLDING DATA RECORD

NAME: CUPLO **STATE:** MN **COUNTRY:** US

LATITUDE/LONGITUDE: 461406.92N/0943358.77W **TYPE:** WP

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

FIX RESTRICTIONS:
MILITARY ONLY

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		WP	312.14	132.14	R		6	3000	6000	7	8

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	461306.00N/0942703.00W	1749	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	KRYM	CAMP RIPLEY	MN (US)
IAP	RNAV (GPS) RWY 31		1	KRYM	CAMP RIPLEY	MN (US)

REQUIRED CHARTING: MILITARY IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 05/02/2013

REASON FOR REVISION:
DELETED FAC 1 WP.
ADDED REMARK PRECIPITOUS TERRAIN EVALUATION COMPLETED.

DEVELOPED BY: **DATE:** 11/26/2012 **OFFICE:** AJV-352 **NAME:** RAKE MCGRAW

APPROVED BY: **DATE:** MAY 01 2013 **OFFICE:** AJV-352 **NAME:** SUE CRUMB

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: DAYLE **STATE:** MN **COUNTRY:** US

LATITUDE/LONGITUDE: 453724 75N/0935534.20W **TYPE:** WP, INT, 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	GOPHER	GEP	VORTAC	H	315.00	321.00	37.00	37.00		4000	17500
2	ST CLOUD	STC	VOR/DME	T	048.35	051.35	7.14	7.14		4000	12000

FIX RESTRICTIONS:
MCA V510 5000 NORTHWEST BOUND

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

REMARKS:
GOPHER (FAC 1) AND ST CLOUD (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V413-510	1, 2				MN (US)
IAP	RNAV (GPS) RWY 31			KRYM	CAMP RIPLEY	MN (US)
IAP	RNAV (GPS) RWY 31			KLXL	LITTLE FALLS	MN (US)
IAP	RNAV (GPS) RWY 31			KSTC	ST CLOUD	MN (US)
IAP	VOR RWY 31	2		KSTC	ST CLOUD	MN (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7 **DATE OF REVISION:** 05/02/2013

REASON FOR REVISION:
UPDATED FAC 1 AND 2 FROM HISTORY STATUS
ADDED MINIMUM CROSSING RESTRICTION FOR V510
ADDED MILITARY IAP TO REQUIRED CHARTING
ADDDED MIL IAP TO REQUIRED CHARTING

DEVELOPED BY: **DATE:** 01/24/2013 **OFFICE:** AJV-352 **NAME:** RAKE MCGRAW

APPROVED BY: **DATE:** MAY 01 2013 **OFFICE:** AJV-352 for **NAME:** SUE CRUMB

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: GITTI **STATE:** MN **COUNTRY:** US

LATITUDE/LONGITUDE: 460100.68N/0935833.67W **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	BRAINERD	BRD	VORTAC	H	171.00	174.00	20.00	20.00		4000	17500

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V413	1				(US)
IAP	RNAV (GPS) RWY 31			KRYM	CAMP RIPLEY	MN (US)

REQUIRED CHARTING: MILITARY IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 **DATE OF REVISION:** 06/27/2013

REASON FOR REVISION:
DELETED FAC 2 WP

4/23/2013 THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 11/26/2012
1. ADDED DISTANCE FROM FAC TO BRD 20.00NM

DEVELOPED BY: **DATE:** 11/26/2012 **OFFICE:** AJV-352 **NAME:** RAKE MCGRAW

MAY 01 2013

APPROVED BY: **DATE:** **OFFICE:** AJV-352 for **NAME:** SUE CRUMB

SIGNATURE:

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

QUALITY CHECKED 1

RADIO FIX AND HOLDING DATA RECORD

NAME: INONY **STATE:** MN **COUNTRY:** US

LATITUDE/LONGITUDE: 454419.06N/0942258.36W **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	ALEXANDRIA	AXN	VOR/DME	L	103.00	110.00	38.00	38.00		5000	17500

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V510	1				(US)
IAP	RNAV (GPS) RWY 31			KRYM	CAMP RIPLEY	MN (US)

REQUIRED CHARTING: MILITARY IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 **DATE OF REVISION:** 06/27/2013

REASON FOR REVISION:
DELETED FAC 2 WP.

4/23/2013 THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 11/26/2012.
1. ADDED DISTANCE FROM FAC TO AXN 38.00NM

DEVELOPED BY: **DATE:** 11/26/2012 **OFFICE:** AJV-352 **NAME:** RAKE MCGRAW

APPROVED BY: **DATE:** MAY 01 2013 **OFFICE:** AJV-352 for **NAME:** SUE CRUMB

SIGNATURE:

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

QUALITY 1 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: JOPKA **STATE:** MN **COUNTRY:** US

LATITUDE/LONGITUDE: 460303.27N/0941811.73W **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 31			KRYM	CAMP RIPLEY	MN (US)

REQUIRED CHARTING: MILITARY IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 05/02/2013

DEVELOPED BY: **DATE:** 11/30/2012 **OFFICE:** AJV-352 **NAME:** RAKE MCGRAW

APPROVED BY: **DATE:** MAY 01 2013 **OFFICE:** AJV-352 for **NAME:** SUE CRUMB

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: PEGGO **STATE:** MN **COUNTRY:** US

LATITUDE/LONGITUDE: 460036.79N/0941443.96W **TYPE:** WP

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

FIX RESTRICTIONS:
MILITARY ONLY

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

REMARKS:
L/V PFAF FORMULA USED FOR FIX LOCATION

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 31			KRYM	CAMP RIPLEY	MN (US)

REQUIRED CHARTING: MILITARY IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4 **DATE OF REVISION:** 05/02/2013

REASON FOR REVISION:
FIX MOVED 684FT SE TO PFAF LOCATION.
REMOVED DME FROM FIX TYPE.
DELETED FAC 1 FAC 2 AND FAC 3.

DEVELOPED BY: **DATE:** 11/26/2012 **OFFICE:** AJV-352 **NAME:** RAKE MCGRAW

APPROVED BY: **DATE:** MAY 01 2013 **OFFICE:** AJV-352 **NAME:** SUE CRUMB

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: URHIL **STATE:** MN **COUNTRY:** US

LATITUDE/LONGITUDE: 455552.01N/0940801.30W **TYPE:** WP

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

FIX RESTRICTIONS:
MILITARY ONLY

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	SE		WP	132.45	312 45	R		6	3300	6000	7	8

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	TOWER (27-001094)	454852.00N/0940139.00W	2245	5D

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 13		1	KRYM	CAMP RIPLEY	MN (US)
IAP	RNAV (GPS) RWY 31		1	KRYM	CAMP RIPLEY	MN (US)

REQUIRED CHARTING: MILITARY IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4 **DATE OF REVISION:** 05/02/2013

REASON FOR REVISION:
FIX MOVED 0.67NM SE
DELETED FAC 1 WP
ADDED NOTE PRECIPITOUS TERRAIN EVALUATION COMPLETE
INBOUND HOLDING CHANGED FROM 312.44 TO 312.45

DEVELOPED BY: **DATE:** 11/26/2012 **OFFICE:** AJV-352 **NAME:** RAKE MCGRAW

APPROVED BY: **DATE:** MAY 01 2013 **OFFICE:** AJV-352 for **NAME:** SUE CRUMB

SIGNATURE:

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

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **CAMP RIPLEY** STATE: **MN**

AIRPORT NAME: **RAY S MILLER AAF** ID: **KRYM**

PROCEDURE: **RNAV (GPS) RWY 31** AMDT: **1**

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 **3.00**
   (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 **315.37**
4. High Terrain in **FINAL** segment containing 1000' point **1219**
5. Distance from **THLD** to 1500' point **5.33**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **FINAL** segment at 1500' point **1.20**
7. True Course of **FINAL** segment containing 1500' point **315.37**
8. High Terrain in **FINAL** segment containing 1500' point **1219**
9. Threshold Coordinates (if straight-in) ... **460506.93N** / **0942107.49W**
10. ARP Coordinates ..... **460523.89N** / **0942135.47W**
11. Runway Approach End and distance furthest from ARP.....RWY **13**
    Distance **0.58** NM
12. FAF Coordinates ..... **460036.79N** / **0941443.96W**
    (Click to Select)

REMARKS: Approach/Drawing attached.