Federal Aviation Administration

Memorandum

Date: MAY 01 2012

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

From: for Darryel Adams, Manager, Terminal Procedures & Charting Services – 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	ILS OR LOC/DME RWY 31, AMDT 4
8260-13	TACAN RWY 13, AMDT 2 (CANCEL) TACAN RWY 31, AMDT 2 (CANCEL)

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

8260-2	OHUYE, MN ORIG	RIPLEY NDB, MN REV 5
	TODEE, MN REV 1	ZAKPI, MN ORIG
	FARRY, MN REV 1 (CNCL)	GARYE, MN REV 2 (CNCL)
	KETLL, MN ORIG (CNCL)	LIFRR, MN REV 1 (CNCL)
	MILRR, MN ORIG (CNCL)	RUSEE, MN REV 1 (CNCL)

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

UNITED STATES ARMY

ILS OR LOC/DME 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
BRD VORTAC	XCR NDB	216.45 / 20.88	7000
XCR NDB	OHUYE/I-RYM 7.49 DME	132.29 / 5.82	5000
TODEE/I-RYM 15.80 DME (IF)	OHUYE/I-RYM 7.49 DME	312.29 / 8.31 (I-RYM)	3200

MISSED APPROACH

ILS: DA
LOC: I-RYM 1.16 DME FIX

CLIMB TO 2000 THEN CLIMBING LEFT TURN TO 3300 DIRECT XCR NDB AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3300, OR AS DIRECTED BY ATC.

ALTERNATE MA: CLIMB TO 2000 THEN CLIMBING RIGHT TURN TO 5000 DIRECT BRD VORTAC AND HOLD

1. PT L SIDE OF COURSE 132.29 OUTBOUND 3300 FT WITHIN 10 MILES OF OHUYE (IAF)
2.
3. FAC: 312.29 FAF: OHUYE/I-RYM 7.49 DME DIST FAF TO MAP: THLD: 6.33
4. MIN. ALT: OHUYE 3200, ZAKPI/I-RYM 3.66 DME 1980*
5. DIST TO THLD FROM OM: - MM: 0.51 IM: - 150 HAT: - 100 HAT: - GS ANT: 699
6. MIN GS INCPT: 3200 GS ALT AT: OHUYE OM: - MM: 1345 IM: -
7. GS ANGLE: 3.00 TCH: 37.6
8. MSA FROM: XCR NDB 3300

ADDITIONAL FLIGHT DATA:
HOLD SE, RT, 312.29 INBOUND.
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NW BRD VORTAC, RT, 118.00 INBOUND.
CHART FAS OBST: 1289 TREE 460320N/0941816W
CHART 1419 AAO 460131N/0941449W.
CHART VDP AT 2.41 DME*;
DISTANCE VDP TO THLD 1.25 MILES.
*LOC ONLY.
CHART IN PLANVIEW: BRD VORTAC.
CHART R-4301.

MAG VAR: 3E EPOCH YEAR: 1995

MINIMUMS

TAKEOFF: STANDARD 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
S-ILS 31	1346	1/2	200	1346	1/2	200	1346	1/2	200	1346	1/2	200			
S-LOC 31	1580	3/4	434	1580	3/4	434	1580	1	434	1580	1	434			
CIRCLING	1640	1	488	1640	1	488	1640	1 1/2	488	1720	2	568			

NOTES:
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LITTLE FALLS ALTIMETER SETTING AND INCREASE DA TO 1370 AND ALL MDAS 40 FT, AND INCREASE S-LOC 31 VISIBILITY CATS C/D 1/8 MILE.
CHART NOTE: FOR INOPERATIVE MALSF USING LITTLE FALLS ALTIMETER SETTING, INCREASE S-LOC 31 CATS C, D VISIBILITY TO 1 3/8 MILE.
(SEE FORM 8260-20)

QUALITY CHECKED

CITY AND STATE	ELEVATION: 1152 THRE: 1146 AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
CAMP RIPLEY, MN	RAY S MILLER AAF	I-RYM	ILS OR LOC/DME RWY 31, AMDT 4	AMDT: 3
				DATED 06/05/2008

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

FLIGHT CHECKED BY		
NAME: for Christopher M. Gottwald	FIFO	DATE: 4/11/12

DEVELOPED BY		
NAME: for RAKE MCGRAW	FIFO AJV-352	DATE: 10/04/2011

APPROVED BY		
NAME:	UNIT	DATE:

CHANGES:

RECOMMENDED BY: for DARRYEL ADAMS, AJV-352 MAY 01 2012

1. CHANGED FEEDER BRD VORTAC - XCR NDB COURSE AND DISTANCE FROM 216.43/20.87 TO 216.45/20.88
2. CHANGED FEEDER XCR NDB - PRGGO/RYM 6.62 DME TO OHUYE/I-RYM 7.49 DME, COURSE AND DISTANCE CHANGED FROM 132.30/5.71 TO 132.29/5.82
3. DELETED RYM TACAN FEEDER
4. DELETED RUESE ARC IAF
5. DELETED GARYE ARC IAF
6. CHANGED IF TODEE - PEGGO/RYM 6.62 DME TO OHUYE/I-RYM 7.49 DME, COURSE AND DISTANCE CHANGED FROM 312.29/8.38 TO 312.29/8.31
7. LOC MAP CHANGED FROM RYM 0.40 DME FIX TO I-RYM 1.16 DME FIX
8. MISSED APPROACH CHANGED FROM "CLIMB TO 2000 THEN CLIMBING LEFT TURN TO 3300 DIRECT XCR NDB AND HOLD (TACAN AIRCRAFT CLIMB TO 2000 THEN CLIMBING LEFT TURN TO 4200 VIA RYM TACAN R-220 TO GARYE/RYM 15.00 DME AND HOLD SW, RT, 040.00 INBOUND)." TO "CLIMB TO 2000 THEN CLIMBING LEFT TURN TO 3300 DIRECT XCR NDB AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3300."
9. FAF CHANGED FROM PEGGO 6.23NM TO THLD, TO OHUYE 6.33 NM TO THLD
10. ADDED STEPDOWN ZAKPI
11. ADDED MM
12. ADDED VDP
13. ADDED CHART NOTE: FOR INOPERATIVE MALSF USING LITTLE FALLS ALTIMETER SETTING, INCREASE S-LOC 31 CATS C, D VISIBILITY TO 1 3/8 MILE.
14. CHANGED TO "CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LITTLE FALLS ALTIMETER SETTING AND INCREASE DA TO 1370 AND ALL MDAS 40 FT, AND INCREASE S-L0C 31 VISIBILITY CATS C/D 1/8 MILE."

SEE 8260-10

REASONS:

1. UPDATED BRD VORTAC SURVEY DATA
2, 6. RYM TACAN DECOMMISSIONED, OHUYE IS NEW PFAF AT .54 L-V PFAF LOCATION
3, 8, 15. RYM TACAN DECOMMISSIONED
4, 5. RYM TACAN DECOMMISSIONED, ARCS NOT REPLACED PER USAASA
7. RYM TACAN DECOMMISSIONED, DME ADDED TO ILS
9. NEW PFAF AT .54 L-V PFAF LOCATION, PEGGO USED ON OTHER PROCEDURES THAT ARE NOT BEING AMENDED AT THIS TIME
10. NEW OBSTACLE EVALUATION, TO KEEP LOC MDA AT 1580.
11. NEW EQUIPMENT PER USAASA
12. FINAL FACILITY NOW HAS DME.
13, 14. CRITERIA CHANGE .3B CHG 20 VISIBILITIES
16. NEW NOTE FORMAT PER 8260.19D PAR (854) (6) D, OLD NOTE WAS ADDED BY USAASA WITH AMENDMENT 3A THAT WAS NOT DOCUMENTED ON A FAA FORM 8260-11.
17. ARC IAF'S DELETED PER USAASA
18, 19. THRE USED INSTEAD OF TDZE, .3B CHG 20 VISIBILITIES
20. MISSED APPROACH REQUIRES ADF
21. 8260.19D PAR 856 (G)

QUALITY CONTROLLED

UNITED STATES ARMY

ILS OR LOC/DME 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 aiport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):
CHART NOTE: ADF REQUIRED.
CHART PLANVIEW NOTE: ADF OR RADAR REQUIRED.
*LOC ONLY
CHART NOTE: VDP NA WITH LITTLE FALLS ALTIMETER SETTING.
CHART NOTE: AUTOPILOT COUPLED APPROACH NA BELOW 1660.
CHART PLANVIEW NOTE: RADAR REQUIRED FOR ARRIVALS AT TODEE/I-RYM 15.80 DME
CHART PLANVIEW NOTE: PROCEDURE NA WHEN R-4301 IS ACTIVE

QUALITY 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	I-RYM	ILS OR LOC/DME RWY 31, AMDT 4	AMDT: 3
				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:

CHANGES CONT.
15. CHANGED CHART PLANVIEW NOTE: "ADF OR TACAN REQUIRED" TO "ADF OR RADAR REQUIRED" 16. CHANGED CHART NOTE: "GS UNUSABLE FOR COUPLED APPROACHES BELOW 1660FT MSL" TO "AUTOPILOT COUPLED APPROACH NA BELOW 1660." 17. CHART PLANVIEW NOTE: RADAR REQUIRED FOR ARRIVALS AT TODEE/I-RYM 15.80 DME 18. S-ILS 31 DA ALL CATS CHANGED FROM 1349 TO 1346, VIS ALL CATS CHANGED FROM 3/4 TO 1/2 19. S-LOC 31 HAT ALL CATS CHANGED FROM 431 TO 434, VIS CAT D CHANGED FROM 1 1/4 TO 1 20. ADDED CHART NOTE: ADF REQUIRED 21. ADDED ALTERNATE MA

REASONS:

QUALITY CHECKED 1

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	BRD VORTAC	XCR NDB	1. TOWER (27-000788)	461919.00N/0940956.00W	1770 (5D)	1000	XP4230	7000
			2. TERRAIN	461427.00N/0940403.00W	1411 (1411)		AS1500	2900
FEEDER	XCR NDB	OHUYE/I-RYM 7.49	3. TOWER (27-000131)	455903.00N/0941958.00W	1680 (4D)	1000	AT2320	5000
		DME	4. TERRAIN	460430.00N/0941351.00W	1333 (1300)		AS1500	2800
INTERMEDIATE	TODEE/I-RYM	OHUYE/I-RYM 7.49	5. AAO	455642.00N/0940248.00W	1516 (4D)	500	AC98 DG1086	3200
	15.80 DME	DME	6. TERRAIN	455715.00N/0940248.00W	1300 (1300)		AS1500	2800
INTERMEDIATE: PT	10 NM	OHUYE/I-RYM 7.49	7. AAO	455612.00N/0940054.00W	1559 (4E)	500	AC98 AT1143	3300
		DME	8. TERRAIN	455612.00N/0940054.00W	1349 (1300)		AS1500	2800
FINAL: ILS	OHUYE/I-RYM 7.49					ASC		1346/200
	DME							
FINAL: LOC STEPDOWN	OHUYE/I-RYM 7.49	ZAKPI/I-RYM 3.66	9. AAO	460131.32N/0941448.84W	1419 (2C)	250	DG311	1980
	DME	DME						
FINAL: LOC	ZAKPI/I-RYM 3.66	I-RYM 1.16 DME	10. TREE	460320.00N/0941816.00W	1289 (2C)	250	XP41	1580
	DME	FIX						
2. PROCEDURE TURN	OHUYE	10 NM	11. TOWER (27-001094)	454852.00N/0940139.00W	2245 (5D)	1000		3300
			12. TERRAIN	460236.00N/0940003.00W	1398 (1400)		AS1500	2900
3. MISSED APPROACH — MAP:	DA / I-RYM 1.16	XCR NDB				ASC		3300
	DME FIX		13. TOWER (27-020549)	460428.30N/0942829.10W	1547 (4D)	1000		2600
ELEV:	1180/1330		14. TERRAIN	460924.00N/0942748.00W	1365 (1400)		AS1500	2900

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL							
CATEGORY A	1.3 NM	350	488	15. TREE	460706.21N/0942159.07W	1339 (2C)	300		1640
CATEGORY B	1.5 NM	450	488	15. TREE	460706.21N/0942159.07W	1339 (2C)	300		1640
CATEGORY C	1.7 NM	450	488	15. TREE	460706.21N/0942159.07W	1339 (2C)	300		1640
CATEGORY D	2.3 NM	550	568	16. TREE	360653.93N/0942453.05W	1376 (2C)	300	HAA	1720
CATEGORY E	4.5 NM	550							

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: XCR NDB

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	TWR (27-001094)	137/ 20.7	2245 (5D)	3300					

QUALITY CHECKED

CITY AND STATE	ELEVATION: 1152 AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
CAMP RIPLEY, MN	RAY S MILLER AAF	I-RYM	ILS OR LOC/DME RWY 31, AMDT 4	AGL

PART B - SUPPLEMENTAL DATA

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

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

5. APPROACH & RUNWAY LIGHTING	
	ALS
	(S) SALS
X	MALSF 31
X	HIRL 31 (PCL), 13 (PCL)
	MIRL
	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: 3.00	ELEV RWY THRESHOLD: 1145.6
	DISTANCE FROM RWY: 699	ELEV GP ANTENNA: 1146.6
		THRESHOLD CROSSING HEIGHT: 37.6

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: 10/04/2011
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-352

PART C - REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

RWY 13R/31L USED AS ASSAULT STRIP.
BLOCK 2.
AWOS NOT ON SERVICE A
HRS OPTN: 24
BLOCK 3. KRYM/KLXL, DIST 8.53NM, BACKUP, ADJ 24FT.

BLOCK 4.
CAMP RIPLEY FLIGHT OPS BUILDING; CAT 1 - 24 HOURS.

SEE ATTACHED AIRSPACE LETTER.

RASS (PRESSURE PATTERNS SAME)
KRYM 1152 MSL
KLXL 1122 MSL

"W" SLOPE SHIFT WHEN GPI < 954 = 235.90 FT.

PRECISION AND NON-PRECISION INTERMEDIATE SEGMENTS (STRAIGHT-IN AND PT) HAVE SAME CONTROLLING OBSTACLE.

VEGETATION 100' PER USAASA

INNER MARKER NOT DOCUMENTED ON PROCEDURE PER USAASA

XP4230- PREVIOUS PROCEDURE AMENDMENT

XP41 PREVIOUS MINS

MISSED APPROACH OBSTACLES CONT.
ALTERNATE:
ASC 5000
17. TOWER (27-000788) 461919.00N/0940956.00W 1770 (5D)
1000 2800
18. TERRAIN 461100.00N/0942636.00W 1487 AS1500 3000

QUALITY CHECK 5

RADIO FIX AND HOLDING DATA RECORD

NAME: OHUYE **STATE:** MN **COUNTRY:** US

LATITUDE/LONGITUDE: 460036.79N/0941443.96W **TYPE:** 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	CAMP RIPLEY	I-RYM	LOC/DME		132.29	135.29	7.49	7.49	45535	3200	5600

FIX RESTRICTIONS:
MILITARY ONLY

REMARKS:
USED .54A L-V PFAF FORMULA

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC/DME RWY 31	1		KRYM	CAMP RIPLEY	MN (US)

REQUIRED CHARTING: MILITARY IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 02/09/2012

DEVELOPED BY: **DATE:** 10/04/2011 **OFFICE:** AJV-352 **NAME:** RAKE MCGRAW

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

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

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: RIPLEY NDB **STATE:** MN **COUNTRY:** US

LATITUDE/LONGITUDE: 460445.10N/0942036.48W **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	FAC FEET	MRA	MAA
1	RIPLEY	XCR	NDB	MH							17500

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	XCR	NDB	121.00	301.00	R	1		3000	8000	6	8
2	SE	XCR	NDB	132.29	312.29	R	1		3300	8000	6	8

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	TOWER (27-001469)	460857.00N/0942003.00W	1639	5E
1	310	AAO	461203.00N/0942733.00W	1723	4E
2	230	TOWER (27-000131)	455903.00N/0941958.00W	1680	4D
2	310	AAO	461203.00N/0942733.00W	1723	4E

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS
NA WHEN R-4301 ACTIVE.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	NDB RWY 31	KRYM	CAMP RIPLEY	MN (US)
2	ILS OR LOC/DME RWY 31	KRYM	CAMP RIPLEY	MN (US)

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC/DME RWY 31	1	2	KRYM	CAMP RIPLEY	MN (US)
IAP	NDB RWY 31	1	1	KRYM	CAMP RIPLEY	MN (US)

REQUIRED CHARTING: MILITARY IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5 **DATE OF REVISION:** 02/09/2012

REASON FOR REVISION:
UPDATED PAT 1 CONTROLLING OBS FROM 230 TR05 (KRYM0012) 460856.74N/0941951.05W 1650 1A.
UPDATED PAT 2 CONTROLLING OBS FROM 230 TR03 (KRYM0010) 455902.64N/0941958.29W 1691 1A.
CHANGED PAT 2 CRS INBOUND FROM 312.30 TO 312.29
CHANGED NAME FROM CAMP RIPLEY NDB TO RIPLEY NDB
ADDED REMARK PRECIPITOUS TERRAIN EVALUATION COMPLETE

DEVELOPED BY: **DATE:** 10/04/2011 **OFFICE:** AJV-352 **NAME:** RAKE MCGRAW

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

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

QUALITY 5 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: TODEE **STATE:** MN **COUNTRY:** US

LATITUDE/LONGITUDE: 455441.90N/0940622.46W **TYPE:** 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	CAMP RIPLEY	I-RYM	LOC/DME		132.29	135.29	15.80	15.80		3200	5600

FIX RESTRICTIONS:
MILITARY ONLY

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC/DME RWY 31	1		KRYM	CAMP RIPLEY	MN (US)

REQUIRED CHARTING: MILITARY IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
LAT/LONG UPDATED - FIX MOVED 196FT SE
CAHNGED FAC 1 FROM I-RYM LOC TO I-RYM LOC/DME, DME DISTANCE 15.8 ADDED
DELETED FAC 2 RYM TACAN

DEVELOPED BY: **DATE:** 10/04/2011 **OFFICE:** AJV-352 **NAME:** RAKE MCGRAW

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

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

QUALITY CHECKED 1

RADIO FIX AND HOLDING DATA RECORD

NAME: ZAKPI **STATE:** MN **COUNTRY:** US

LATITUDE/LONGITUDE: 460320.33N/0941835.96W **TYPE:** 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	CAMP RIPLEY	I-RYM	LOC/DME		132.29	135.29	3.66	3.66		1880	3300

FIX RESTRICTIONS:
MILITARY ONLY

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC/DME RWY 31	1		KRYM	CAMP RIPLEY	MN (US)

REQUIRED CHARTING: MILITARY IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 02/09/2012

DEVELOPED BY: **DATE:** 10/04/2011 **OFFICE:** AJV-352 **NAME:** RAKE MCGRAW

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

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

QUALITY CHECKED

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: BRAINERD VORTAC **STATE:** MN **COUNTRY:** US

LATITUDE/LONGITUDE: 462053.59N/0940133.22W **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	BRAINERD	BRD	VORTAC	H							45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
BRD	VORTAC	R-111	76	6000	15800

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	NW	BRD	VORTAC	298.00	118.00	R	1		3100	14000	4	10
2	NW	BRD	VORTAC	336.00	156.00	L	1-1 1/2		3000	35000	4	25

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (27-000788)	461919.00N/0940956.00W	1770	5D
2	200	TOWER (27-000595)	462758.40N/0935732.09W	1771	5D

REASON FOR NONSTANDARD HOLDING:
PAT 2 AIR TRAFFIC REQUEST

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	MEADOW LAKE			KMSP	MINNEAPOLIS	MN (US)
DP	MINNEAPOLIS			KMSP	MINNEAPOLIS	MN (US)
EN ROUTE	J25					(US)
EN ROUTE	J522					(US)
EN ROUTE	V161					(US)
EN ROUTE	V413					(US)
EN ROUTE	V55					(US)
EN ROUTE	V82					(US)
EN ROUTE	V82-161					(US)
IAP	NDB OR GPS RWY 16			KAIT	AITKIN	MN (US)
IAP	ILS OR LOC RWY 23		1	KBRD	BRAINERD	MN (US)
IAP	ILS OR LOC/DME RWY 34		2	KBRD	BRAINERD	MN (US)
IAP	NDB RWY 23			KBRD	BRAINERD	MN (US)
IAP	RNAV (GPS) RWY 23			KBRD	BRAINERD	MN (US)
IAP	RNAV (GPS) RWY 30			KBRD	BRAINERD	MN (US)
IAP	RNAV (GPS) RWY 5			KBRD	BRAINERD	MN (US)
IAP	ILS OR LOC/DME RWY 31		1	KRYM	CAMP RIPLEY	MN (US)
IAP	NDB RWY 31			KRYM	CAMP RIPLEY	MN (US)
IAP	RNAV (GPS) RWY 13			KRYM	CAMP RIPLEY	MN (US)
IAP	RNAV (GPS) RWY 34			K14Y	LONG PRAIRIE	MN (US)
IAP	RNAV (GPS) RWY 14			KHZX	MCGREGOR	MN (US)
IAP	GPS RWY 4			KMZH	MOOSE LAKE	MN (US)
IAP	NDB RWY 34			KPWC	PINE RIVER	MN (US)
STAR	GOPHER		2	KMSP	MINNEAPOLIS	MN (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 17 **DATE OF REVISION:**

REASON FOR REVISION:
DELETED HOLDING PATTERN 3 AND ASSOCIATED DATA - NOT USED, SIAP REVISED
UPDATED FIX USE - CHANGED KBRD ILS OR LOC RWY 34 TO LOC/DME; CHANGED PAT FROM 3 TO 2
REDUCED PATTERN 2 MINIMUM ALTITUDE FROM 4000 TO 3000 - KBRD ILS OR LOC/DME RWY 34 MISSED APPROACH HOLDING

QUALITY 5 CHECKED

DEVELOPED BY: **DATE:** 06/03/2011 **OFFICE:** AJV-353 **NAME:** JOHN ROSARIO

INFO ONLY

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** GREGORY YAMAMOTO

SIGNATURE:

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

QUALITY 5 CHECKED

TERMINAL AIRSPACE DATA REQUIREMENTS

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

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

PROCEDURE: **ILS OR LOC/DME RWY 31** AMDT: **4**

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 **3.25**
   (Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **FINAL** segment at 1000' point **0.92**
   (Enter appropriate segment , final, intermediate, etc.)
3. True Course of **FINAL** segment containing 1000' point **315.29**
4. High Terrain in **FINAL** segment containing 1000' point **1219**
5. Distance from **THLD** to 1500' point **5.37**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **FINAL** segment at 1500' point **1.38**
7. True Course of **FINAL** segment containing 1500' point **315.29**
8. High Terrain in **FINAL** segment containing 1500' point **1219**
9. Threshold Coordinates (if straight-in) ... **460506.93N** / **0942107.49W**
10. ARP Coordinates ..... **460528.33N** / **0942137.94W**
11. Runway Approach End and distance furthest from ARP.....RWY **31**
    Distance **0.50** NM
12. FAF Coordinates ..... **460036.79N** / **094143.96W**
    (Click to Select)

REMARKS: Approach/Drawing attached.