

# RADIO FIX AND HOLDING DATA RECORD

NAME: HOGEB

STATE: MN

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 483505.50N/0964348.24W

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 DME	HOLDING MIN	ALTITUDES MAX	TEMPLATES MIN	MAX
1	SE		WP	135.05	315.05	R	4	2600	6000	5	6

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPD	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	482951.00N/0963206.00W	1293	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	KHCO	HALLOCK	MN (US)
IAP	RNAV(GPS) RWY 31		1	KHCO	HALLOCK	MN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 09/19/2013

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 05/06/2013

OFFICE: AJV-353

NAME: JILL OLSON (BRUCE MURR)

APPROVED BY:

DATE: 08/06/2013

OFFICE: AJV-353

NAME: LARRY STROUT

SIGNATURE:

DISTRIBUTION:

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

# RADIO FIX AND HOLDING DATA RECORD

NAME: HUMBOLDT TACAN

STATE: MN

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 485209.07N/0970704.45W

TYPE:

AIRSPACE DOCKET: 21-AGL-2

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	HUMBOLDT	HML	TACAN	H							45000

## HOLDING:

HOLDING TYPE OF ACTION: MODIFY

## 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	NE		WP	028.08	208.08	R		4	3500	6000	5	6

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	485951.00N/0965827.00W	1136	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 34		1	2C8	CAVALIER	ND (US)
IAP	RNAV (GPS) RWY 33			96D	WALHALLA	ND (US)

REQUIRED CHARTING: MILITARY IAP, IAP, CONTROLLER LOW, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7

DATE OF REVISION: 12/02/2021

## REASON FOR REVISION:

NAME: CHANGED VORTAC TO TACAN.  
LAT/LONG: CHANGED FROM 485209.09N/0970701.51W TO 485209.07N/0970704.45W.  
AIRSPACE DOCKET: ADDED 21-AGL-2.  
FIX MAKE-UP FACILITIES: CHANGED FAC 1 TYPE FROM VORTAC TO TACAN.  
HOLDING: REMOVED PAT 1 AND ALL ASSOCIATED DATA.  
FIX USE: REMOVED V181, J107 AND J515. REMOVED KHCO VOR/DME RWY 31. REMOVED KPMB VOR-A.  
REQUIRED CHARTING: CHANGED CONTROLLER TO CONTROLLER LOW AND HIGH.  
COMPULSORY REPORTING POINT: REMOVED LOW/HIGH PER AIRSPACE DOCKET.

07/22/2021: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 06/01/2021.

1. HOLDING: CHANGED PAT 1 RAD/CRS/BRG FROM 305.42 TO 305.16 AND CRS INBOUND FROM 125.42 TO 125.16. CHANGED PAT 2 RAD/CRS/BRG FROM 028.17 TO 028.08 AND CRS INBOUND FROM 208.17 TO 208.08.

07/27/21: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 06/01/21.

1. HOLDING: REMOVED PAT 1 AND ALL ASSOCIATED DATA.  
2. HOLDING RESTRICTIONS: CHANGED PATTERNS TO PATTERN.  
3. FIX USE: REMOVED KHCO RNAV (GPS) RWY 13 AND RNAV (GPS) RWY 31.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: BARRY SMITH

APPROVED BY:

DATE: 06/01/2021

OFFICE: AJV-A420

NAME: MARLON ROBINSON

SIGNATURE:

# RADIO FIX AND HOLDING DATA RECORD

NAME: HUTLU

STATE: MN

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 484906.13N/0970136.39W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE  
IAP

USE TITLE  
RNAV(GPS) RWY 13

FAC

PAT

AIRPORT IDENT  
KHCO

CITY  
HALLOCK

STATE  
MN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 09/19/2013

REASON FOR REVISION:

1. MOVED PFAF LOCATION; COORDINATES UPDATED.
2. UPDATED FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 03/12/2013

OFFICE: AJV-353

NAME: JILL OLSON (BRUCE MURR)

APPROVED BY:

DATE: 08/06/2013

OFFICE: AJV-353

NAME: LARRY STROUT

SIGNATURE:

DISTRIBUTION:

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

# RADIO FIX AND HOLDING DATA RECORD

NAME: JUXIV

STATE: MN

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 484633.62N/0965821.59W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:  
USE TYPE  
IAP

USE TITLE  
RNAV (GPS) RWY 13

FAC

PAT

AIRPORT IDENT  
KHCO

CITY  
HALLOCK

STATE  
MN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 09/19/2013

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 03/26/2013

OFFICE: AJV-353

NAME: JILL OLSON (BRUCE MURR)

APPROVED BY:

DATE: 08/06/2013

OFFICE: AJV-353

NAME: LARRY STROUT

SIGNATURE:

DISTRIBUTION:

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

# RADIO FIX AND HOLDING DATA RECORD

NAME: NALCO

STATE: MN

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 483337.12N/0970825.55W

TYPE: WP

AIRSPACE DOCKET: 21-AGL-2

FIX TYPE OF ACTION: MODIFY

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 MIN	ALTITUDES MAX	TEMPLATES MIN	MAX
1	S		WP	179.87	359.87	R	4	2600	6000	5	6

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (38-000324)	483323.00N/0971058.00W	1240	5E

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE (US) ND (US) ND (US)
EN ROUTE	T407					
IAP	RNAV (GPS) RWY 34			2C8	CAVALIER	
IAP	RNAV (GPS) RWY 33		1	KPMB	PEMBINA	

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 12/02/2021

## REASON FOR REVISION:

TYPE: REMOVED DME.

AIRSPACE DOCKET: ADDED 21-AGL-2.

FIX MAKE-UP FACILITIES: REMOVED FAC 1 (HML) - HML VOR MON.

FIX USE: ADDED T407 AND REMOVED V181. REMOVED FAC 1 FROM KHCO RNAV (GPS) RWY 13.

REQUIRED CHARTING: CHANGED CONTROLLER TO CONTROLLER LOW.

07/20/21: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 06/04/21.

1. FIX USE: REMOVED KHCO RNAV (GPS) RWY 13.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: BARRY SMITH

APPROVED BY:

DATE: 06/04/2021

OFFICE: AJV-A420

NAME: MARLON ROBINSON

SIGNATURE:

# RADIO FIX AND HOLDING DATA RECORD

NAME: ZOMTA

STATE: MN

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 490000.00N/0970754.80W

TYPE: WP

AIRSPACE DOCKET: 21-AGL-2

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE  
EN ROUTE

USE TITLE  
T407

FAC

PAT

AIRPORT IDENT

CITY

STATE  
(US)

REQUIRED CHARTING: EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 12/02/2021

## REASON FOR REVISION:

TYPE: REMOVED DME.

AIRSPACE DOCKET: ADDED 21-AGL-2.

FIX MAKE-UP FACILITIES: REMOVED FAC 1 (HML) AND ALL DATA.

FIX USE: ADDED T407. REMOVED J515 AND V181.

REQUIRED CHARTING: CHANGED CONTROLLER TO CONTROLLER LOW. REMOVED EN ROUTE HIGH - ATC REQUEST.

07/28/21: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 07/16/21.

1. FIX USE: REMOVED KHCO RNAV (GPS) RWY 13.

2. REQUIRED CHARTING: REMOVED IAP.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: BARRY SMITH

APPROVED BY:

DATE: 05/27/2021

OFFICE: AJV-A420

NAME: MARLON ROBINSON

SIGNATURE: