

# RADIO FIX AND HOLDING DATA RECORD

NAME: ALETE

STATE: MN

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 483225.20N/0932154.78W

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 NM	FAC FEET	MRA	MAA
1	INTERNATIONAL FALLS	I-INL	LOC		132.91	135.91				1520	5600
2	INTERNATIONAL FALLS	INL	VOR/DME		127.45	133.45	2.22			1520	5600

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	COPTER ILS OR LOC RWY 31	1		KINL	INTERNATIONAL FALLS	MN (US)
IAP	ILS OR LOC RWY 31	1, 2		KINL	INTERNATIONAL FALLS	MN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 04/25/2019

**REASON FOR REVISION:**

UPDATE FACILITY 2 TYPE TO VOR/DME.  
UPDATE FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-5430

NAME: TODD BOWLING

APPROVED BY:

DATE:

OFFICE: AJV-5430

NAME: WARDELL HENNING

SIGNATURE:

*Digitally signed by*  
**WARDELL HENNING**

DISTRIBUTION:

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

Dec 07, 2018

QUALITY  
5  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** CIVLU **STATE:** MN **COUNTRY:** US **ICAO REGION CODE:** K3

**LATITUDE/LONGITUDE:** 483700.71N/0930345.84W **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	MRA	MAA
1	INTERNATIONAL FALLS	INL	VOR/DME	L	071.22	077.22	14.00		3000	17500

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

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE (US)
EN ROUTE	V-242					
IAP	ILS OR LOC RWY 31	1		KINL	INTERNATIONAL FALLS	MN (US)
IAP	ILS OR LOC/DME RWY 13	1		KINL	INTERNATIONAL FALLS	MN (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 3 **DATE OF REVISION:** 04/25/2019

**REASON FOR REVISION:**

UPDATE FIX MAKE-UP FACILITY TYPE TO VOR/DME.  
UPDATE FIX USE FROM ILS OR LOC/DME RWY 31 TO: ILS OR LOC RWY 31.  
ADDED CONTROLLER LOW TO REQUIRED CHARTING.

**INITIATED BY:** **DATE:** **ORGANIZATION:** **NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:** AJV-5430 **NAME:** TODD BOWLING

**APPROVED BY:** **DATE:** **OFFICE:** AJV-5430 **NAME:** WARDELL HENNING

**SIGNATURE:** *Digitally signed by*

**WARDELL HENNING**

Dec 07, 2018

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



# RADIO FIX AND HOLDING DATA RECORD

NAME: EKOJO

STATE: MN

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 483321.20N/0932316.44W

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 NM	FAC FEET	MRA	MAA
1	INTERNATIONAL FALLS	I-INL	LOC		132.91	135.91				1420	5600
2	INTERNATIONAL FALLS	INL	VOR/DME	L	124.01	130.01	0.93			1420	5600

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 31	1, 2		KINL	INTERNATIONAL FALLS	MN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 04/25/2019

## REASON FOR REVISION:

UPDATE FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-5430

NAME: TODD BOWLING

APPROVED BY:

DATE:

OFFICE: AJV-5430

NAME: WARDELL HENNING

SIGNATURE:

*Digitally signed by*

**WARDELL HENNING**

DISTRIBUTION:

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

Dec 07, 2018

QUALITY  
5  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: HODEV

STATE:

COUNTRY: CA

ICAO REGION CODE: CY

LATITUDE/LONGITUDE: 484402.75N/0933857.15W

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	MRA	MAA
1	INTERNATIONAL FALLS	I-ABK	LOC		312.90	315.90			3300	5600
2	INTERNATIONAL FALLS	INL	VOR/DME		310.30	316.30	14.00		3300	5600

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	NW		WP	312.74	132.74	R		4	3300	6000	5	6
2	NW	INL	VOR/DME	310.30	130.30	R	1		3300	6000	5	6

**CONTROLLING OBSTRUCTIONS:**

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (CA-002900)	484223.00N/0933712.00W	1677	6F
2	200	TOWER (CA-000608)	484841.00N/0935115.00W	1679	6F

**HOLDING RESTRICTIONS:**

HOLDING LIMITED TO ESTABLISHED PATTERNS.

**REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 31 (ALT MA)	1, 2	2	KINL	INTERNATIONAL FALLS	MN (US)
IAP	ILS OR LOC/DME RWY 13	2		KINL	INTERNATIONAL FALLS	MN (US)
IAP	RNAV (GPS) RWY 13		1	KINL	INTERNATIONAL FALLS	MN (US)
IAP	RNAV (GPS) RWY 31		1	KINL	INTERNATIONAL FALLS	MN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 04/25/2019

**REASON FOR REVISION:**

UPDATED FIX USE.

ADD NOTE PRECIPITOUS TERRAIN EVALUATION COMPLETED TO REMARKS.

UPDATE HOLDING PATTERN 2 TYPE FROM VORTAC TO VOR/DME.

MOVED HOLDING LIMITED TO ESTABLISHED PATTERNS FROM REMARKS TO HOLDING RESTRICTIONS.

2/5/2019: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON: 12/7/2018:

1. ADDED PAT 2 AIRSPEED (200 KIAS) AND CONTROLLING OBSTACLE.

2. CHANGE HOLDING TYPE ACTION FROM: NO CHANGE TO: MODIFY.

3. UPDATED PAT 1 CONTROLLING OBSTACLE ID (FROM 52-0029 TO CA-002900).

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-5430

NAME: TODD BOWLING

APPROVED BY:

DATE:

OFFICE: AJV-5430

NAME: WARDELL HENNING

SIGNATURE:

*Digitally signed by*

**DAVID TEFFETELLER**

Feb 05, 2019

DISTRIBUTION:

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

QUALITY  
50  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: WANRI

STATE: MN

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 481958.15N/0932511.18W

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 NM	FAC FEET	MRA	MAA
1	INTERNATIONAL FALLS	INL	VOR/DME	L	176.31	182.31	14.00	14.00		3000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V218	1				(US)
EN ROUTE	V505	1				(US)
IAP	ILS OR LOC RWY 31	1		KINL	INTERNATIONAL FALLS	MN (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 04/25/2019

## REASON FOR REVISION:

REMOVED AIRSPACE DOCKET NUMBER.

UPDATE FIX USE: CHANGED PROCEDURE NAME FROM: ILS OR LOC/DME RWY 31 TO: ILS OR LOC RWY 31.

DELETED CONTROLLER FROM REQUIRED CHARTING AND ADDED CONTROLLER LOW.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-5430

NAME: TODD BOWLING

APPROVED BY:

DATE:

OFFICE: AJV-5430

NAME: WARDELL HENNING

SIGNATURE:

*Digitally signed by*

**WARDELL HENNING**

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ATC FACILITY:  
OTHER:

Dec 07, 2018

QUALITY  
5  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: ZAVBA STATE: MN COUNTRY: US ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 482357.13N/0930937.05W 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	MRA	MAA
1	INTERNATIONAL FALLS	I-INL	LOC		132.91	135.91			3400	5600
2	INTERNATIONAL FALLS	INL	VOR/DME		129.51	135.51	14.00		3400	17500

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	SE		WP	133.08	313.08	R		4	3400	6000	5	6
2	SE	INL	VOR/DME	129.51	309.51	R	1		3400	6000	4	5

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (24-0528)	482122.00N/0930035.00W	1744	5D
1	200	TOWER (24-0528)	482122.00N/0930035.00W	1744	5D

## REMARKS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.  
PRECIPITOUS TERRAIN EVALUATION COMPLETE.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 13	1, 2		KINL	INTERNATIONAL FALLS	MN (US)
IAP	ILS OR LOC RWY 31	1, 2		KINL	INTERNATIONAL FALLS	MN (US)
IAP	RANV (GPS) RWY 13		1	KINL	INTERNATIONAL FALLS	MN (US)
IAP	RNAV (GPS) RWY 31		1	KINL	INTERNATIONAL FALLS	MN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 DATE OF REVISION: 04/25/2019

## REASON FOR REVISION:

UPDATE FIX USE FORMAT.  
ADD NOTE PRECIPITOUS TERRAIN EVALUATION COMPLETE.  
UPDATE FIX MAKE-UP FACILITY 2 TYPE FROM VORTAC TO VOR/DME.  
UPDATE HOLDING PATTERN 2 TYPE FROM VORTAC TO VOR/DME.

INITIATED BY: DATE: ORGANIZATION: NAME:

OFFICE OF PRIMARY RESPONSIBILITY: AJV-5430 NAME: TODD BOWLING

APPROVED BY: DATE: OFFICE: AJV-5430 NAME: WARDELL HENNING

SIGNATURE: Digitally signed by

**WARDELL HENNING**

DISTRIBUTION: NFDC Dec 07, 2018

FPO: CEN  
ARTCC: ZMP  
ATC FACILITY:  
OTHER:

QUALITY  
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