

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** ASTOE **STATE:** SD **COUNTRY:** US **ICAO REGION CODE:** K3

**LATITUDE/LONGITUDE:** 442755.47N/0963816.95W **TYPE:** WP, INT, DME

**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	FAC FEET	MRA	MAA
1	REDWOOD FALLS	RWF	VOR/DME	H	263.43	270.43	64.87	64.87		6000	17500
2	WATERTOWN	ATY	VORTAC	L	135.90	144.90		37.64		6000	17500

**EXPANDED SERVICE VOLUME (ESV):**

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
RWF	VOR/DME	R-263	65	5000	15600

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

**CONTROLLING OBSTRUCTIONS:**

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	230	TOWER (46-000770)	443644.00N/0964042.00W	2418	4D

**HOLDING RESTRICTIONS:**

UNPLANNED HOLDING AUTHORIZED ABOVE 6000

**REMARKS:**

REDWOOD FALLS (FAC 1) AND WATERTOWN (FAC 2) USED TO ESTABLISH FIX COORDINATES  
PRECIPITOUS TERRAIN EVALUATION COMPLETE.

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V26	1, 2				(US)
IAP	RNAV (GPS) RWY 18			KPQN	PIPESTONE	MN (US)
IAP	RNAV (GPS) RWY 36			KPQN	PIPESTONE	MN (US)
IAP	ILS OR LOC RWY 12	1, 2		KBKX	BROOKINGS	SD (US)
IAP	RNAV (GPS) RWY 12			KBKX	BROOKINGS	SD (US)
IAP	RNAV (GPS) RWY 30			KBKX	BROOKINGS	SD (US)
IAP	RNAV (GPS) RWY 35			KATY	WATERTOWN	SD (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 12 **DATE OF REVISION:** 07/19/2018

**REASON FOR REVISION:**

CHANGED FAC2 FROM HISTORY TO ACTIVE STATUS.

**DEVELOPED BY:** **DATE:** 03/22/2018 **OFFICE:** AJV-5400 **NAME:** LONNIE EVERHART (GREGORY BENNETT)

**APPROVED BY:** **DATE:** **OFFICE:** AJV-5400 **NAME:** LONNIE EVERHART

**SIGNATURE:**

*Digitally signed by*

**ROBERT G HAMILTON**

Apr 23, 2018

**DISTRIBUTION:**

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



# RADIO FIX AND HOLDING DATA RECORD

NAME: CHRLZ NDB

STATE: SD

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 442116.27N/0965648.56W

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	FAC FEET	MRA	MAA
1	CHRLZ	BK	NDB								
2	BROOKINGS	I-BKX	LOC/DME		295.51	298.51	7.02	7.00	42527	3600	6100

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	I-BKX	LOC/DME	295.51	115.51	R	1		3600	6000	4	5

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (46-000274)	442119.12N/0970725.81W	2111	2C

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

## REMARKS:

COORDINATES REFLECT LOCATION ON LOC/AZ CENTERLINE ABEAM THE CHRLZ NDB.  
ACTUAL FACILITY LOCATION IS 442116.30N/0965648.54W.  
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 12	2	1	KBKX	BROOKINGS	SD (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 07/19/2018

## REASON FOR REVISION:

CHANGED FACILITY TYPE ON FAC 1 FROM LOM-NDB TO NDB.

DEVELOPED BY: DATE: 03/21/2018 OFFICE: AJV-5400 NAME: LONNIE EVERHART (GREGORY BENNETT)

APPROVED BY: DATE: OFFICE: AJV-5400 NAME: LONNIE EVERHART

SIGNATURE:

Digitally signed by

ROBERT G HAMILTON

Apr 23, 2018

DISTRIBUTION:

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

QUALITY  
10  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: GOLDS

STATE: SD

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 442734.02N/0971305.98W

TYPE: INT, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

## FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	BROOKINGS	I-BKX	LOC/DME		295.51	298.51	20.29	20.27		5000	6100
2	HURON	HON	VORTAC	L	078.20	088.20	46.98	46.98		5000	17500
3	WATERTOWN	ATY	VORTAC	L	177.04	186.04		31.39		5000	17500

## EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-BKX	LOC/DME	R-296	21	5000	6100
HON	VORTAC	R-078	48	5000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

HURON (FAC1) AND BROOKINGS (FAC2) USED TO ESTABLISH FIX COORDINATES.  
I-BKX DME COORDINATES 441756.04N-0964814.32W.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V26	1, 2, 3				(US)
IAP	ILS OR LOC RWY 12	1, 2, 3		KBKX	BROOKINGS	SD (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 07/19/2018

## REASON FOR REVISION:

CHANGED FAC3 FROM HISTORY TO ACTIVE STATUS.

DEVELOPED BY: DATE: 03/22/2018

OFFICE: AJV-5400

NAME: LONNIE EVERHART (GREGORY BENNETT)

APPROVED BY: DATE:

OFFICE: AJV-5400

NAME: LONNIE EVERHART

SIGNATURE:

Digitally signed by

ROBERT G HAMILTON

DISTRIBUTION:

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

Apr 23, 2018

QUALITY  
10  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: UTQOH

STATE: SD

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 442410.39N/0970417.88W

TYPE: INT, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

## FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	BROOKINGS	I-BKX	LOC/DME		295.53	298.53	13.12	13.10		3600	6100
2	WATERTOWN	ATY	VORTAC	L	166.02	175.02		34.74		3600	6100

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

BROOKINGS (FAC 1) USED TO ESTABLISH FIX COORDINATES.  
I-BKX DME COORDINATES 441756.04N-0964814.32W.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 12	1		KBKX	BROOKINGS	SD (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 07/19/2018

## REASON FOR REVISION:

CHANGED FAC2 FROM HISTORY TO ACTIVE STATUS.

DEVELOPED BY:

DATE: 03/22/2018

OFFICE: AJV-5400

NAME: LONNIE EVERHART (GREGORY BENNETT)

APPROVED BY:

DATE:

OFFICE: AJV-5400

NAME: LONNIE EVERHART

SIGNATURE:

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DISTRIBUTION:

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ARTCC: ZMP  
ATC FACILITY:  
OTHER:

QUALITY  
10  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: WOXOM

STATE: SD

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 441914.90N/0965136.53W

TYPE: DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

## FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	BROOKINGS	I-BKX	LOC/DME		295.51	298.51	2.77	2.75		2040	6100

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

I-BKX DME COORDINATES 441756.04N-0964814.32W.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 12			KBKX	BROOKINGS	SD (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 07/19/2018

## REASON FOR REVISION:

CHANGED FAC1 FROM HISTORY TO ACTIVE STATUS.

DEVELOPED BY:      DATE: 03/22/2018      OFFICE: AJV-5400      NAME: LONNIE EVERHART (GREGORY BENNETT)

APPROVED BY:      DATE:      OFFICE: AJV-5400      NAME: LONNIE EVERHART

SIGNATURE:

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**ROBERT G HAMILTON**

Apr 23, 2018

DISTRIBUTION:

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

QUALITY  
10  
CHECKED