

INFORMATION ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: FRYRE **STATE:** SD **COUNTRY:** US **ICAO REGION CODE:** K3
LATITUDE/LONGITUDE: 434107.97N/0970719.24W **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	SIOUX FALLS	FSD	VORTAC	H	269.40	278.40	15.00	15.00	3700	17500

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	W	FSD	VORTAC	269.40	089.40	R	8	5000 17500	6 17
2	W	FSD	VORTAC	269.40	089.40	R	1-1 1/2	5000 14000	8 11

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (46-000195)	434346.00N/0970515.00W	2681	5D
2	230	TOWER (46-000147)	433756.00N/0972225.00W	3051	5D

HOLDING RESTRICTIONS:
 HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V-120	1				(US)
IAP	RNAV (GPS) RWY 33			KMDS	MADISON	SD (US)
IAP	HI-ILS RWY 21	1	1	KFSD	SIOUX FALLS	SD (US)
IAP	HI-TACAN RWY 15	1	1	KFSD	SIOUX FALLS	SD (US)
IAP	RNAV (GPS) RWY 15			KFSD	SIOUX FALLS	SD (US)
IAP	VOR OR TACAN RWY 15	1	2	KFSD	SIOUX FALLS	SD (US)
IAP	VOR/DME OR TACAN RWY 33	1	2	KFSD	SIOUX FALLS	SD (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7 **DATE OF REVISION:** 06/30/2011

REASON FOR REVISION:
 UPDATED FIX USE.
 HOLDING LIMITED REMARK MOVED TO HOLDING RESTRICTIONS.
 PRECIPITOUS TERRAIN REMARK ADDED.

INITIATED BY: **DATE:** **ORGANIZATION:** **NAME:**
DEVELOPED BY: **DATE:** 01/12/2011 **OFFICE:** AVN-120 **NAME:** JOSE ALFONSO (ANKUR VERMA)
APPROVED BY: **DATE:** 03/29/2011 **OFFICE:** AVN-120 **NAME:** GREGORY YAMAMOTO

SIGNATURE:

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

INFORMATION ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: HETBO

STATE: SD

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 432045.09N/0965812.63W

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 NM	FAC FEET	MRA	MAA
1	SIOUX FALLS	I-FSD	LOC			214.89				5000	5900
2	SIOUX FALLS	FSD	VORTAC	H	195.44	204.44	20.00			5000	17500

REMARKS:

MILITARY USE ONLY

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	HI-ILS OR LOC RWY 3			KFSD	SIOUX FALLS	SD (US)

REQUIRED CHARTING: MILITARY IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 11/20/2008

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 06/10/2008

OFFICE: AVN-120

NAME: GEORGE DAVIS (DAVID JENNER)

APPROVED BY:

DATE: 10/06/2008

OFFICE: AVN-120

NAME: JOHN BICKERSTAFF

SIGNATURE:

DISTRIBUTION:

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

INFORMATION ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: MAREY

STATE: SD

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 433312.84N/0964618.97W

TYPE: INT

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	SIOUX FALLS	I-FSD	LOC			214.89				1840	5900
2	SIOUX FALLS	FSD	VORTAC	H	167.00	176.00				1840	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

MAREY INT ON FSD VORTAC R-167, FLIGHT CHECK REPORTS MAREY
INT ON FSD VORTAC R-164

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 3, HI-ILS OR LOC RWY 3.			KFSD	SIOUX FALLS	SD (US)

REQUIRED CHARTING: MILITARY IAP, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 11/20/2008

REASON FOR REVISION:

UPDATED FIX USE
RAISED FAC 1 AND FAC 2 MRA FROM 15 TO 18.4
RAISED AIR/GROUND COMM ALT FROM 1500 TO 1940

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 08/04/2008

OFFICE: AVN-120

NAME: GEORGE DAVIS (DAVID JENNER)

APPROVED BY:

DATE: 10/06/2008

OFFICE: AVN-120

NAME: JOHN BICKERSTAFF

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZMP
ATC FACILITY: FSD ATCT
OTHER: LANGLEY AFB

INFORMATION ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: ROKKY LOM

STATE: SD

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 432938.89N/0964943.89W

TYPE: RADAR

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	ROKKY	FS	LOM								17500
2	SIOUX FALLS	I-FSD	LOC		209.89	214.89		5.74	34876	3400	5900

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	SW	FS	LOM	209.89	029.89	L	1		3400	14000	4	10

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (46-000448)	432920.00N/0964541.00W	1960	3C

REASON FOR NONSTANDARD HOLDING:

PAT 1 OBSTACLE AVOIDANCE

REMARKS:

COORDINATES REFLECT LOCATION ON LOC/AZ CENTERLINE ABEAM THE ROKKY LOM.
ACTUAL FACILITY LOCATION IS 432938.81N/0964943.74W.
HOLDING LIMITED TO ESTABLISHED PATTERN

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	HI-ILS OR LOC RWY 3	1, 2		KFSD	SIOUX FALLS	SD (US)
IAP	ILS OR LOC RWY 3	1, 2	1	KFSD	SIOUX FALLS	SD (US)

REQUIRED CHARTING: MILITARY IAP, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8

DATE OF REVISION: 09/19/2013

REASON FOR REVISION:

DELETED FAC 3, NO LONGER REQUIRED.
ADDED COMMENT TO REFLECT COORDINATES ON CENTERLINE AND ACTUAL COORDINATES.
UPDATED FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 06/02/2013

OFFICE: AJV-351

NAME: CASIMIR TABAKA

APPROVED BY:

DATE: 08/07/2013

OFFICE: AJV-353

NAME: LARRY STROUT

SIGNATURE:

DISTRIBUTION:

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

INFORMATION ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: SKIES

STATE: SD

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 430704.42N/0970638.48W

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	SIoux FALLS	FSD	VORTAC	H	195.44	204.44	35.00			18000	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	S	FSD	VORTAC	195.44	015.44	R		10	18000	30000		24

REMARKS:

2D (CONT): HOLDING LIMITED TO ESTABLISHED PATTERN
RESTRICTED: MILITARY ONLY

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	HI-ILS OR LOC RWY 3 (PAT 1)			KFSD	SIoux FALLS	SD (US)

REQUIRED CHARTING: MILITARY IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 11/20/2008

REASON FOR REVISION:

UPDATED FIX COORDINATES, SKIES AND HETBO NOW ON FSD R-195.44
CHANGED INBOUND CRS FROM 015.00 TO 015.44 IN HOLDING BLOCK 2A
CHANGED RADIAL/COURSE/BEARING IN FAC 1 FROM 195.00 TO 195.44

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 08/12/2008

OFFICE: AVN-120

NAME: GEORGE DAVIS (DAVID JENNER)

APPROVED BY:

DATE: 10/06/2008

OFFICE: AVN-120

NAME: JOHN BICKERSTAFF

SIGNATURE:

DISTRIBUTION:

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

INFORMATION ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: YANKTON VOR/DME STATE: SD COUNTRY: US ICAO REGION CODE: K3
 LATITUDE/LONGITUDE: 425506.15N/0972305.92W TYPE:
 AIRSPACE DOCKET: 19-AGL-17 FIX TYPE OF ACTION: NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	MRA FEET	MAA
1	YANKTON	YKN	VOR/DME	L						17500

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	SE	YKN	VOR/DME	133.00	313.00	R	1	3200 10000	4 9
2	NW	YKN	VOR/DME	312.00	132.00	R	1	3200 10000	4 9

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (46-000053)	425446.00N/0971859.00W	2101	1D
2	200	TOWER (46-000053)	425446.00N/0971859.00W	2101	1D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
 MAGVAR E7/1985.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BLUFS			KOMA	OMAHA	NE (US)
EN ROUTE	V181					(US)
EN ROUTE	V250					(US)
IAP	RNAV (GPS) RWY 13			K0B4	HARTINGTON	NE (US)
IAP	RNAV (GPS) RWY 12			KVMR	VERMILLION	SD (US)
IAP	RNAV (GPS) RWY 27			KAGZ	WAGNER	SD (US)
IAP	ILS OR LOC RWY 31		1	KYKN	YANKTON	SD (US)
IAP	RNAV (GPS) RWY 13			KYKN	YANKTON	SD (US)
IAP	RNAV (GPS) RWY 31			KYKN	YANKTON	SD (US)
IAP	VOR RWY 13		2	KYKN	YANKTON	SD (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 12

DATE OF REVISION: 09/10/2020

REASON FOR REVISION:

UPDATED FIX USE, REMOVED K0B4 VOR/DME RWY 31 AND V159.
 ADDED AIRSPACE DOCKET 19-AGL-17.
 CHANGED CONTROLLER TO CONTROLLER LOW IN REQUIRED CHARTING.
 ADDED MAGVAR INFO TO REMARKS.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: PHILLIP BRANDENBURG

APPROVED BY:

DATE:

OFFICE: AVJ-A420

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

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