

# RADIO FIX AND HOLDING DATA RECORD

NAME: ALOPE

STATE: MT

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 474623.01N/1040403.53W

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 NM	FAC FEET	MRA	MAA
1	WILLISTON	ISN	VOR/DME	VL	196.00	204.00	31.54	31.54		4500	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	T331					(US)
EN ROUTE	V545	1				(US)
IAP	RNAV (GPS) RWY 12			S25	WATFORD CITY	ND (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 11/30/2023

## REASON FOR REVISION:

FIX USE- DELETED FAC 1 FROM T331, ADDED FAC 1 TO V545  
FIX MAKE-UP FAC- WILLISTON (ISN) CLASS CHANGED FROM L TO VL

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A442

NAME: STEVEN OWNBEY

APPROVED BY:

DATE: 11/30/2023

OFFICE: AJV-A442

NAME: DAVID DANNER

SIGNATURE:

*Digitally signed by*  
**DAVID DANNER**  
May 15, 2023

QUALITY  
32  
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# RADIO FIX AND HOLDING DATA RECORD

**NAME:** BOYSEN RESERVOIR VOR/DME      **STATE:** WY      **COUNTRY:** US      **ICAO REGION CODE:** K1  
**LATITUDE/LONGITUDE:** 432747.35N/1081758.96W      **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	MRA	MAA
1	BOYSEN RESERVOIR	BOY	VOR/DME	H						45000

**FIX RESTRICTIONS:**

MCA V298 11000 WESTBOUND

**HOLDING:**

**HOLDING TYPE OF ACTION:** NO CHANGE

**REMARKS:**

ASSIGNED FACILITY MAGVAR: 16E/1965.

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BILLINGS			KBIL	BILLINGS	MT (US)
DP	BOBKT (RNAV)			KBZN	BOZEMAN	MT (US)
DP	BILLINGS			6S8	LAUREL	MT (US)
DP	CASPER			KCPR	CASPER	WY (US)
DP	DIVYD (RNAV)			KJAC	JACKSON	WY (US)
EN ROUTE	J32					(US)
EN ROUTE	J713					(US)
EN ROUTE	V187					(US)
EN ROUTE	V298					(US)
EN ROUTE	V319					(US)
EN ROUTE	V85					(US)
IAP	ILS OR LOC RWY 28			KRIW	RIVERTON	WY (US)
IAP	VOR RWY 10			KRIW	RIVERTON	WY (US)
IAP	VOR RWY 28			KRIW	RIVERTON	WY (US)
IAP	RNAV (GPS) RWY 23			KHSG	THERMOPOLIS	WY (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 7

**DATE OF REVISION:** 11/30/2023

**REASON FOR REVISION:**

REQUIRED CHARTING- ADDED ENROUTE HIGH, CONTROLLER HIGH

COMPULSORY REPOINTING POINT- REMOVED LOW

FIX USE-REMOVED FAC 1 FROM IAP ILS OR LOC RWY 28, VOR RWY 10, VOR RWY 28

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

**OFFICE OF PRIMARY RESPONSIBILITY:**      AJV-A442      **NAME:** STEVEN OWNBEY

**APPROVED BY:**      **DATE:** 11/30/2023      **OFFICE:** AJV-A442      **NAME:** DAVID DANNER

**SIGNATURE:**      Digitally signed by  
**DAVID DANNER**  
 May 15, 2023



# RADIO FIX AND HOLDING DATA RECORD

**NAME:** DONNELLY VOR/DME **STATE:** ID **COUNTRY:** US **ICAO REGION CODE:** K1

**LATITUDE/LONGITUDE:** 444601.55N/1161222.60W **TYPE:**

**AIRSPACE DOCKET:** 89-ANM-12 **FIX TYPE OF ACTION:** CANCEL

**FIX MAKE-UP FACILITIES:**

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	MRA	MAA
1	DONNELLY	DNJ	VOR/DME	H						45000

**HOLDING:** **HOLDING TYPE OF ACTION:** CANCEL

**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	DNJ	VOR/DME	131.80	311.80	R	1	10400 14000	9 10

**CONTROLLING OBSTRUCTIONS:**

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	444226.00N/1161610.00W	8326	6A
1	310	AAO	445036.00N/1155730.00W	8439	4E

**HOLDING RESTRICTIONS:**

HOLDING LIMITED TO ESTABLISHED PATTERN.

**PROCEDURES REQUIRING CLIMB-IN-HOLD:**

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	MC CALL DEPARTURE	KMYL	MC CALL	ID (US)

**REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETE.

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	MC CALL DEPARTURE	1	1	KMYL	MC CALL	ID (US)
EN ROUTE	V121, V253, V269, V293, V298, J12, J20, J82	1				(US)
IAP	RNAV (GPS) RWY 16			KMYL	MC CALL	ID (US)
IAP	RNAV (GPS) RWY 34			KMYL	MC CALL	ID (US)

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

**COMPULSORY REPORTING POINT:** LOW/HIGH

**RECORD REVISION NUMBER:** 8 **DATE OF REVISION:** 10/12/2017

**REASON FOR REVISION:**

1. CHANGED FROM VORTAC TO VOR/DME.
2. UPDATED FIX USE - ADDED KMYL RNAV (GPS) RWY 16; DELETED KMYL NDB-A; REMOVED "Y" DESIGNATION FROM RNAV (GPS) RWY 34.

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
DEVELOPED BY:	DATE: 04/07/2017	OFFICE: AJV-A420	NAME: STEVE OWNBEY
APPROVED BY:	DATE: 11/30/2023	OFFICE: AJV-A420	NAME: DAVID DANNER

**SIGNATURE:** *Digitally signed by*

**DAVID DANNER**

**DISTRIBUTION:** NFDC  
FPO: WST  
ARTCC: ZLC  
ATC FACILITY:  
OTHER:  
May 15, 2023

QUALITY  
32  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: DORSE

STATE: MT

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 485941.66N/1144539.95W

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	CRANBROOK	YXC	VOR/DME	H	106.33	122.33	62.03	62.03		18000	45000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

U.S. BOUNDARY FIX

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE (US)
EN ROUTE	J569	1				

REQUIRED CHARTING: EN ROUTE HIGH, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 11/30/2023

## REASON FOR REVISION:

FIX MAKE-UP FAC- ADDED DIST FROM FAC 62.03  
FIX USE-REMOVED J589, ADDED J569 TO FIX USE AND ADDED FAC 1  
REQUIRED CHARTING-CHANGED CONTROLLER TO CONTROLLER HIGH  
REMARKS- ADDED U.S. BOUNDARY FIX

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A442

NAME: STEVEN OWNBEY

APPROVED BY:

DATE: 11/30/2023

OFFICE: AJV-A442

NAME: DAVID DANNER

SIGNATURE:

*Digitally signed by*

**DAVID DANNER**

May 15, 2023

QUALITY  
32  
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# RADIO FIX AND HOLDING DATA RECORD

NAME: ONEAL

STATE: MT

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 490000.00N/1145605.26W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

**REMARKS:**

FOR USE BY SEA ARTCC AND CALGARY CONTROL OF INTER-FACILITY FLIGHT PLAN DATA AND CONTROL INFORMATION.  
U.S. BOUNDARY FIX.

**FIX USE:**

USE TYPE  
EN ROUTE

USE TITLE  
J537

FAC

PAT

AIRPORT IDENT

CITY

STATE  
(US)

REQUIRED CHARTING: EN ROUTE HIGH, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 11/30/2023

**REASON FOR REVISION:**

REQUIRED CHARTING-CHANGED CONTROLLER TO CONTROLLER HIGH  
REMARKS-DELETED 2.D. ARTCC REQUEST, ADDED U.S. BOUNDARY FIX

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A442

NAME: STEVEN OWNBEY

APPROVED BY:

DATE: 11/30/2023

OFFICE: AJV-A442

NAME: DAVID DANNER

SIGNATURE:

*Digitally signed by*

**DAVID DANNER**

May 15, 2023

QUALITY  
32  
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# RADIO FIX AND HOLDING DATA RECORD

NAME: SHERIDAN VOR/DME STATE: WY COUNTRY: US ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 445032.28N/1070339.96W 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	FEET	MRA	MAA
1	SHERIDAN	SHR	VOR/DME	L							17500

HOLDING: HOLDING TYPE OF ACTION: MODIFY

## PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG TIME	LENGTH DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	NW	SHR	VOR/DME	301.77	121.77	L	1		7000	17500	8	16
2	NW	SHR	VOR/DME	316.00	136.00	L	1		7000	17500	8	16
3	NW		WP	313.00	133.00	L		7	7300	12000	9	10

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	450210.03N/1071134.54W	5650	2C
1	310	AAO	445130.00N/1072433.00W	8061	4E
2	230	AAO	450210.03N/1071134.54W	5650	2C
2	310	AAO	450210.03N/1071134.54W	5650	2C
3	230	AAO	450212.00N/1071133.00W	5650	4E
3	310	AAO	444639.00N/1071636.00W	6703	4E

## PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
2	310	260
3	310	300

## REASON FOR NONSTANDARD HOLDING:

PAT 1 TERRAIN  
PAT 2 TERRAIN  
PAT 3 TERRAIN

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S)

## PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	VOR RWY 15	KSHR	SHERIDAN	WY (US)
2	ILS OR LOC/DME RWY 33	KSHR	SHERIDAN	WY (US)
3	RNAV (GPS) RWY 33	KSHR	SHERIDAN	WY (US)

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
PAT 1 310 KT CONTROLLING OBSTACLE LOCATED 1.96NM INTO SECONDARY, PRIMARY EQUIVALENT : 5906 MSL.  
PAT 3, 310K OBSTACLE IN SECONDARY AREA, FULL ROC TAKEN.  
FACILITY MAGVAR E10.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BILLINGS			KBIL	BILLINGS	MT (US)
DP	BILLINGS			6S8	LAUREL	MT (US)
DP	TAKEOFF MINIMUMS			KBYG	BUFFALO	WY (US)
DP	CASPER			KCPR	CASPER	WY (US)
DP	TAKEOFF MINIMUMS		2	KSHR	SHERIDAN	WY (US)
EN ROUTE	V247					(US)
EN ROUTE	V536					(US)
EN ROUTE	V611					(US)
EN ROUTE	V86					(US)
IAP	ILS OR LOC/DME RWY 33		2	KSHR	SHERIDAN	WY (US)
IAP	RNAV (GPS) RWY 15			KSHR	SHERIDAN	WY (US)
IAP	RNAV (GPS) RWY 33		3	KSHR	SHERIDAN	WY (US)
IAP	VOR RWY 15		1	KSHR	SHERIDAN	WY (US)

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

COMPULSORY REPORTING POINT: LOW

RECORD REVISION NUMBER: 12

DATE OF REVISION: 11/30/2023

REASON FOR REVISION:

QUALITY  
32  
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ADDED COMPULSORY REPORTING POINT LOW  
FIX USE, ADDED SID BILLINGS AT BILLINGS MT AND LAUREL MT, CASPER AT CASPER WY. DELETED IAP TAKEOFF MINIMUMS SHERIDAN  
HOLDING- PAT 1 LEG LENGTH CHANGED FROM 1- 1 1/2 TO 1, PAT 2 LEG LENGTH CHANGED FROM 1- 1 1/2 TO 1  
HOLDING CONTROLLING OBS- PAT 3 230 ADDED AC 4E, PAT 3 310 ADDED AC 4E  
REMARKS-REMOVED HOLDING PAT 3 CONTROLLING OBSTACLES-IPDS DERIVED ACCURACY

<b>INITIATED BY:</b>	<b>DATE:</b>	<b>ORGANIZATION:</b>	<b>NAME:</b>
<b>OFFICE OF PRIMARY RESPONSIBILITY:</b>		AJV-A442	<b>NAME:</b> STEVEN OWNBEY
<b>APPROVED BY:</b>	<b>DATE:</b> 11/30/2023	<b>OFFICE:</b> AJV-A442	<b>NAME:</b> DAVID DANNER
<b>SIGNATURE:</b>	<i>Digitally signed by</i> <b>DAVID DANNER</b> May 15, 2023		

QUALITY  
32  
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# RADIO FIX AND HOLDING DATA RECORD

NAME: SHONK STATE: MT COUNTRY: US ICAO REGION CODE: K1  
 LATITUDE/LONGITUDE: 475723.19N/1103944.98W TYPE: INT, 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	LEWISTOWN	LWT	VOR/DME	VH	307.00	322.00	69.20	69.20	7700	17500
2	GREAT FALLS	GTF	VORTAC	H	028.70	044.70	42.98	42.98	6200	17500

## EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
LWT	VOR/DME	R-307	70	7700	9200
GTF	VORTAC	R-029	43	6200	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	SW	GTF	VORTAC	028.70	028.70	R	1	6200 17500	10 18

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	TERRAIN	480014.00N/1104139.00W	3499	6F

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN  
 HOLDING PATTERN RESTRICTED TO ATC REQUEST

## REMARKS:

LEWISTOWN (FAC 1) AND GREAT FALLS (FAC 2) USED TO ESTABLISH FIX COORDINATES.  
 PRECIPITOUS TERRAIN EVALUATION COMPLETED

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V257	1, 2				(US)
EN ROUTE	V611	1, 2				(US)

REQUIRED CHARTING: EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6 DATE OF REVISION: 11/30/2023

## REASON FOR REVISION:

FIX MAKE-UP FACILITIES- CHANGE FACILITY ORDER FROM FAC 1 GREAT FALLS (GTF) FAC 2 LEWISTON (LWT) TO FAC 1 LEWISTON (LWT) FAC 2 GREAT FALLS (GTF). LEWISTOWN (LWT) CLASS CHANGED FROM H TO VH, ADDED DIST TO FAC 69.20, CHANGED MRA FROM 6000 TO 6200. GREAT FALLS (GTF) ADDED DISTANCE TO FAC 42.98, CHANGED MRA/MAA FROM 6000 TO 7700  
 FIX USE- ADDED ENROUTE V611, FAC 1, 2. DELETED V19. ADDED ENROUTE V257 FAC 1, 2  
 REQUIRED CHARTING- ADDED CONTROLLER LOW  
 REMARKS- ADDED PRECIPITOUS TERRAIN EVALUATION COMPLETED, LEWISTOWN (FAC 1) AND GREAT FALLS (FAC 2) USED TO ESTABLISH FIX COORDINATES  
 HOLDING- CHANGED LEG LENGTH FROM 1-1 1/2 TO 1. DELETED 10 NM LEG LENGTH. CHANGED HOLDING ALTITUDES MIN FROM 6000 TO 6200. CHANGED HOLDING TEMPLATES FROM MIN 7 MAX 15 TO MIN 10 MAX 18.  
 HOLDING RESTRICTION- ADDED HOLDING LIMITED TO ESTABLISHED PATTERN, HOLDING PATTERN RESTRICTED TO ATC REQUEST  
 ADDED ESV- GTF VORTAC R029 43 6200 17500, LWT VOR/DME R307 70 7700 9200

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
OFFICE OF PRIMARY RESPONSIBILITY:		AJV-A442	NAME: STEVEN OWNBEY
APPROVED BY:	DATE: 11/30/2023	OFFICE: AJV-A442	NAME: DAVID DANNER
SIGNATURE:	Digitally signed by <b>DAVID DANNER</b> May 15, 2023		





# RADIO FIX AND HOLDING DATA RECORD

NAME: SWANY

STATE: WA

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 460933.96N/1210433.32W

TYPE: INT, 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	YAKIMA	YKM	VORTAC	H	206.00	227.00	36.00	36.00		8500	17500
2	KLICKITAT	LTJ	VOR/DME	VH	341.22	002.22		26.78		10000	17500

## FIX RESTRICTIONS:

MCA V468 11500 SOUTHWESTBOUND

## HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

YAKIMA (FAC 1) AND KLINKITAT (FAC 2) USED TO ESTABLISH FIX COORDINATES.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V468	1, 2				(US)

REQUIRED CHARTING: EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 11/30/2023

## REASON FOR REVISION:

FIX MAKE-UP- KLINKITAT (LTJ) CLASS CHANGED FROM H TO VH  
REQUIRED CHARTING- CHANGED CONTROLLER TO CONTROLLER LOW  
REMARKS- DELETED 7000 MIN COMM ALTITUDE FOR GNSS APPLICATION  
ADDED FIX RESTRICTION MCA 11500 SOUTHWESTBOUND

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A442

NAME: STEVEN OWNBEY

APPROVED BY:

DATE: 11/30/2023

OFFICE: AJV-A442

NAME: DAVID DANNER

SIGNATURE:

*Digitally signed by*

**DAVID DANNER**

May 15, 2023

QUALITY  
32  
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# RADIO FIX AND HOLDING DATA RECORD

NAME: SWITZ

STATE: UT

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 412842.83N/1125525.94W

TYPE: INT, 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	FEET	MRA	MAA
1	WASATCH	TCH	VORTAC	H	295.74	311.74	56.94	56.94		11500	17500
2	LUCIN	LCU	VORTAC	VH	063.19	080.19		41.96		13000	17500

## EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
TCH	VORTAC	R-296	57	11500	17500
LCU	VORTAC	R-063	42	13000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

WASATCH (FAC 1) AND LUCIN (FAC 2) USED TO ESTABLISH FIX COORDINATES.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V288	1, 2				(US)
EN ROUTE	V484	1, 2				(US)

REQUIRED CHARTING: EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 11/30/2023

## REASON FOR REVISION:

FIX MAKE-UP FAC- ADDED TCH DIST FROM FAC 56.94, CHANGED MRA FROM 10500 TO 11500 , CHANGED LCU CLASS FROM H TO VH, ADDED LCU DIST FROM FAC 41.96, CHANGED MRA FROM 10500 TO 13000  
ADDED ESV- TCH R-296 57 11500 17500, LCU R063 42 1300 17500  
REMARKS- ADDED WASATCH (FAC 1) AND LUCIN (FAC 2) USED TO ESTABLISH FIX COORDINATES  
FIX USE-ADDED USE TITLE V288, FAC 1,2, ADDED USE TITLE V484, FAC 1,2  
REQUIRED CHARTING- ADDED CONTROLLER LOW

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A442

NAME: STEVEN OWNBEY

APPROVED BY:

DATE: 11/30/2023

OFFICE: AJV-A442

NAME: DAVID DANNER

SIGNATURE: Digitally signed by

DAVID DANNER

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