

# RADIO FIX AND HOLDING DATA RECORD

NAME: ALENS

STATE: SD

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 453402.62N/1012501.87W

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	FAC FEET	MRA	MAA
1	DUPREE	DPR	VOR/DME	VH	013.14	023.14	31.95	31.95		4700	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V169	1				(US)
IAP	RNAV (GPS) RWY 12			KMBG	MOBRIDGE	SD (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 11/30/2023

## REASON FOR REVISION:

1. TYPE: ADDED WP.
2. FIX MAKE-UP: FAC DPR CLASS CHANGED FROM H TO VH AND ADDED DIST FROM FAC NM.
3. FIX USE: ADDED FAC 1 TO V169.
4. FIX USE: REMOVED GPS RWY 29 AT KLEM.
5. CHARTING: ADDED CONTROLLER LOW.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A442

NAME: TARA MARTINELLI

APPROVED BY:

DATE: 11/30/2023

OFFICE: AJV-A442

NAME: DAVID DANNER

SIGNATURE:

*Digitally signed by*

**DAVID DANNER**

Jul 18, 2023

QUALITY  
32  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: BEEHI

STATE: WA

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 471852.33N/1201602.42W

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	WENATCHEE	EAT	VOR/DME	L	189.29	204.29	5.61	5.61		8600	17500
2	EPHRATA	EPH	VORTAC	VH	243.00	264.00		34.62		8600	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

WENATCHEE (FAC 1) AND EPHRATA (FAC 2) USED TO ESTABLISH FIX COORDINATES.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V25	1, 2				(US)

REQUIRED CHARTING: EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 11/30/2023

## REASON FOR REVISION:

1. FIX MAKE-UP: CHANGED FAC EAT MAG/TRUE BRG FROM 185.30/204.30 TO 189.29/204.29 AND ADDED DIST FROM FAC NM.
2. FIX MAKE-UP: CHANGED FAC EPH CLASS FROM H TO VH AND ADDED DIST FROM FAC NM.
3. REMARKS: ADDED NOTE WENATCHEE (FAC 1) AND EPHRATA (FAC 2) USED TO ESTABLISH FIX COORDINATES.
4. FIX USE: REFORMATTED V25.
5. FIX USE: REMOVED VOR-A AND VOR-B AT KEAT.
6. CHARTING: ADDED CONTROLLER LOW AND REMOVED IAP.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A442

NAME: TARA MARTINELLI

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# RADIO FIX AND HOLDING DATA RECORD

NAME: CATGA

STATE: MI

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 462819.54N/0842801.53W

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	SAULT STE MARIE	SSM	VOR/DME	VH	303.74	299.74	7.27	7.27		3000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V300	1		KCIU	SAULT STE MARIE	(US)
IAP	RNAV (GPS) RWY 16					MI (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 11/30/2023

## REASON FOR REVISION:

1. FIX MAKE-UP: CHANGED FAC SSM CLASS FROM H TO VH.
2. CHARTING: CHANGED CONTROLLER TO CONTROLLER LOW.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

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AJV-A442

NAME: TARA MARTINELLI

APPROVED BY:

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Jul 18, 2023

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# RADIO FIX AND HOLDING DATA RECORD

NAME: CHANG

STATE: WY

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 440022.54N/1054446.10W

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	GILLETTE	GCC	VOR/DME	VH	194.20	203.20	22.28	22.28		7200	17500
2	CRAZY WOMAN	CZI	VOR/DME	VH	076.01	089.01		29.87		7200	17500

HOLDING:

HOLDING TYPE OF ACTION: CANCEL

## REMARKS:

GILLETTE (FAC 1) AND CRAZY WOMAN (FAC 2) USED TO ESTABLISH FIX COORDINATES.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE (US)
EN ROUTE	V298	1, 2				

REQUIRED CHARTING: EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 11/30/2023

## REASON FOR REVISION:

1. FIX MAKE-UP: ADDED DIST FROM FAC NM AND CHANGE CLASS FROM H TO VH TO FAC'S GCC AND GZI.
2. FIX MAKE-UP: GCC MAG BRG CHANGED FROM 191.20 TO 194.20.
3. HOLDING PATTERN: REMOVED HOLDING PATTERN AND ALL ASSOCIATED NOTES.
4. REMARKS: ADDED NOTE GILLETTE (FAC 1) AND CRAZY WOMAN (FAC 2) USED TO ESTABLISH FIX COORDINATES.
4. FIX USE: REFORMATTED V298 AND ADDED FAC 1 AND 2.
5. CHARTING: ADDED CONTROLLER LOW.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A442

NAME: TARA MARTINELLI

APPROVED BY:

DATE: 11/30/2023

OFFICE: AJV-A442

NAME: DAVID DANNER

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Jul 18, 2023

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# RADIO FIX AND HOLDING DATA RECORD

**NAME:** CORONA VORTAC **STATE:** NM **COUNTRY:** US **ICAO REGION CODE:** K2

**LATITUDE/LONGITUDE:** 342201.26N/1054040.82W **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	CORONA	CNX	VORTAC	H						45000

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

**REMARKS:**

ASSIGNED FACILITY MAGVAR: 13 DEGREES EAST.

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BALDY			KPHX	PHOENIX	AZ (US)
DP	CORONA (OBSTACLE) (RNAV)			KALM	ALAMOGORDO	NM (US)
DP	ALBUQUERQUE			KABQ	ALBUQUERQUE	NM (US)
DP	WORTH			KGKY	ARLINGTON	TX (US)
DP	WORTH			KADS	DALLAS	TX (US)
DP	COYOTE			KDAL	DALLAS	TX (US)
DP	LOVE			KDAL	DALLAS	TX (US)
DP	WORTH			KDAL	DALLAS	TX (US)
DP	WORTH			KRBD	DALLAS	TX (US)
DP	WORTH			KTKI	DALLAS	TX (US)
DP	COYOTE			KDFW	DALLAS-FORT WORTH	TX (US)
DP	WORTH			KDFW	DALLAS-FORT WORTH	TX (US)
DP	WORTH			KDTO	DENTON	TX (US)
DP	WORTH			KAFW	FORT WORTH	TX (US)
DP	WORTH			KFTW	FORT WORTH	TX (US)
DP	WORTH			KFWS	FORT WORTH	TX (US)
DP	WORTH			KNFW	FORT WORTH	TX (US)
DP	WORTH			KGPM	GRAND PRAIRIE	TX (US)
DP	WORTH			KLNC	LANCASTER	TX (US)
DP	WORTH			KHQZ	MESQUITE	TX (US)
EN ROUTE	J15					(US)
EN ROUTE	J74					(US)
EN ROUTE	Q20					(US)
EN ROUTE	V263					(US)
EN ROUTE	V264					(US)
EN ROUTE	V291					(US)
EN ROUTE	V68					(US)
EN ROUTE	V83					(US)
IAP	RNAV (GPS) RWY 4			KALM	ALAMOGORDO	NM (US)
STAR	MIERA			KABQ	ALBUQUERQUE	NM (US)

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

**COMPULSORY REPORTING POINT:** LOW

**RECORD REVISION NUMBER:** 12 **DATE OF REVISION:** 11/30/2023

**REASON FOR REVISION:**

1. FIX USE: CHANGED CORONA (RNAV) TO CORONA (OBSTACLE) (RNAV) AT KALM.
2. COMPULSORY REPORTING POINT: CHANGED FROM NO TO LOW.

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

**OFFICE OF PRIMARY RESPONSIBILITY:** AJV-A442 **NAME:** TARA MARTINELLI

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

**SIGNATURE:**  
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**DAVID DANNER**  
 Jul 18, 2023



# RADIO FIX AND HOLDING DATA RECORD

NAME: DUNKE

STATE: SC

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 344954.23N/0821240.51W

TYPE: WP, 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	SPARTANBURG	SPA	VORTAC	H	231.30	229.30	18.52	18.52	2900	17500
2	SUGARLOAF MOUNTAIN	SUG	VORTAC	L	177.30	175.30		34.55	2900	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	NE	SPA	VORTAC	231.30	231.30	R	1		2900	17500	6	18

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	345027.00N/0821830.00W	1395	4E

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

## REMARKS:

SPARTANBURG (FAC 1) AND SUGARLOAF MOUNTAIN (FAC 2) USED TO ESTABLISH FIX COORDINATES.  
CHART ON SECTIONAL - ATC REQUEST.  
HOLDING FOR ATC USE (DO NOT CHART).  
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	T209					(US)
EN ROUTE	V266	1, 2				(US)

REQUIRED CHARTING: SECTIONAL, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 10

DATE OF REVISION: 11/30/2023

## REASON FOR REVISION:

FIX MAKE-UP: ADDED DME TO FAC SPA AND REMOVED DME FROM FAC SUG.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A442

NAME: TARA MARTINELLI

APPROVED BY:

DATE: 11/30/2023

OFFICE: AJV-A442

NAME: DAVID DANNER

SIGNATURE:

*Digitally signed by*

**DAVID DANNER**

Jul 18, 2023

QUALITY  
32  
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# RADIO FIX AND HOLDING DATA RECORD

NAME: GAMMS

STATE: LA

COUNTRY: US

ICAO REGION CODE: K4

LATITUDE/LONGITUDE: 323643.04N/0924038.41W

TYPE: WP, 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 NM	FAC FEET	MRA	MAA
1	MONROE	MLU	VORTAC	VL	277.10	280.10	33.01	33.01		2000	17500
2	EL DORADO	ELD	VOR/DME	VH	168.00	175.00		38.72		2000	17500

HOLDING:

HOLDING TYPE OF ACTION: CANCEL

## REMARKS:

MONROE (FAC 1) AND EL DORADO (FAC 2) USED TO ESTABLISH FIX COORDINATES.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE (US)
EN ROUTE	V18	1, 2				

REQUIRED CHARTING: EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8

DATE OF REVISION: 11/30/2023

## REASON FOR REVISION:

THIS FIX WAS INADVERTENTLY CANCELLED IN 2011 BUT IS STILL ACTIVE IN NASR. FIX REACTIVATED AND CHANGES ARE FROM REV 7 TO REV 8.

1. FIX MAKE-UP: REMOVED FAC SUTRE.
2. FIX MAKE-UP: ADDED DISTANCE FROM FAC NM TO FAC MLU AND ELD.
3. PATTERNS: REMOVED PAT 1 AND ALL ASSOCIATED NOTES.
4. REMARKS: ADDED NOTE: MONROE (FAC 1) AND EL DORADO (FAC 2) USED TO ESTABLISH FIX COORDINATES.
5. FIX USE: REFORMATTED V18 AND ADDED FAC 1 AND 2.
6. FIX USE: REMOVED RNAV (GPS) RWY 30 AND NDB RWY 12 AT 5F4.
7. CHARTING: REMOVED IAP AND ADDED CONTROLLER LOW.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A442

NAME: TARA MARTINELLI

APPROVED BY:

DATE: 11/30/2023

OFFICE: AJV-A442

NAME: DAVID DANNER

SIGNATURE:

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**DAVID DANNER**

Jul 18, 2023

QUALITY  
32  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: KRANT

STATE: DC

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 385506.80N/0765756.31W

TYPE: WP, 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 NM	FAC FEET	MRA	MAA
1	WESTMINSTER	EMI	VORTAC	H	187.00	179.00	34.56	34.56		2000	17500
2	BALTIMORE	BAL	VORTAC	L	234.33	223.33		20.77		2000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

WESTMINSTER (FAC 1) AND BALTIMORE (FAC 2) USED TO ESTABLISH FIX COORDINATES.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE (US)
EN ROUTE	V265	1, 2				

REQUIRED CHARTING: AREA, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 11/30/2023

## REASON FOR REVISION:

1. STATE: CHANGED STATE FROM MD TO DC.
2. FIX MAKE-UP: ADDED DIST FROM FAC NM TO FAC'S EMI AND BAL.
3. REMARKS: REMOVED NOTE MAG VAR: EMI 8W, BAL 11W, OTT 10W, DCA 9W.
4. REMARKS: ADDED NOTE WESTMINSTER (FAC 1) AND BALTIMORE (FAC 2) USED TO ESTABLISH FIX COORDINATES.
5. FIX USE: REMOVED ENROUTE SPECIAL RNAV ROUTE PHL - DCA AND VOR/DME RNAV RWY 33 AT KDCA.
6. FIX USE: ADDED V265.
7. CHARTING: ADDED CONTROLLER LOW AND REMOVED IAP.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A442

NAME: TARA MARTINELLI

APPROVED BY:

DATE: 11/30/2023

OFFICE: AJV-A442

NAME: DAVID DANNER

SIGNATURE:

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Jul 18, 2023

QUALITY  
32  
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# RADIO FIX AND HOLDING DATA RECORD

NAME: LORAT

STATE: NM

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 350839.44N/1071641.32W

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	ALBUQUERQUE	ABQ	VORTAC	VH	271.96	284.96	23.52	23.52		9500	45000
2	SOCORRO	ONM	VORTAC	VH	322.00	335.00		53.29		9500	45000

## FIX RESTRICTIONS:

MCA V291 12400 WESTBOUND

## HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

ALBUQUERQUE (FAC 1) USED TO ESTABLISH FIX COORDINATES.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	J72	1, 2				(US)
EN ROUTE	V291	1, 2				(US)
IAP	RNAV (GPS) Y RWY 8			KABQ	ALBUQUERQUE	NM (US)
IAP	RNAV (GPS) RWY 4			KAEG	ALBUQUERQUE	NM (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 11/30/2023

## REASON FOR REVISION:

1. FIX MAKE-UP: CHANGED FAC ABQ AND ONM CLASS FROM H TO VH AND CHANGED MAA FROM 23000 TO 45000.
2. FIX RESTRICTIONS: ADDED MCA V291 12400 WESTBOUND.
3. FIX USE: CHANGED RNAV (GPS) RWY 4 AIRPORT ID FROM KABQ TO KAEG.
4. FIX USE: ADDED IAP RNAV (GPS) Y RWY 8 AT KABQ.
5. CHARTING: CHANGED CONTROLLER TO CONTROLLER LOW AND ADDED CONTROLLER HIGH.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A442

NAME: TARA MARTINELLI

APPROVED BY:

DATE: 11/30/2023

OFFICE: AJV-A442

NAME: DAVID DANNER

SIGNATURE:

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Jul 18, 2023

QUALITY  
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# RADIO FIX AND HOLDING DATA RECORD

NAME: NAASH

STATE: MI

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 460130.89N/0833212.85W

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	SAULT STE MARIE	SSM	VOR/DME	VH	129.34	125.34	39.87	39.87		3000	17500
2	PELLSTON	PLN	VORTAC	L	069.00	063.00		52.89		1000	17500

## EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
PLN	VORTAC	R-069	53	1000	17500

HOLDING:

HOLDING TYPE OF ACTION: CANCEL

## REMARKS:

SAULT STE MARIE (FAC 1) AND PELLSTON (FAC 2) USED TO ESTABLISH FIX COORDINATES.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V300	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:

1. CHANGED LAT/LONG FROM 460130.76N/0833212.99W TO 460130.89N/0833212.85W.
2. TYPE: ADDED DME.
3. FIX MAKE-UP: CHANGED FAC SSM CLASS FROM H TO VH AND ADDED DME.
4. REMOVED UNPLANNED HOLDING AND ALL ASSOCIATED NOTES.
5. REMARKS: ADDED NOTE SAULT STE MARIE (FAC 1) AND PELLSTON (FAC 2) USED TO ESTABLISH FIX COORDINATES.
6. FIX USE: ADDED V300.
7. CHARTING: ADDED CONTROLLER LOW AND REMOVED IAP.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A442

NAME: TARA MARTINELLI

APPROVED BY:

DATE: 11/30/2023

OFFICE: AJV-A442

NAME: DAVID DANNER

SIGNATURE:

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# RADIO FIX AND HOLDING DATA RECORD

NAME: OLODE

STATE: OR

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 455140.42N/1185921.79W

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	FAC FEET	MRA	MAA
1	PENDLETON	PDT	VORTAC	VH	333.73	347.73	10.00	10.00		4000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V298	1				(US)
IAP	VOR RWY 8	1		KPDT	PENDLETON	OR (US)
IAP	RNAV (RNP) Z RWY 30			KPSC	PASCO	WA (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 11/30/2023

## REASON FOR REVISION:

FIX MAKE-UP: CHANGED PDT MAG/TRUE BRG FROM 333.33/347.33 TO 333.73/347.73 AND CHANGED CLASS FROM H TO VH.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A442

NAME: TARA MARTINELLI

APPROVED BY:

DATE: 11/30/2023

OFFICE: AJV-A442

NAME: DAVID DANNER

SIGNATURE:

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**DAVID DANNER**

Jul 18, 2023

QUALITY  
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# RADIO FIX AND HOLDING DATA RECORD

NAME: RACEY

STATE: CT

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 412500.95N/0731138.11W

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	CARMEL	CMK	VOR/DME	L	076.76	064.76	19.33	19.33	2000	17500
2	PAWLING	PWL	VOR/DME	L	151.00	139.00		27.98	2000	17500

HOLDING:

HOLDING TYPE OF ACTION: CANCEL

## REMARKS:

CARMEL (FAC 1) AND PAWLING (FAC 2) USED TO ESTABLISH FIX COORDINATES.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE (US)
EN ROUTE	V3	1, 2				

REQUIRED CHARTING: EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 11/30/2023

## REASON FOR REVISION:

1. FIX MAKE-UP: CMK TYPE CHANGED FROM VORTAC TO VOR/DME, CHANGED MAG BRG FROM 077.00 TO 076.76, ADDED TRUE BRG, CHANGED DME FROM 19.00 TO 19.33 AND ADDED DIST FROM FAC NM.
2. FIX MAKE-UP: PWL TYPE CHANGED FROM VORTAC TO VOR/DME, ADDED TRUE BRG, REMOVED DME AND ADDED DIST FROM FAC NM.
3. REMOVED PAT 1 AND 2 AND ALL ASSOCIATED NOTES.
4. REMARKS: REMOVED NOTE HOLDING PATTERN DEPICTION ON ENROUTE CHARTS NOT REQUIRED.
5. REMARKS: ADDED NOTE CARMEL (FAC 1) AND PAWLING (FAC 2) USED TO ESTABLISH FIX COORDINATES.
6. FIX USE: REMOVED ALL FIX USE EXCEPT V3.
7. CHARTING: REMOVED DP, IAP AND ADDED CONTROLLER LOW.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A442

NAME: TARA MARTINELLI

APPROVED BY:

DATE: 11/30/2023

OFFICE: AJV-A442

NAME: DAVID DANNER

SIGNATURE:

*Digitally signed by*

**DAVID DANNER**

Jul 18, 2023

QUALITY  
32  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: RAINE

STATE: MI

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 423141.10N/0863020.37W

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	PULLMAN	PMM	VOR/DME	H	281.95	281.95	18.18	18.18		2400	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

V170 AIRWAY UNUSABLE, DO NOT REMOVE FAC PMM AND V170 FROM FIX USE UNTIL THE AIRWAY IS CANCELLED.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V170	1		KLWA	SOUTH HAVEN	(US)
IAP	RNAV (GPS) RWY 23					MI (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 9

DATE OF REVISION: 11/30/2023

## REASON FOR REVISION:

1. TYPE: ADDED DME.
2. FIX MAKE-UP: ADDED FAC PMM.
3. REMARKS: ADDED NOTE V170 AIRWAY UNUSABLE, DO NOT REMOVE FAC PMM AND V170 FROM FIX USE UNTIL THE AIRWAY IS CANCELLED.
4. FIX USE: ADDED V170.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A442

NAME: TARA MARTINELLI

APPROVED BY:

DATE: 11/30/2023

OFFICE: AJV-A442

NAME: DAVID DANNER

SIGNATURE:

*Digitally signed by*

**DAVID DANNER**

Jul 18, 2023

QUALITY  
32  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: RIBIR

STATE: MI

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 461855.90N/0840707.50W

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	SAULT STE MARIE	SSM	VOR/DME	VH	129.36	125.36	10.00	10.00		2500	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V300	1				(US)

REQUIRED CHARTING: EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 11/30/2023

REASON FOR REVISION:

FIX MAKE-UP: CHANGED SSM CLASS FROM H TO VH.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A442

NAME: TARA MARTINELLI

APPROVED BY:

DATE: 11/30/2023

OFFICE: AJV-A442

NAME: DAVID DANNER

SIGNATURE:

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**DAVID DANNER**

Jul 18, 2023

QUALITY  
32  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: TEKOE

STATE: MT

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 465621.31N/1101358.88W

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	GREAT FALLS	GTF	VORTAC	VH	106.00	122.00	57.16	57.16		13000	17500
2	LEWISTOWN	LWT	VOR/DME	VH	240.38	255.38	26.63	26.63		11100	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

GREAT FALLS (FAC 1) USED TO ESTABLISH FIX COORDINATES.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V113	2				(US)
EN ROUTE	V187	1				(US)
IAP	RNAV (GPS) RWY 9			KHWQ	HARLOWTON	MT (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:

1. FIX MAKE-UP: ADDED FAC GTF.
2. FIX MAKE-UP: CHANGED FAC LWT CLASS FROM H TO VH.
3. REMARKS: ADDED GREAT FALLS (FAC 1) USED TO ESTABLISH FIX COORDINATES.
4. FIX USE: ADDED FAC 2 TO V113 AND FAC 1 V187.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A442

NAME: TARA MARTINELLI

APPROVED BY:

DATE: 11/30/2023

OFFICE: AJV-A442

NAME: DAVID DANNER

SIGNATURE:

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**DAVID DANNER**

Jul 18, 2023

QUALITY  
32  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: TOBE VOR/DME

STATE: CO

COUNTRY: US

ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 371531.17N/1033600.20W

TYPE:

AIRSPACE DOCKET:

FIX TYPE OF ACTION: CANCEL

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	TOBE	TBE	VOR/DME	L							45000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	SPRINGS			KCOS	COLORADO SPRINGS	CO (US)
DP	CANYON			KPUB	PUEBLO	CO (US)
EN ROUTE	J17					(US)
EN ROUTE	J171					(US)
EN ROUTE	V169					(US)
EN ROUTE	V263					(US)
EN ROUTE	V81					(US)
STAR	DEBERRY			KCOS	COLORADO SPRINGS	CO (US)

REQUIRED CHARTING: DP, STAR, EN ROUTE LOW, EN ROUTE HIGH, CONTROLLER LOW, CONTROLLER HIGH

COMPULSORY REPORTING POINT: LOW

RECORD REVISION NUMBER: 10

DATE OF REVISION: 03/26/2020

REASON FOR REVISION:

REMOVED DP SPAZZ (RNAV) AT KAPA, KBJC, KCFO, KDEN, AND KFNL FROM FIX USE.  
ADDED CONTROLLER LOW AND CONTROLLER HIGH TO REQUIRED CHARTING.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

NAME:

APPROVED BY:

DATE: 11/30/2023

OFFICE: AJV-A442

NAME: DAVID DANNER

SIGNATURE:

*Digitally signed by*

**DAVID DANNER**

DISTRIBUTION:

NFDC  
FPO: WST  
ARTCC: ZDV  
ATC FACILITY:  
OTHER:

Jul 18, 2023

QUALITY  
32  
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# RADIO FIX AND HOLDING DATA RECORD

NAME: VANER STATE: NJ COUNTRY: US ICAO REGION CODE: K6  
 LATITUDE/LONGITUDE: 403707.57N/0743500.77W TYPE: WP, 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	ROBBINSVILLE	RBV	VORTAC	H	000.80	350.80	25.29	25.29	2000	17500
2	YARDLEY	ARD	VOR/DME	L	044.02	034.02		26.47	2000	17500
3	SOLBERG	SBJ	VOR/DME	VL	083.45	073.45		7.54	2900	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	N		WP	001.00	181.00	R	1	2000 5000	4 5

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (31-0182)	403717.00N/0743014.00W	950	5E

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

## REMARKS:

ROBBINSVILLE (FAC 1) AND SOLBERG (FAC 3) USED TO ESTABLISH FIX COORDINATES.  
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V252	1, 2, 3				(US)
IAP	GPS-A		1	KLDJ	LINDEN	NJ (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 11/30/2023

## REASON FOR REVISION:

1. FIX MAKE-UP: RENUMBERED FAC'S PER CURRENT CRITERIA.
2. FIX MAKE-UP: REMOVED FAC BAUTZ AND ADDED DIST FROM FAC NM TO RBV, ARD AND SBJ.
3. FIX MAKE-UP: CHANGED SBJ CLASS FROM L TO VL AND CHANGED MAG/TRUE BRG FROM 083.43/073.43 TO 083.45/073.45.
4. MOVED NOTE HOLDING LIMITED TO ESTABLISHED PATTERN FROM REMARKS TO HOLDING RESTRICTIONS.
5. REMARKS: ADDED NOTE PRECIPITOUS TERRAIN EVALUATION COMPLETED.
6. FIX USE: REMOVED V403 AND ADDED V252.
7. FIX USE: REFORMATTED GPS-A AT KLDJ.
8. CHARTING: ADDED CONTROLLER LOW.

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
OFFICE OF PRIMARY RESPONSIBILITY:		AJV-A442	NAME: TARA MARTINELLI
APPROVED BY:	DATE: 11/30/2023	OFFICE: AJV-A442	NAME: DAVID DANNER

SIGNATURE: *Digitally signed by*  
**DAVID DANNER**  
 Jul 18, 2023

QUALITY  
32  
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