

RADIO FIX AND HOLDING DATA RECORD

NAME: BRAWL STATE: CA COUNTRY: US ICAO REGION CODE: K2

LATITUDE/LONGITUDE: 325414.98N/1153227.77W 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	THERMAL	TRM	VORTAC	VH	131.13	144.13	53.38	53.38		3700	17500
2	IMPERIAL	IPL	VORTAC	VH	336.00	350.00	9.44	9.44		3000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
TRM	VORTAC	R-131	54	3700	4900

HOLDING: HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

IMPERIAL (FAC 2) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE (US)
EN ROUTE	V137	1, 2				

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 FACILITIES: UPDATED FAC 1 (TRM) AND FAC 2 (IPL) CLASS FROM H TO VH; ADDED DIST TO FAC NM TO FAC 1 (TRM) AND FAC 2 (IPL); REMOVED FAC 3 (HENOM).

FIX RESTRICTION: REMOVED MRA 4500 PER 8260-2 SUBMISSION DATED 12/09/03 - DELETED BARD VORTAC FROM FACILITY 2 AND ADDED WP IN FAC 3. REMOVED FLAG MRA RESTRICTION FROM BLOCK 1E SINCE BARD VORTAC IS NO LONGER USED AS FIX MAKEUP AND PER 8260-16 DATED 12/09/03 REMOVED MRA FLAG.

ESV: ADDED TRM DATA.

REMARKS: ADDED IMPERIAL (FAC 2) USED TO ESTABLISH FIX COORDINATES.

FIX USE: REMOVED NOTE WP COLLOCATED WITH BRAWL. REFORMATTED V137.

REQUIRED CHARTING: ADDED CONTROLLER LOW.

INITIATED BY: DATE: ORGANIZATION: NAME:

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A442 NAME: DAN POWELL

APPROVED BY: DATE: 11/30/2023 OFFICE: AJV-A440 NAME: DAVID DANNER

SIGNATURE:

QUALITY
32
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: CFFQV

STATE: MN

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 483526.58N/0932815.38W

TYPE: CNF

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

NAME CHANGED FROM JGKGR TO CFFQV

FIX USE:

USE TYPE
EN ROUTE

USE TITLE
V161

FAC

PAT

AIRPORT IDENT

CITY

STATE
(US)

REQUIRED CHARTING: EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 11/30/2023

REASON FOR REVISION:

NAME CHANGED FROM JGKGR TO CFFQV TO COMPLY WITH CRITERIA.

REMARKS: REMOVED COMPUTER NAVIGATION FIX AND ADDED NAME CHANGED FROM JGKGR TO CFFQV.

REQUIRED CHARTING: CHANGED CONTROLLER TO CONTROLLER LOW.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A442

NAME: DAN POWELL

APPROVED BY:

DATE: 11/30/2023

OFFICE: AJV-A440

NAME: DAVID DANNER

SIGNATURE:



RADIO FIX AND HOLDING DATA RECORD

NAME: DLANY

STATE: MN

COUNTRY: US

ICAO REGION CODE: K3

LATITUDE/LONGITUDE: 435038.32N/0920437.36W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

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 MIN	ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	E		WP	080.40	260.40	R	4	3000	6000	5 6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (27-020473)	435258.00N/0920011.07W	1598	4D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 31			KRST	ROCHESTER	MN (US)
IAP	RNAV (GPS) RWY 34		1	55Y	RUSHFORD	MN (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:

FIX USE: REMOVED V170 AND V82 - NO GROUND BASE FIX MAKE-UP DUE TO VOR MON.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A442

NAME: DAN POWELL

APPROVED BY:

DATE: 11/30/2023

OFFICE: AJV-A440

NAME: DAVID DANNER

SIGNATURE:



RADIO FIX AND HOLDING DATA RECORD

NAME: HEDEN

STATE: OH

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 391644.88N/0840202.37W

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 FAC NM	FAC FEET	MRA	MAA
1	CINCINNATI	CVG	VORTAC	L	067.00	063.00	35.00	35.00		2800	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	T217					(US)
EN ROUTE	V19	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 FACILITIES: FAC 1 (CVG) ADDED DIST TO FAC NM.

FIX USE: ADDED V19.

REQUIRED CHARTING: ADDED CONTROLLER LOW.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A442

NAME: DAN POWELL

APPROVED BY:

DATE: 11/30/2023

OFFICE: AJV-A440

NAME: DAVID DANNER

SIGNATURE:



RADIO FIX AND HOLDING DATA RECORD

NAME: HERMO **STATE:** CA **COUNTRY:** US **ICAO REGION CODE:** K2

LATITUDE/LONGITUDE: 335132.35N/1182110.46W **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	SEAL BEACH	SLI	VORTAC	L	272.00	287.00	15.58	15.58		2000	17500
2	LOS ANGELES	LAX	VORTAC	H	123.32	138.32	5.94	5.94		2000	17500

FIX RESTRICTIONS:
MCA V25 2700 SOUTHEAST BOUND

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	E	SLI	VORTAC	272.00	272.00	L	1	3400 17500	4 14

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TREE	334633.00N/1182257.00W	1301	4E

REASON FOR NONSTANDARD HOLDING:
PAT 1 AVOID LAX INT'L AIRPORT APPROACH CORRIDOR.

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
SEAL BEACH (FAC 1) AND LOS ANGELES (FAC 2) USED TO ESTABLISH FIX COORDINATES.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
HOLDING FOR ATC USE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V165	1, 2				(US)
EN ROUTE	V23	1, 2				(US)
EN ROUTE	V25	1, 2				(US)

REQUIRED CHARTING: AREA, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7 **DATE OF REVISION:** 11/30/2023

REASON FOR REVISION:

FIX MAKE-UP FACILITIES: REMOVED FAC 3 (SXC) - FIX RESTRICTIONS; UPDATED FAC 1 (LAX) TO FAC 2, MAG/TRUE BRG FROM 123.00/138.00 TO 123.32/138.32 AND DME FROM 6.00 TO 5.94 AND ADDED DIST FROM FAC NM; UPDATED FAC 2 (SLI) TO FAC 1, DME FROM 16.00 TO 15.58 AND ADDED DIST FROM FAC NM.
HOLDING: UPDATED LEG LENGTH TIME FROM 1-1 1/2 TO 1 AND REMOVED DME, HOLDING ALTITUDES MIN/MAX FROM 2000/17000 TO 3400/17500, TEMPLATE MIN FROM 9 TO 4 AND ADDED TEMPLATE MAX 14 AND UPDATED CONTROLLING OBSTACLE DATA.
HOLDING RESTRICTIONS: ADDED HOLDING LIMITED TO ESTABLISHED PATTERN.
REMARKS: ADDED SEAL BEACH (FAC 1) AND LOS ANGELES (FAC 2) USED TO ESTABLISH FIX COORDINATES, PRECIPITOUS TERRAIN EVALUATION COMPLETED AND HOLDING FOR ATC USE. REMOVED THIRD FACILITY (SXC) REQUIRED TO MEET ANGLE CRITERIA FOR HOLDING.
FIX USE: ADDED V165, V23 AND V25.
REQUIRED CHARTING: ADDED CONTROLLER LOW.

INITIATED BY: **DATE:** **ORGANIZATION:** **NAME:**
OFFICE OF PRIMARY RESPONSIBILITY: AJV-A442 **NAME:** DAN POWELL
APPROVED BY: **DATE:** 11/30/2023 **OFFICE:** AJV-A440 **NAME:** DAVID DANNER
SIGNATURE:



RADIO FIX AND HOLDING DATA RECORD

NAME: HUGRA **STATE:** WI **COUNTRY:** US **ICAO REGION CODE:** K5
LATITUDE/LONGITUDE: 464530.64N/0915040.90W **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	MAA	MAA
								NM FEET		
1	DULUTH	DLH	VORTAC	VH	094.93	099.93	15.00	15.00	3500	17500

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V191	1				(US)
EN ROUTE	V430	1				(US)
IAP	VOR/DME OR TACAN RWY 21	1		KDLH	DULUTH	MN (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 11/30/2023

REASON FOR REVISION:

FIX MAKE-UP FACILITIES: UPDATED FAC 1 (DLH) CLASS FROM H TO VH.
FIX USE: REFORMATTED.
REQUIRED CHARTING: CHANGED CONTROLLER TO CONTROLLER LOW.

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
OFFICE OF PRIMARY RESPONSIBILITY:		AJV-A442	NAME: DAN POWELL
APPROVED BY:	DATE: 11/30/2023	OFFICE: AJV-A440	NAME: DAVID DANNER
	SIGNATURE:		



RADIO FIX AND HOLDING DATA RECORD

NAME: LAVAS

STATE: HI

COUNTRY: US

ICAO REGION CODE: PH

LATITUDE/LONGITUDE: 202926.05N/1562509.35W

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	MAUI	OGG	VORTAC	H	168.78	179.78	24.86	24.86		7000	45000
2	LANAI	LNJ	VORTAC	H	106.80	117.80	35.00	35.00		4300	45000

FIX RESTRICTIONS:

MRA V16 7000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

MAUI (FAC 1) AND LANAI (FAC 2) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	PPKEO (RNAV)			PHTO	HILO	HI (US)
DP	ONIZU (RNAV)			PHKO	KAILUA-KONA	HI (US)
EN ROUTE	V1	1, 2				(US)
EN ROUTE	V16	1, 2				(US)
STAR	MAKAH (RNAV)			PHNL	HONOLULU	HI (US)
STAR	SHLAE (RNAV)			PHNL	HONOLULU	HI (US)
STAR	LAVAS (RNAV)			PHOG	KAHULUI	HI (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 11

DATE OF REVISION: 11/30/2023

REASON FOR REVISION:

PER NFDC REQUEST, CORRECTED FIX RESTRICTIONS MRA FROM V1 TO V16 - MATCHES 8260-16'S.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A442

NAME: DAN POWELL

APPROVED BY:

DATE: 11/30/2023

OFFICE: AJV-A440

NAME: DAVID DANNER

SIGNATURE:



RADIO FIX AND HOLDING DATA RECORD

NAME: PYCAT **STATE:** PA **COUNTRY:** US **ICAO REGION CODE:** K6

LATITUDE/LONGITUDE: 402646.59N/0771721.34W **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	HARRISBURG	HAR	VORTAC	L	320.67	310.67	13.27	13.27		4000	17500
2	SELINSGROVE	SEG	VOR/DME	L	230.00	222.00		27.74		4000	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	NW	HAR	VORTAC	320.67	140.67	R	1	4400 17500	6 17

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	402906.00N/0772136.00W	2372	4E

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	200	90

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

HARRISBURG (FAC 1) AND SELINSGROVE (FAC 2) USED TO ESTABLISH FIX COORDINATES.
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.
 HOLDING FOR ATC USE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V184	1, 2				(US)
EN ROUTE	V265	1, 2				(US)
EN ROUTE	V33	1, 2				(US)

REQUIRED CHARTING: EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 11/30/2023

REASON FOR REVISION:

FIX MAKE-UP FACILITIES: UPDATED FAC 1 (HAR) MAG/TRUE BRG FROM 320.68/310.68 TO 320.67/310.67 AND ADDED DIST FROM FAC NM; UPDATED FAC 2 (SEG) TYPE FROM VORTAC TO VOR/DME, REMOVED DME AND ADDED DIST FROM FAC NM.
 HOLDING: REMOVED 170-175 KIAS HOLDING, UPDATED 200-230 TO 200, RAD/CRS/BRG AND CRS INBOUND FROM 321.00/141.00 TO 320.67/140.67, LEG LENGTH FROM TIME/DME 1/5 TO TIME 1, HOLDING ALTITUDES MIN FROM 4000 TO 4400, TEMPLATE MIN FROM 9 TO 6 AND ADDED MAX 17. UPDATED CONTROLLING OBSTRUCTION DATA AND ADDED PRECIPITOUS TERRAIN ADDITIONS.
 HOLDING RESTRICTIONS: ADDED HOLDING LIMITED TO ESTABLISHED PATTERN.
 REMARKS: ADDED HARRISBURG (FAC 1) AND SELINSGROVE (FAC 2) USED TO ESTABLISH FIX COORDINATES, PRECIPITOUS TERRAIN EVALUATION COMPLETED AND HOLDING FOR ATC USE. REMOVED TO BE USED IN THE EVENT OF HAR VORTAC FAILURE/SHUTDOWN (SUBSTITUTE ENROUTE FLIGHT PROCEDURE) AND MAGNETIC VARIATION: HAR 10°W, SEG 8°W.
 FIX USE: ADDED V184.
 REQUIRED CHARTING: ADDED CONTROLLER LOW.

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

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A442 **NAME:** DAN POWELL

APPROVED BY: **DATE:** 11/30/2023 **OFFICE:** AJV-A440 **NAME:** DAVID DANNER

SIGNATURE:



RADIO FIX AND HOLDING DATA RECORD

NAME: THURMAN VORTAC **STATE:** CO **COUNTRY:** US **ICAO REGION CODE:** K2

LATITUDE/LONGITUDE: 394153.94N/1031253.78W **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	THURMAN	TXC	VORTAC	L							45000

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	DENVER			KBKF	AURORA	CO (US)
DP	PLAINS			KBKF	AURORA	CO (US)
DP	DENVER			KAPA	DENVER	CO (US)
DP	PLAINS			KAPA	DENVER	CO (US)
DP	DENVER			KBJC	DENVER	CO (US)
DP	PLAINS			KBJC	DENVER	CO (US)
DP	DENVER			KCFO	DENVER	CO (US)
DP	PLAINS			KCFO	DENVER	CO (US)
DP	DENVER			KDEN	DENVER	CO (US)
DP	PLAINS			KDEN	DENVER	CO (US)
DP	DENVER			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	PLAINS			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	DENVER			KGXY	GREELEY	CO (US)
DP	PLAINS			KGXY	GREELEY	CO (US)
DP	CANYON			KPUB	PUEBLO	CO (US)
EN ROUTE	V148					(US)
EN ROUTE	V169					(US)
EN ROUTE	V4					(US)
IAP	RNAV (GPS) RWY 15			KITR	BURLINGTON	CO (US)
IAP	ILS OR LOC RWY 17			KCFO	DENVER	CO (US)
STAR	DANDD			KBKF	AURORA	CO (US)
STAR	QUAIL			KBKF	AURORA	CO (US)
STAR	DANDD			KAPA	DENVER	CO (US)
STAR	QUAIL			KAPA	DENVER	CO (US)
STAR	DANDD			KBJC	DENVER	CO (US)
STAR	QUAIL			KBJC	DENVER	CO (US)
STAR	DANDD			KCFO	DENVER	CO (US)
STAR	QUAIL			KCFO	DENVER	CO (US)
STAR	DANDD			KDEN	DENVER	CO (US)
STAR	QUAIL			KDEN	DENVER	CO (US)
STAR	DANDD			KFNL	FORT COLLINS/LOVELAND	CO (US)
STAR	QUAIL			KFNL	FORT COLLINS/LOVELAND	CO (US)
STAR	DANDD			KGXY	GREELEY	CO (US)
STAR	QUAIL			KGXY	GREELEY	CO (US)

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

COMPULSORY REPORTING POINT: LOW

RECORD REVISION NUMBER: 10 **DATE OF REVISION:** 11/30/2023

REASON FOR REVISION:
 HOLDING: CANCELED AND REMOVED ALL ASSOCIATED REMARKS.
 COMPULSORY REPORTING POINT: CHANGED FROM NO TO LOW.

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

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A442 **NAME:** DAN POWELL

APPROVED BY: **DATE:** 11/30/2023 **OFFICE:** AJV-A440 **NAME:** DAVID DANNER

SIGNATURE:



RADIO FIX AND HOLDING DATA RECORD

NAME: TRUER STATE: PA COUNTRY: US ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 412337.76N/0770839.49W 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 FEET	MAA
1	WILLIAMSPORT	FQM	VOR/DME	L	290.35	281.35	17.02	17.02	4000	17500
2	SELINSGROVE	SEG	VOR/DME	L	350.00	342.00		38.04	4000	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	W	FQM	VOR/DME	290.35	110.35	R	1	4600 17500	7 18

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	412827.00N/0770933.00W	2507	4E

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	200	110

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

WILLIAMSPORT (FAC 1) AND SELINSGROVE (FAC 2) USED TO ESTABLISH FIX COORDINATES.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
HOLDING FOR ATC USE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE (US)
EN ROUTE	V188	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:

FIX TYPE: ADDED DME.
FIX MAKE-UP FACILITIES: UPDATED FAC 1 (FQM) IDENT FROM IPT TO FQM, TYPE FROM VORTAC TO VOR/DME, MAG BRG FROM 290.00 TO 290.35, MAA FROM 18000 TO 17500, ADDED TRUE BRG, DME AND DIST FROM FAC NM; UPDATED FAC 2 (SEG) TYPE FROM VORTAC TO VOR/DME, MAA FROM 18000 TO 17500 AND ADDED DIST FROM FAC NM.
HOLDING: REMOVED 170-175 KIAS HOLDING, UPDATED 200-230 TO 200, RAD/CRS/BRG AND CRS INBOUND FROM 290.00/110.00 TO 290.35/110.35, LEG LENGTH FROM TIME 1/1 1/2 TO 1, HOLDING ALTITUDES MIN/MAX FROM 4000/18000 TO 4600/17500, TEMPLATE MIN FROM 11 TO 7 AND ADDED MAX 18. UPDATED CONTROLLING OBSTRUCTION DATA AND ADDED PRECIPITOUS TERRAIN ADDITIONS.
HOLDING RESTRICTIONS: ADDED HOLDING LIMITED TO ESTABLISHED PATTERN.
REMARKS: ADDED WILLIAMSPORT (FAC 1) AND SELINSGROVE (FAC 2) USED TO ESTABLISH FIX COORDINATES. PRECIPITOUS TERRAIN EVALUATION COMPLETED AND HOLDING FOR ATC USE. REMOVED TO BE USED IN EVENT OF FQM VORTAC FAILURE/SHUTDOWN. TO BE USED IN EVENT OF SEG VORTAC FAILURE/SHUTDOWN. (INTERIM ENROUTE FLIGHT PROCEDURES). HOLDING PRESENTLY APPROVED TO 140 FOR CONV. ACFT. REQUEST ADDITIONAL APPROVAL TO 180 FOR CONV. ACFT. 40 TO 180 FOR CIVIL JET ACFT.
FIX USE: ADDED V188.
REQUIRED CHARTING: ADDED CONTROLLER LOW.

INITIATED BY: DATE: ORGANIZATION: NAME:
OFFICE OF PRIMARY RESPONSIBILITY: AJV-A442 NAME: DAN POWELL
APPROVED BY: DATE: 11/30/2023 OFFICE: AJV-A440 NAME: DAVID DANNER
SIGNATURE:



RADIO FIX AND HOLDING DATA RECORD

NAME: UCAYU STATE: OH COUNTRY: US ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 404223.89N/0841818.08W 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	MRA	MAA
								NM FEET		
1	FORT WAYNE	FWA	VORTAC	H	117.82	111.82	43.40	43.40	6000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
FWA	VORTAC	R-118	44	6000	15300

HOLDING: HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH	HOLDING ALTITUDES	TEMPLATES
							DME	MIN MAX	MIN MAX
1	W		WP	275.83	095.83	R	4	3000 6000	5 6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (39-002548)	404241.00N/0842301.00W	1323	5D
1	310	TOWER (39-001272)	403803.00N/0841229.00W	1983	5D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	RNAV (GPS) RWY 28	KAOH	LIMA	OH (US)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V144	1				(US)
IAP	RNAV (GPS) RWY 10		1	KAOH	LIMA	OH (US)
IAP	RNAV (GPS) RWY 28		1	KAOH	LIMA	OH (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 DATE OF REVISION: 11/30/2023

REASON FOR REVISION:

NFDC NEVER RECEIVED 12/20/2019 CORRECTED COPY.
FIX MAKE-UP FACILITIES: UPDATED MAG BRG FROM 124.82 TO 117.82.
EXPANDED SERVICE VOLUME (ESV): UPDATED RADIAL/BEARING FROM R-112 TO R-118 AND MAX ALTITUDE FROM 15400 TO 15300.

INITIATED BY: DATE: ORGANIZATION: NAME:
OFFICE OF PRIMARY RESPONSIBILITY: AJV-A442 NAME: DAN POWELL
APPROVED BY: DATE: 11/30/2023 OFFICE: AJV-A440 NAME: DAVID DANNER
SIGNATURE:



RADIO FIX AND HOLDING DATA RECORD

NAME: UKIAH

STATE: OR

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 451410.41N/1191436.55W

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	KLICKITAT	LTJ	VOR/DME	VH	088.40	109.40	83.48	83.48		8500	17500
2	PENDLETON	PDT	VORTAC	VH	191.00	205.00		30.58		8000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
LTJ	VOR/DME	R-088	84	8500	9100

FIX RESTRICTIONS:

MCA V182 9400 EASTBOUND

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

KLICKITAT (FAC 1) AND PENDLETON (FAC 2) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V182	1, 2				(US)

REQUIRED CHARTING: EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7

DATE OF REVISION: 11/30/2023

REASON FOR REVISION:

FIX MAKE-UP FACILITIES: UPDATED FAC 1 (LTJ) CLASS FROM H TO VH, MAG/TRUE BRG FROM 089.00/110.00 TO 088.40/109.40 DME/DIST FROM FAC NM FROM 84.00 TO 83.48; FAC 2 (PDT) CLASS FROM H TO VH.

EXPANDED SERVICE VOLUME (ESV): ADDED LTJ DATA.

FIX RESTRICTIONS: CHANGED MCA V182 11500 EASTBOUND TO MCA V182 9400 EASTBOUND - MATCHES 8260-16 AND PART 95.

REMARKS: ADDED KLICKITAT (FAC 1) AND PENDLETON (FAC 2) USED TO ESTABLISH FIX COORDINATES.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A442

NAME: DAN POWELL

APPROVED BY:

DATE: 11/30/2023

OFFICE: AJV-A440

NAME: DAVID DANNER

SIGNATURE:

