

RADIO FIX AND HOLDING DATA RECORD

NAME: ERIE VORTAC STATE: PA COUNTRY: US ICAO REGION CODE: K6
 LATITUDE/LONGITUDE: 420102.63N/0801733.71W TYPE:
 AIRSPACE DOCKET: 16-AGL-2 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	ERIE	ERI	VORTAC	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	SW	ERI	VORTAC	244.48	064.48	R	1		2800	6000	4	5
2	SW		WP	244.17	064.17	R		4	3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	TOWER (42-001735)	415303.00N/0801059.00W	1773	4D
1	200	AAO	415803.00N/0801239.00W	1388	4E
2	200	AAO	415721.00N/0801242.00W	1414	4E

HOLDING RESTRICTIONS:

UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 2800.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
 ASSIGNED FACILITY MAGVAR: 6W (2015).

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ALLEGHENY			KAGC	PITTSBURGH	PA (US)
EN ROUTE	V126					(US)
EN ROUTE	V184					(US)
EN ROUTE	V270					(US)
EN ROUTE	V276					(US)
EN ROUTE	V37					(US)
IAP	NDB RWY 14			K8G2	CORRY	PA (US)
IAP	ILS OR LOC RWY 24			KERI	ERIE	PA (US)
IAP	ILS OR LOC RWY 6		1	KERI	ERIE	PA (US)
IAP	NDB RWY 24			KERI	ERIE	PA (US)
IAP	RNAV (GPS) RWY 24		2	KERI	ERIE	PA (US)
IAP	RNAV (GPS) RWY 6			KERI	ERIE	PA (US)
STAR	SPICA			KDTW	DETROIT	MI (US)
STAR	CHARDON			KBKL	CLEVELAND	OH (US)
STAR	CHARDON			KCGF	CLEVELAND	OH (US)
STAR	CHARDON			KCLE	CLEVELAND	OH (US)
STAR	CHARDON			K1G1	ELYRIA	OH (US)
STAR	CHARDON			KLPR	LORAIN/ELYRIA	OH (US)
STAR	CHARDON			K1G5	MEDINA	OH (US)
STAR	CHARDON			K7G8	MIDDLEFIELD	OH (US)
STAR	CHARDON			K2G1	PAINESVILLE	OH (US)
STAR	CHARDON			KLNN	WILLOUGHBY	OH (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 19

DATE OF REVISION: 05/24/2018

REASON FOR REVISION:

1. DELETED V522 FROM FIX USE.
2. REMOVED PAT 2 310KIAS CONTROLLING OBSTACLE.
3. REMOVED PAT 1 310KIAS CONTROLLING OBSTACLE.
4. REMOVED KERI ILS OR LOC/DME RWY 6 FROM PROCEDURE REQUIRING CLIMB-IN-HOLD.
5. CHANGED PROCEDURE NAME AT KERI FROM ILS OR LOC/DME RWY 6 TO ILS OR LOC RWY.
6. REMOVED REQUIRED CHARTING EN ROUTE HIGH.
7. DELETED V116, V14, V170, V221 FROM FIX USE.
8. DELETED V523 FROM FIX USE.
9. DELETED V43 FROM FIX USE.
10. DELETED KGKJ VOR RWY 7 FROM FIX USE.

DEVELOPED BY:

DATE: 02/01/2018

OFFICE: AJV-5412

NAME: ROSE BOONE



APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: JULIE MORGAN

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: EST
ARTCC: ZOB
ATC FACILITY: ERI APP CON
OTHER: ERI ATCT

QUALITY
 20
 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: JACKSON VOR/DME

STATE: MI

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 421533.26N/0842730.78W

TYPE:

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	JACKSON	JXN	VOR/DME	L							17500

FIX RESTRICTIONS:

UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 3100.

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	310	TOWER (26-000991)	422225.60N/0840410.22W	2045	1A

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ASSIGNED FACILITY MAG VAR: 5W 1985.
UNPLANNED 310KIAS PATTERN PER ATC REQUEST.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	VOR-A			KJYM	HILLSDALE	MI (US)
IAP	ILS OR LOC RWY 13.			KOZW	HOWELL	MI (US)
IAP	RNAV (GPS) RWY 13			KOZW	HOWELL	MI (US)
IAP	ILS OR LOC RWY 25			KJXN	JACKSON	MI (US)
STAR	CRUXX			KARB	ANN ARBOR	MI (US)
STAR	MIZAR			KDTW	DETROIT	MI (US)
STAR	CRUXX			KYIP	DETROIT	MI (US)
STAR	CRUXX			KONZ	DETROIT/GROSSE ILE	MI (US)
STAR	CRUXX			KOZW	HOWELL	MI (US)
STAR	CRUXX			KTTF	MONROE	MI (US)
STAR	CRUXX			KY47	NEW HUDSON	MI (US)
STAR	CRUXX			K1D2	PLYMOUTH	MI (US)
STAR	CRUXX			KPTK	PONTIAC	MI (US)
STAR	CRUXX			KVLL	TROY	MI (US)

REQUIRED CHARTING: STAR, IAP, CONTROLLER

COMPULSORY REPORTING POINT: LOW

RECORD REVISION NUMBER: 14

DATE OF REVISION: 05/24/2018

REASON FOR REVISION:

1. DELETED V221 FROM FIX USE.
2. ADDED UNPLANNED 310KIAS PATTERN PER ATC REQUEST TO REMARKS.
3. DELETED RNAV (GPS) RWY 23 AT KADG FROM FIX USE.
4. REMOVED V353 FROM FIX USE.
5. DELETED V116 AND V45 FROM FIX USE.
6. REMOVED ENROUTE LOW FROM REQUIRED CHARTING.

DEVELOPED BY:

DATE: 11/20/2017

OFFICE: AJV-5422

NAME: KEVIN KESZLER

APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: JULIE MORGAN

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZOB
ATC FACILITY: LAN, JXN APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: SALEM VORTAC

STATE: MI

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 422431.11N/0833538.05W

TYPE:

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	SALEM	SVM	VORTAC	L							45000

FIX RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

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	SVM	VORTAC	033.00	213.00	R	1		3000	6000	4	5
2	NW	SVM	VORTAC	294.00	114.00	L	1		3000	6000	4	5
3	NW	SVM	VORTAC	303.76	123.76	L	1		2400	6000	4	5
4	S	SVM	VORTAC	170.00	350.00	R	1		3000	6000	4	5
5	N	SVM	VORTAC	360.00	180.00	R	1		3000	6000	4	5
6	N	SVM	VORTAC	343.63	163.63	L	1		2600	6000	4	5
7	NE	SVM	VORTAC	055.00	235.00	R	1		3000	6000	4	5
8	NW	WP		294.00	114.00	L		4	3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (26-000543)	422911.99N/0832949.10W	1389	5D
2	200	GEN UTIL (26-027127)	422403.80N/0833325.40W	1308	2C
3	200	GEN UTIL (26-027127)	422403.80N/0833325.40W	1308	2C
4	200	GEN UTIL (26-027127)	422403.80N/0833325.40W	1308	2C
5	200	AAO	423318.00N/0833942.00W	1349	4E
6	200	AAO	423318.00N/0833942.00W	1349	4E
7	200	TOWER (26-000543)	422911.99N/0832949.10W	1389	5D
8	200	GEN UTIL (26-027127)	422403.80N/0833325.40W	1308	2C

REASON FOR NONSTANDARD HOLDING:

PAT 3 ATC REQUEST
PAT 8 PAT 10 ATC REQUEST
PAT 2 ATC REQUEST
PAT 6 ATC REQUEST

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
SALEM VORTAC MAGNETIC VARIATION W3/1965.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	MOONN			KARB	ANN ARBOR	MI (US)
DP	MOONN			KDET	DETROIT	MI (US)
DP	MOONN			KDTW	DETROIT	MI (US)
DP	MOONN			KYIP	DETROIT	MI (US)
DP	MOONN			KPTK	PONTIAC	MI (US)
EN ROUTE	J70					(US)
EN ROUTE	Q907					(US)
EN ROUTE	Q951					(US)
EN ROUTE	V133					(US)
EN ROUTE	V170					(US)
EN ROUTE	V26					(US)
EN ROUTE	V406					(US)
EN ROUTE	V90					(US)
IAP	RNAV (GPS) RWY 23			KADG	ADRIAN	MI (US)
IAP	VOR RWY 24		1	KARB	ANN ARBOR	MI (US)
IAP	VOR RWY 6		7	KARB	ANN ARBOR	MI (US)
IAP	ILS OR LOC RWY 15	1		KDET	DETROIT	MI (US)
IAP	ILS OR LOC RWY 33	1		KDET	DETROIT	MI (US)
IAP	ILS OR LOC RWY 21L			KDTW	DETROIT	MI (US)
IAP	ILS OR LOC RWY 22L			KDTW	DETROIT	MI (US)
IAP	ILS OR LOC RWY 27R		4	KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 22L (CLOSE PAR)			KDTW	DETROIT	MI (US)
IAP	ILS RWY 21L (SA CAT I & II)			KDTW	DETROIT	MI (US)
IAP	ILS OR LOC RWY 23L		2	KYIP	DETROIT	MI (US)
IAP	ILS OR LOC RWY 5R		2	KYIP	DETROIT	MI (US)
IAP	RNAV (GPS) RWY 23R			KYIP	DETROIT	MI (US)
IAP	RNAV (GPS) RWY 5L		8	KYIP	DETROIT	MI (US)
IAP	RNAV (GPS) RWY 5R		8	KYIP	DETROIT	MI (US)
IAP	VOR-A		6	KYIP	DETROIT	MI (US)
IAP	ILS OR LOC RWY 13			KOZW	HOWELL	MI (US)

IAP	RNAV (GPS) RWY 31		KOZW	HOWELL	MI (US)
IAP	VOR RWY 31		KOZW	HOWELL	MI (US)
IAP	VOR OR GPS-A	4	KY47	NEW HUDSON	MI (US)
IAP	RNAV (GPS) - B		K1D2	PLYMOUTH	MI (US)
IAP	VOR-A	3	K1D2	PLYMOUTH	MI (US)
IAP	ILS OR LOC RWY 9R	5	KPTK	PONTIAC	MI (US)
IAP	LOC BC RWY 27L	5	KPTK	PONTIAC	MI (US)
IAP	RNAV (GPS) RWY 27L		KPTK	PONTIAC	MI (US)
IAP	RNAV (GPS) RWY 9R		KPTK	PONTIAC	MI (US)
IAP	VOR RWY 27L	5	KPTK	PONTIAC	MI (US)
IAP	VOR RWY 9R	5	KPTK	PONTIAC	MI (US)
STAR	SPICA		KDTW	DETROIT	MI (US)
STAR	WEEDA		KDTW	DETROIT	MI (US)
STAR	FAILS		KBKL	CLEVELAND	OH (US)
STAR	FAILS		KCGF	CLEVELAND	OH (US)
STAR	HIMEZ		KCLE	CLEVELAND	OH (US)
STAR	HIMEZ		K1G1	ELYRIA	OH (US)
STAR	HIMEZ		KLPR	LORAIN/ELYRIA	OH (US)
STAR	HIMEZ		K1G5	MEDINA	OH (US)
STAR	FAILS		K7G8	MIDDLEFIELD	OH (US)
STAR	FAILS		K2G1	PAINESVILLE	OH (US)
STAR	FAILS		KLNN	WILLOUGHBY	OH (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 27

DATE OF REVISION: 05/24/2018

REASON FOR REVISION:

1. REMOVED V26 FROM FIX USE.
2. SEPERADTED V133, V406, AND V464 INTO SEPARATE ENTRIES UNDER FIX USE.
3. REMOVED ESV FROM SVM VORTAC.
4. DELETED V418 FROM FIX USE.
5. REMOVED V221 FROM FIX USE.
6. DELETED V116, V2, V464 FROM FIX USE.

DEVELOPED BY: **DATE:** 11/16/2017 **OFFICE:** AJV-5422 **NAME:** KEVIN KESZLER

APPROVED BY: **DATE:** **OFFICE:** AJV-5420 **NAME:** JULIE MORGAN

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: CEN
ARTCC: ZOB
ATC FACILITY: DTW APP CON, DET ATCT
OTHER: