

RADIO FIX AND HOLDING DATA RECORD

NAME: ELLWOOD CITY VOR/DME

STATE: PA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 404929.76N/0801241.56W

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	ELLWOOD CITY	EWC	VOR/DME	VH						45000

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	EWC	VOR/DME	002.00	182.00	R	1	4000 6000	6 7
2	W	EWC	VOR/DME	280.00	100.00	R	1	3000 6000	4 5
3	E	EWC	VOR/DME	076.00	256.00	R	1	3000 6000	4 5
4	N	WP	WP	002.00	182.00	R		4000 6000	7 8

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	TOWER (42-002083)	405501.21N/0800815.51W	1726	1A
2	200	TOWER (42-003313)	404806.77N/0801711.11W	1672	1A
3	200	TOWER (42-002083)	405501.21N/0800815.51W	1726	1A
4	230	TOWER (42-002083)	405501.21N/0800815.51W	1726	1A

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S).

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

ASSIGNED FACILITY MAGVAR: 8W (1985).

PAT 1 AND PAT 4 EVALUATED AT 230 KIAS TO SUPPORT MILITARY OPERATIONS.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	AHMET (RNAV)			KBKL	CLEVELAND	OH (US)
DP	AHMET (RNAV)			KCGF	CLEVELAND	OH (US)
DP	KKIDS (RNAV)			KCLE	CLEVELAND	OH (US)
DP	AHMET (RNAV)			KLPR	LORAIN/ELYRIA	OH (US)
DP	AHMET (RNAV)			KLNN	WILLOUGHBY	OH (US)
DP	ALLEGHENY			KAGC	PITTSBURGH	PA (US)
DP	PITTSBURGH			KPIT	PITTSBURGH	PA (US)
EN ROUTE	J64					(US)
EN ROUTE	V37					(US)
IAP	RNAV (GPS) RWY 25			02G	EAST LIVERPOOL	OH (US)
IAP	RNAV (GPS) RWY 28			4G4	YOUNGSTOWN	OH (US)
IAP	LOC RWY 10		3	KBVI	BEAVER FALLS	PA (US)
IAP	VOR RWY 28		3	KBVI	BEAVER FALLS	PA (US)
IAP	ILS OR LOC RWY 8		2	KBTP	BUTLER	PA (US)
IAP	RNAV (GPS) RWY 8			KBTP	BUTLER	PA (US)
IAP	ILS OR LOC RWY 10			KAGC	PITTSBURGH	PA (US)
IAP	ILS OR LOC RWY 10L		1	KPIT	PITTSBURGH	PA (US)
IAP	ILS OR LOC RWY 28R		1	KPIT	PITTSBURGH	PA (US)
IAP	ILS OR LOC RWY 32		1	KPIT	PITTSBURGH	PA (US)
IAP	ILS RWY 10L (CAT II & III)		1	KPIT	PITTSBURGH	PA (US)
IAP	ILS RWY 28R (CAT II)		1	KPIT	PITTSBURGH	PA (US)
IAP	ILS RWY 28R (SA CAT I)		1	KPIT	PITTSBURGH	PA (US)
IAP	RNAV (GPS) RWY 10L		4	KPIT	PITTSBURGH	PA (US)
IAP	RNAV (GPS) Y RWY 28R		4	KPIT	PITTSBURGH	PA (US)
IAP	RNAV (GPS) Y RWY 32		4	KPIT	PITTSBURGH	PA (US)
IAP	RNAV (RNP) Z RWY 28R		4	KPIT	PITTSBURGH	PA (US)
IAP	RNAV (RNP) Z RWY 32		4	KPIT	PITTSBURGH	PA (US)
IAP	RNAV (GPS) RWY 17			KPJC	ZELIENOPLE	PA (US)
IAP	RNAV (GPS) RWY 35			KPJC	ZELIENOPLE	PA (US)
STAR	WESTMINSTER			KBWI	BALTIMORE	MD (US)
STAR	WESTMINSTER			KMTN	BALTIMORE	MD (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 27

DATE OF REVISION: 06/12/2025

REASON FOR REVISION:

1. HOLDING RESTRICTIONS: ADDED HOLDING LIMITED TO ESTABLISHED PATTERN(S).



INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A433

NAME: TODD RUSSELL

APPROVED BY:

DATE: 05/08/2025

OFFICE: AJV-A433

NAME: ROBERT HAMILTON

SIGNATURE:

*Digitally signed by***ROBERT G HAMILTON**

Mar 24, 2025

QUALITY
39
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: WOPOG

STATE: PA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 404554.88N/0795948.72W

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 FAC NM	FAC FEET	MRA	MAA
1	BUTLER	I-BTP	LOC		259.95	251.95		2.64		1640	5700
2	ELLWOOD CITY	EWC	VOR/DME	VH	118.03	110.03		10.42		1640	14500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 8	1, 2		KBTP	BUTLER	PA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 06/12/2025

REASON FOR REVISION:

1. FIX MAKE-UP FACILITIES: UPDATED FAC 2 CLASS FROM "H" TO VH".

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A433

NAME: TODD RUSSELL

APPROVED BY:

DATE: 05/08/2025

OFFICE: AJV-A433

NAME: ROBERT HAMILTON

SIGNATURE:

Digitally signed by

ROBERT G HAMILTON

Mar 24, 2025

QUALITY
39
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: WOTID

STATE: PA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 404253.56N/0801156.33W

TYPE: WP, RADAR, INT

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	BUTLER	I-BTP	LOC		259.95	251.95		12.34	3000	5700
2	ELLWOOD CITY	EWC	VOR/DME	VH	183.04	175.04		6.62	3000	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	I-BTP	LOC	259.95	079.95	R	1	3000 5000	4 5
2	W		WP	259.79	079.79	R	4	3000 6000	5 6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (42-001883)	404300.45N/0801904.75W	1680	5E
2	200	TOWER (42-000779)	404353.10N/0800602.48W	1843	1A

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S).

REMARKS:

BUTLER (FAC 1) AND ELLWOOD CITY (FAC 2) USED TO ESTABLISH FIX COORDINATES.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 8	1, 2	1	KBTP	BUTLER	PA (US)
IAP	RNAV (GPS) RWY 26		2	KBTP	BUTLER	PA (US)
IAP	RNAV (GPS) RWY 8		2	KBTP	BUTLER	PA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 06/12/2025

REASON FOR REVISION:

1. FIX MAKE-UP FACILITIES: UPDATED FAC 2 CLASS FROM "V" TO VH".
2. HOLDING RESTRICTIONS: UPDATED FORMAT FROM "HOLDING LIMITED TO ESTABLISHED PATTERNS" TO "HOLDING LIMITED TO ESTABLISHED PATTERN(S)".

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

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APPROVED BY:

DATE: 05/08/2025

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SIGNATURE:

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Mar 24, 2025

QUALITY
39
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ZUGOP

STATE: PA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 404447.81N/0800418.61W

TYPE: WP, RADAR, INT

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	BUTLER	I-BTP	LOC		259.95	251.95		6.24	37896	3000	5700
2	ELLWOOD CITY	EWC	VOR/DME	VH	134.36	126.36		7.91		3000	5700

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

BUTLER (FAC 1) AND ELLWOOD CITY (FAC 2) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 8	1, 2		KBTP	BUTLER	PA (US)
IAP	RNAV (GPS) RWY 8			KBTP	BUTLER	PA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 06/12/2025

REASON FOR REVISION:

1. FIX MAKE-UP FACILITIES: UPDATED FAC 2 CLASS FROM "H" TO "VH".

INITIATED BY:

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