

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	H							45000

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	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		6	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

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			K02G	EAST LIVERPOOL	OH (US)
IAP	RNAV (GPS) RWY 28			K4G4	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: 25

DATE OF REVISION: 12/31/2020

REASON FOR REVISION:

1. UPDATED PAT 2 RAD/CRS/BRG AND CRS INBOUND FROM 292/112 TO 280/100.
2. REMOVED UNPLANNED HOLDING OBSTRUCTION.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

QUALITY
16
CHECKED

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A432

NAME: SYLVAN DRAKES

APPROVED BY: DATE: OFFICE: AJV-A430

NAME: LONNIE EVERHART

SIGNATURE: *Digitally signed by***WARDELL HENNING**

DISTRIBUTION:

NFDC

FPO: EST

ARTCC: ZOB

ATC FACILITY: PIT APP CON

OTHER:

Sep 15, 2020

QUALITY
16
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: GRACE STATE: PA COUNTRY: US ICAO REGION CODE: K6
 LATITUDE/LONGITUDE: 405124.66N/0794802.12W 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	MRA	MAA
1	CLARION	CIP	VOR/DME	L	228.00	222.00	23.31	23.31	3400	36000
2	JOHNSTOWN	JST	VOR/DME	L	312.56	306.56	54.78	54.78	3400	45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
CIP	VOR/DME	R-228	24	18000	36000
JST	VOR/DME	R-313	55	3400	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	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	NE	CIP	VOR/DME	228.00	228.00	R	1	3400	14000	6	10

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (42-001989)	405848.00N/0794541.00W	1873	2C

HOLDING RESTRICTIONS:

PAT 1 CHART 210K ICON
 HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

CLARION (FAC 1) AND JOHNSTOWN (FAC 2) USED TO ESTABLISH FIX COORDINATES
 SIMULTANEOUS HOLDING AT GRACE INT, PA. AND EARED INT PA. DISAPPROVED.
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	J211	1, 2				(US)
EN ROUTE	V226	1, 2	1			(US)
EN ROUTE	V58	1, 2	1			(US)
IAP	RNAV (GPS) RWY 28			KBVI	BEAVER FALLS	PA (US)
IAP	RNAV (GPS) RWY 14			KPIT	PITTSBURGH	PA (US)
IAP	RNAV (GPS) Y RWY 28C			KPIT	PITTSBURGH	PA (US)
IAP	RNAV (GPS) Y RWY 28L			KPIT	PITTSBURGH	PA (US)
IAP	RNAV (GPS) Y RWY 28R			KPIT	PITTSBURGH	PA (US)
IAP	RNAV (RNP) Z RWY 28C			KPIT	PITTSBURGH	PA (US)
IAP	RNAV (RNP) Z RWY 28L			KPIT	PITTSBURGH	PA (US)
IAP	RNAV (RNP) Z RWY 28R			KPIT	PITTSBURGH	PA (US)
STAR	HAYNZ (RNAV)			KPIT	PITTSBURGH	PA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 14 DATE OF REVISION: 12/31/2020

REASON FOR REVISION:

DELETED ILS OR LOC RWY 8 (KBTP) AND ALL ASSOCIATED DATA FROM FIX USE.

INITIATED BY: DATE: ORGANIZATION: NAME:

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A432 NAME: SYLVAN DRAKES

APPROVED BY: DATE: OFFICE: AJV-A430 NAME: LONNIE EVERHART

SIGNATURE: Digitally signed by
WARDELL HENNING

DISTRIBUTION: NFDC
 FPO: EST
 ARTCC: ZOB
 ATC FACILITY: PIT APP CON
 OTHER:

Sep 15, 2020



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 NM	FAC FEET	MRA	MAA
1	BUTLER	I-BTP	LOC		259.95	251.95		2.64		1640	5700
2	ELLWOOD CITY	EWC	VOR/DME	H	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: 1

DATE OF REVISION: 12/31/2020

REASON FOR REVISION:

UPDATED FAC 1 MAG/TRUE BRG FROM 079.95/071.95 TO 259.95/251.95.

10/16/20: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 10/5/20.
ADDED IAP TO REQUIRED CHARTING.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: SYLVAN DRAKES

APPROVED BY:

DATE:

OFFICE: AJV-A430

NAME: LONNIE EVERHART

SIGNATURE:

Digitally signed by

JON DENTON

DISTRIBUTION:

NFDC
FPO: EST
ARTCC: ZOB
ATC FACILITY: PIT TWR
OTHER:

Nov 17, 2020

QUALITY
18
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	MRA	MAA
1	BUTLER	I-BTP	LOC		259.95	251.95		12.34	3000	5700
2	ELLWOOD CITY	EWC	VOR/DME	H	183.04	175.04		6.62	3000	17500

HOLDING: HOLDING TYPE OF ACTION: MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	HOLDING ALTITUDES MIN DME	ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	W	I-BTP	LOC	259.95	079.95	R	1	3000	5000	4	5
2	W		WP	259.79	079.79	R		3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPD	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 PATTERNS.

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: 2 DATE OF REVISION: 12/31/2020

REASON FOR REVISION:

1. DELETED DME FROM FAC 2 - NOT BEING USED.
2. UPDATED HOLDING PATTERN 1 RAD/CRS/BRG AND CRS INBOUND FROM 259.96/079.96 TO 259.95/079.9 - ALIGN WITH ILS INBOUND CRS.

INITIATED BY: DATE: ORGANIZATION: NAME:

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A432 NAME: SYLVAN DRAKES

APPROVED BY: DATE: OFFICE: AJV-A430 NAME: LONNIE EVERHART

SIGNATURE: Digitally signed by
WARDELL HENNING

DISTRIBUTION: NFDC
 FPO: EST
 ARTCC: ZBW
 ATC FACILITY: PIT APP CON
 OTHER:

Sep 15, 2020

QUALITY
16
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	H	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: 2 DATE OF REVISION: 12/31/2020

REASON FOR REVISION:

DELETED 7.91 DME FROM FAC 2 - DME NOT BEING USED.

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
OFFICE OF PRIMARY RESPONSIBILITY:		AJV-A432	NAME: SYLVAN DRAKES
APPROVED BY:	DATE:	OFFICE: AJV-A430	NAME: LONNIE EVERHART
	SIGNATURE:	<i>Digitally signed by</i> WARDELL HENNING	
DISTRIBUTION:	NFDC FPO: EST ARTCC: ZBW ATC FACILITY: PIT APP CON OTHER:	Sep 15, 2020	

QUALITY
16
CHECKED