

RADIO FIX AND HOLDING DATA RECORD

NAME: BETEL

STATE: IN

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 404258.59N/0850737.77W

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	FORT WAYNE	FWA	VORTAC	H	176.00	170.00	16.00	16.00		2600	17500

HOLDING:

HOLDING TYPE OF ACTION: CANCEL

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 5			KFWA	FORT WAYNE	IN (US)
IAP	ILS RWY 5 (CAT II)			KFWA	FORT WAYNE	IN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 04/27/2017

REASON FOR REVISION:

UPDATED FAC 1 MAG BRG FROM 170.00 TO 176.00.
REMOVED HOLDING PAT 1 AND ALL REFERENCE TO HOLDING.
UPDATED FIX USE.
REMOVED MILITARY IAP FROM REQUIRED CHARTING.

DEVELOPED BY: DATE: 10/24/2016

OFFICE: AJV-5421

NAME: PABLO ORTIZ

APPROVED BY: DATE:

OFFICE: AJV-5420

NAME: TONY LAWSON

SIGNATURE:

Digitally signed by

STEVEN A VARGAS

Jan 30, 2017

DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZAU
ATC FACILITY: FWA APP CON/ATCT
OTHER:



RADIO FIX AND HOLDING DATA RECORD

NAME: CFCGJ

STATE: IN

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 404627.26N/0852714.17W

TYPE: CNF

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

NAME CHANGED FROM BHTYR TO CFCGJ.
CNF ARINC CODING FIX.

FIX USE:

USE TYPE

USE TITLE

FAC

PAT

AIRPORT IDENT

CITY

STATE

IAP
IAP

ILS OR LOC RWY 5
ILS RWY 5 (CAT II)

KFWA
KFWA

FORT WAYNE
FORT WAYNE

IN (US)
IN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 04/27/2017

REASON FOR REVISION:

NAME CHANGED FROM BHTYR TO CFCGJ.
UPDATED FIX USE.

DEVELOPED BY:

DATE: 06/07/2016

OFFICE: AJV-5423

NAME: PABLO ORTIZ

APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: TONY LAWSON

SIGNATURE:

Digitally signed by

STEVEN A VARGAS

Jan 30, 2017

DISTRIBUTION:

NFDC

FPO: CEN

ARTCC: ZAU

ATC FACILITY: FWA APP CON, FWA ATCT

OTHER:



RADIO FIX AND HOLDING DATA RECORD

NAME: CHMLY

STATE: IN

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 404431.69N/0852543.76W

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	FORT WAYNE	FWA	VORTAC	H	223.73	217.73	17.94	17.94		2600	17500
2	MUNCIE	MIE	VOR/DME	L	360.00	357.00		30.31		2600	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

FORT WAYNE (FAC 1) AND MUNCIE (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V11	1, 2				(US)
IAP	ILS OR LOC RWY 5	1, 2		KFWA	FORT WAYNE	IN (US)
IAP	ILS RWY 5 (CAT II)	1, 2		KFWA	FORT WAYNE	IN (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 04/27/2017

REASON FOR REVISION:

ADDED FORT WAYNE (FAC 1) AND MUNCIE (FAC 2) USED TO ESTABLISH FIX COORDINATES TO REMARKS.
UPDATED FIX USE.

10/24/16: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 06/07/16.

1. CHANGED FIX TYPE OF ACTION FROM NO CHANGE TO MODIFY.

2. UPDATED FAC 1 MAG BRG FROM 217.73 TO 223.73.

3. UPDATED FIX USE.

DEVELOPED BY:

DATE: 06/07/2016

OFFICE: AJV-5423

NAME: PABLO ORTIZ

APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: TONY LAWSON

SIGNATURE:

Digitally signed by

STEVEN A VARGAS

DISTRIBUTION:

NFDC

FPO: CEN

ARTCC: ZAU

ATC FACILITY: FWA APP CON, FWA ATCT

OTHER:

Jan 30, 2017



RADIO FIX AND HOLDING DATA RECORD

NAME: FORT WAYNE VORTAC **STATE:** IN **COUNTRY:** US **ICAO REGION CODE:** K5

LATITUDE/LONGITUDE: 405844.63N/0851117.01W **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	MRA FEET	MAA
1	FORT WAYNE	FWA	VORTAC	H						45000

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG TIME	LENGTH DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	SE	FWA	VORTAC	140.75	320.75	R	1		4000	6000	4	5

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	TOWER (18-000045)	410539.00N/0851049.00W	1648	4D
1	200	TOWER (18-000023)	410012.00N/0850559.00W	1159	4D

HOLDING RESTRICTIONS:

UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 3000.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ASSIGNED FACILITY MAG VAR: 6W 2020.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	FORT WAYNE			KARB	ANN ARBOR	MI (US)
DP	FORT WAYNE			KDET	DETROIT	MI (US)
DP	FORT WAYNE			KDTW	DETROIT	MI (US)
DP	FORT WAYNE			KYIP	DETROIT	MI (US)
DP	FORT WAYNE			KPTK	PONTIAC	MI (US)
DP	OBRLN			KCGF	CLEVELAND	OH (US)
DP	OBRLN			KCLE	CLEVELAND	OH (US)
DP	DAYTON			KDAY	DAYTON	OH (US)
DP	OBRLN			K1G1	ELYRIA	OH (US)
DP	OBRLN			KLPR	LORAIN/ELYRIA	OH (US)
DP	OBRLN			K1G5	MEDINA	OH (US)
DP	OBRLN			K7G8	MIDDLEFIELD	OH (US)
DP	OBRLN			K2G1	PAINESVILLE	OH (US)
DP	OBRLN			KLNN	WILLOUGHBY	OH (US)
EN ROUTE	J149					(US)
EN ROUTE	J178					(US)
EN ROUTE	J64					(US)
EN ROUTE	V11					(US)
EN ROUTE	V144					(US)
EN ROUTE	V221					(US)
EN ROUTE	V277					(US)
EN ROUTE	V340					(US)
EN ROUTE	V38					(US)
EN ROUTE	V55					(US)
EN ROUTE	V96					(US)
IAP	NDB RWY 5			KANQ	ANGOLA	IN (US)
IAP	ILS OR LOC RWY 27			KGWB	AUBURN	IN (US)
IAP	RNAV (GPS) RWY 27			KGWB	AUBURN	IN (US)
IAP	RNAV (GPS) RWY 9			KGWB	AUBURN	IN (US)
IAP	VOR-A			KGWB	AUBURN	IN (US)
IAP	ILS OR LOC RWY 32			KFWA	FORT WAYNE	IN (US)
IAP	ILS OR LOC RWY 5			KFWA	FORT WAYNE	IN (US)
IAP	ILS RWY 05 (CAT II)			KFWA	FORT WAYNE	IN (US)
IAP	LOC BC RWY 14		1	KFWA	FORT WAYNE	IN (US)
IAP	RNAV (GPS) RWY 14			KFWA	FORT WAYNE	IN (US)
IAP	RNAV (GPS) RWY 23			KFWA	FORT WAYNE	IN (US)
IAP	RNAV (GPS) RWY 32			KFWA	FORT WAYNE	IN (US)
IAP	RNAV (GPS) RWY 5			KFWA	FORT WAYNE	IN (US)
IAP	VOR OR TACAN RWY 23			KFWA	FORT WAYNE	IN (US)
IAP	VOR OR TACAN RWY 5			KFWA	FORT WAYNE	IN (US)
IAP	VOR OR TACAN RWY14			KFWA	FORT WAYNE	IN (US)
IAP	RNAV (GPS) RWY 31			KSMD	FORT WAYNE	IN (US)
IAP	VOR RWY 13			KSMD	FORT WAYNE	IN (US)
IAP	NDB RWY 9			KHHG	HUNTINGTON	IN (US)
IAP	VOR-A			KHHG	HUNTINGTON	IN (US)
IAP	RNAV (GPS) RWY 23			KOKK	KOKOMO	IN (US)
IAP	HI-ILS OR LOC RWY 25			KTOL	TOLEDO	OH (US)
IAP	HI-ILS OR LOC RWY 7			KTOL	TOLEDO	OH (US)
IAP	HI-TACAN RWY 25			KTOL	TOLEDO	OH (US)
IAP	HI-TACAN RWY 7			KTOL	TOLEDO	OH (US)



STAR	GOSHEN	KIGQ	CHICAGO	IL (US)
STAR	GOSHEN	KMDW	CHICAGO	IL (US)
STAR	PANGG (RNAV)	KMDW	CHICAGO	IL (US)
STAR	ESSPO (RNAV)	KORD	CHICAGO	IL (US)
STAR	KNOX	KORD	CHICAGO	IL (US)
STAR	VEECK (RNAV)	KORD	CHICAGO	IL (US)
STAR	WATSN (RNAV)	KORD	CHICAGO	IL (US)
STAR	GOSHEN	KGYY	GARY	IN (US)
STAR	GOSHEN	K05C	GRIFFITH	IN (US)
STAR	GOSHEN	K3HO	HOBART	IN (US)
STAR	CLANG	KEYE	INDIANAPOLIS	IN (US)
STAR	CLANG	KIND	INDIANAPOLIS	IN (US)
STAR	CLANG	KMQJ	INDIANAPOLIS	IN (US)
STAR	DEBAR	KCVG	COVINGTON	KY (US)
STAR	SHELBYVILLE	KCVG	COVINGTON	KY (US)
STAR	HEDEE	KK62	FALMOUTH	KY (US)
STAR	SHELBYVILLE	KK62	FALMOUTH	KY (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	K3TE	TECUMSEH	MI (US)
STAR	CRUXX	KVLL	TROY	MI (US)
STAR	HEDEE	KI69	BATAVIA	OH (US)
STAR	SHELBYVILLE	KI69	BATAVIA	OH (US)
STAR	HEDEE	KLUK	CINCINNATI	OH (US)
STAR	SHELBYVILLE	KLUK	CINCINNATI	OH (US)
STAR	GUNNE	KCMH	COLUMBUS	OH (US)
STAR	GUNNE	KLCK	COLUMBUS	OH (US)
STAR	GUNNE	KOSU	COLUMBUS	OH (US)
STAR	GUNNE	KTZR	COLUMBUS	OH (US)
STAR	HEDEE	KHAO	HAMILTON	OH (US)
STAR	SHELBYVILLE	KHAO	HAMILTON	OH (US)
STAR	GUNNE	KLHQ	LANCASTER	OH (US)
STAR	GUNNE	KVTA	NEWARK	OH (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 17

DATE OF REVISION: 04/27/2017

REASON FOR REVISION:

UPDATED PAT 1 RAD/CRS/BRG FROM 137.75 TO 140.75, CRS INBOUND FROM 317.75 TO 320.75, TEMPLATES MIN FROM 4 TO 8 AND REMOVED 200 KIAS OBSTRUCTION.

UPDATED FIX USE.

ADDED MAG VAR NOTE IN THE REMARKS SECTION.

12/19/16: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 05/24/16.

1. UPDATED PAT 1 TEMPLATES MIN FROM 8 TO 4, MAX 9 TO 5 AND CONTROLLING OBSTRUCTION DATA.

2. REMOVED 265K PATTERN EVALUATED FOR MILITARY USE FROM REMARKS.

3. UPDATED REMARKS FROM MAG VAR 0E 1965 TO ASSIGNED FACILITY MAG VAR: 6W 2020.

4. UPDATED FIX USE.

DEVELOPED BY: **DATE:** 05/24/2016 **OFFICE:** AJV-5423 **NAME:** PABLO ORTIZ

APPROVED BY: **DATE:** **OFFICE:** AJV-5420 **NAME:** TONY LAWSON

SIGNATURE:

Digitally signed by

STEVEN A VARGAS

DISTRIBUTION:

NFDC

FPO: CEN

ARTCC: ZAU

ATC FACILITY: FWA APP CON, FWA ATCT

OTHER:

Jan 30, 2017

QUALITY
10
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: HOONS OM STATE: IN COUNTRY: US ICAO REGION CODE: K5
 LATITUDE/LONGITUDE: 405408.66N/0851724.29W 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 NM	FAC FEET	MRA	MAA
1	HOONS	HV	OM								5200
2	FORT WAYNE	I-HVD	LOC		230.26	224.26		7.20	43728	2600	5200
3	WEBSTER LAKE	OLK	VOR	L	158.45	155.45		22.77		2600	5200
4	FORT WAYNE	FWA	VORTAC	H	231.30	225.30	6.53	6.53		2600	5200

HOLDING: HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

HOONS (FAC 1) AND FORT WAYNE (FAC 2) USED TO ESTABLISH FIX COORDINATES
 COORDINATES REFLECT LOCATION ON LOC/AZ CENTERLINE ABEAM THE HOONS OM.
 ACTUAL FACILITY LOCATION IS 405405.53N/0851720.04W.
 FAC 2 & 3 USED TO DETERMINE DIVERGENCE ANGLE.
 FAC 3 & 4 DIVERGENCE ANGLE 69.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 5	1, 2, 3, 4		KFWA	FORT WAYNE	IN (US)
IAP	ILS RWY 5 (CAT II)	2, 3, 4		KFWA	FORT WAYNE	IN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 11 DATE OF REVISION: 04/27/2017

REASON FOR REVISION:

UPDATED FIX LAT/LONG. FIX MOVED 47.69 FEET SOUTHWEST.
 CHANGED FAC 1 MAA FROM 5300 TO 5200.
 UPDATED FAC 2 MAG BRG FROM 229.26 TO 230.26, DIST FROM FAC FROM 7.19 NM TO 7.20 NM, CHANGED DIST FROM FAC IN FEET FROM 43682 TO 43728 AND CHANGED MAA FROM 5300 TO 5200.
 UPDATED FAC 3 MAG BRG FROM 158.43 TO 158.45, TRUE BRG FROM 155.43 TO 155.45, REMOVED DIST FROM FAC IN FEET AND CHANGED MAA FROM 17500 TO 5200.
 UPDATED FAC 4 DME FROM 6.52 TO 6.53 DIST FROM FAC FROM 6.52 NM TO 6.53 NM, REMOVED DIST FROM FAC IN FEET AND CHANGED MAA FROM 17500 TO 5200.
 ADDED TO REMARKS HOONS (FAC 1) AND WEBSTER LAKE (FAC 3) USED TO ESTABLISH FIX COORDINATES.
 UPDATED REMARKS ACTUAL FACILITY LOCATION LAT/LONG.
 UPDATED FIX USE.

10/24/16: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 06/08/16.

1. UPDATED FAC 4 MAG BRG FROM 225.30 TO 231.30.
 2. UPDATED REASON FOR REVISION FROM HOONS (FAC 1) AND WEBSTER LAKE (FAC 3) USED TO ESTABLISH FIX COORDINATES TO HOONS (FAC 1) AND FORT WAYNE (FAC 2) USED TO ESTABLISH FIX COORDINATES.

DEVELOPED BY: DATE: 06/08/2016 OFFICE: AJV-5423 NAME: PABLO ORTIZ

APPROVED BY: DATE: OFFICE: AJV-5420 NAME: TONY LAWSON

SIGNATURE: Digitally signed by
STEVEN A VARGAS

DISTRIBUTION: NFDC
 FPO: CEN
 ARTCC: ZAU
 ATC FACILITY: FWA APP CON, FWA ATCT
 OTHER:



RADIO FIX AND HOLDING DATA RECORD

NAME: JIVBU

STATE: IN

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 404720.62N/0852605.66W

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 NM	FAC FEET	MRA	MAA
1	FORT WAYNE	I-HVD	LOC		230.26	224.26		16.67		2600	5200
2	FORT WAYNE	FWA	VORTAC	H			16.00	16.00		2600	5200

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

FORT WAYNE (FAC 1) AND FORT WAYNE (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 5	1, 2		KFWA	FORT WAYNE	IN (US)
IAP	ILS RWY 5 (CAT II)	1, 2		KFWA	FORT WAYNE	IN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 04/27/2017

REASON FOR REVISION:

UPDATED FAC 1 MAG BRG FROM 227.26 TO 230.26 AND MAA FROM 5300 TO 5200.
ADDED FORT WAYNE (FAC 1) AND FORT WAYNE (FAC 2) USED TO ESTABLISH FIX COORDINATES TO REMARKS.
UPDATED FIX USE.

01/04/17: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 06/08/16.
1. REMOVED FAC 2 MAG BRG/TRUE BRG AND UPDATED MAA FROM 17500 TO 5200.

DEVELOPED BY: DATE: 06/08/2016 OFFICE: AJV-5423 NAME: PABLO ORTIZ

APPROVED BY: DATE: OFFICE: AJV-5420 NAME: TONY LAWSON

SIGNATURE: Digitally signed by
STEVEN A VARGAS

DISTRIBUTION: NFDC
FPO: CEN
ARTCC: ZAU
ATC FACILITY: FWA APP CON, FWA ATCT
OTHER:



RADIO FIX AND HOLDING DATA RECORD

NAME: OSBER STATE: IN COUNTRY: US ICAO REGION CODE: K5
 LATITUDE/LONGITUDE: 404508.87N/0844828.67W 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	FORT WAYNE	FWA	VORTAC	H	134.02	128.02	22.00	22.00	3000	17500
2	MUNCIE	MIE	VOR/DME	L	043.78	040.78		40.91	3000	17500
3	ROSEWOOD	ROD	VORTAC	H	313.77	308.77	44.73	44.73	3000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
MIE	VOR/DME	R-044	41	3000	17500
ROD	VORTAC	R-314	45	3000	15600

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	SE	FWA	VORTAC	134.02	314.02	L	1	3000 10000	6 9

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (18-001340)	404615.00N/0845605.00W	1223	3B

REASON FOR NONSTANDARD HOLDING:

PAT 1 AIRSPACE CONSTRAINTS

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

FORT WAYNE (FAC 1) AND MUNCIE (FAC 2) USED TO ESTABLISH FIX COORDINATES
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.
 265K PATTERN EVALUATED FOR MILITARY USE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V277	1, 2, 3	1			(US)
IAP	ILS OR LOC RWY 5	1, 2, 3	1	KFWA	FORT WAYNE	IN (US)
IAP	ILS RWY 5 (CAT II)	1, 2, 3	1	KFWA	FORT WAYNE	IN (US)
IAP	RADAR-1	1, 2, 3	1	KFWA	FORT WAYNE	IN (US)
IAP	VOR OR TACAN RWY 14	1, 2	1	KFWA	FORT WAYNE	IN (US)
IAP	VOR OR TACAN RWY 23	1, 2	1	KFWA	FORT WAYNE	IN (US)
IAP	VOR OR TACAN RWY 5	1, 2	1	KFWA	FORT WAYNE	IN (US)
IAP	RNAV (GPS) RWY 31			KSMD	FORT WAYNE	IN (US)
STAR	HEDEE	1, 2, 3		KK62	FALMOUTH	KY (US)
STAR	HEDEE	1, 2, 3		KI69	BATAVIA	OH (US)
STAR	HEDEE	1, 2, 3		KLUK	CINCINNATI	OH (US)
STAR	HEDEE	1, 2, 3		KHAO	HAMILTON	OH (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 10 DATE OF REVISION: 04/27/2017

REASON FOR REVISION:

UPDATED PAT 1 OBSTRUCTION ELEVATION.
 UPDATED FIX USE.

01/04/17: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 06/03/16.

1. CHANGED FIX TYPE OF ACTION FROM NO CHANGE TO MODIFY.
2. UPDATED FAC 1 MAG BRG FROM 128.02 TO 134.02.
3. UPDATED PAT 1 RAD/CRS/BRG FROM 128.02 TO 134.02, CRS INBOUND FROM 308.02 TO 314.02, TEMPLATES MIN FROM 10 TO 6, MAX FROM 13 TO 9 AND CONTROLLING OBSTRUCTION DATA.
4. UPDATED FIX USE.

DEVELOPED BY: DATE: 06/03/2016 OFFICE: AJV-5423 NAME: PABLO ORTIZ
 APPROVED BY: DATE: OFFICE: AJV-5420 NAME: TONY LAWSON



SIGNATURE: *Digitally signed by*
STEVEN A VARGAS
Jan 30, 2017

DISTRIBUTION: **NFDC**
FPO: CEN
ARTCC: ZAU
ATC FACILITY: FWA APP CON, ZID
OTHER:



RADIO FIX AND HOLDING DATA RECORD

NAME: WERBU STATE: IN COUNTRY: US ICAO REGION CODE: K5
 LATITUDE/LONGITUDE: 411111.77N/0853016.14W 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	FORT WAYNE	FWA	VORTAC	H	317.02	311.02	19.00	19.00	2700	17500
2	MARION	MZZ	VOR/DME	L	013.78	010.78		42.33	2700	17500
3	GOSHEN	GSH	VORTAC	H	130.47	130.47	31.17	31.17	2700	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
MZZ	VOR/DME	R-014	43	2700	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	HOLDING ALTITUDES DME	MIN	MAX	TEMPLATES MIN	MAX
1	NW	GSH	VORTAC	130.47	130.47	R	1		4000	10000	6	9
2	SE		WP	154.25	334.25	R		4	2700	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (18-002382)	411445.00N/0852747.00W	1270	5D
2	200	TOWER (18-002382)	411445.00N/0852747.00W	1270	5D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

FORT WAYNE (FAC 1) AND MARION (FAC 2) USED TO ESTABLISH FIX COORDINATES
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V55	1, 2, 3	1			IN (US)
IAP	ILS OR LOC RWY 32 (ALT MA)	2, 3	1	KFWA	FORT WAYNE	IN (US)
IAP	ILS OR LOC RWY 5 (ALT MA)	2, 3	1	KFWA	FORT WAYNE	IN (US)
IAP	ILS RWY 5 (CAT II) (ALT MA)	2, 3	1	KFWA	FORT WAYNE	IN (US)
IAP	RNAV (GPS) RWY 13			KSMD	FORT WAYNE	IN (US)
IAP	RNAV (GPS) RWY 23		2	KSMD	FORT WAYNE	IN (US)
IAP	RNAV (GPS) RWY 31		2	KSMD	FORT WAYNE	IN (US)
IAP	RNAV (GPS) RWY 5		2	KSMD	FORT WAYNE	IN (US)
IAP	RNAV (GPS) RWY 27			KASW	WARSAW	IN (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 04/27/2017

REASON FOR REVISION:

UPDATED FAC 2 DIST FROM FAC FROM 42.32 TO 42.33.
 UPDATED PAT 1 ACCURACY CODE FROM 5D TO 1A, CHANGED MIN/MAX TEMPLATES FROM 10/13 TO 8/11.
 ADDED FORT WAYNE (FAC 1) AND MARION (FAC 2) USED TO ESTABLISH FIX COORDINATES AND 265K PATTERN EVALUATED FOR MILITARY USE TO REMARKS.
 REMOVED FAC 1 AND FAC 2 USED FOR ILS OR LOC RWY 32 ALT MISSED FIX FROM REMARKS.
 UPDATED FIX USE.

10/24/16: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 05/23/16.

1. UPDATED FAC 1 MAG BRG FROM 311.02 TO 317.02.
2. UPDATED PAT 1 TEMPLATES MIN FROM 8 TO 6, MAX FROM 11 TO 9 AND CONTROLLING OBSTRUCTION DATA.
3. REMOVED 265K PATTERN EVALUATED FOR MILITARY USE FROM REMARKS.
4. UPDATED FIX USE.
5. REMOVED MILITARY IAP FROM REQUIRED CHARTING.

DEVELOPED BY: DATE: 05/23/2016 OFFICE: AJV-5423 NAME: PABLO ORTIZ
 APPROVED BY: DATE: OFFICE: AJV-5420 NAME: TONY LAWSON
 SIGNATURE: Digitally signed by STEVEN A VARGAS
 Jan 30, 2017



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