

RADIO FIX AND HOLDING DATA RECORD

NAME: FROWN

STATE: IN

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 403310.04N/0860140.15W

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	FAC FEET	MRA	MAA
1	KOKOMO	I-OKK	LOC		049.94	044.94		2.85		1200	5300
2	KOKOMO	OKK	VORTAC	H			2.04	2.04		1200	17500
3	MARION	MZZ	VOR/DME	L	285.71	282.71		16.34		1200	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 23	1, 2, 3		KOKK	KOKOMO	IN (US)
IAP	RNAV (GPS) RWY 23			KOKK	KOKOMO	IN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 06/23/2016

REASON FOR REVISION:

FAC 1 - CHANGED MAG BRG FROM 046.94 TO 049.94 AND DIST FROM FAC NM FROM 2.67 TO 2.85.

DEVELOPED BY: DATE: 04/20/2016 OFFICE: AJV-5421 NAME: JEFFREY ROBINSON

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

SIGNATURE:

DISTRIBUTION: NFDC
 FPO: CEN
 ARTCC: ZAU
 ATC FACILITY: GUS APP CON
 OTHER:

QUALITY
 22
 CHECKED

INFORMATION ONLY

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	FEET	MRA	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)

QUALITY
22
CHECKED

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:

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

QUALITY
22
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: KOKOMO VORTAC STATE: IN COUNTRY: US ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 403140.01N/0860328.80W 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	KOKOMO	OKK	VORTAC	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	NE	OKK	VORTAC	044.00	224.00	R	1	2400 6000	4 5
2	SE	OKK	VORTAC	132.00	312.00	R	1	2600 6000	4 5
3	S	OKK	VORTAC	169.96	349.96	R	1	2600 6000	4 5
4	SW	OKK	VORTAC	225.07	045.07	R	1	2400 6000	4 5

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (18-001689)	403746.00N/0860230.00W	1128	5D
2	200	TOWER (18-000544)	402704.00N/0860212.00W	1335	5D
3	200	TOWER (18-000544)	402704.00N/0860212.00W	1335	5D
4	200	TOWER (18-000544)	402704.00N/0860212.00W	1335	5D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ASSIGNED FACILITY MAGVAR: 5W 2020.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	MEARZ			KEYE	INDIANAPOLIS	IN (US)
DP	MEARZ			KHFX	INDIANAPOLIS	IN (US)
DP	INDY			KIND	INDIANAPOLIS	IN (US)
DP	MEARZ			KIND	INDIANAPOLIS	IN (US)
DP	MEARZ			KMQJ	INDIANAPOLIS	IN (US)
DP	MEARZ			KTYQ	INDIANAPOLIS	IN (US)
DP	MEARZ			KUMP	INDIANAPOLIS	IN (US)
DP	MEARZ			KGEZ	SHELBYVILLE	IN (US)
EN ROUTE	V214					(US)
EN ROUTE	V285					(US)
EN ROUTE	V305					(US)
EN ROUTE	V96					(US)
IAP	ILS OR LOC RWY 30			KAID	ANDERSON	IN (US)
IAP	NDB RWY 30			KAID	ANDERSON	IN (US)
IAP	NDB RWY 9			KFKR	FRANKFORT	IN (US)
IAP	RNAV (GPS) RWY 27			KFKR	FRANKFORT	IN (US)
IAP	RNAV (GPS) RWY 18			KTYQ	INDIANAPOLIS	IN (US)
IAP	VOR/DME RWY 18			KTYQ	INDIANAPOLIS	IN (US)
IAP	ILS OR LOC RWY 23		1	KOKK	KOKOMO	IN (US)
IAP	RNAV (GPS) RWY 23			KOKK	KOKOMO	IN (US)
IAP	RNAV (GPS) RWY 5			KOKK	KOKOMO	IN (US)
IAP	VOR RWY 32		2	KOKK	KOKOMO	IN (US)
IAP	ILS RWY 10			KLAF	LAFAYETTE	IN (US)
IAP	VOR-A		2	KGGP	LOGANSPOUT	IN (US)
IAP	ILS OR LOC RWY 04			KMZZ	MARION	IN (US)
IAP	RNAV (GPS) RWY 15			KMZZ	MARION	IN (US)
IAP	RNAV (GPS) RWY 36			KMCX	MONTICELLO	IN (US)
IAP	VOR RWY 1		3	KI76	PERU	IN (US)
IAP	GPS RWY 23			K514	SHERIDAN	IN (US)
IAP	VOR/DME-A			K514	SHERIDAN	IN (US)
IAP	RNAV (GPS) RWY 9			KIWH	WABASH	IN (US)
IAP	VOR-A		4	KIWH	WABASH	IN (US)
STAR	FISSK (RNAV)			KMDW	CHICAGO	IL (US)

REQUIRED CHARTING: DP, STAR, 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:



1. UPDATED RAD/CRS/BRG AND CRS INBOUND FOR PATS 1-4 DUE TO OKK;C MAGVAR ROTATION.
2. CHANGED PAT2 MIN HOLDING ALTITUDE FROM 2400 TO READ 2600.
3. CHANGED LONGITUDE COORDINATE FROM 0860228.00W TO READ 0860230.00W FOR PAT1 CONTROLLING OBSTRUCTION.
4. CHANGED OKK MAGVAR E0 TO READ ASSIGNED FACILITY MAGVAR:5W 2020 IN REMARKS SECTION.
5. REMOVED RNAV (GPS) RWY 27 AND VOR/DME RNAV RWY 27 IAP'S @ KGGP FROM FIX USE SECTION.
6. ADDED RNAV (GPS) RWY 36 IAP @ KCMX TO FIX USE SECTION.

DEVELOPED BY: **DATE:** 10/12/2016 **OFFICE:** AJV-5433 **NAME:** BEV L BORDY (MICHAEL GARRITY)

APPROVED BY: **DATE:** **OFFICE:** AJV-5430 **NAME:** LONNIE EVERHART

SIGNATURE:

DISTRIBUTION: **NFDC**
 FPO: CEN
 ARTCC: ZAU
 ATC FACILITY: GUS APP CON
 OTHER:

QUALITY
22
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: WEBUX STATE: IN COUNTRY: US ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 402407.46N/0861328.01W TYPE: WP

AIRSPACE DOCKET: FIX TYPE OF ACTION: NO CHANGE

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 MIN	ALTITUDES MAX	TEMPLATES MIN	MAX
1	SW		WP	229.83	049.83	R	4	2400	6000	5	6

CONTROLLING OBSTRUCTIONS:			COORDINATES	ELEVATION	ACCURACY CODE
PAT	AIRSPEED	OBSTRUCTION			
1	200	TOWER (18-000229)	401926.00N/0861831.00W	1290	5D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:	USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP		RNAV (GPS) RWY 23		1	KOKK	KOKOMO	IN (US)
IAP		RNAV (GPS) RWY 5		1	KOKK	KOKOMO	IN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 DATE OF REVISION: 06/23/2016

REASON FOR REVISION:
PAT 1 - CHANGED RAD/CRS/BRG FROM 226.83 TO 229.83 AND CRS INBOUND FROM 46.83 TO 49.83.

DEVELOPED BY: DATE: 04/22/2016 OFFICE: AJV-5421 NAME: JEFFREY ROBINSON

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

SIGNATURE:

DISTRIBUTION: NFDC
FPO: CEN
ARTCC: ZID
ATC FACILITY: GUS APP CON
OTHER:

QUALITY
22
CHECKED