

RADIO FIX AND HOLDING DATA RECORD

NAME: BRYEN

STATE: OH

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 405115.73N/0844648.90W

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	117.82	111.82	20.00	20.00		10000	23000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	GUNNE	1		KCMH	COLUMBUS	OH (US)
STAR	GUNNE	1		KLCK	COLUMBUS	OH (US)
STAR	GUNNE	1		KOSU	COLUMBUS	OH (US)
STAR	GUNNE	1		KTZR	COLUMBUS	OH (US)
STAR	GUNNE	1		KLHQ	LANCASTER	OH (US)
STAR	GUNNE	1		KVTA	NEWARK	OH (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 04/27/2017

REASON FOR REVISION:

1. CHANGED FAC 1 MAG BRG FROM 111.82 TO 117.82.

DEVELOPED BY:

DATE: 12/20/2016

OFFICE: AJV-5421

NAME: JAMES ROGERS

APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: JULIE MORGAN

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZID, ZAU
ATC FACILITY: CMH APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: CALOB

STATE: OH

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 402457.73N/0832336.99W

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	APPLETON	APE	VORTAC	H	299.51	293.51	40.25	40.25		10000	23000
2	ROSEWOOD	ROD	VORTAC	H	080.32	075.32		30.77		10000	23000
3	FORT WAYNE	FWA	VORTAC	H	117.82	111.82	88.58	88.58		10000	23000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
APE	VORTAC	R-300	41	10000	23000
FWA	VORTAC	R-118	89	10000	15400

FIX RESTRICTIONS:

ROD TACAN AZIMUTH UNUSABLE AT CALOB.

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	GUNNE	1, 2, 3		KCMH	COLUMBUS	OH (US)
STAR	GUNNE	1, 2, 3		KLCK	COLUMBUS	OH (US)
STAR	GUNNE	1, 2, 3		KOSU	COLUMBUS	OH (US)
STAR	GUNNE	1, 2, 3		KTZR	COLUMBUS	OH (US)
STAR	GUNNE	1, 2, 3		KLHQ	LANCASTER	OH (US)
STAR	GUNNE	1, 2, 3		KVTA	NEWARK	OH (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 04/27/2017

REASON FOR REVISION:

1. CHANGED FAC 3 MAG BRG FROM 111.82 TO 117.82.
2. CHANGED FWA ESV RADIAL/BEARING FROM R-112 TO R-118.

DEVELOPED BY:

DATE: 12/20/2016

OFFICE: AJV-5421

NAME: JAMES ROGERS

APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: JULIE MORGAN

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZID
ATC FACILITY: CMH APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: ESSIE **STATE:** OH **COUNTRY:** US **ICAO REGION CODE:** K5

LATITUDE/LONGITUDE: 403300.00N/0832346.82W **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 NM	FAC FEET	MRA	MAA
1	FLAG CITY	FBC	VORTAC	L	147.87	145.87	29.32	29.32		3000	17500
2	ROSEWOOD	ROD	VORTAC	H	066.85	061.85		33.55		3000	17500

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

REMARKS:

FLAG CITY (FAC 1) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V279	1, 2				(US)
IAP	RNAV (GPS) RWY 10			KDLZ	DELAWARE	OH (US)
IAP	RNAV (GPS) RWY 07			KMNN	MARION	OH (US)
IAP	RNAV (GPS) RWY 13			KMNN	MARION	OH (US)
STAR	GUNNE	1, 2		KCMH	COLUMBUS	OH (US)
STAR	GUNNE	1, 2		KLCK	COLUMBUS	OH (US)
STAR	GUNNE	1, 2		KOSU	COLUMBUS	OH (US)
STAR	GUNNE	1, 2		KTZR	COLUMBUS	OH (US)
STAR	GUNNE	1, 2		KLHQ	LANCASTER	OH (US)
STAR	GUNNE	1, 2		KVTA	NEWARK	OH (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6 **DATE OF REVISION:** 01/05/2017

REASON FOR REVISION:

1. ADDED DME VALUE TO FAC 1.
2. ADDED REMARK THAT FAC 1 USED TO DERIVE COORDINATES.

DEVELOPED BY: **DATE:** 09/19/2016 **OFFICE:** AJV-5421 **NAME:** DANIEL OLSON

APPROVED BY: **DATE:** 10/25/2016 **OFFICE:** AJV-5420 **NAME:** TONY LAWSON

SIGNATURE:

DISTRIBUTION: NFDC
FPO: CEN
ARTCC: ZOB, ZID
ATC FACILITY: MFD/DAY
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: GUNNE STATE: OH COUNTRY: US ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 402149.55N/0831358.32W 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	FLAG CITY	FBC	VORTAC	L	147.87	145.87	42.76	42.76		3000	17500
2	ROSEWOOD	ROD	VORTAC	H	087.75	082.75	37.46	37.46		3000	17500
3	APPLETON	APE	VORTAC	H	299.51	293.51	32.24	32.24		3000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
FBC	VORTAC	R-148	43	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	DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	NW	APE	VORTAC	299.51	119.51	R		8	9000	17500	11	18

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	402118.00N/0833603.00W	1467	4E

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.
HOLD PAT 1, DME REQUIRED.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
DIVERGENCE ANGLES: FAC 1 & 2, 63.12; FAC 1 & 3, 32.36; FAC 2 & 3, 30.76

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V144	1, 2, 3				(US)
EN ROUTE	V210	1, 2, 3				(US)
EN ROUTE	V279	1, 2, 3				(US)
IAP	RNAV (GPS) RWY 4			KI95	KENTON	OH (US)
IAP	RNAV (GPS) RWY 7			KMNN	MARION	OH (US)
IAP	RNAV (GPS) RWY 10			K4I3	MOUNT VERNON	OH (US)
IAP	RNAV (GPS) RWY 20			KI74	URBANA	OH (US)
STAR	GUNNE	1, 2, 3	1	KCMH	COLUMBUS	OH (US)
STAR	GUNNE	1, 2, 3	1	KLCK	COLUMBUS	OH (US)
STAR	GUNNE	1, 2, 3	1	KOSU	COLUMBUS	OH (US)
STAR	GUNNE	1, 2, 3	1	KTZR	COLUMBUS	OH (US)
STAR	GUNNE	1, 2, 3	1	KLHQ	LANCASTER	OH (US)
STAR	GUNNE	1, 2, 3	1	KVTA	NEWARK	OH (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 12 DATE OF REVISION: 11/18/2010

REASON FOR REVISION:

FINDLAY VORTAC (FDY) CHANGED TO FLAG CITY VORTAC (FBC).
ADDED DIST FROM FAC TO FACS 1/2/3.
NOTE "HOLDING LIMITED TO ESTABLISHED PATTERN" FROM REMARKS TO HOLDING RESTRICTIONS.
ADDED REMARK "PRECIPITOUS TERRAIN EVALUATION COMPLETED."
MOVED NOTE "HOLD PAT 1, DME REQUIRED" FROM REMARKS TO HOLDING RESTRICTIONS.
UPDATED PAT 1 CONTROLLING OBSTACLE.

DEVELOPED BY: DATE: 04/28/2010 OFFICE: AVN-120 NAME: JOSE ALFONSO (BEV L BORDY)

APPROVED BY: DATE: 08/02/2010 OFFICE: AVN-120 NAME: SUE CRUMB

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: JADUB **STATE:** IN **COUNTRY:** US **ICAO REGION CODE:** K5

LATITUDE/LONGITUDE: 400146.97N/0852036.46W **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	BRICKYARD	VHP	VORTAC	H	073.42	074.42	49.00	49.00		10000	29000
2	ROSEWOOD	ROD	VORTAC	H	260.92	255.92	61.79	61.79		10000	29000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
VHP	VORTAC	R-073	49	10000	15400
ROD	VORTAC	R-261	62	10000	15600

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	GUNNE	1, 2		KCMH	COLUMBUS	OH (US)
STAR	GUNNE	1, 2		KLCK	COLUMBUS	OH (US)
STAR	GUNNE	1, 2		KOSU	COLUMBUS	OH (US)
STAR	GUNNE	1, 2		KTZR	COLUMBUS	OH (US)
STAR	GUNNE	1, 2		KLHQ	LANCASTER	OH (US)
STAR	GUNNE	1, 2		KVTA	NEWARK	OH (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 11/18/2010

REASON FOR REVISION:
ADDED DIST FROM FAC TO FACS 1/2.

DEVELOPED BY: **DATE:** 04/28/2010 **OFFICE:** AVN-120 **NAME:** JOSE ALFONSO (BEV L BORDY)

APPROVED BY: **DATE:** 08/02/2010 **OFFICE:** AVN-120 **NAME:** SUE CRUMB

SIGNATURE:

DISTRIBUTION: NFDC
FPO: CEN
ARTCC: ZID
ATC FACILITY:
OTHER: