

# RADIO FIX AND HOLDING DATA RECORD

NAME: APPLETON VORTAC

STATE: OH

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 400903.83N/0823517.88W

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	APPLETON	APE	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	NE	APE	VORTAC	055.00	235.00	R	1		3000	6000	4	5
2	NW	APE	VORTAC	328.00	148.00	L	1		2900	6000	4	5
3	S	APE	VORTAC	202.00	022.00	R	1		3000	6000	4	5
4	SE	APE	VORTAC	114.05	294.05	R	1		3000	6000	4	5
5	S	APE	VORTAC	194.00	014.00	R	1		3000	6000	4	5
6	NE		WP	055.00	235.00	R		4	3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (39-000448)	400920.44N/0823650.45W	1568	1D
2	200	TOWER (39-000783)	401344.22N/0823935.43W	1599	5D
3	200	TOWER (39-000448)	400920.44N/0823650.45W	1568	1D
4	200	TOWER (39-000448)	400920.44N/0823650.45W	1568	1D
5	200	TOWER (39-000448)	400920.44N/0823650.45W	1568	1D
6	200	TOWER (39-000448)	400920.44N/0823650.45W	1568	1D

REASON FOR NONSTANDARD HOLDING:

PAT 2 ATC REQUEST

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

PRECIPITOUS TERRAIN EVALUTION COMPLETE.  
ASSIGNED FACILITY MAGVAR: W6 1990.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	CINCINNATI			KCVG	COVINGTON/CINCINNATI	KY (US)
DP	LOCKBOURNE			KLCK	COLUMBUS	OH (US)
DP	DAYTON			KDAY	DAYTON	OH (US)
EN ROUTE	J178					(US)
EN ROUTE	J186					(US)
EN ROUTE	J30					(US)
EN ROUTE	J83					(US)
EN ROUTE	V12					(US)
EN ROUTE	V144					(US)
EN ROUTE	V19					(US)
EN ROUTE	V38					(US)
EN ROUTE	V43					(US)
EN ROUTE	V45					(US)
EN ROUTE	V493					(US)
EN ROUTE	V5					(US)
EN ROUTE	V523					(US)
EN ROUTE	V525					(US)
IAP	ILS OR LOC RWY 10L		1	KCMH	COLUMBUS	OH (US)
IAP	ILS OR LOC RWY 10R		1	KCMH	COLUMBUS	OH (US)
IAP	ILS OR LOC RWY 28L			KCMH	COLUMBUS	OH (US)
IAP	ILS OR LOC RWY 28R		1	KCMH	COLUMBUS	OH (US)
IAP	ILS RWY 10R (SA CAT I)		1	KCMH	COLUMBUS	OH (US)
IAP	ILS RWY 10R (SA CAT II)			KCMH	COLUMBUS	OH (US)
IAP	ILS RWY 28L (SA CAT I)			KCMH	COLUMBUS	OH (US)
IAP	ILS RWY 28L (SA CAT II)			KCMH	COLUMBUS	OH (US)
IAP	RNAV (GPS) Y RWY 10L		6	KCMH	COLUMBUS	OH (US)
IAP	RNAV (GPS) Y RWY 10R			KCMH	COLUMBUS	OH (US)
IAP	RNAV (GPS) Y RWY 28R			KCMH	COLUMBUS	OH (US)
IAP	RNAV (RNP) Z RWY 10L		6	KCMH	COLUMBUS	OH (US)
IAP	RNAV (RNP) Z RWY 28R			KCMH	COLUMBUS	OH (US)
IAP	ILS OR LOC RWY 5R			KLCK	COLUMBUS	OH (US)
IAP	ILS OR LOC RWY 5L			KLCK	COLUMBUS	OH (US)
IAP	ILS RWY 5R (CAT II)			KLCK	COLUMBUS	OH (US)
IAP	ILS RWY 5R (SA CAT I)			KLCK	COLUMBUS	OH (US)
IAP	NDB RWY 23L			KLCK	COLUMBUS	OH (US)
IAP	NDB RWY 5R			KLCK	COLUMBUS	OH (US)
IAP	ILS OR LOC RWY 9R (ALT MISS)		1	KOSU	COLUMBUS	OH (US)

QUALITY  
16  
CHECKED

IAP	RNAV (GPS) RWY 09R		KOSU	COLUMBUS	OH (US)
IAP	RNAV (GPS) RWY 27L		KOSU	COLUMBUS	OH (US)
IAP	VOR RWY 28	4	KDLZ	DELAWARE	OH (US)
IAP	RNAV (GPS) RWY 28		KLHQ	LANCASTER	OH (US)
IAP	VOR OR GPS-A	5	KLHQ	LANCASTER	OH (US)
IAP	LOC/DME RWY 25		KMNN	MARION	OH (US)
IAP	VOR-A		K4I9	MOUNT GILEAD	OH (US)
IAP	RNAV (GPS) RWY 10		K4I3	MOUNT VERNON	OH (US)
IAP	RNAV (GPS) RWY 28		K4I3	MOUNT VERNON	OH (US)
IAP	VOR-A	3	K4I3	MOUNT VERNON	OH (US)
IAP	LOC RWY 9	2	KVTA	NEWARK	OH (US)
IAP	VOR-A	2	KVTA	NEWARK	OH (US)
IAP	ILS OR LOC RWY 24		KSGH	SPRINGFIELD	OH (US)
IAP	ILS OR LOC RWY 22R		KILN	WILMINGTON	OH (US)
IAP	ILS RWY 22R (CAT II)		KILN	WILMINGTON	OH (US)
IAP	ILS RWY 22R (CAT III)		KILN	WILMINGTON	OH (US)
STAR	REDSTONE		KJVV	JEFFERSONVILLE	IN (US)
STAR	TIGRR (RNAV)		KCVG	COVINGTON	KY (US)
STAR	CINCE		KCVG	COVINGTON/CINCINNATI	KY (US)
STAR	CINCE		KK62	FALMOUTH	KY (US)
STAR	HEDEE		KK62	FALMOUTH	KY (US)
STAR	REDSTONE		KLOU	LOUISVILLE	KY (US)
STAR	REDSTONE		KSDF	LOUISVILLE	KY (US)
STAR	GEMNI		KDTW	DETROIT	MI (US)
STAR	CINCE		KI69	BATAVIA	OH (US)
STAR	HEDEE		KI69	BATAVIA	OH (US)
STAR	CINCE		KISZ	CINCINNATI	OH (US)
STAR	HEDEE		KISZ	CINCINNATI	OH (US)
STAR	CINCE		KLUK	CINCINNATI	OH (US)
STAR	HEDEE		KLUK	CINCINNATI	OH (US)
STAR	ZABER		KBKL	CLEVELAND	OH (US)
STAR	ZABER		KCGF	CLEVELAND	OH (US)
STAR	ZABER		KCLE	CLEVELAND	OH (US)
STAR	BREMN		KCMH	COLUMBUS	OH (US)
STAR	GUNNE		KCMH	COLUMBUS	OH (US)
STAR	BREMN		KLCK	COLUMBUS	OH (US)
STAR	GUNNE		KLCK	COLUMBUS	OH (US)
STAR	BREMN		KOSU	COLUMBUS	OH (US)
STAR	GUNNE		KOSU	COLUMBUS	OH (US)
STAR	BREMN		KTZR	COLUMBUS	OH (US)
STAR	GUNNE		KTZR	COLUMBUS	OH (US)
STAR	DANEI		KDAY	DAYTON	OH (US)
STAR	DANEI		KFFO	DAYTON	OH (US)
STAR	DANEI		KMGY	DAYTON	OH (US)
STAR	ZABER		K1G1	ELYRIA	OH (US)
STAR	CINCE		KHAO	HAMILTON	OH (US)
STAR	HEDEE		KHAO	HAMILTON	OH (US)
STAR	GUNNE		KLHQ	LANCASTER	OH (US)
STAR	ZABER		KLPR	LORAIN/ELYRIA	OH (US)
STAR	ZABER		K1G5	MEDINA	OH (US)
STAR	ZABER		K7G8	MIDDLEFIELD	OH (US)
STAR	DANEI		KMWO	MIDDLETOWN	OH (US)
STAR	GUNNE		KVTA	NEWARK	OH (US)
STAR	ZABER		K2G1	PAINESVILLE	OH (US)
STAR	DANEI		KSGH	SPRINGFIELD	OH (US)
STAR	ZABER		KLNN	WILLOUGHBY	OH (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 20

**DATE OF REVISION:** 01/05/2017

**REASON FOR REVISION:**

1. CHANGED PAT 4 RAD/CRS INBOUND FROM 114/294 TO 114.05/294.05 DUE TO FINAL COURSE CHANGE TO MEET FINAL ALIGNMENT. NO CHANGE TO CONTROLLING OBSTACLE.
2. ADDED FAC MAG VAR TO REMARKS.
3. REMOVED NDB OR GPS RWY 9 AT KVTA FROM FIX USE - APE NOT USED.
4. ADDED ILS OR LOC RWY 5L AT KLCK TO FIX USE.

**DEVELOPED BY:**      **DATE:** 08/10/2016

**OFFICE:** AJV-5421

**NAME:** DANIEL OLSON

**APPROVED BY:**      **DATE:**

**OFFICE:** AJV-5420

**NAME:** TONY LAWSON

**SIGNATURE:**

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

QUALITY  
16  
CHECKED

**INFO ONLY**

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** BUCKEYE VOR **STATE:** OH **COUNTRY:** US **ICAO REGION CODE:** K5  
**LATITUDE/LONGITUDE:** 403659.75N/0830349.78W **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 NM	FAC FEET	MRA	MAA
1	BUCKEYE	BUD	VOR	T							12000

**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 MIN	ALTITUDES MAX	TEMPLATES MIN	MAX
1	E	BUD	VOR	081.00	261.00	R	1		2900	6000	4	5

**CONTROLLING OBSTRUCTIONS:**

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (39-000382)	403609.00N/0830808.00W	1459	4D
1	310	TOWER (39-000854)	404116.00N/0824041.00W	1752	5D

**HOLDING RESTRICTIONS:**

HOLDING LIMITED TO ESTABLISHED PATTERN.

**PROCEDURES REQUIRING CLIMB-IN-HOLD:**

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	VOR-A	KMNN	MARION	OH (US)

**REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
 ASSIGNED FACILITY MAGVAR: 5 DEGREES WEST.

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	VOR RWY 22			K17G	BUCYRUS	OH (US)
IAP	VOR RWY 28			KDLZ	DELAWARE	OH (US)
IAP	LOC/DME RWY 25			KMNN	MARION	OH (US)
IAP	VOR-A		1	KMNN	MARION	OH (US)
IAP	VOR-A			K4I9	MOUNT GILEAD	OH (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 7 **DATE OF REVISION:** 05/26/2016

**REASON FOR REVISION:**

REMARKS - ADDED PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
 REMARKS - ADDED ASSIGNED FACILITY MAGVAR: 5 DEGREES WEST.  
 MOVED - HOLDING LIMITED TO ESTABLISHED PATTERN FROM REMARKS TO HOLDING. RESTRICTIONS.  
 UPDATED FIX USE.  
 UPDATED CONTROLLING OBSTRUCTIONS STATE ID.

**DEVELOPED BY:** **DATE:** 08/21/2015 **OFFICE:** AJV-5421 **NAME:** DEANNA FIELDS  
**APPROVED BY:** **DATE:** 03/02/2016 **OFFICE:** AJV-5420 **NAME:** GEORGE GONZALEZ

**SIGNATURE:**

**DISTRIBUTION:** NFDC  
 FPO: CEN  
 ARTCC: ZOB  
 ATC FACILITY: MFD  
 OTHER:

QUALITY  
16  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: GUTHY

STATE: OH

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 401322.99N/0825240.55W

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	294.05	288.05	14.00	14.00		3000	17500
2	BUCKEYE	BUD	VOR	T	165.09	160.09		25.09		3000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

APPLETON (FAC 1) USED TO ESTABLISH FIX COORDINATES

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	VOR RWY 28	1, 2		KDLZ	DELAWARE	OH (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 01/05/2017

## REASON FOR REVISION:

1. MOVED FIX 1 NM SE IN ORDER TO MEET STRAIGHT-IN ALIGNMENT AND CORRECT SEGMENT LENGTH. FIX NAME RETAINED AS PER ATC.
2. CHANGED FAC 1 MAG BRG/TRUE BRG FROM 294/288 TO 294.05/288.05 DUE TO FIX MOVEMENT AND ADDED DIST FROM FAC IN NM AS PER CRITERIA.
3. CHANGED FAC 2 MAG BRG/TRUE BRG FROM 166.98/161.98 TO 165.09/160.09 DUE TO FIX MOVEMENT AND ADDED DIST FROM FAC IN NMS AS PER CRITERIA.
4. CHANGED MRA FROM 2500 TO 3000 FOR BOTH FAC 1 AND 1 DUE TO PROCEDURE USE.
5. ADDED REMARK THAT FAC 1 USED TO DERIVE COORDINATES.
6. UPDATED FIX USE TO CORRECT FORMAT.
7. UPDATED FPO TO CENTRAL FPO.

DEVELOPED BY:

DATE: 08/09/2016

OFFICE: AJV-5421

NAME: DANIEL OLSON

APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: TONY LAWSON

SIGNATURE:

DISTRIBUTION:

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



# RADIO FIX AND HOLDING DATA RECORD

NAME: LEXII

STATE: OH

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 401513.26N/0830008.08W

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	294.05	288.05	20.00	20.00	121522	2600	17500
2	BUCKEYE	BUD	VOR	T	177.59	172.59		21.94		2600	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

APPLETON (FAC 1) USED TO ESTABLISH FIX COORDINATES

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	VOR RWY 28	1, 2		KDLZ	DELAWARE	OH (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 01/05/2017

## REASON FOR REVISION:

1. MOVED FIX 107.3 FT NE IN ORDER TO MEET STRAIGHT-IN ALIGNMENT.
2. CHANGED FAC 1 MAG BRG/TRUE BRG FROM 294/288 TO 294.05/288.05 DUE TO FIX MOVEMENT AND ADDED DIST FROM FAC IN NM AND FEET AS PER CRITERIA.
3. CHANGED FAC 2 MAG BRG/TRUE BRG FROM 177.65/172.65 TO 177.59/172.59 DUE TO FIX MOVEMENT AND ADDED DIST FROM FAC IN NMS AS PER CRITERIA.
4. CHANGED MRA FROM 2500 TO 2600 FOR BOTH FAC 1 AND 1 DUE TO PROCEDURE USE.
5. ADDED REMARK THAT FAC 1 USED TO DERIVE COORDINATES.
6. UPDATED FIX USE TO CORRECT FORMAT.
7. UPDATED FPO TO CENTRAL FPO AND ADDED CMH TO ATC FACILITY.

DEVELOPED BY: DATE: 08/09/2016

OFFICE: AJV-5421

NAME: DANIEL OLSON

APPROVED BY: DATE:

OFFICE: AJV-5420

NAME: TONY LAWSON

SIGNATURE:

DISTRIBUTION:

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

QUALITY  
16  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: WUBIB

STATE: OH

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 401642.23N/0830610.88W

TYPE: DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

## FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	APPLETON	APE	VORTAC	H	294.05	288.05	24.86	24.86		1420	3000

## FIX USE:

USE TYPE  
IAP

USE TITLE  
VOR RWY 28

FAC  
1

PAT

AIRPORT IDENT  
KDLZ

CITY  
DELAWARE

STATE  
OH (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 01/05/2017

DEVELOPED BY: DATE: 09/16/2016

OFFICE: AJV-5421

NAME: DANIEL OLSON

APPROVED BY: DATE:

OFFICE: AJV-5420

NAME: TONY LAWSON

SIGNATURE:

DISTRIBUTION:

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

QUALITY  
16  
CHECKED