

RADIO FIX AND HOLDING DATA RECORD

NAME: DRYER VOR/DME

STATE: OH

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 412129.03N/0820943.09W

TYPE:

AIRSPACE DOCKET: 16-AGL-2

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	DRYER	DJB	VOR/DME	H						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 DME	HOLDING ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	W	DJB	VOR/DME	253.01	073.01	L	1	3000 6000	4 5
2	NW	DJB	VOR/DME	305.00	125.00	R	1	3000 6000	4 5
3	W	DJB	VOR/DME	257.04	077.04	R	1	3000 6000	4 5
4	W	WP	WP	257.04	077.04	R	4	3000 6000	5 6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	TOWER (39-000125)	411610.19N/0820015.50W	1649	4D
1	200	TOWER (39-000782)	412533.00N/0820858.00W	1153	5D
2	200	TOWER (39-024979)	412032.54N/0821612.82W	1086	1A
3	200	TOWER (39-004162)	411549.25N/0821421.71W	1162	2C
4	200	TOWER (39-004162)	411549.25N/0821421.71W	1162	2C

REASON FOR NONSTANDARD HOLDING:

PAT 1 OBERLIN COLLEGE MUSIC CONSERVATORY

HOLDING RESTRICTIONS:

UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 3100.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ASSIGNED FACILITY MAGVAR: 5 DEGREES WEST (1980).

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BNGLE (RNAV)			KCVG	COVINGTON	KY (US)
DP	CINCINNATI			KCVG	COVINGTON	KY (US)
DP	BUFFALO			KBUF	BUFFALO	NY (US)
DP	AMRST			KCGF	CLEVELAND	OH (US)
DP	OBRLN			KCGF	CLEVELAND	OH (US)
DP	AMRST			KCLE	CLEVELAND	OH (US)
DP	OBRLN			KCLE	CLEVELAND	OH (US)
DP	LOCKBOURNE			KLCK	COLUMBUS	OH (US)
DP	DAYTON			KDAY	DAYTON	OH (US)
DP	AMRST			K1G1	ELYRIA	OH (US)
DP	OBRLN			K1G1	ELYRIA	OH (US)
DP	AMRST			KLPR	LORAIN/ELYRIA	OH (US)
DP	OBRLN			KLPR	LORAIN/ELYRIA	OH (US)
DP	AMRST			K1G5	MEDINA	OH (US)
DP	OBRLN			K1G5	MEDINA	OH (US)
DP	AMRST			K7G8	MIDDLEFIELD	OH (US)
DP	OBRLN			K7G8	MIDDLEFIELD	OH (US)
DP	AMRST			K2G1	PAINESVILLE	OH (US)
DP	OBRLN			K2G1	PAINESVILLE	OH (US)
DP	AMRST			KLNN	WILLOUGHBY	OH (US)
DP	OBRLN			KLNN	WILLOUGHBY	OH (US)
EN ROUTE	J162					(US)
EN ROUTE	J34					(US)
EN ROUTE	J518					(US)
EN ROUTE	J60					(US)
EN ROUTE	J83					(US)
EN ROUTE	J85					(US)
IAP	ILS OR LOC RWY 24R			KBKL	CLEVELAND	OH (US)
IAP	ILS OR LOC RWY 24			KCGF	CLEVELAND	OH (US)
IAP	ILS OR LOC RWY 24L			KCLE	CLEVELAND	OH (US)
IAP	ILS OR LOC RWY 24R		3	KCLE	CLEVELAND	OH (US)
IAP	ILS OR LOC RWY 28		3	KCLE	CLEVELAND	OH (US)
IAP	ILS OR LOC RWY 6L			KCLE	CLEVELAND	OH (US)
IAP	ILS OR LOC RWY 6R (ALT MISS)			KCLE	CLEVELAND	OH (US)
IAP	ILS RWY 24L (SA CAT II)			KCLE	CLEVELAND	OH (US)
IAP	ILS RWY 24R (CAT II-III)		3	KCLE	CLEVELAND	OH (US)
IAP	ILS RWY 24R (SA CAT I)		3	KCLE	CLEVELAND	OH (US)
IAP	ILS RWY 6L (CAT II-III)			KCLE	CLEVELAND	OH (US)
IAP	ILS RWY 6R (SA CAT II)(ALT MISS)			KCLE	CLEVELAND	OH (US)

IAP	RNAV (GPS) RWY 28	4	KCLE	CLEVELAND	OH (US)
IAP	RNAV (GPS) Y RWY 24R	4	KCLE	CLEVELAND	OH (US)
IAP	RNAV (RNP) Z RWY 24R	4	KCLE	CLEVELAND	OH (US)
IAP	VOR OR GPS-A	2	K1G1	ELYRIA	OH (US)
IAP	ILS OR LOC RWY 7	1, 4	KLPR	LORAIN/ELYRIA	OH (US)
IAP	VOR-A		KLPR	LORAIN/ELYRIA	OH (US)
IAP	RNAV (GPS) RWY 9		K1G5	MEDINA	OH (US)
IAP	CHARDON		K7G8	MIDDLEFIELD	OH (US)
STAR	LLEEO		CYQG	ONTARIO, CANADA	(CA)
STAR	KNOX		KORD	CHICAGO	IL (US)
STAR	LLEEO		KARB	ANN ARBOR	MI (US)
STAR	LLEEO		KDET	DETROIT	MI (US)
STAR	GEMNI		KDTW	DETROIT	MI (US)
STAR	WEEDA		KDTW	DETROIT	MI (US)
STAR	LLEEO		KYIP	DETROIT	MI (US)
STAR	LLEEO		KOZW	HOWELL	MI (US)
STAR	LLEEO		KMTC	MOUNT CLEMENS	MI (US)
STAR	LLEEO		KY47	NEW HUDSON	MI (US)
STAR	LLEEO		K1D2	PLYMOUTH	MI (US)
STAR	LLEEO		KPTK	PONTIAC	MI (US)
STAR	LLEEO		KVLL	TROY	MI (US)
STAR	CHARDON		KBKL	CLEVELAND	OH (US)
STAR	FAILS		KBKL	CLEVELAND	OH (US)
STAR	KEATN		KBKL	CLEVELAND	OH (US)
STAR	CHARDON		KCGF	CLEVELAND	OH (US)
STAR	FAILS		KCGF	CLEVELAND	OH (US)
STAR	KEATN		KCGF	CLEVELAND	OH (US)
STAR	CHARDON		KCLE	CLEVELAND	OH (US)
STAR	HIMEZ		KCLE	CLEVELAND	OH (US)
STAR	KEATN		KCLE	CLEVELAND	OH (US)
STAR	CHARDON		K1G1	ELYRIA	OH (US)
STAR	HIMEZ		K1G1	ELYRIA	OH (US)
STAR	KEATN		K1G1	ELYRIA	OH (US)
STAR	CHARDON		KLPR	LORAIN/ELYRIA	OH (US)
STAR	HIMEZ		KLPR	LORAIN/ELYRIA	OH (US)
STAR	KEATN		KLPR	LORAIN/ELYRIA	OH (US)
STAR	CHARDON		K1G5	MEDINA	OH (US)
STAR	HIMEZ		K1G5	MEDINA	OH (US)
STAR	KEATN		K1G5	MEDINA	OH (US)
STAR	FAILS		K7G8	MIDDLEFIELD	OH (US)
STAR	KEATN		K7G8	MIDDLEFIELD	OH (US)
STAR	CHARDON		K2G1	PAINESVILLE	OH (US)
STAR	FAILS		K2G1	PAINESVILLE	OH (US)
STAR	KEATN		K2G1	PAINESVILLE	OH (US)
STAR	CHARDON		KLNN	WILLOUGHBY	OH (US)
STAR	FAILS		KLNN	WILLOUGHBY	OH (US)
STAR	KEATN		KLNN	WILLOUGHBY	OH (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 14

DATE OF REVISION: 05/24/2018

REASON FOR REVISION:

1. DELETED V5 FROM FIX USE.
2. DELETED V26 FROM FIX USE.
3. DELETED V40 FROM FIX USE.
4. DELETED V443 FROM FIX USE.
5. DELETED V126 FROM FIX USE.
6. DELETED V522 FROM FIX USE.
7. DELETED V14, V525, V435, V75 FROM FIX USE.
8. DELETED V30 FROM FIX USE.
9. DELETED V426 FROM FIX USE.
10. DELETED V584 FROM FIX USE.
11. DELETED V6 FROM FIX USE.
12. ADDED KEATN, LLEEO, FAILS, CHARDON, HIMEZ STARS ASSOCIATED AIRPORTS TO FIX USE.
13. CHANGED USE TITLE FROM KCLE FROM ILS OR LOC/DME RWY 24R TO ILS OR LOC RWY 24R.
14. DELETED FROM FIX USE KCLE RNAV (GPS) RWY 10, RNAV (GPS) RWY 24R, RNAV (GPS) RWY 6L, AND RNAV (GPS) RWY 6R.
15. ADDED TO FIX USE KCLE RNAV (GPS) Y RWY 24R, RNAV (RNP) Z RWY 24R, RNAV (GPS) RWY 28.

DEVELOPED BY: **DATE:** 03/05/2018

OFFICE: AJV-5421

NAME: ROSE BOONE

APPROVED BY: **DATE:**

OFFICE: AJV-5420

NAME: JULIE MORGAN

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: CEN
ARTCC: ZOB
ATC FACILITY: CLE APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: FAILS

STATE: OH

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 415016.09N/0812513.25W

TYPE: WP, INT, DME

AIRSPACE DOCKET: 16-AGL-2

FIX TYPE OF ACTION: MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	MRA FEET	MAA
1	JEFFERSON	JFN	VOR/DME	L	284.00	279.00	30.53	30.53	2000	17500
2	DRYER	DJB	VOR/DME	H	054.00	049.00	44.07	44.07	2500	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
DJB	VOR/DME	R-054	45	2500	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	MIN	MAX
1	W	JFN	VOR/DME	284.00	104.00	L	1		5000	10000	7	11

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	SHIP	415116.00N/0812954.00W	691	2C

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS

REMARKS:

JEFFERSON (FAC 1) AND DRYER (FAC 2) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 10			KLNN	WILLOUGHBY	OH (US)
IAP	RNAV (GPS) RWY 23			KLNN	WILLOUGHBY	OH (US)
IAP	RNAV (GPS) RWY 28			KLNN	WILLOUGHBY	OH (US)
IAP	RNAV (GPS) RWY 5			KLNN	WILLOUGHBY	OH (US)
STAR	FAILS	1, 2	1	KBKL	CLEVELAND	OH (US)
STAR	FAILS	1, 2	1	KCGF	CLEVELAND	OH (US)
STAR	FAILS	1, 2	1	K7G8	MIDDLEFIELD	OH (US)
STAR	FAILS	1, 2	1	K2G1	PAINESVILLE	OH (US)
STAR	FAILS	1, 2	1	KLNN	WILLOUGHBY	OH (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 12

DATE OF REVISION: 05/24/2018

REASON FOR REVISION:

1. DELETED V10 FROM FIX USE.
2. DELETED V443 FROM FIX USE.
3. DELETED V522 FROM FIX USE.
4. DELETED V188 FROM FIX USE.
5. REORDERED FACILITIES.
6. CHANGED FAC 1 (JFN) MRA FROM 3000 TO 2000.

DEVELOPED BY:

DATE: 03/05/2018

OFFICE: AJV-5421

NAME: ROSE BOONE

APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: JULIE MORGAN

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZOB
ATC FACILITY: CLE APP CON
OTHER:

NAME: READS	STATE: OH	COUNTRY: US	ICAO REGION CODE: K5
LATITUDE/LONGITUDE: 404913.30N/0820827.15W		TYPE: WP, DME	
AIRSPACE DOCKET: 16-AGL-2	FIX TYPE OF ACTION: NO CHANGE		

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	MANSFIELD	MFD	VORTAC	L	100.89	097.89	20.70	20.70		3000	17500

HOLDING TYPE OF ACTION: NO CHANGE

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH		HOLDING ALTITUDES		TEMPLATES	
							TIME	DME	MIN	MAX	MIN	MAX
1	W	MFD	VORTAC	100.89	100.89	L	1		3000	6000	5	6
2	W		WP	284.89	104.89	L		4	3000	6000	5	6

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (39-000549)	405006.00N/0822103.00W	1725	4D
2	200	TOWER (39-000549)	405006.00N/0822103.00W	1725	4D

PAT 1 PROVIDES SIMULTANEOUS HOLDING AT READS INT. AND MF LOM (AT REQUEST)
PAT 2 ATC REQUEST.

HOLDING LIMITED TO ESTABLISHED PATTERN.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 19		2	K3G4	ASHLAND	OH (US)
IAP	VOR RWY 14		1	KMFD	MANSFIELD	OH (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 9 DATE OF REVISION: 05/24/2018

REASON FOR REVISION:
REMOVED:
V443 AND V8-542 FROM FIX USE

DEVELOPED BY: **DATE:** 11/30/2017 **OFFICE:** AJV-5412 **NAME:** ROSE BOONE

APPROVED BY: _____ **DATE:** _____ **OFFICE:** AJV-5420 **NAME:** JULIE MORGAN

SIGNATURE:

DISTRIBUTION: NFDC
FPO: CEN
ARTCC: ZOB
ATC FACILITY: MFD APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: DOGGS

STATE:

COUNTRY: CA

ICAO REGION CODE: CY

LATITUDE/LONGITUDE: 422339.35N/0810452.30W

TYPE: WP

AIRSPACE DOCKET: 16-AGL-2

FIX TYPE OF ACTION: MODIFY

REQUIRED CHARTING: EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 05/24/2018

REASON FOR REVISION:

REMOVED:

INT AND DME FROM FIX TYPE

FAC 1 (ERI), FAC 2 (YXU), AND FAC 3 (YQO)

V221 AND V443 FROM FIX USE

COMPULSORY REPORTING POINT

ADDED WP TO FIX TYPE

DEVELOPED BY:

DATE: 03/16/2018

OFFICE: AJV-5421

NAME: ROSE BOONE

APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: JULIE MORGAN

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: CEN

ARTCC: ZOB

ATC FACILITY:

OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: TIVERTON VOR/DME

STATE: OH

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 402729.04N/0820736.52W

TYPE:

AIRSPACE DOCKET: 16-AGL-2

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	TIVERTON	TVT	VOR/DME	L							17500

HOLDING:

HOLDING TYPE OF ACTION: CANCEL

REMARKS:

ASSIGNED FACILITY MAGVAR: 3 DEGREES WEST.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ROCKT (RNAV)			KCVG	COVINGTON	KY (US)
DP	ROCKT (RNAV)			KLUK	CINCINNATI	OH (US)
DP	ALLEGHENY			KAGC	PITTSBURGH	PA (US)
DP	PITTSBURGH			KPIT	PITTSBURGH	PA (US)
IAP	LOC RWY 25			KAKR	AKRON	OH (US)
IAP	NDB RWY 25			KAKR	AKRON	OH (US)
IAP	ILS OR LOC RWY 1			KCAK	AKRON	OH (US)
IAP	RNAV (GPS) RWY 9			K1G5	MEDINA	OH (US)
IAP	ILS OR LOC/DME RWY 22			KZZV	ZANESVILLE	OH (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 16

DATE OF REVISION: 05/24/2018

REASON FOR REVISION:

1. ADDED 16-AGL-2 TO AIRSPACE DOCKET.
2. REMOVED PAT1 FROM PATTERNS SECTION.
3. REMOVED PAT1 CONTROLLING OBSTACLE FROM CONTROLLING OBSTRUCTIONS SECTION.
4. REMOVED HOLDING LIMITED TO ESTABLISHED PATTERN FROM HOLDING RESTRICTIONS SECTION.
5. REMOVED PRECIPITOUS TERRAIN EVALUATION COMPLETED FROM REMARKS SECTION.
6. REMOVED V43, V92, V133, V210, V443, V523 AND V525 ENROUTE FROM FIX USE SECTION.
7. REMOVED VOR-A IAP @ K10G FROM FIX USE SECTION.
8. REMOVED RNAV (GPS) RWY 28 AND VOR-A IAPS @ K4I3 FROM FIX USE SECTION.
9. REMOVED VOR-A IAP @ K4I9 FROM FIX USE SECTION.
10. REMOVED KEATN STAR @ KBKL, KCGF, KCLE, K1G1, KLPR, K1G5, K7G8, K2G1, AND KLNN FROM FIX USE SECTION.
11. REMOVED STAR FROM REQUIRED CHARTING SECTION.

DEVELOPED BY: DATE: 12/04/2017

OFFICE: AJV-5423

NAME: MICHAEL GARRITY

APPROVED BY: DATE:

OFFICE: AJV-5420

NAME: JULIE MORGAN

SIGNATURE:

DISTRIBUTION:

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