

RADIO FIX AND HOLDING DATA RECORD

NAME: TOPHR LOM **STATE:** OH **COUNTRY:** US **ICAO REGION CODE:** K5

LATITUDE/LONGITUDE: 413310.29N/0835514.68W **TYPE:** DME

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	TOPHR	TO	LOM-NDB								17500
2	TOLEDO	I-TOL	LOC		252.16	247.16		6.38	38767	2200	5100
3	TOLEDO	TOL	TACAN	T			5.99	5.99		2200	12000

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	TO	LOM	252.00	072.00	L	1-1 1/2	2300 17500	4 16

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (39-001097)	413215.00N/0840754.00W	1073	5D
1	265	TOWER (39-001692)	413329.00N/0841108.00W	1246	5D

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

COORDINATES REFLECT LOCATION ON LOC/AZ CENTERLINE ABEAM THE TOPHR LOM.
ACTUAL FACILITY LOCATION IS 413312.48N/0835515.91W.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	HI-ILS OR LOC RWY 7	1, 2, 3		KTOL	TOLEDO	OH (US)
IAP	ILS OR LOC RWY 25	1	1	KTOL	TOLEDO	OH (US)
IAP	ILS OR LOC RWY 7	1, 2	1	KTOL	TOLEDO	OH (US)

REQUIRED CHARTING: MILITARY IAP, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 10 **DATE OF REVISION:** 05/24/2018

REASON FOR REVISION:

1. UPDATED FIX USE: DELETED K7W5 VOR RWY 28 - PROCEDURE CANCELLED.

DEVELOPED BY: **DATE:** 01/11/2018 **OFFICE:** AJV-5433 **NAME:** ANDREA CHANEY

APPROVED BY: **DATE:** **OFFICE:** AJV-5430 **NAME:** PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZOB
ATC FACILITY: TOL APP CON, TOL ATCT
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: WATERVILLE VOR/DME **STATE:** OH **COUNTRY:** US **ICAO REGION CODE:** K5

LATITUDE/LONGITUDE: 412705.35N/0833819.30W **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	WATERVILLE	VWV	VOR/DME	L							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	SE	VWV	VOR/DME	140.00	320.00	R	1	2400	14000 4 13
2	SE	VWV	VOR/DME	139.00	319.00	R	1	2300	6000 4 5
3	N	VWV	VOR/DME	358.76	178.76	R	1	2200	6000 4 5
4	S	WP	WP	184.43	004.43	R	4	2500	6000 5 6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	265	TOWER (39-001418)	413922.00N/0832645.00W	1849	5D
1	200	TOWER (39-001311)	412728.00N/0833933.00W	1051	5D
2	200	TOWER (39-001311)	412728.00N/0833933.00W	1051	5D
3	200	TOWER (39-000655)	413157.00N/0833536.00W	1149	5D
4	200	TOWER (39-001311)	412728.00N/0833933.00W	1050	5D

HOLDING RESTRICTIONS:

UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 3000.
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ASSIGNED FACILITY MAGVAR: 2 DEGREES WEST/1965.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	FORT WAYNE			KARB	ANN ARBOR	MI (US)
DP	RICHMOND			KARB	ANN ARBOR	MI (US)
DP	ROSEWOOD			KARB	ANN ARBOR	MI (US)
DP	FORT WAYNE			KDET	DETROIT	MI (US)
DP	RICHMOND			KDET	DETROIT	MI (US)
DP	ROSEWOOD			KDET	DETROIT	MI (US)
DP	FORT WAYNE			KDTW	DETROIT	MI (US)
DP	RICHMOND			KDTW	DETROIT	MI (US)
DP	ROSEWOOD			KDTW	DETROIT	MI (US)
DP	FORT WAYNE			KYIP	DETROIT	MI (US)
DP	RICHMOND			KYIP	DETROIT	MI (US)
DP	ROSEWOOD			KYIP	DETROIT	MI (US)
DP	FORT WAYNE			KPTK	PONTIAC	MI (US)
DP	RICHMOND			KPTK	PONTIAC	MI (US)
DP	ROSEWOOD			KPTK	PONTIAC	MI (US)
DP	AMRST			KCGF	CLEVELAND	OH (US)
DP	AMRST			KCLE	CLEVELAND	OH (US)
DP	AMRST			K1G1	ELYRIA	OH (US)
DP	AMRST			KLPR	LORAIN/ELYRIA	OH (US)
DP	AMRST			K1G5	MEDINA	OH (US)
DP	AMRST			K7G8	MIDDLEFIELD	OH (US)
DP	AMRST			K2G1	PAINESVILLE	OH (US)
DP	AMRST			KLNN	WILLOUGHBY	OH (US)
IAP	RNAV (GPS)-A		4	KDUH	LAMBERTVILLE	MI (US)
IAP	VOR RWY 18		3	K1G0	BOWLING GREEN	OH (US)
IAP	HI-ILS OR LOC RWY 25			KTOL	TOLEDO	OH (US)
IAP	ILS OR LOC RWY 25		1	KTOL	TOLEDO	OH (US)
IAP	ILS OR LOC RWY 7		1	KTOL	TOLEDO	OH (US)
IAP	RNAV (GPS) RWY 25			KTOL	TOLEDO	OH (US)
IAP	VOR/DME RWY 34		2	KTOL	TOLEDO	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)

REQUIRED CHARTING: DP, STAR, MILITARY IAP, IAP, CONTROLLER

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 22

DATE OF REVISION: 05/24/2018

REASON FOR REVISION:

1. IN REMARKS, ADDED ASSIGNED FACILITY MAGVAR: 2 DEGREES WEST/1965.
2. IN FIX USE, DELETED V47.
3. DELETED EN ROUTE HIGH FROM REQUIRED CHARTING.
4. IN HOLDING RESTRICTIONS, ADDED HOLDING LIMITED TO ESTABLISHED PATTERNS.
5. DELETED V 467 FROM FIX USE.
6. DELETED V126 FROM FIX USE.
7. DELETED NDB RWY 5 AT KADG FROM FIX USE.
8. DELETED RNAV (GPS) RWY 23 AT KADG FROM FIX USE.
9. DELETED RNAV (GPS) RWY 3 AT KTTF FROM FIX USE.
10. REMOVED K14G VOR RWY 9 FROM FIX USE.
11. DELETED V30 FROM FIX USE.
12. REMOVED V45 AND V493 FROM FIX USE.
13. DELETED V92 FROM FIX USE.
14. DELETED V584 FROM FIX USE.
15. DELETED V6 FROM FIX USE.
16. REMOVED EN ROUTE LOW FROM REQUIRED CHARTING.
17. REMOVED PAT 4 360 INBOUND/180 BRG FROM FIX USE ALONG WITH CONROLING OBSTACLE.
18. DELETED KDUH VOR OR GPS-A FROM FIX USE.
19. REMOVED RNAV (GPS) RWY 24 AND VOR RWY 6 AT K16G IN FIX USE.
20. ADDED WP PAT 6 004.43 INBOUND AND CONTROLLING OBSTACLE.
21. ADDED KDUH RNAV GPS-A TO FIX USE.
22. DELETED KFZI VOR-A AND RNAV (GPS) RWY 27 FROM FIX USE.
23. DELETED K7W5 RNAV (GPS) RWY 28 AND VOR RWY 28 FROM FIX USE.
24. DELETED KTDZ VOR RWY 4, RNAV (GPS) RWY 4 & RWY 32 FROM FIX USE.
25. DELETED HOLDING PAT 1 AND 5.

DEVELOPED BY: **DATE:** 02/06/2018

OFFICE: AJV-5412

NAME: ROSE BOONE

APPROVED BY: **DATE:**

OFFICE: AJV-5420

NAME: JULIE MORGAN

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: CHI
ARTCC: ZOB
ATC FACILITY: TOL APP CON, DTW APP CON
OTHER: