

INFO ONLY**RADIO FIX AND HOLDING DATA RECORD**

NAME: ADRIAN NDB

STATE: MI

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 415211.93N/0840438.93W

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	MRA	MAA
1	ADRIAN	ADG	NDB	MH						17500

FIX RESTRICTIONS:

SPECIAL COPTER RNAV (GPS) 239, K4MI9, ADRIAN, MI

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	SW	ADG	NDB	221.74	041.74	L	1		2500	10000	4	9
2	NE		WP	042.00	222.00	R		4	3000	5000	4	4

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (26-001082)	415614.60N/0840730.80W	1207	2C
1	310	TOWER (26-001719)	415713.00N/0841439.00W	1530	5D
2	100	TOWER (26-001576)	415849.00N/0840642.00W	1243	5D

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	NDB RWY 5	KADG	ADRIAN	MI (US)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	COPTER RNAV (GPS) 239		2	K4MI9	ADRIAN	MI (US)
IAP	NDB RWY 5		1	KADG	ADRIAN	MI (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 03/07/2013

REASON FOR REVISION:

ADDED FIX USE AT K4MI9
ADDED WP HOLDING PATTERN AND ALL ASSOCIATED DATA
ADDED PRECIPITOUS TERRAIN REMARK
UPDATED LAT/LONG TO MATCH AVNIS
CIH ENTRIES UPDATED TO CURRENT CRITERIA
ADDED HOLDING LIMITED REMARK
UPDATED PAT 1 CONTROLLING OBSTACLES

INITIATED BY:

DATE: 09/30/2009

ORGANIZATION: ASTECH
ENGINEERING INC

NAME: JEFF WILSON

DEVELOPED BY:

DATE: 09/30/2009

OFFICE: AVN-101

NAME: GARY WILSON

APPROVED BY:

DATE: 01/31/2013

OFFICE: AVN-120

NAME: SUE CRUMB

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZOB
ATC FACILITY: TOL APP CON
OTHER: ASTECH ENGINEERING INC

INFO ONLY

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: 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	SW	VWV	VOR/DME	228.52	048.52	R	1	2300 6000	4 5
2	SE	VWV	VOR/DME	140.00	320.00	R	1	2400 14000	4 13
3	SE	VWV	VOR/DME	139.00	319.00	R	1	2300 6000	4 5
4	S	VWV	VOR/DME	180.00	360.00	R	1	2500 6000	4 5
5	N	VWV	VOR/DME	358.76	178.76	R	1	2200 6000	4 5
6	SW	WP	WP	240.50	060.50	R		2300 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	WINDMILL (39-004119)	412227.50N/0834427.43W	1068	4D
2	200	TOWER (39-001311)	412728.00N/0833933.00W	1051	5D
3	200	TOWER (39-001311)	412728.00N/0833933.00W	1051	5D
4	200	TOWER (39-001311)	412728.00N/0833933.00W	1051	5D
5	200	TOWER (39-000655)	413157.00N/0833536.00W	1149	5D
6	200	WINDMILL (39-004119)	412227.50N/0834427.43W	1068	4D

HOLDING RESTRICTIONS:

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

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ASSIGNED FACILITY MAGAVR: 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)
EN ROUTE	V30					(US)
EN ROUTE	V45					(US)
EN ROUTE	V493					(US)
EN ROUTE	V584					(US)
EN ROUTE	V6					(US)
EN ROUTE	V92					(US)
IAP	VOR OR GPS-A		4	KDUH	LAMBERTVILLE	MI (US)
IAP	RNAV (GPS) RWY 3			KTTF	MONROE	MI (US)
IAP	VOR RWY 18		5	K1G0	BOWLING GREEN	OH (US)
IAP	RNAV (GPS) RWY 27			KFZI	FOSTORIA	OH (US)
IAP	VOR-A			KFZI	FOSTORIA	OH (US)
IAP	VOR RWY 9			K14G	FREMONT	OH (US)
IAP	RNAV (GPS) RWY 28			K7W5	NAPOLEON	OH (US)
IAP	VOR RWY 28		2	K7W5	NAPOLEON	OH (US)
IAP	RNAV (GPS) RWY 24			K16G	TIFFIN	OH (US)
IAP	VOR RWY 6			K16G	TIFFIN	OH (US)

IAP	RNAV (GPS) RWY 32	6	KTDZ	TOLEDO	OH (US)
IAP	RNAV (GPS) RWY 4	6	KTDZ	TOLEDO	OH (US)
IAP	VOR RWY 4	1	KTDZ	TOLEDO	OH (US)
IAP	HI-ILS OR LOC RWY 25		KTOL	TOLEDO	OH (US)
IAP	ILS OR LOC RWY 25	2	KTOL	TOLEDO	OH (US)
IAP	ILS OR LOC RWY 7	2	KTOL	TOLEDO	OH (US)
IAP	RNAV (GPS) RWY 25		KTOL	TOLEDO	OH (US)
IAP	VOR/DME RWY 34	3	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, EN ROUTE LOW, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 22

DATE OF REVISION: 05/24/2018

REASON FOR REVISION:

1. IN REMARKS, ADDED ASSIGNED FACILITY MAGAVR: 2 DEGREES WEST/1965.
2. IN FIX USE, DELETED V47.
3. IN FIX USE MADE V30, V45, AND V493 SEPARATE ENTRIES.
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.

DEVELOPED BY: **DATE:** 11/17/2017 **OFFICE:** AJV-5422 **NAME:** KEVIN KESZLER

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: