

# RADIO FIX AND HOLDING DATA RECORD

NAME: BALAS

STATE: MI

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 422218.73N/0831317.66W

TYPE: WP, RADAR, 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	DETROIT	I-EJR	LOC/DME		035.72	028.72	12.22	12.23		4000	5000

## EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-EJR	LOC/DME	R-036	11	4000	5000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

DME COORDINATES: 421134.31N-0832109.69W.  
ESV IS FOR I-EJR GS.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 21L	1		KDTW	DETROIT	MI (US)
IAP	ILS RWY 21L (SA CAT I)	1		KDTW	DETROIT	MI (US)
IAP	ILS RWY 21L (SA CAT II)	1		KDTW	DETROIT	MI (US)
IAP	RNAV (GPS) RWY 21L			KDTW	DETROIT	MI (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 11/10/2016

## REASON FOR REVISION:

FIX MOVED .29 NM NE PER FPT/ATC REQUEST, LAT/LONG UPDATED  
MAGVAR CHANGE FROM 6W TO 7W  
UPDATED FIX MAKE-UP FACILITY DATA  
UPDATED ESV RADIAL/BEARING  
UPDATED FIX USE

DEVELOPED BY:

DATE: 05/23/2016

OFFICE: AJV-5423

NAME: THOMAS KIRKPATRICK (LUCAS MCCLOUD)

APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: TONY LAWSON

SIGNATURE:

DISTRIBUTION:

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

QUALITY  
25  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** CARLETON VORTAC      **STATE:** MI      **COUNTRY:** US      **ICAO REGION CODE:** K5

**LATITUDE/LONGITUDE:** 420252.89N/0832727.29W      **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 FAC NM	FEET	MRA	MAA
1	CARLETON	CRL	VORTAC	H							45000

**FIX RESTRICTIONS:**

UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 3000.

**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	S	CRL	VORTAC	180.00	360.00	R	1		3000	6000	4	5
2	W	CRL	VORTAC	260.00	080.00	R	1		2400	6000	4	5
3	S	CRL	VORTAC	196.00	016.00	R	1		3000	6000	4	5
4	S		WP	196.00	016.00	R		4	3000	6000	5	6

**CONTROLLING OBSTRUCTIONS:**

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	TOWER (26-002207)	420108.16N/0831422.74W	1079	5D
1	200	TOWER (26-003174)	420358.25N/0832337.21W	1017	1B
2	200	STACK (26-000291)	415940.00N/0833936.00W	1016	5D
3	200	TOWER (26-003174)	420358.25N/0832337.21W	1017	1B
3	310	STACK (26-000438)	415327.00N/0832043.00W	1386	5D
4	200	TOWER (26-000288)	415328.00N/0832540.00W	1014	4D

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

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
3	ILS OR LOC RWY 27L	KDTW	DETROIT	MI (US)
3	ILS RWY 27L (SA CAT I, II)	KDTW	DETROIT	MI (US)

**REMARKS:**

PRECIPITIOUS TERRAIN EVALUATION COMPLETED.  
HOLDING PAT 3 CLIMB IN HOLD EVALUATED PAT 13.  
ASSIGNED FACILITY MAG VAR: 3W 1965.

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	AMRST			KBKL	CLEVELAND	OH (US)
DP	SANDUSKY			KBKL	CLEVELAND	OH (US)
DP	AMRST			KCGF	CLEVELAND	OH (US)
DP	SANDUSKY			KCGF	CLEVELAND	OH (US)
DP	AMRST			KCLE	CLEVELAND	OH (US)
DP	SANDUSKY			KCLE	CLEVELAND	OH (US)
DP	AMRST			K1G1	ELYRIA	OH (US)
DP	SANDUSKY			K1G1	ELYRIA	OH (US)
DP	AMRST			KLPR	LORAIN/ELYRIA	OH (US)
DP	SANDUSKY			KLPR	LORAIN/ELYRIA	OH (US)
DP	AMRST			K1G5	MEDINA	OH (US)
DP	SANDUSKY			K1G5	MEDINA	OH (US)
DP	AMRST			K7G8	MIDDLEFIELD	OH (US)
DP	SANDUSKY			K7G8	MIDDLEFIELD	OH (US)
DP	AMRST			K2G1	PAINESVILLE	OH (US)
DP	SANDUSKY			K2G1	PAINESVILLE	OH (US)
DP	AMRST			KLNN	WILLOUGHBY	OH (US)
DP	SANDUSKY			KLNN	WILLOUGHBY	OH (US)
EN ROUTE	J190					(US)
EN ROUTE	J34					(US)
EN ROUTE	J554					(US)
EN ROUTE	J584					(US)
EN ROUTE	V10					(US)
EN ROUTE	V176					(US)
EN ROUTE	V188					(US)
EN ROUTE	V426					(US)
EN ROUTE	V493					(US)
EN ROUTE	V65					(US)
IAP	VOR RWY 6			KARB	ANN ARBOR	MI (US)
IAP	ILS OR LOC RWY 21L		1	KDTW	DETROIT	MI (US)
IAP	ILS OR LOC RWY 22L		3	KDTW	DETROIT	MI (US)
IAP	ILS OR LOC RWY 27L		3	KDTW	DETROIT	MI (US)
IAP	ILS RPM RWY 22L		3	KDTW	DETROIT	MI (US)
IAP	ILS RWY 21L (SA CAT I, II)		1	KDTW	DETROIT	MI (US)
IAP	ILS RWY 22L (SA CAT I, II)		3	KDTW	DETROIT	MI (US)
IAP	ILS RWY 27L (SA CAT I, II)		3	KDTW	DETROIT	MI (US)

QUALITY  
25  
CHECKED

IAP	RNAV (GPS) RWY 22L	4	KDTW	DETROIT	MI (US)
IAP	ILS OR LOC RWY 5R		KYIP	DETROIT	MI (US)
IAP	RNAV (GPS) RWY 23R		KYIP	DETROIT	MI (US)
IAP	NDB RWY 4		KONZ	DETROIT/GROSSE ILE	MI (US)
IAP	VOR-A	2	KONZ	DETROIT/GROSSE ILE	MI (US)
IAP	VOR RWY 21	1	KTTF	MONROE	MI (US)
IAP	VOR-A		K3TE	TECUMSEH	MI (US)
IAP	HI-ILS OR LOC RWY 7		KTOL	TOLEDO	OH (US)
IAP	HI-ILS OR LOC RWY 25		KTOL	TOLEDO	OH (US)
IAP	HI-TACAN RWY 25		KTOL	TOLEDO	OH (US)
IAP	HI-TACAN RWY 7		KTOL	TOLEDO	OH (US)
IAP	RNAV (GPS) RWY 25		KTOL	TOLEDO	OH (US)
STAR	CRUXX		KARB	ANN ARBOR	MI (US)
STAR	MIZAR		KDTW	DETROIT	MI (US)
STAR	WEEDA		KDTW	DETROIT	MI (US)
STAR	CRUXX		KYIP	DETROIT	MI (US)
STAR	CRUXX		KONZ	DETROIT/GROSSE ILE	MI (US)
STAR	CRUXX		KOZW	HOWELL	MI (US)
STAR	CRUXX		KTTF	MONROE	MI (US)
STAR	CRUXX		KY47	NEW HUDSON	MI (US)
STAR	CRUXX		K1D2	PLYMOUTH	MI (US)
STAR	CRUXX		KPTK	PONTIAC	MI (US)
STAR	CRUXX		K36MI	TECUMSEH	MI (US)
STAR	CRUXX		K3TE	TECUMSEH	MI (US)
STAR	CRUXX		KVLL	TROY	MI (US)
STAR	FAILS		KBKL	CLEVELAND	OH (US)
STAR	FAILS		KCGF	CLEVELAND	OH (US)
STAR	HIMEZ		KCLE	CLEVELAND	OH (US)
STAR	HIMEZ		K1G1	ELYRIA	OH (US)
STAR	HIMEZ		KLPR	LORAIN/ELYRIA	OH (US)
STAR	HIMEZ		K1G5	MEDINA	OH (US)
STAR	FAILS		K7G8	MIDDLEFIELD	OH (US)
STAR	FAILS		K2G1	PAINESVILLE	OH (US)
STAR	FAILS		KLNN	WILLOUGHBY	OH (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 17

**DATE OF REVISION:** 11/10/2016

**REASON FOR REVISION:**

HOLDING PATTERN 1: MIN HOLDING 2600 CHANGED TO 3000.

HOLDING PATTERN 1. UPDATED CONTROLLING OBSTACLE DATA.

HOLDING PATTERN 3. UPDATED CONTROLLING OBSTACLE DATA AND ADDED C-I-H 310 DATA.

ADD UNPLANNED HOLDING CONTROLLING OBSTACLE.

FIX RESTRICTIONS: REMOVED HOLDING LIMITED TO ESTABLISHED PATTERNS.

UPDATED FIX USE.

**DEVELOPED BY:**      **DATE:** 06/17/2016      **OFFICE:** AJV-5421      **NAME:** DEANNA FIELDS

**APPROVED BY:**      **DATE:**      **OFFICE:** AJV-5420      **NAME:** TONY LAWSON

**SIGNATURE:**

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

QUALITY  
25  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: COUNT

STATE: MI

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 423034.81N/0830709.11W

TYPE: WP, RADAR, 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	DETROIT	I-EJR	LOC/DME		035.72	028.72	21.66	21.67		6000	8000

## EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-EJR	LOC/DME	R-036	22	6000	8000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

ADDITIONAL ESV INFO: DME (R-036/22, 6000-8000)

DME COORDINATES: 421134.31N-0832109.69W

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 21L	1		KDTW	DETROIT	MI (US)
IAP	ILS RWY 21L (SA CAT I)	1		KDTW	DETROIT	MI (US)
IAP	ILS RWY 21L (SA CAT II)	1		KDTW	DETROIT	MI (US)
IAP	RNAV (GPS) RWY 21L			KDTW	DETROIT	MI (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 11/10/2016

## REASON FOR REVISION:

FIX RELOCATED 1.01 NM NORTHEAST. FIX NAME RETAINED PER ATC REQUEST

MAGVAR CHANGE FROM 6W TO 7W

UPDATED FIX MAKE-UP FACILITY DATA

UPDATED ESV RADIAL/BEARING

UPDATED FIX USE

DEVELOPED BY:

DATE: 05/23/2016

OFFICE: AJV-5423

NAME: THOMAS KIRKPATRICK (LUCAS MCCLOUD)

APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: TONY LAWSON

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: CEN

ARTCC: ZOB

ATC FACILITY: DTW APP CON

OTHER:



# RADIO FIX AND HOLDING DATA RECORD

NAME: GROSSE ILE NDB

STATE: MI

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 420604.04N/0830910.72W

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	GROSSE ILE	RYS	NDB	MH							17500

## FIX RESTRICTIONS:

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

## 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	SW	RYS	NDB	223.00	043.00	R	1		2400	10000	4	9

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	230	STACK (26-000438)	415327.00N/0832043.00W	1386	5D
1	200	STACK (26-000370)	420718.61N/0831050.62W	1146	1A
1	230	STACK (26-000438)	415327.00N/0832043.00W	1386	5D

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
GROSSE ILE NDB MAGNETIC VARIATION W7/2010.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	NDB RWY 4	1	1	KONZ	DETROIT/GROSSE ILE	MI (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 11/10/2016

## REASON FOR REVISION:

UPDATED HOLDING PATTERN 1 MIN HOLDING ALTITUDE  
DELETED HOLDING PATTERN 2  
UPDATED CONTROLLING OBSTRUCTIONS, PAT 1, OBS CODE/DESCRIPTION FROM 'SMOKESTACK KONZT0958' TO 'STACK 26-000370' - SAME HEIGHT AND LOCATION  
ADDED MAGNETIC VARIATION REMARK  
ADDED FIX USE, KDTW, ILS AND RNAV 21L PROCEDURES

DEVELOPED BY: DATE: 05/24/2016 OFFICE: AJV-5423 NAME: THOMAS KIRKPATRICK (LUCAS MCCLOUD)

APPROVED BY: DATE: OFFICE: AJV-5420 NAME: TONY LAWSON

SIGNATURE:

## DISTRIBUTION:

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

QUALITY  
25  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: NESBI

STATE: MI

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 421933.30N/0831520.18W

TYPE: WP, RADAR, 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	DETROIT	I-EJR	LOC/DME		035.72	028.72	9.08	9.09		3000	5100

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

DME COORDINATES: 421134.31N-0832109.69W.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 21L	1		KDTW	DETROIT	MI (US)
IAP	ILS RWY 21L (SA CAT I & II)	1		KDTW	DETROIT	MI (US)
IAP	RNAV (GPS) RWY 21L			KDTW	DETROIT	MI (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7

DATE OF REVISION: 11/10/2016

## REASON FOR REVISION:

FIX MOVED .14 NM NE PER FPT/ATC REQUEST, LAT/LONG UPDATED  
MAGVAR CHANGE FROM 6W TO 7W  
UPDATED FIX MAKE-UP FACILITY DATA  
UPDATED FIX USE

DEVELOPED BY:

DATE: 05/24/2016

OFFICE: AJV-5423

NAME: THOMAS KIRKPATRICK (LUCAS MCCLOUD)

APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: TONY LAWSON

SIGNATURE:

DISTRIBUTION:

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

QUALITY  
25  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: PUKLE

STATE: MI

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 421647.84N/0831722.53W

TYPE: WP, RADAR, 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	DETROIT	I-EJR	LOC/DME		035.72	028.72	5.93	5.94	36121	2000	5100
2	SALEM	SVM	VORTAC	L	122.58	119.58		15.59		2000	5100

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

DETROIT (FAC 1) USED TO ESTABLISH FIX COORDINATES  
DME COORDINATES: 421134.31N-0832109.69W.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 21L	1, 2		KDTW	DETROIT	MI (US)
IAP	ILS RWY 21L (SA CAT I & II)	1, 2		KDTW	DETROIT	MI (US)
IAP	RNAV (GPS) RWY 21L			KDTW	DETROIT	MI (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 11/10/2016

## REASON FOR REVISION:

FIX RELOCATED 1.79 NM SOUTHWEST. FIX NAME RETAINED PER ATC REQUEST.  
MAGVAR CHANGE FROM 6W TO 7W FOR EJR LOC/DME  
UPDATED FIX MAKE-UP FACILITIES DATA  
UPDATED FIX USE

DEVELOPED BY:

DATE: 05/24/2016

OFFICE: AJV-5423

NAME: THOMAS KIRKPATRICK (LUCAS MCCLOUD)

APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: TONY LAWSON

SIGNATURE:

DISTRIBUTION:

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

QUALITY  
25  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** ROBBI **STATE:** MI **COUNTRY:** US **ICAO REGION CODE:** K5

**LATITUDE/LONGITUDE:** 422504.11N/0831114.96W **TYPE:** WP, RADAR, 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	DETROIT	I-EJR	LOC/DME		035.72	028.72	15.37	15.38		5000	6000

**EXPANDED SERVICE VOLUME (ESV):**

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-EJR	LOC/DME	R-036	16	5200	6000

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

**REMARKS:**

DME COORDINATES: 421134.31N-0832109.69W.  
ADDITIONAL ESV INFO: DME (R-036/16, 5200-6000).

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 21L	1		KDTW	DETROIT	MI (US)
IAP	ILS RWY 21L (SA CAT I & II)	1		KDTW	DETROIT	MI (US)
IAP	RNAV (GPS) RWY 21L			KDTW	DETROIT	MI (US)

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 9 **DATE OF REVISION:** 11/10/2016

**REASON FOR REVISION:**

FIX MOVED .49 NM NE PER FPT/ATC REQUEST, LAT/LONG UPDATED  
MAGVAR CHANGE FROM 6W TO 7W  
UPDATED FIX MAKE-UP FACILITY DATA  
UPDATED ESV RADIAL/BEARING  
UPDATED FIX USE

**DEVELOPED BY:** **DATE:** 05/24/2016 **OFFICE:** AJV-5423 **NAME:** THOMAS KIRKPATRICK (LUCAS MCCLOUD)

**APPROVED BY:** **DATE:** **OFFICE:** AJV-5420 **NAME:** TONY LAWSON

**SIGNATURE:**

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





# RADIO FIX AND HOLDING DATA RECORD

NAME: TIGRZ

STATE: MI

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 422749.46N/0830912.08W

TYPE: WP, RADAR, 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	DETROIT	I-EJR	LOC/DME		035.72	028.72	18.51	18.52		5000	6000

## EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-EJR	LOC/DME	R-036	19	5000	6000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

DME COORDINATES: 421134.31N-0832109.69W.  
ADDITIONAL ESV INFO: DME (R-036/19, 5000-6000).

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 21L	1		KDTW	DETROIT	MI (US)
IAP	ILS RWY 21L (SA CAT I & II)	1		KDTW	DETROIT	MI (US)
IAP	RNAV (GPS) RWY 21L			KDTW	DETROIT	MI (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 11/10/2016

## REASON FOR REVISION:

FIX MOVED .73 NM NE PER FPT/ATC REQUEST, LAT/LONG UPDATED  
MAGVAR CHANGE FROM 6W TO 7W  
UPDATED FIX MAKE-UP FACILITY DATA  
UPDATED ESV RADIAL/BEARING  
UPDATED FIX USE



DEVELOPED BY:

DATE: 05/24/2016

OFFICE: AJV-5423

NAME: THOMAS KIRKPATRICK (LUCAS MCCLOUD)

APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: TONY LAWSON

SIGNATURE:

DISTRIBUTION:

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

