

# RADIO FIX AND HOLDING DATA RECORD

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

**LATITUDE/LONGITUDE:** 415201.99N/0833659.29W **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-DTW	LOC/DME		215.69	208.69	25.03	25.04		8000	10000

**EXPANDED SERVICE VOLUME (ESV):**

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-DTW	LOC/DME	R-216	26	8000	10000

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

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 4R	1		KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (CAT II)(CP)	1		KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (CAT III)(CP)	1		KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (CP)	1		KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (SA CAT I)(CP)	1		KDTW	DETROIT	MI (US)
IAP	ILS RWY 4R (CAT II)	1		KDTW	DETROIT	MI (US)
IAP	ILS RWY 4R (CAT III)	1		KDTW	DETROIT	MI (US)
IAP	ILS RWY 4R (SA CAT I)	1		KDTW	DETROIT	MI (US)
IAP	RNAV (GPS) PRM Z RWY 4R (CP)			KDTW	DETROIT	MI (US)
IAP	RNAV (GPS) Z RWY 4R			KDTW	DETROIT	MI (US)
IAP	RNAV (RNP) PRM X RWY 4R			KDTW	DETROIT	MI (US)
IAP	RNAV (RNP) X RWY 4R			KDTW	DETROIT	MI (US)

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 1 **DATE OF REVISION:** 05/24/2018

**REASON FOR REVISION:**

FAC 1 MAG/TRUE BRG UPDATED FROM 215.70/208.70 TO 215.69/208.69  
 ADDED RNAV (RNP) PRM X RWY 4R TO FIX USE  
 ADDED RNAV (RNP) X RWY 4R TO FIX USE

**DEVELOPED BY:** **DATE:** 01/16/2018 **OFFICE:** AJV-5431 **NAME:** NICHOLAS JACKSON

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

**SIGNATURE:**

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

# RADIO FIX AND HOLDING DATA RECORD

NAME: CAATZ

STATE: MI

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 414824.82N/0832645.92W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 4R			KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (CAT II) (CP)			KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (CAT III) (CP)			KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (CP)			KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (SA CAT I) (CP)			KDTW	DETROIT	MI (US)
IAP	ILS RWY 4R (CAT II)			KDTW	DETROIT	MI (US)
IAP	ILS RWY 4R (CAT III)			KDTW	DETROIT	MI (US)
IAP	ILS RWY 4R (SA CAT I)			KDTW	DETROIT	MI (US)
IAP	RNAV (GPS) PRM Z RWY 4R (CP)			KDTW	DETROIT	MI (US)
IAP	RNAV (GPS) Z RWY 4R			KDTW	DETROIT	MI (US)
IAP	RNAV (RNP) PRM X RWY 4R			KDTW	DETROIT	MI (US)
IAP	RNAV (RNP) X RWY 4R			KDTW	DETROIT	MI (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 05/24/2018

## REASON FOR REVISION:

FIX MOVED 1.96 NM WEST  
FIX NAME RETAINED, ATC OPERATIONAL REQUEST  
ADDED ILS OR LOC RWY 4R TO FIX USE  
ADDED ILS PRM RWY 4R(CAT II)(CP) TO FIX USE  
ADDED ILS PRM RWY 4R (CAT III)(CP) TO FIX USE  
ADDED ILS PRM RWY 4R (CP) TO FIX USE  
ADDED ILS RWY 4R (CAT II) TO FIX USE  
ADDED ILS RWY 4R (CAT III) TO FIX USE  
ADDED ILS RWY 4R (SA CAT I) TO FIX USE  
ADDED RNAV (RNP) PRM X RWY 4R TO FIX USE  
ADDED RNAV (RNP) X RWY 4R TO FIX USE

DEVELOPED BY: DATE: 01/16/2018

OFFICE: AJV-5431

NAME: NICHOLAS JACKSON

APPROVED BY: DATE:

OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

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

# RADIO FIX AND HOLDING DATA RECORD

NAME: CLEVR

STATE: MI

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 415132.62N/0834339.27W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 4R			KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (CAT II) (CP)			KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (CAT III) (CP)			KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (CP)			KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (SA CAT I) (CP)			KDTW	DETROIT	MI (US)
IAP	ILS RWY 4R (CAT II)			KDTW	DETROIT	MI (US)
IAP	ILS RWY 4R (CAT III)			KDTW	DETROIT	MI (US)
IAP	ILS RWY 4R (SA CAT I)			KDTW	DETROIT	MI (US)
IAP	RNAV (GPS) PRM Z RWY 4R (CP)			KDTW	DETROIT	MI (US)
IAP	RNAV (GPS) Z RWY 4R			KDTW	DETROIT	MI (US)
IAP	RNAV (RNP) PRM X RWY 4R			KDTW	DETROIT	MI (US)
IAP	RNAV (RNP) X RWY 4R			KDTW	DETROIT	MI (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 05/24/2018

## REASON FOR REVISION:

FIX MOVED 4.37 NM EAST  
FIX NAME RETAINED, ATC OPERATIONAL REQUEST  
ADDED ILS OR LOC RWY 4R TO FIX USE  
ADDED ILS PRM RWY 4R (CAT II)(CP) TO FIX USE  
ADDED ILS PRM RWY 4R (CAT III)(CP) TO FIX USE  
ADDED ILS PRM RWY 4R (CP) TO FIX USE  
ADDED ILS RWY 4R (CAT II) TO FIX USE  
ADDED ILS RWY 4R (CAT III) TO FIX USE  
ADDED ILS RWY 4R (SA CAT I) TO FIX USE  
ADDED RNAV (RNP) PRM X RWY 4R TO FIX USE  
ADDED RNAV (RNP) X RWY 4R TO FIX USE

DEVELOPED BY:

DATE: 01/16/2018

OFFICE: AJV-5431

NAME: NICHOLAS JACKSON

APPROVED BY:

DATE:

OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

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

# RADIO FIX AND HOLDING DATA RECORD

NAME: CULOP

STATE: MI

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 415733.18N/0833258.02W

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-DTW	LOC/DME		215.69	208.69	18.75	18.76		6000	8000

## EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-DTW	LOC/DME	R-216	19	6000	8000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

I-DTW DME: 421359.73N/0832050.33W

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 4R	1		KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (CAT II) (CP)	1		KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (CAT III) (CP)	1		KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (CP)	1		KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (SA CAT I) (CP)	1		KDTW	DETROIT	MI (US)
IAP	ILS RWY 4R (CAT II)	1		KDTW	DETROIT	MI (US)
IAP	ILS RWY 4R (CAT III)	1		KDTW	DETROIT	MI (US)
IAP	ILS RWY 4R (SA CAT I)	1		KDTW	DETROIT	MI (US)
IAP	RNAV (GPS) PRM Z RWY 4R (CP)			KDTW	DETROIT	MI (US)
IAP	RNAV (GPS) Z RWY 4R			KDTW	DETROIT	MI (US)
IAP	RNAV (RNP) PRM X RWY 4R			KDTW	DETROIT	MI (US)
IAP	RNAV (RNP) X RWY 4R			KDTW	DETROIT	MI (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 05/24/2018

## REASON FOR REVISION:

FAC 1 MAG/TRUE BRG UPDATED FROM 215.70/208.70 TO 215.69/208.69  
ADDED RNAV (RNP) X RWY 4R TO FIX USE  
ADDED RNAV (RNP) PRM X RWY 4R TO FIX USE  
UPDATED I-DTW DME COORDINATES

DEVELOPED BY:

DATE: 01/16/2018

OFFICE: AJV-5431

NAME: NICHOLAS JACKSON

APPROVED BY:

DATE:

OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

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

# RADIO FIX AND HOLDING DATA RECORD

NAME: ELDNN

STATE: MI

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 414800.83N/0833241.10W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 4R			KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (CAT II) (CP)			KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (CAT III) (CP)			KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (CP)			KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (SA CAT I) (CP)			KDTW	DETROIT	MI (US)
IAP	ILS RWY 4R (CAT II)			KDTW	DETROIT	MI (US)
IAP	ILS RWY 4R (CAT III)			KDTW	DETROIT	MI (US)
IAP	ILS RWY 4R (SA CAT I)			KDTW	DETROIT	MI (US)
IAP	RNAV (GPS) PRM Z RWY 4R (CP)			KDTW	DETROIT	MI (US)
IAP	RNAV (GPS) Z RWY 4R			KDTW	DETROIT	MI (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 05/24/2018

## REASON FOR REVISION:

ADDED ILS OR LOC RWY 4R TO FIX USE  
ADDED ILS PRM RWY 4R (CAT II)(CP) TO FIX USE  
ADDED ILS PRM RWY 4R (CAT III)(CP) TO FIX USE  
ADDED ILS PRM RWY 4R (CP) TO FIX USE  
ADDED ILS RWY 4R (CAT II) TO FIX USE  
ADDED ILS RWY 4R (CAT III) TO FIX USE  
ADDED ILS RWY 4R (SA CAT I) TO FIX USE

DEVELOPED BY: DATE: 01/16/2018

OFFICE: AJV-5431

NAME: NICHOLAS JACKSON

APPROVED BY: DATE:

OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

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

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** ETALE

**STATE:** MI

**COUNTRY:** US

**ICAO REGION CODE:** K5

**LATITUDE/LONGITUDE:** 420836.12N/0832452.66W

**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-DTW	LOC/DME		215.69	208.69	6.17	6.18	37525	2000	5100

**HOLDING:**

**HOLDING TYPE OF ACTION:** NO CHANGE

**REMARKS:**

I-DTW DME: 421359.73N/0832050.33W

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 4R	1		KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (CAT II) (CP)	1		KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (CAT III) (CP)	1		KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (CP)	1		KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (SA CAT I) (CP)	1		KDTW	DETROIT	MI (US)
IAP	ILS RWY 4R (CAT II)	1		KDTW	DETROIT	MI (US)
IAP	ILS RWY 4R (CAT III)	1		KDTW	DETROIT	MI (US)
IAP	ILS RWY 4R (SA CAT 1)	1		KDTW	DETROIT	MI (US)
IAP	RNAV (GPS) PRM Z RWY 4R (CP)			KDTW	DETROIT	MI (US)
IAP	RNAV (GPS) Z RWY 4R			KDTW	DETROIT	MI (US)
IAP	RNAV (RNP) PRM X RWY 4R			KDTW	DETROIT	MI (US)
IAP	RNAV (RNP) X RWY 4R			KDTW	DETROIT	MI (US)

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 4

**DATE OF REVISION:** 05/24/2018

**REASON FOR REVISION:**

FIX MOVED 18.19 FT NORTHEAST  
 FAC 1 MAG/TRUE BRG UPDATED FROM 215.70/208.70 TO 215.69/208.69  
 UPDATED FAC 1 DIST FROM FAC FEET FROM 37543 TO 37525  
 ADDED RNAV (RNP) X RWY 4R TO FIX USE  
 ADDED RNAV (RNP) PRM X RWY 4R TO FIX USE  
 UPDATED I-DTW DME COORDINATES

**DEVELOPED BY:** **DATE:** 01/16/2018

**OFFICE:** AJV-5431

**NAME:** NICHOLAS JACKSON

**APPROVED BY:** **DATE:**

**OFFICE:** AJV-5430

**NAME:** PATRICK MULQUEEN

**SIGNATURE:**

**DISTRIBUTION:**

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

# RADIO FIX AND HOLDING DATA RECORD

NAME: EVABE

STATE: MI

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 420304.64N/0832855.75W

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-DTW	LOC/DME		215.69	208.69	12.46	12.47		4000	8000

## EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-DTW	LOC/DME	R-216	11	4000	8000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

I-DTW DME: 421359.73N/0832050.33W

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 4R	1		KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (CAT II) (CP)	1		KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (CAT III) (CP)	1		KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (CP)	1		KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (SA CAT I)(CP)	1		KDTW	DETROIT	MI (US)
IAP	ILS RWY 4R (CAT II)	1		KDTW	DETROIT	MI (US)
IAP	ILS RWY 4R (CAT III)	1		KDTW	DETROIT	MI (US)
IAP	ILS RWY 4R (SA CAT I)	1		KDTW	DETROIT	MI (US)
IAP	RNAV (GPS) PRM Z RWY 4R (CP)			KDTW	DETROIT	MI (US)
IAP	RNAV (GPS) Z RWY 4R			KDTW	DETROIT	MI (US)
IAP	RNAV (RNP) PRM X RWY 4R			KDTW	DETROIT	MI (US)
IAP	RNAV (RNP) X RWY 4R			KDTW	DETROIT	MI (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 05/24/2018

## REASON FOR REVISION:

FAC 1 MAG/TRUE BRG UPDATED FROM 215.70/208.70 TO 215.69/208.69  
ADDED RNAV (RNP) X RWY 4R TO FIX USE  
ADDED RNAV (RNP) PRM X RWY 4R TO FIX USE  
UPDATED I-DTW DME COORDINATES

DEVELOPED BY: DATE: 01/16/2018

OFFICE: AJV-5431

NAME: NICHOLAS JACKSON

APPROVED BY: DATE:

OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

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

# RADIO FIX AND HOLDING DATA RECORD

NAME: FAAVA

STATE: MI

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 415807.30N/0835132.44W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

**REMARKS:**

FIX MOVED 12.88 NM NW FOR ATC OPERATIONAL PURPOSES.

**FIX USE:**

USE TYPE

USE TITLE

FAC

PAT

AIRPORT IDENT

CITY

STATE

STAR

LECTR (RNAV)

KDTW

DETROIT

MI (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 05/24/2018

**REASON FOR REVISION:**

DELETED RADAR AND DME FROM FIX TYPE.

DELETED DTW (I-DTW) LOC/DME FROM FIX MAKEUP.

CHANGED FIX COORDINATES FROM 414916.583N/0833859.601W TO 415807.30N/0835132.44W, FIX MOVED 12 NM NW.

DELETED (I-DTW) LOC/DME ESV.

REQUIRED CHARTING: DELETED IAP AND ADDED STAR.

FIX USE: DELETED DTW ILS OR LOC RWY 4R, ILS PRM RWY 4R (CAT II-III) (CP), (CP), ILS PRM RWY 4R (SA CAT I) (CP), ILS PRM RWY 4R (CP), ILS RWY 4R (CAT II-III), ILS RWY 4R (SA CAT I), RNAV (GPS) RWY 4R, RNAV (GPS) PRM RWY 4R (CP).

FIX USE: ADDED DTW LECTR (RNAV) STAR.

DEVELOPED BY:

DATE: 12/07/2017

OFFICE: AJV-5431

NAME: MICHAEL CURRAN

APPROVED BY:

DATE:

OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: CEN

ARTCC: ZOB

ATC FACILITY: DTW APP CON, METRO TOWER

OTHER:



# RADIO FIX AND HOLDING DATA RECORD

NAME: HIMEX

STATE: MI

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 420018.93N/0833056.97W

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-DTW	LOC/DME		215.69	208.69	15.61	15.61		5000	8000

## EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-DTW	LOC/DME	R-216	16	5000	8000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

I-DTW DME: 421359.73N/0832050.33W

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 4R	1		KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (CAT II) (CP)	1		KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (CAT III) (CP)	1		KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (CP)	1		KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (SA CAT I) (CP)	1		KDTW	DETROIT	MI (US)
IAP	ILS RWY 4R (CAT II)	1		KDTW	DETROIT	MI (US)
IAP	ILS RWY 4R (CAT III)	1		KDTW	DETROIT	MI (US)
IAP	ILS RWY 4R (SA CAT I)	1		KDTW	DETROIT	MI (US)
IAP	RNAV (GPS) PRM Z RWY 4R (CP)			KDTW	DETROIT	MI (US)
IAP	RNAV (GPS) Z RWY 4R			KDTW	DETROIT	MI (US)
IAP	RNAV (RNP) PRM X RWY 4R			KDTW	DETROIT	MI (US)
IAP	RNAV (RNP) X RWY 4R			KDTW	DETROIT	MI (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 05/24/2018

## REASON FOR REVISION:

FAC 1 MAG/TRUE BRG UPDATED FROM 215.70/208.70 TO 215.69/208.69  
ADDED RNAV (RNP) X RWY 4R TO FIX USE  
ADDED RNAV (RNP) PRM X RWY 4R TO FIX USE  
UPDATED I-DTW DME COORDINATES

DEVELOPED BY:

DATE: 01/16/2018

OFFICE: AJV-5431

NAME: NICHOLAS JACKSON

APPROVED BY:

DATE:

OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

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

# RADIO FIX AND HOLDING DATA RECORD

NAME: JELLY

STATE: MI

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 420550.32N/0832654.35W

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-DTW	LOC/DME		215.69	208.69	9.32	9.32		3000	5100

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

I-DTW DME: 421359.73N/0832050.33W

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 4R	1		KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (CAT II) (CP)	1		KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (CAT III)(CP)	1		KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (CP)	1		KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (SA CAT 1) (CP)	1		KDTW	DETROIT	MI (US)
IAP	ILS RWY 4R (CAT II)	1		KDTW	DETROIT	MI (US)
IAP	ILS RWY 4R (CAT III)	1		KDTW	DETROIT	MI (US)
IAP	ILS RWY 4R (SA CAT I)	1		KDTW	DETROIT	MI (US)
IAP	RNAV (GPS) PRM Z RWY 4R (CP)			KDTW	DETROIT	MI (US)
IAP	RNAV (GPS) Z RWY 4R			KDTW	DETROIT	MI (US)
IAP	RNAV (RNP) PRM X RWY 4R			KDTW	DETROIT	MI (US)
IAP	RNAV (RNP) X RWY 4R			KDTW	DETROIT	MI (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7

DATE OF REVISION: 05/24/2018

## REASON FOR REVISION:

FAC 1 MAG/TRUE BRG UPDATED FROM 215.70/208.70 TO 215.69/208.69  
ADDED RNAV (RNP) X RWY 4R TO FIX USE  
ADDED RNAV (RNP) PRM X RWY 4R TO FIX USE  
UPDATED I-DTW DME COORDINATES

DEVELOPED BY:

DATE: 01/16/2018

OFFICE: AJV-5431

NAME: NICHOLAS JACKSON

APPROVED BY:

DATE:

OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

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

# RADIO FIX AND HOLDING DATA RECORD

NAME: JULEP

STATE: MI

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 415447.39N/0833458.89W

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-DTW	LOC/DME		215.69	208.69	21.90	21.90		7000	10000

## EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-DTW	LOC/DME	R-216	22	7000	10000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

I-DTW DME: 421359.73N/0832050.33W

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 4R	1		KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (CAT II) (CP)	1		KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (CAT III) (CP)	1		KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (CP)	1		KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (SA CAT I) (CP)	1		KDTW	DETROIT	MI (US)
IAP	ILS RWY 4R (CAT II)	1		KDTW	DETROIT	MI (US)
IAP	ILS RWY 4R (CAT III)	1		KDTW	DETROIT	MI (US)
IAP	ILS RWY 4R (SA CAT I)	1		KDTW	DETROIT	MI (US)
IAP	RNAV (GPS) PRM Z RWY 4R (CP)			KDTW	DETROIT	MI (US)
IAP	RNAV (GPS) Z RWY 4R			KDTW	DETROIT	MI (US)
IAP	RNAV (RNP) PRM X RWY 4R			KDTW	DETROIT	MI (US)
IAP	RNAV (RNP) X RWY 4R			KDTW	DETROIT	MI (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 05/24/2018

## REASON FOR REVISION:

FAC 1 MAG/TRUE BRG UPDATED FROM 215.70/208.70 TO 215.69/208.69  
ADDED RNAV (RNP) X RWY 4R TO FIX USE  
ADDED RNAV (RNP) PRM X RWY 4R TO FIX USE  
UPDATED I-DTW DME COORDINATES

DEVELOPED BY: DATE: 01/16/2018

OFFICE: AJV-5431

NAME: NICHOLAS JACKSON

APPROVED BY: DATE:

OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

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

# RADIO FIX AND HOLDING DATA RECORD

NAME: LUPAY STATE: MI COUNTRY: US ICAO REGION CODE: K5  
 LATITUDE/LONGITUDE: 422622.02N/0831145.38W TYPE: WP, RADAR, 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 FAC NM	MRA	MAA
1	DETROIT	I-DWC	LOC/DME		035.71	028.71	14.08	16.39	5000	6000
2	DETROIT	DXO	VOR/DME	H	035.18	029.18	15.56	15.56	4000	10000

## EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-DWC	LOC/DME	R-036	17	5000	6000

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	NE	DXO	VOR/DME	215.18	215.18	R	1		4000	6000	5	6
2	NE		WP	035.18	215.18	R		4	4000	6000	5	6

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (26-000093)	422858.00N/0831219.00W	1749	1D
2	200	TOWER (26-000093)	422858.00N/0831219.00W	1749	1D

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

## REMARKS:

DETROIT (FAC 1) USED TO ESTABLISH FIX COORDINATES  
 DME ANTENNA COORDINATES: 421359.73N/0832050.33W.  
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 22L	1		KDTW	DETROIT	MI (US)
IAP	ILS OR LOC RWY 4R		1	KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 22L (CP)	1		KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (CAT II)(CP)		1	KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (CAT III)(CP)		1	KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (CP)		1	KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (SA CAT I)		1	KDTW	DETROIT	MI (US)
IAP	ILS RWY 22L (SA CAT I)	1		KDTW	DETROIT	MI (US)
IAP	ILS RWY 4R (CAT II)		1	KDTW	DETROIT	MI (US)
IAP	ILS RWY 4R (CAT III)		1	KDTW	DETROIT	MI (US)
IAP	ILS RWY 4R (SA CAT I)		1	KDTW	DETROIT	MI (US)
IAP	RNAV (GPS) PRM Z RWY 22L (CP)			KDTW	DETROIT	MI (US)
IAP	RNAV (GPS) PRM Z RWY 4R (CP)		2	KDTW	DETROIT	MI (US)
IAP	RNAV (GPS) Z RWY 22L			KDTW	DETROIT	MI (US)
IAP	RNAV (GPS) Z RWY 4R		2	KDTW	DETROIT	MI (US)
IAP	RNAV (RNP) PRM X RWY 22L			KDTW	DETROIT	MI (US)
IAP	RNAV (RNP) PRM X RWY 4R		2	KDTW	DETROIT	MI (US)
IAP	RNAV (RNP) X RWY 22L			KDTW	DETROIT	MI (US)
IAP	RNAV (RNP) X RWY 4R		2	KDTW	DETROIT	MI (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5 DATE OF REVISION: 05/24/2018

## REASON FOR REVISION:

ADDED RNAV (RNP)PRM X RWY 22L  
 ADDED RNAV (RNP) X RWY 22L  
 ADDED ILS PRM RWY 4R (CAT II)(CP) TO FIX USE  
 ADDED ILS PRM RWY 4R (CAT III)(CP) TO FIX USE  
 ADDED ILS PRM RWY 4R (SA CAT I)(CP) TO FIX USE  
 ADDED ILS RWY 4R (CAT II)TO FIX USE  
 ADDED ILS RWY 4R (CAT III)TO FIX USE  
 ADDED ILS RWY 4R (SA CAT I) TO FIX USE  
 ADDED RNAV (RNP) X RWY 4R TO FIX USE  
 ADDED RNAV (RNP) PRM X RWY 4R TO FIX USE  
 UPDATED DME ANTENNA COORDINATES

**DEVELOPED BY:**      **DATE:** 01/12/2018      **OFFICE:** AJV-5431      **NAME:** NICHOLAS JACKSON  
**APPROVED BY:**      **DATE:**      **OFFICE:** AJV-5430      **NAME:** PATRICK MULQUEEN  
**SIGNATURE:**

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

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** PERLS **STATE:** MI **COUNTRY:** US **ICAO REGION CODE:** K5  
**LATITUDE/LONGITUDE:** 423458.42N/0831602.18W **TYPE:** RADAR, INT, 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 FAC NM	MRA	MAA
1	PONTIAC	PSI	VORTAC	L	123.95	120.95	13.72	13.72	2200	17500
2	SALEM	SVM	VORTAC	L	057.10	054.10		17.87	2200	17500

**HOLDING:** **HOLDING TYPE OF ACTION:** ESTABLISH

**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	NE	SVM	VORTAC	057.10	237.10	R	1		4000	6000	5	6

**CONTROLLING OBSTRUCTIONS:**

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (26-001637)	424204.00N/0831505.00W	1450	5D

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 4R (ALT. MISS)		1	KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (CAT II)(CP) (ALT. MISS)		1	KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (CAT III) (CP) (ALT. MISS)		1	KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (CP) (ALT. MISS)		1	KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 4R (SA CAT I) (CP) (ALT. MISS)		1	KDTW	DETROIT	MI (US)
IAP	ILS RWY 4R (CAT II) (ALT. MISS)		1	KDTW	DETROIT	MI (US)
IAP	ILS RWY 4R (CAT III) (ALT. MISS)		1	KDTW	DETROIT	MI (US)
IAP	ILS RWY 4R (SA CAT I) (ALT. MISS)		1	KDTW	DETROIT	MI (US)

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 3 **DATE OF REVISION:** 05/24/2018

**REASON FOR REVISION:**

ADDED HOLDING PAT 1  
 REMOVED VOR-A FROM FIX USE  
 ADDED ILS OR LOC RWY 4R TO FIX USE  
 ADDED ILS PRM RWY 4R (CP) TO FIX USE  
 ADDED ILS PRM RWY 4R (CAT II)(CP) TO FIX USE  
 ADDED ILS PRM RWY 4R (CAT III)(CP) TO FIX USE  
 ADDED ILS PRM RWY 4R (SA CAT I)(CP) TO FIX USE  
 ADDED ILS RWY 4R (CAT II) TO FIX USE  
 ADDED ILS RWY 4R (CAT III) TO FIX USE  
 ADDED ILS RWY 4R (SA CAT I) TO FIX USE

**DEVELOPED BY:** **DATE:** 01/23/2018 **OFFICE:** AJV-5431 **NAME:** NICHOLAS JACKSON

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

**SIGNATURE:**

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