

RADIO FIX AND HOLDING DATA RECORD

NAME: CARLETON VOR/DME STATE: MI COUNTRY: US ICAO REGION CODE: K5
 LATITUDE/LONGITUDE: 420252.90N/0832727.26W 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	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	CRL	VOR/DME	260.00	080.00	R	1	2400 6000	4 5
2	S	CRL	VOR/DME	196.00	016.00	R	1	4000 6000	4 13
3	S	CRL	VOR/DME	180.00	360.00	R	1	4000 6000	4 13

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (26-003174)	420358.25N/0832337.21W	1017	1B
2	200	TOWER (26-003174)	420358.25N/0832337.21W	1017	1B
2	310	STACK (26-000438)	415327.00N/0832043.00W	1386	5D
3	200	TOWER (26-003174)	420358.25N/0832337.21W	1017	1B
3	310	STACK (26-000438)	415327.00N/0832043.00W	1386	5D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S)

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
2	ILS OR LOC RWY 22L	KDTW	DETROIT	MI (US)
2	ILS RWY 22L (SA CAT I)	KDTW	DETROIT	MI (US)
2	ILS OR LOC RWY 27L	KDTW	DETROIT	MI (US)
2	ILS PRM RWY 22L (CP)	KDTW	DETROIT	MI (US)
2	ILS RWY 27L (SA CAT I & II)	KDTW	DETROIT	MI (US)
3	ILS OR LOC RWY 21L	KDTW	DETROIT	MI (US)
3	ILS RWY 21L (SA CAT I & II)	KDTW	DETROIT	MI (US)

REMARKS:

PRECIPITIOUS TERRAIN EVALUATION COMPLETED.
 ASSIGNED FACILITY MAG VAR: 3W 1965.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	J190					(US)
EN ROUTE	J34					(US)
EN ROUTE	J43					(US)
EN ROUTE	J554					(US)
EN ROUTE	J584					(US)
IAP	VOR RWY 6			KARB	ANN ARBOR	MI (US)
IAP	ILS OR LOC RWY 21L		3	KDTW	DETROIT	MI (US)
IAP	ILS OR LOC RWY 22L		2	KDTW	DETROIT	MI (US)
IAP	ILS OR LOC RWY 27L		2	KDTW	DETROIT	MI (US)
IAP	ILS PRM RWY 22L (CP)		2	KDTW	DETROIT	MI (US)
IAP	ILS RWY 21L (SA CAT I & II)		3	KDTW	DETROIT	MI (US)
IAP	ILS RWY 22L (SA CAT I)		2	KDTW	DETROIT	MI (US)
IAP	ILS RWY 27L (SA CAT I & II)		2	KDTW	DETROIT	MI (US)
IAP	ILS OR LOC RWY 23			KYIP	DETROIT	MI (US)
IAP	ILS OR LOC RWY 5			KYIP	DETROIT	MI (US)
IAP	NDB RWY 4			KONZ	DETROIT/GROSSE ILE	MI (US)
IAP	VOR-A		1	KONZ	DETROIT/GROSSE ILE	MI (US)
IAP	HI-ILS Y OR LOC Y RWY 25			KTOL	TOLEDO	OH (US)
IAP	HI-ILS Y OR LOC Y RWY 7			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)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 27

DATE OF REVISION: 07/14/2022

REASON FOR REVISION:

1. UPDATED FIX USE KYIP FROM ILS OR LOC RWY 23L TO ILS OR LOC RWY 23.
2. UPDATED FIX USE KYIP FROM ILS OR LOC RWY 5R TO ILS OR LOC RWY 5.

INITIATED BY:**DATE:****ORGANIZATION:****NAME:****OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A432

NAME: JOHN KEEFER**APPROVED BY:****DATE:** 05/19/2022**OFFICE:** AJV-A430**NAME:** LONNIE EVERHART**SIGNATURE:**

RADIO FIX AND HOLDING DATA RECORD

NAME: FORT WAYNE VORTAC **STATE:** IN **COUNTRY:** US **ICAO REGION CODE:** K5

LATITUDE/LONGITUDE: 405844.63N/0851117.01W **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	FORT WAYNE	FWA	VORTAC	VH						45000

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

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	SE	FWA	VORTAC	140.75	320.75	R	1		4000 6000	4 5

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (18-000023)	410012.00N/0850559.00W	1159	4D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ASSIGNED FACILITY MAG VAR: 6W 2020.
PAT 1 AT ATC REQUEST.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	DAYTON			KDAY	DAYTON	OH (US)
EN ROUTE	J149					(US)
EN ROUTE	J178					(US)
EN ROUTE	J64					(US)
EN ROUTE	V11					(US)
EN ROUTE	V144					(US)
EN ROUTE	V221					(US)
EN ROUTE	V277					(US)
EN ROUTE	V38					(US)
EN ROUTE	V55					(US)
EN ROUTE	V96					(US)
IAP	ILS OR LOC RWY 27			KGWB	AUBURN	IN (US)
IAP	RNAV (GPS) RWY 27			KGWB	AUBURN	IN (US)
IAP	RNAV (GPS) RWY 9			KGWB	AUBURN	IN (US)
IAP	VOR-A			KGWB	AUBURN	IN (US)
IAP	ILS OR LOC RWY 32			KFWA	FORT WAYNE	IN (US)
IAP	ILS OR LOC RWY 5			KFWA	FORT WAYNE	IN (US)
IAP	ILS RWY 05 (CAT II)			KFWA	FORT WAYNE	IN (US)
IAP	RNAV (GPS) RWY 14			KFWA	FORT WAYNE	IN (US)
IAP	RNAV (GPS) RWY 23			KFWA	FORT WAYNE	IN (US)
IAP	RNAV (GPS) RWY 32			KFWA	FORT WAYNE	IN (US)
IAP	RNAV (GPS) RWY 5			KFWA	FORT WAYNE	IN (US)
IAP	VOR OR TACAN RWY 23			KFWA	FORT WAYNE	IN (US)
IAP	VOR OR TACAN RWY 5			KFWA	FORT WAYNE	IN (US)
IAP	VOR OR TACAN RWY 14			KFWA	FORT WAYNE	IN (US)
IAP	RNAV (GPS) RWY 31			KSMD	FORT WAYNE	IN (US)
IAP	VOR RWY 13			KSMD	FORT WAYNE	IN (US)
IAP	VOR-A			KHHG	HUNTINGTON	IN (US)
IAP	RNAV (GPS) RWY 23			KOKK	KOKOMO	IN (US)
IAP	ILS OR LOC RWY 27		1	KASW	WARSAW	IN (US)
IAP	HI-ILS OR LOC RWY 25			KTOL	TOLEDO	OH (US)
IAP	HI-ILS Y OR LOC Y RWY 7			KTOL	TOLEDO	OH (US)
IAP	HI-TACAN RWY 25			KTOL	TOLEDO	OH (US)
IAP	HI-TACAN RWY 7			KTOL	TOLEDO	OH (US)
STAR	GOSHEN			KIGQ	CHICAGO	IL (US)
STAR	GOSHEN			KMDW	CHICAGO	IL (US)
STAR	PANGG (RNAV)			KMDW	CHICAGO	IL (US)
STAR	ESSPO (RNAV)			KORD	CHICAGO	IL (US)
STAR	VEECK (RNAV)			KORD	CHICAGO	IL (US)
STAR	WATSN (RNAV)			KORD	CHICAGO	IL (US)
STAR	GOSHEN			KGYG	GARY	IN (US)
STAR	GOSHEN			05C	GRIFFITH	IN (US)
STAR	GOSHEN			3HO	HOBART	IN (US)
STAR	CLANG			KEYE	INDIANAPOLIS	IN (US)
STAR	CLANG			KIND	INDIANAPOLIS	IN (US)
STAR	CLANG			KMQJ	INDIANAPOLIS	IN (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 27

DATE OF REVISION: 05/16/2024

REASON FOR REVISION:

REMOVED STARS HEDEE AND SHELBYVILLE FOR K62, I69, KLUK ND KHAO AIRPORTS FROM FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: SILVIA YOUNG

APPROVED BY:

DATE: 05/16/2024

OFFICE: AJV-A432

NAME: CASIMIR TABAKA

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: IKASE

STATE: OH

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 413928.77N/0832837.94W

TYPE: DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FAC FEET	MRA	MAA
1	TOLEDO	TOL	TACAN	T	080.00	075.00	15.00	15.00		4000	8000

FIX RESTRICTIONS:

MILITARY ONLY

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	HI-TACAN RWY 25	1		KTOL	TOLEDO	OH (US)

REQUIRED CHARTING: MILITARY IAP, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 04/27/2017

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 12/21/2016

OFFICE: AJV-5431

NAME: SEAN BARBEE

APPROVED BY:

DATE:

OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: IXOQY

STATE: OH

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 413552.87N/0834640.46W

TYPE: DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	TOLEDO	TOL	TACAN	T	080.00	075.00	1.00	1.00		940	3000

FIX RESTRICTIONS:

MILITARY ONLY

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	HI-TACAN RWY 25	1		KTOL	TOLEDO	OH (US)

REQUIRED CHARTING: MILITARY IAP, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 04/27/2017

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 12/21/2016

OFFICE: AJV-5431

NAME: SEAN BARBEE

APPROVED BY:

DATE:

OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: MYANN STATE: OH COUNTRY: US ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 411127.33N/0833923.47W TYPE: 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	FEET	MRA	MAA
1	TOLEDO	TOL	TACAN	T	170.00	165.00	25.00	25.00			18000

FIX RESTRICTIONS:

MILITARY ONLY

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 MIN DME	MAX	TEMPLATES MIN	MAX
1	S	TOL	TACAN	170.00	350.00	L		12	15000	18000	20 21

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	310	TOWER (39-000616)	410812.00N/0835424.40W	1817	5D

REASON FOR NONSTANDARD HOLDING:

PAT 1 AT REQUEST

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETE.

FIX USE:

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

REQUIRED CHARTING: MILITARY IAP, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5 DATE OF REVISION: 09/10/2020

REASON FOR REVISION:

1. UPDATED PROCEDURE NAME FROM HI-ILS OR LOC RWY 7 TO HI-ILS Y OR LOC Y RWY 7.
2. REMOVED TOL ESV - MYANN HOLDING FOR HI-ILS Y OR LOC Y RWY 7, NO ESV REQUIRED FOR HOLDING.
3. ADDED "25" TO DIST FROM FAC - REQUIRED FOR CONVENTIONAL FIXES

INITIATED BY: DATE: ORGANIZATION: NAME:

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A423 NAME: JOSEPH BLANCO

APPROVED BY: DATE: OFFICE: AJV-A420 NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZOB
ATC FACILITY:
OTHER: TOL ATCT

RADIO FIX AND HOLDING DATA RECORD

NAME: ORUYI

STATE: OH

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 413710.30N/0834014.08W

TYPE: DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	TOLEDO	TOL	TACAN	T	080.00	075.00	6.00	6.00	36457	2400	6000

FIX RESTRICTIONS:

MILITARY ONLY

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	HI-TACAN RWY 25	1		KTOL	TOLEDO	OH (US)

REQUIRED CHARTING: MILITARY IAP, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 04/27/2017

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 12/21/2016

OFFICE: AJV-5431

NAME: SEAN BARBEE

APPROVED BY:

DATE:

OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: POUDR **STATE:** OH **COUNTRY:** US **ICAO REGION CODE:** K5

LATITUDE/LONGITUDE: 412107.39N/0834248.38W **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 FAC NM	MRA	MAA
1	TOLEDO	TOL	TACAN	T	170.00	165.00	15.00	15.00	3000	15000

FIX RESTRICTIONS:
MILITARY ONLY

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	S	TOL	TACAN	170.00	350.00	L	9	3000 15000	13 20

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	310	TOWER (39-020159)	410410.00N/0833738.00W	1234	2B

REASON FOR NONSTANDARD HOLDING:
PAT 1 AIRSPACE COORDINATION.

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETE.

FIX USE:

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

REQUIRED CHARTING: MILITARY IAP, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4 **DATE OF REVISION:** 09/10/2020

REASON FOR REVISION:

1. UPDATED PROCEDURE NAME FROM HI-ILS OR LOC RWY 7 TO HI-ILS Y OR LOC Y RWY 7.

INITIATED BY: **DATE:** **ORGANIZATION:** **NAME:**

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A423 **NAME:** JOSEPH BLANCO

APPROVED BY: **DATE:** **OFFICE:** AJV-A420 **NAME:** MARLON ROBINSON

SIGNATURE:

DISTRIBUTION: NFDC
FPO: CEN
ARTCC: ZOB
ATC FACILITY: TOL TOWER
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: ZARIP

STATE: OH

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 413616.14N/0834444.58W

TYPE: DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FAC FEET	MRA	MAA
1	TOLEDO	TOL	TACAN	T	080.00	075.00	2.50	2.50		1140	4000

FIX RESTRICTIONS:

MILITARY ONLY

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	HI-TACAN RWY 25	1		KTOL	TOLEDO	OH (US)

REQUIRED CHARTING: MILITARY IAP, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 04/27/2017

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 12/21/2016

OFFICE: AJV-5431

NAME: SEAN BARBEE

APPROVED BY:

DATE:

OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

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