

RADIO FIX AND HOLDING DATA RECORD

NAME: AUSTN LOM

STATE: MI

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 420752.39N/0853142.79W

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 NM	FAC FEET	MRA	MAA
1	AUSTN	AZ	LOM							2500	17500
2	KALAMAZOO	I-AZO	LOC		174.10	171.10		6.85	41649	2500	5300
3	KALAMAZOO	AZO	VOR/DME	L	171.18	170.18	6.44	6.44	39115	2500	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	TOWER (26-001396)	420744.00N/0852022.00W	1413	5D

HOLDING RESTRICTIONS:

UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 2500.

REMARKS:

COORDINATES REFLECT LOCATION ON LOC/AZ CENTERLINE ABEAM THE AUSTN LOM.

ACTUAL FACILITY LOCATION IS 420752.19N/0853147.13W.

ASSIGNED MAGNETIC VARIATION OF ACTUAL FACILITY W03.

AZO DME COORDINATES: 421413.14N/0853311.35W.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 35	1, 2, 3		KAZO	KALAMAZOO	MI (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8

DATE OF REVISION: 09/15/2016

REASON FOR REVISION:

UPDATED FIX LAT/LONG. FIX MOVED 26.22 FEET SOUTHEAST.

REMOVED INT FROM FIX TYPE.

UPDATED FAC 2 DIST FROM FAC FEET FROM 41624 TO 41649.

UPDATED FAC 2 MAG BRG FROM 171.68 TO 171.18, TRUE BRG FROM 170.68 TO 170.18, DME FROM 6.43 TO 6.44, DIST FROM FAC NM FROM 6.43 TO 6.44 AND ADDED DIST FROM FAC 39115 FEET.

REMOVED FAC 4 DATA.

UPDATED UPN CONTROLLING OBSTRUCTION ID.

ADDED ASSIGNED MAGNETIC VARIATION OF ACTUAL FACILITY AND AZO DME COORDINATES TO REMARKS.

DEVELOPED BY:

DATE: 06/21/2016

OFFICE: AJV-5423

NAME: PABLO ORTIZ

APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: TONY LAWSON

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: CEN

ARTCC: ZAU

ATC FACILITY: AZO APP CON, AZO ATCT

OTHER:

QUALITY
16
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: BRONZ

STATE: MI

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 422002.43N/0853931.79W

TYPE: 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 FAC NM	FAC FEET	MRA	MAA
1	KEELER	ELX	VOR/DME	L	061.03	061.03	23.59	23.59		4000	17500
2	PULLMAN	PMM	VOR/DME	H	111.62	111.62	21.35	21.35		2800	17500
3	KALAMAZOO	AZO	VOR/DME	L	321.76	320.76	7.48	7.48		2800	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	W	PMM	VOR/DME	111.62	111.62	R	1		3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	TOWER (26-000084)	422519.00N/0853145.00W	1527	1D
1	200	TOWER (26-001159)	421823.13N/0853925.03W	1449	5D

HOLDING RESTRICTIONS:

UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 4000.

REMARKS:

KEELER (FAC 1) AND PULLMAN (FAC 2) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V218	1, 2, 3				(US)
EN ROUTE	V30	1, 2, 3				(US)
IAP	ILS OR LOC RWY 35	2	1	KAZO	KALAMAZOO	MI (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 9

DATE OF REVISION: 09/15/2016

REASON FOR REVISION:

ADDED FAC 1 DIST FROM FAC 23.59 NM.
UPDATED FAC 2 MAG BRG FROM 111.58 TO 111.62, TRUE BRG FROM 111.58 TO 111.62 AND ADDED DIST FROM FAC 21.32 NM.
ADDED FAC 3 DIST FROM FAC 7.48 NM.
UPDATED PAT 1 RAD/CRS/BRG FROM 291.58 TO 111.62, CRS INBOUND FROM 111.58 TO 111.62 AND CONTROLLING OBSTRUCTION ID.
UPDATED PAT 2 CONTROLLING OBSTRUCTION ID.
MOVED UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 4000 FROM REMARKS TO HOLDING RESTRICTIONS.
ADDED KEELER (FAC 1) AND PULLMAN (FAC 2) USED TO ESTABLISH FIX COORDINATES AND PRECIPITOUS TERRAIN EVALUATION COMPLETED TO REMARKS.
UPDATED FIX USE.
MOVED FIX COORDINATES 250FT NORTHEAST TO REFLECT INTERSECTION OF V218 AND V30 CENTERLINES.

DEVELOPED BY: DATE: 07/21/2016

OFFICE: AJV-5423

NAME: PABLO ORTIZ

APPROVED BY: DATE:

OFFICE: AJV-5420

NAME: TONY LAWSON

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZAU
ATC FACILITY: AZO APP CON, AZO ATCT
OTHER:

QUALITY
16
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: CFCFI

STATE: MI

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 420137.43N/0853024.15W

TYPE: CNF

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:
USE TYPE
IAP

USE TITLE
ILS OR LOC RWY 35

FAC PAT

AIRPORT IDENT CITY
KAZO KALAMAZOO

STATE
MI (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 09/15/2016

DEVELOPED BY: DATE: 06/22/2016

OFFICE: AJV-5423

NAME: PABLO ORTIZ

APPROVED BY: DATE:

OFFICE: AJV-5420

NAME: TONY LAWSON

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZAU
ATC FACILITY: AZO APP CON, AZO ATCT
OTHER:

QUALITY
16
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: KALAMAZOO VOR/DME **STATE:** MI **COUNTRY:** US **ICAO REGION CODE:** K5

LATITUDE/LONGITUDE: 421413.14N/0853311.35W **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	KALAMAZOO	AZO	VOR/DME	L						17500

FIX RESTRICTIONS:

UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 2500.

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	N	AZO	VOR/DME	007.00	187.00	R	1	2600 6000	4 5

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	TOWER (26-001159)	421823.13N/0853925.03W	1449	5D
1	200	TOWER (26-001159)	421823.13N/0853925.03W	1449	5D

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ASSIGNED FACILITY MAG VAR: 1W 1965.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V116					(US)
EN ROUTE	V156					(US)
EN ROUTE	V285					(US)
IAP	RNAV (GPS) RWY 11			K35D	ALLEGAN	MI (US)
IAP	RNAV (GPS) RWY 29			K35D	ALLEGAN	MI (US)
IAP	VOR RWY 29			K35D	ALLEGAN	MI (US)
IAP	VOR RWY 7			KOEB	COLDWATER	MI (US)
IAP	VOR-A			KC91	DOWAGIAC	MI (US)
IAP	ILS OR LOC RWY 24			KJXN	JACKSON	MI (US)
IAP	VOR RWY 14			KJXN	JACKSON	MI (US)
IAP	VOR/DME RWY 24			KJXN	JACKSON	MI (US)
IAP	ILS OR LOC RWY 35			KAZO	KALAMAZOO	MI (US)
IAP	RNAV (GPS) RWY 17			KAZO	KALAMAZOO	MI (US)
IAP	RNAV (GPS) RWY 23			KAZO	KALAMAZOO	MI (US)
IAP	RNAV (GPS) RWY 35			KAZO	KALAMAZOO	MI (US)
IAP	RNAV (GPS) RWY 5			KAZO	KALAMAZOO	MI (US)
IAP	VOR RWY 35			KAZO	KALAMAZOO	MI (US)
IAP	NDB RWY 24			KIRS	STURGIS	MI (US)
IAP	VOR-A		1	KHAI	THREE RIVERS	MI (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 11

DATE OF REVISION: 09/15/2016

REASON FOR REVISION:

1. ADDED REMARK ASSIGNED FACILITY MAG VAR: 1W 1965.
2. DELETED FIX USE PALACE DP.
3. DELETED REQUIRED CHARTING DP.

DEVELOPED BY: **DATE:** 04/04/2016 **OFFICE:** AJV-5423 **NAME:** STEVE NELSON

APPROVED BY: **DATE:** 06/17/2016 **OFFICE:** AJV-5420 **NAME:** TONY LAWSON

SIGNATURE:

DISTRIBUTION: NFDC
FPO: CEN
ARTCC: ZAU
ATC FACILITY: AZO APP CON, GRR APP CON
OTHER:

QUALITY
16
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: UPJON

STATE: MI

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 421948.00N/0853413.48W

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	FAC FEET	MRA	MAA
1	KALAMAZOO	AZO	VOR/DME	L	353.16	352.16	5.63	5.63		2600	17500

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	N	AZO	VOR/DME	353.16	173.16	R	1		2600	6000	4	5

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (26-000084)	422519.00N/0853145.00W	1527	1D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 35		1	KAZO	KALAMAZOO	MI (US)
IAP	VOR RWY 35		1	KAZO	KALAMAZOO	MI (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7

DATE OF REVISION: 09/15/2016

REASON FOR REVISION:

REMOVED INT FROM FIX TYPE.
REMOVED FAC 1 DATA.
ADDED DIST FROM FAC 5.63 NM TO NEW FAC 1.
UPDATED PAT 1 CONTROLLING OBSTRUCTION ID.
REMOVED KALAMAZOO (FAC 2) AND BATTLE CREEK (FAC 1) USED TO ESTABLISH FIX COORDINATES FROM REMARKS.
UPDATED FIX USE.

DEVELOPED BY: DATE: 06/22/2016 OFFICE: AJV-5423 NAME: PABLO ORTIZ

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

SIGNATURE:

DISTRIBUTION: NFDC
FPO: CEN
ARTCC: ZAU
ATC FACILITY: AZO APP CON, AZO ATCT
OTHER:

QUALITY
16
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ZEXOS

STATE: MI

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 421208.39N/0853236.62W

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	KALAMAZOO	I-AZO	LOC		174.10	171.10		2.54		1240	5300
2	KALAMAZOO	AZO	VOR/DME	L	169.31	168.31	2.12	2.12		1240	5300

REMARKS:

KALAMAZOO (FAC 1) AND KALAMAZOO (FAC 2) USED TO ESTABLISH FIX COORDINATES
AZO DME COORDINATES: 421413.14N/0853311.35W

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 35	1, 2		KAZO	KALAMAZOO	MI (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 09/15/2016

DEVELOPED BY: DATE: 06/22/2016

OFFICE: AJV-5423

NAME: PABLO ORTIZ

APPROVED BY: DATE:

OFFICE: AJV-5420

NAME: TONY LAWSON

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: CEN
ARTCC: ZAU
ATC FACILITY: AZO APP CON, AZO ATCT
OTHER:

QUALITY
16
CHECKED