

RADIO FIX AND HOLDING DATA RECORD

NAME: AXABE

STATE: MT

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 465921.66N/1095734.27W

TYPE: WP, 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	LEWISTOWN	LWT	VOR/DME	H	240.38	255.38	15.00	15.00		11100	17500
2	GREAT FALLS	GTF	VORTAC	H	098.42	114.42	65.53	65.53		11100	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

LEWISTOWN (FAC 1) AND GREAT FALLS (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V113	1, 2				(US)
IAP	RNAV (GPS) RWY 8			KLWT	LEWISTOWN	MT (US)
IAP	VOR RWY 8	1		KLWT	LEWISTOWN	MT (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 11/10/2016

REASON FOR REVISION:

1. DELETED FAC 3 FROM FIX MAKE-UP FACILITIES.
2. CHANGED RWY 7 TO RWY 8 IN FIX USE.
3. CHANGED FPO FROM SEA TO WST.
4. ADD REMARKS LEWISTOWN (FAC 1) AND GREAT FALLS (FAC 2) USED TO ESTABLISH FIX COORDINATES.
5. CHANGED FAC 1 MRA FROM 6800 FT TO 11,100 FT AND FAC 2 FROM 10,000 FT TO 11,100 FT DUE TO MIN ENROUTE.
6. ADDED DIST FROM FAC 1 (15.00 NM) AND DIST FROM FAC 2 (65.53 NM) TO FIX MAKE-UP FACILITIES.
7. ADDED VOR RWY 8 TO FIX USE.

DEVELOPED BY:

DATE: 06/14/2016

OFFICE: AJV-5432

NAME: SYLVAN DRAKES

APPROVED BY:

DATE:

OFFICE: AJV-5430

NAME: LONNIE EVERHART

Digitally signed by

SIGNATURE: DONALD H LANIER

Oct 13, 2016

DISTRIBUTION:

NFDC
FPO: WST
ARTCC: ZLC
ATC FACILITY:
OTHER:

QUALITY
16
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: CIWXU STATE: MT COUNTRY: US ICAO REGION CODE: K1
 LATITUDE/LONGITUDE: 465937.01N/1091504.29W TYPE: WP, 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	LEWISTOWN	LWT	VOR/DME	H	088.61	103.61	15.00	15.00		7700	17500

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 MIN	ALTITUDES MAX	TEMPLATES MIN	MAX
1	E		WP	092.61	272.61	R		7	7700	17500	9	17

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	470610.07N/1092944.05W	5942	4E
1	310	AAO	470826.90N/1091607.20W	6327	6A

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	230	160
1	310	210

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	RNAV (GPS) RWY 8	KLWT	LEWISTOWN	MT (US)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V120-611					(US)
IAP	RNAV (GPS) RWY 8		1	KLWT	LEWISTOWN	MT (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 11/10/2016

REASON FOR REVISION:

1. MOVED HOLDING LIMITED TO ESTABLISHED PATTERN FROM REMARKS TO HOLDING RESTRICTIONS.
2. CHANGED RNAV (GPS) RWY 7 TO RNAV (GPS) RWY 8 IN FIX USE, ADDED PAT 1 AND MOVED TITLE TO SAME LINE.
3. MOVED V120 AND V611 TO SAME LINE IN FIX USE AND UPDATED TITLE.
4. DELETED FAC 2 FROM FIX MAKE-UP FACILITIES.
5. PRECIPITOUS TERRAIN ADDITIONS: 160 FT TO 230K PATTERN AND 210FT TO 310K PATTERN.
6. CHANGED PAT 1 CRS INBOUND FROM 268.61 TO 272.61 DUE TO AIRPORT MAGVAR UPDATE.
7. CHANGED FPO FROM SEA TO WST.
8. ADDED DIST FROM FAC 1 (15.00 NM) TO FIX MAKE-UP FACILITIE.
9. ADDED PRECIPITOUS TERRAIN EVALUATION COMPLETED TO REMARKS.
10. REMOVED 200' PAT 1 OBSTRUCTION DESCRIPTION.

DEVELOPED BY: DATE: 06/14/2016 OFFICE: AJV-5432 NAME: SYLVAN DRAKES
APPROVED BY: DATE: OFFICE: AJV-5430 NAME: LONNIE EVERHART

SIGNATURE: *Digitally signed by*
DONALD H LANIER

DISTRIBUTION: NFDC Oct 13, 2016
 FPO: WST
 ARTCC: ZLC
 ATC FACILITY:
 OTHER:



CANCEL

RADIO FIX AND HOLDING DATA RECORD

NAME: CUBGA

STATE: MT

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 470310.73N/1092431.03W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: CANCEL

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	KLWT R07					090.01	2.50				17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	LEWISTOWN MUNI - RNAV (GPS) RWY 7			KLWT	LEWISTOWN	MT (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 04/13/2006

DEVELOPED BY:

DATE:

OFFICE:

NAME:

APPROVED BY:

DATE:

OFFICE: AJV-5430

NAME: LONNIE EVERHART

SIGNATURE: *Digitally signed by*
DONALD H LANIER

DISTRIBUTION:

NFDC
FPO: SEA
ARTCC: ZLC
ATC FACILITY:
OTHER:

Oct 13, 2016

QUALITY
16
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: EVBUJ

STATE: MT

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 470309.79N/1094419.14W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

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 MIN	ALTITUDES MAX	TEMPLATES MIN	MAX
1	W		WP	258.81	078.81	R	7	6800	8000	9	9

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	465930.00N/1100751.00W	4935	4E

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	RNAV (GPS) RWY 8		1	KLWT	LEWISTOWN	MT (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 11/10/2016

REASON FOR REVISION:

1. MOVED HOLDING LIMITED TO ESTABLISHED PATTERN FROM REMARKS TO HOLDING RESTRICTIONS.
2. CHANGED RNAV (GPS) RWY 7 TO RNAV (GPS) RWY 8 IN FIX USE AND MOVED TITLE TO SAME LINE.
3. CHANGED PAT 1 CRS INBOUND FROM 074.81 TO 078.81 DUE TO AIRPORT MAGVAR UPDATE.
4. ADDED PRECIPITOUS TERRAIN EVALUATION COMPLETED TO REMARKS.
5. REMOVED 200' PAT 1 OBSTRUCTION DESCRIPTION.
6. CHANGED FPO FROM SEA TO WST.

DEVELOPED BY:

DATE: 06/14/2016

OFFICE: AJV-5432

NAME: SYLVAN DRAKES

APPROVED BY:

DATE:

OFFICE: AJV-5430

NAME: LONNIE EVERHART

Digitally signed by
SIGNATURE: **DONALD H LANIER**

Oct 13, 2016

DISTRIBUTION:

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FPO: WST
ARTCC: ZLC
ATC FACILITY:
OTHER:

QUALITY
16
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: LEWISTOWN VOR/DME **STATE:** MT **COUNTRY:** US **ICAO REGION CODE:** K1
LATITUDE/LONGITUDE: 470310.69N/1093622.21W **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	MRA FEET	MAA
1	LEWISTOWN	LWT	VOR/DME	H						45000

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	LWT	VOR/DME	274.00	094.00	R	1-1 1/2	5700 17500	5 16
2	E		WP	092.61	272.61	R	5	7200 17500	9 17

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	465839.00N/1093530.00W	4620	2C
1	310	AAO	465100.00N/1093333.00W	6040	2C
2	230	AAO	470906.00N/1092118.00W	6172	4E

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	TAKEOFF MINS	KLWT	LEWISTOWN	MT (US)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
FAC MAG VAR E15 1990.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BILLINGS			KBIL	BILLINGS	MT (US)
DP	STAKK	1		KHLN	HELENA	MT (US)
DP	BILLINGS			K6S8	LAUREL	MT (US)
DP	TAKEOFF MINS		1	KLWT	LEWISTOWN	MT (US)
EN ROUTE	J70	1				(US)
EN ROUTE	V113	1				(US)
EN ROUTE	V120	1				(US)
EN ROUTE	V611	1				(US)
IAP	RNAV (GPS) RWY 26			KLWT	LEWISTOWN	MT (US)
IAP	RNAV (GPS) RWY 8		2	KLWT	LEWISTOWN	MT (US)
IAP	VOR RWY 8		1	KLWT	LEWISTOWN	MT (US)

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

COMPULSORY REPORTING POINT: LOW

RECORD REVISION NUMBER: 10

DATE OF REVISION: 11/10/2016

REASON FOR REVISION:

1. CHANGED PATTERN 2 MAX TEMPLATE FROM 16 TO 17.
2. REMOVED 200' FROM CONTROLLING OBSTRUCTION PAT 1 AND 2.
3. CHANGED PAT 1 MIN ALT FROM 6000 TO 5700, UPDATED MSL ELEV FROM 4603 TO 4620 AND CHANGED AC CODE FROM 4E TO 2C.
4. ADDED CLIMB IN HOLD 310K PAT 1 OBSTACLE.
5. ADDED PAT 1 TO TAKEOFF MINS/FIX USE AND PROCEDURES REQUIRING CLIMB-IN-HOLD.
6. CHANGED PAT 2 CRS INBOUND FROM 268.61 TO 272.61 FOR AIRPORT MAGVAR UPDATE.
7. ADDED FAC MAG VAR E15 1990 TO REMARKS.
8. ADDED VOR RWY 8 TO FIX USE.

DEVELOPED BY: **DATE:** 06/14/2016 **OFFICE:** AJV-5432 **NAME:** SYLVAN DRAKES
APPROVED BY: **DATE:** **OFFICE:** AJV-5430 **NAME:** LONNIE EVERHART
SIGNATURE: *Digitally signed by*
DONALD H LANIER

DISTRIBUTION: NFDC
FPO: WST
ARTCC: ZLC
ATC FACILITY:
OTHER:

Oct 13, 2016



RADIO FIX AND HOLDING DATA RECORD

NAME: OKVUJ

STATE: MT

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 470310.62N/1093537.06W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
EN ROUTE
IAP

USE TITLE
Q142
RNAV (GPS) RWY 8

FAC PAT AIRPORT IDENT CITY
KLWT LEWISTOWN

STATE
(US)
MT (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 11/10/2016

REASON FOR REVISION:

1. MOVED FIX COORDINATES WEST 448.71 FT DUE TO PFAF CALCULATIONS.
2. REMOVED RNAV (GPS) RWY 26 FIX USE, MISSED APPROACH INSTRUCTIONS CHANGED.

DEVELOPED BY:

DATE: 06/14/2016

OFFICE: AJV-5432

NAME: SYLVAN DRAKES

APPROVED BY:

DATE:

OFFICE: AJV-5430

NAME: LONNIE EVERHART

SIGNATURE: *Digitally signed by*
DONALD H LANIER

Oct 13, 2016

DISTRIBUTION:

NFDC
FPO: WST
ARTCC: ZLC
ATC FACILITY:
OTHER:



RADIO FIX AND HOLDING DATA RECORD

NAME: UFXIT STATE: MT COUNTRY: US ICAO REGION CODE: K1
 LATITUDE/LONGITUDE: 470620.62N/1095014.86W TYPE: WP, 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	LEWISTOWN	LWT	VOR/DME	H	273.55	288.55	10.00	10.00		6000	17500

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 MIN	ALTITUDES MAX	TEMPLATES MIN	MAX
1	W		WP	276.23	096.23	R		7	8400	14000	10	11

CONTROLLING OBSTRUCTIONS:

PAT	AIR SPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	470533.00N/1101439.00W	5023	4E
1	310	AAO	465845.00N/1102006.00W	7523	4E

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	RNAV (GPS) RWY 26	KLWT	LEWISTOWN	MT (US)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
 310 KT CONTROLLING OBST LOCATED 11620' INTO SECONDARY AREA. PRIMARY EQUIVALENT ELEV = 6545'.
 FIX IS ALIGNED WITH V120 ONLY, MRA BASED ON EVALUATION NOT MEA OF AIRWAY.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V120	1				(US)
IAP	RNAV (GPS) RWY 26		1	KLWT	LEWISTOWN	MT (US)
IAP	RNAV (GPS) RWY 8			KLWT	LEWISTOWN	MT (US)
IAP	VOR RWY 8	1		KLWT	LEWISTOWN	MT (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 **DATE OF REVISION:** 11/10/2016

REASON FOR REVISION:

1. CHANGED FAC 1 MRA FROM 8400 TO 6000.
2. CHANGED PAT 1 CRS INBOUND FROM 092.23 TO 096.23 DUE TO AIRPORT MAGVAR UPDATE.
3. ADDED VOR RWY 8 TO FIX USE.

DEVELOPED BY: DATE: 06/14/2016 OFFICE: AJV-5432 NAME: SYLVAN DRAKES
APPROVED BY: DATE: OFFICE: AJV-5430 NAME: LONNIE EVERHART
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SIGNATURE: DONALD H LANIER
 Oct 13, 2016

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 OTHER:

