

RADIO FIX AND HOLDING DATA RECORD

NAME: BILLINGS VORTAC **STATE:** MT **COUNTRY:** US **ICAO REGION CODE:** K1

LATITUDE/LONGITUDE: 454830.81N/1083728.73W **TYPE:**

AIRSPACE DOCKET: 17-ANM-24 **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	BILLINGS	BIL	VORTAC	H						45000

FIX RESTRICTIONS:

MCA V187 6500 SOUTHBOUND
MCA V465 7000 SOUTHBOUND

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	NE	BIL	VORTAC	028.00	208.00	R	1		6300	20000	8	17
2	W	BIL	VORTAC	252.00	072.00	R	1		6000	14000	7	10
3	SE	BIL	VORTAC	123.00	303.00	R	1		6000	20000	7	17

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	455142.00N/1084600.00W	4462	4E
2	230	AAO	454315.00N/1085457.00W	4580	4E
2	310	AAO	454315.00N/1085457.00W	4580	4E
3	230	TOWER (30-000339)	454535.06N/1082702.22W	4261	1A

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
2	ILS OR LOC RWY 28R	KBIL	BILLINGS	MT (US)
2	VOR-A	KBIL	BILLINGS	MT (US)
2	VOR/DME RWY 28R	KBIL	BILLINGS	MT (US)
2	TAKEOFF MINIMUMS	K6S8	LAUREL	MT (US)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
BIL VORTAC MAG VAR: 1990/E14.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BILLINGS			KBIL	BILLINGS	MT (US)
DP	BOBKT (RNAV)			KBZN	BOZEMAN	MT (US)
DP	BILLINGS			K6S8	LAUREL	MT (US)
DP	TAKEOFF MINIMUMS		2	K6S8	LAUREL	MT (US)
DP	CASPER			KCPR	CASPER	WY (US)
EN ROUTE	J13					(US)
EN ROUTE	J136					(US)
EN ROUTE	J151					(US)
EN ROUTE	J16					(US)
EN ROUTE	J203					(US)
EN ROUTE	J34					(US)
EN ROUTE	J713					(US)
EN ROUTE	T268					(US)
EN ROUTE	T317					(US)
EN ROUTE	V187					(US)
EN ROUTE	V2					(US)
EN ROUTE	V247					(US)
EN ROUTE	V465					(US)
EN ROUTE	V611					(US)
EN ROUTE	V85					(US)
EN ROUTE	V86					(US)
IAP	HI VOR/DME OR TACAN RWY 28R			KBIL	BILLINGS	MT (US)
IAP	HI-ILS Z OR LOC Z RWY 10L			KBIL	BILLINGS	MT (US)
IAP	ILS OR LOC RWY 28R		2	KBIL	BILLINGS	MT (US)
IAP	ILS Y OR LOC Y RWY 10L		3	KBIL	BILLINGS	MT (US)
IAP	RNAV (GPS) RWY 10L			KBIL	BILLINGS	MT (US)
IAP	RNAV (GPS) RWY 25			KBIL	BILLINGS	MT (US)
IAP	RNAV (GPS) RWY 7			KBIL	BILLINGS	MT (US)
IAP	VOR-A		2	KBIL	BILLINGS	MT (US)
IAP	VOR/DME RWY 28R		2	KBIL	BILLINGS	MT (US)
IAP	GPS RWY 6			KM46	COLSTRIP	MT (US)
IAP	RNAV (GPS) RWY 22			K6S8	LAUREL	MT (US)

IAP	VOR RWY 22	1	K6S8	LAUREL	MT (US)
IAP	RNAV (GPS) RWY 13		KPOY	POWELL	WY (US)
STAR	BGHRN (RNAV)		KBIL	BILLINGS	MT (US)
STAR	CRAZI (RNAV)		KBIL	BILLINGS	MT (US)
STAR	KUSTR (RNAV)		KBIL	BILLINGS	MT (US)
STAR	YLSTN (RNAV)		KBIL	BILLINGS	MT (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 23

DATE OF REVISION: 08/15/2019

REASON FOR REVISION:

ADDED AIRSPACE DOCKET 17-ANM-24.

CHANGED HOLDING PAT 1 LEG LENGTH TIME FROM 1 - 1 1/2 TO 1.

CHANGED HOLDING PAT 3 LEG LENGTH TIME FROM 1 - 1 1/2 TO 1.

UPDATED FIX USE; ADDED T317 AND T268. REMOVED HOLDING PAT 2 AND CIH FROM HI VDME OR TAC RWY 28R AT KBIL. CHANGED KBIL ILS OR LOC RWY 10L TO ILS Y OR LOC Y RWY 10L. ADDED KBIL HI-ILS Z OR LOC Z RWY 10L.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A422

NAME: BARRY SMITH

APPROVED BY:

DATE:

OFFICE: AJV-A422

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: WST

ARTCC: ZLC

ATC FACILITY: BIL APP CON

OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: DAIRE

STATE: MT

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 465028.96N/1142736.05W

TYPE: WP, DME

AIRSPACE DOCKET: 17-ANM-24

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	MISSOULA	MSO	VOR/DME	L	242.67	255.67	16.00	16.00		9000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	T276					(US)
EN ROUTE	T317					(US)
EN ROUTE	V187	1				(US)
IAP	VOR-B	1		KMSO	MISSOULA	MT (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 08/15/2019

REASON FOR REVISION:

1. ADDED WP TO TYPE
2. ADDED AIRSPACE DOCKET NUMBER.
3. FIX USE: ADDED T276 AND T317.
4. CHARTING: CHANGED CONTROLLER TO CONTROLLER LOW.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A422

NAME: BARRY SMITH

APPROVED BY:

DATE:

OFFICE: AJV-A422

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: WST
ARTCC: ZLC
ATC FACILITY: GEG APP CON, MSO ATCT
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: JIROS

STATE: MT

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 464812.14N/1144016.78W

TYPE: WP, DME

AIRSPACE DOCKET: 17-AMN-24

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	MISSOULA	MSO	VOR/DME	L	242.67	255.67	25.00	25.00		12000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	T276					(US)
EN ROUTE	T317					(US)
EN ROUTE	V187	1		KMSO	MISSOULA	MT (US)
IAP	ILS Y RWY 12	1		KMSO	MISSOULA	MT (US)
IAP	ILS Z RWY 12	1		KMSO	MISSOULA	MT (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 08/15/2019

REASON FOR REVISION:

1. ADDED AIRSPACE DOCKET NUMBER.
2. ADDED WP TO TYPE.
3. ADDED CONTROLLER LOW TO CHARTING.
4. ADDED T276 AND T317 TO FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A422

NAME: BARRY SMITH

APPROVED BY:

DATE:

OFFICE: AJV-A422

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: WST
ARTCC: ZLC
ATC FACILITY: GEG APP CON, MSO ATCT
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: LOLLO

STATE: MT

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 465044.16N/1142611.47W

TYPE: WP, DME

AIRSPACE DOCKET: 17-ANM-24

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	MISSOULA	MSO	VOR/DME	L	242.67	255.67	15.00	15.00		10000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	T276					(US)
EN ROUTE	T317					(US)
EN ROUTE	V187					(US)
IAP	RNAV (RNP) Z RWY 12			KMSO	MISSOULA	MT (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 08/15/2019

REASON FOR REVISION:

1. ADDED AIRSPACE DOCKET NUMBER.
2. FIX MAKE-UP FACILITIES: CHANGED FAC 1 (MSO) MAG/TRUE BRG FROM 242.68/255.68 TO 242.67/255.67.
3. FIX USE: ADDED T276 AND T317.
4. CHARTING: ADDED CONTROLLER LOW.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A422

NAME: BARRY SMITH

APPROVED BY:

DATE:

OFFICE: AJV-A422

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: WST
ARTCC: ZLC
ATC FACILITY: GEG APP CON, MSO ATCT
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: MERFF

STATE: WA

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 470212.58N/1202728.25W

TYPE: WP

AIRSPACE DOCKET: 17-ANM-24

FIX TYPE OF ACTION: ESTABLISH

FIX USE:

USE TYPE

EN ROUTE

EN ROUTE

USE TITLE

T268

T317

FAC

PAT

AIRPORT IDENT CITY

STATE

(US)

(US)

REQUIRED CHARTING: EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 08/15/2019

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A422

NAME: BARRY SMITH

APPROVED BY:

DATE:

OFFICE: AJV-A422

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: WST

ARTCC: ZSE

ATC FACILITY:

OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: MISSOULA VOR/DME **STATE:** MT **COUNTRY:** US **ICAO REGION CODE:** K1
LATITUDE/LONGITUDE: 465428.68N/1140501.15W **TYPE:**
AIRSPACE DOCKET: 17-ANM-24 **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	MISSOULA	MSO	VOR/DME	L						17500

FIX RESTRICTIONS:

MCA V-231 10000 SOUTHBOUND

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	MSO	VOR/DME	289.00	109.00	R	1		9000	17500	9	16
2	S	MSO	VOR/DME	164.00	344.00	R	1		9100	17500	9	16
3	NW	MSO	VOR/DME	331.00	151.00	R	1		9600	14000	9	10
4	NW		WP	331.14	151.14	R		7	9000	17500	10	17

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	465436.20N/1142429.00W	7470	2C
2	230	AAO	464009.00N/1141056.00W	8724	2C
3	230	AAO	470227.00N/1135912.00W	8071	4E
3	310	AAO	470927.80N/1142127.10W	8196	6A
4	230	TOWER (30-000293)	470157.00N/1135933.00W	7699	5E

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	230	380
2	230	339
3	310	305
3	230	319
4	230	380

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
3	GRZLY	KMSO	MISSOULA	MT (US)

REMARKS:

PAT 2 CONTROLLING OBSTACLE LOCATED 11712 FT IN SECONDARY.
 PAT 3 CONTROLLING OBSTACLE LOCATED 8160 FT IN SECONDARY.
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.
 ASSIGNED FACILITY MAGVAR: E13/2020.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	HAMEY		4	K6S5	HAMILTON	MT (US)
DP	DIDLY			KMSO	MISSOULA	MT (US)
DP	GRZLY		3	KMSO	MISSOULA	MT (US)
DP	MZULA			KMSO	MISSOULA	MT (US)
EN ROUTE	T268					(US)
EN ROUTE	T276					(US)
EN ROUTE	T317					(US)
EN ROUTE	V187					(US)
EN ROUTE	V2					(US)
EN ROUTE	V231					(US)
EN ROUTE	V86					(US)
IAP	RNAV (GPS)-A			K6S5	HAMILTON	MT (US)
IAP	ILS Y RWY 12		2	KMSO	MISSOULA	MT (US)
IAP	ILS Z RWY 12			KMSO	MISSOULA	MT (US)
IAP	RNAV (RNP) RWY 30			KMSO	MISSOULA	MT (US)
IAP	VOR-A		2	KMSO	MISSOULA	MT (US)
IAP	VOR-B			KMSO	MISSOULA	MT (US)
IAP	RNAV (GPS)-A			K32S	STEVENSVILLE	MT (US)
SPECIAL DP	BITTERROOT			KMSO	MISSOULA	MT (US)

REQUIRED CHARTING: DP, IAP, EN ROUTE LOW, SPECIAL DP, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO**RECORD REVISION NUMBER: 14****DATE OF REVISION: 08/15/2019****REASON FOR REVISION:**

ADDED AIRSPACE DOCKET 17-ANM-24.
CHANGED HOLDING PAT 1 230KT PRECIP TERR ADDITION FROM 312 TO 380.
CHANGED HOLDING PAT 4 230KT PRECIP TERR ADDITION FROM 327 TO 380.
ADDED T268, T276 AND T317 TO FIX USE.
ADDED CONTROLLER LOW TO REQUIRED CHARTING.

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

AJV-A422

NAME: BARRY SMITH**APPROVED BY:****DATE:****OFFICE: AJV-A422****NAME: MARLON ROBINSON****SIGNATURE:****DISTRIBUTION:****NFDC****FPO: WST****ARTCC: ZLC****ATC FACILITY: GEG ATCT, MSO ATCT****OTHER:**

RADIO FIX AND HOLDING DATA RECORD

NAME: NEWMAN VORTAC **STATE:** TX **COUNTRY:** US **ICAO REGION CODE:** K4
LATITUDE/LONGITUDE: 315706.43N/1061620.85W **TYPE:**

AIRSPACE DOCKET: 17-ANM-24 **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	NEWMAN	EWM	VORTAC	L						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 ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	NE	EWM	VORTAC	029.65	209.65	R	1		6300	17500	8	16

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	320412.00N/1060400.00W	5151	4E
UPN	230	AAO	315412.00N/1062936.00W	7287	4E

HOLDING RESTRICTIONS:

PRIOR COORDINATION REQUIRED WITH ATC WHEN HOLDING OVER R-5103A/B, R-5107A/K, AND MEXICO AIRSPACE.
 PATTERN 1 PROTECTED AIRSPACE OVERLIES R-5103A/B AND R-5107A/K.
 UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 8800. PORTIONS OF UNPLANNED HOLDING PROTECTED AIRSPACE OVERLIES MEXICAN AIRSPACE AND R-5103A/B AND R-5107A/K.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
 MAGVAR E12/1965.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	J184					(US)
EN ROUTE	J4					(US)
EN ROUTE	J66					(US)
EN ROUTE	Q2					(US)
EN ROUTE	T317					(US)
EN ROUTE	V560					(US)
EN ROUTE	V611					(US)
EN ROUTE	V94					(US)
IAP	HI-VOR/DME OR TACAN RWY 26L			KELP	EL PASO	TX (US)
IAP	ILS OR LOC RWY 22			KELP	EL PASO	TX (US)
IAP	VOR RWY 26L			KELP	EL PASO	TX (US)
IAP	VOR OR TACAN RWY 21		1	KBIF	FORT BLISS/EL PASO/	TX (US)
STAR	ZONNA (RNAV)			KTUS	TUCSON	AZ (US)

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

COMPULSORY REPORTING POINT: LOW/HIGH

RECORD REVISION NUMBER: 12 **DATE OF REVISION:** 08/15/2019

REASON FOR REVISION:

LOWERED PAT 1 MIN HOLDING ALTITUDE FROM 6500 TO 6300.
 UPDATED DISTRIBUTION, ADDED ELP ATCT, BIF ATCT AND USAASA.

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

OFFICE OF PRIMARY RESPONSIBILITY: AJV-5410 **NAME:** IVAN BLANCO

APPROVED BY: **DATE:** **OFFICE:** AJV-5410 **NAME:** GEORGE DAVIS

SIGNATURE:

DISTRIBUTION: NFDC
 FPO: WST
 ARTCC: ZAB
 ATC FACILITY: ELP APP CON, ELP ATCT, BIF ATCT
 OTHER: USAASA

RADIO FIX AND HOLDING DATA RECORD

NAME: OFINO **STATE:** ID **COUNTRY:** US **ICAO REGION CODE:** K1
LATITUDE/LONGITUDE: 463119.36N/1160954.90W **TYPE:** WP, INT, DME
AIRSPACE DOCKET: 17-ANM-24 **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	NEZ PERCE	MQG	VOR/DME	L	053.65	073.65	30.41	30.41	5500	17500
2	MULLAN PASS	MLP	VOR/DME	H	186.00	201.00		60.03	8500	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
MLP	VOR/DME	R-186	61	8500	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	SW	MQG	VOR/DME	233.65	053.65	L	1		8500	14000	11	12
2	SW		WP	238.65	058.65	L		5	6000	14000	6	11

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	463527.80N/1162339.80W	4340	6A
2	200	AAO	463500.00N/1162236.00W	3813	4E

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	230	220
2	200	224

REASON FOR NONSTANDARD HOLDING:

PAT 2 ATC REQUESTED
 PAT 1 ATC REQUESTED

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S).

REMARKS:

NEZ PERCE (FAC 1) AND MULLAN PASS (FAC 2) USED TO ESTABLISH FIX COORDINATES
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.
 PAT 1 FOR ATC USE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	T276					(US)
EN ROUTE	T317					(US)
EN ROUTE	V187					(US)
IAP	RNAV (RNP) RWY 30	1, 2		KLWS	LEWISTON	ID (US)
IAP	RNAV (RNP) Z RWY 12		2	KLWS	LEWISTON	ID (US)
IAP	RNAV (RNP) Z RWY 26			KLWS	LEWISTON	ID (US)
IAP	RNAV (RNP) Z RWY 8		2	KLWS	LEWISTON	ID (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 08/15/2019

REASON FOR REVISION:

- ADDED AIRSPACE DOCKET NUMBER.
- CHANGED PATTERN 1 LEG TIME FROM 1 1 1/2 TO 1. CHANGED PAT 2 MIN ALT FROM 5800 TO 6000.
- REMARKS: ADDED NEZ PERCE (FAC 1) AND MULLAN PASS (FAC 2) USED TO ESTABLISH FIX COORDINATES.
- FIX USE: ADDED T276 AND T317.
- CHARTING: CHANGED CONTROLLER TO CONTROLLER LOW.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A422

NAME: BARRY SMITH

APPROVED BY:

DATE:

OFFICE: AJV-A422

NAME: MARLON ROBINSON

SIGNATURE:**DISTRIBUTION:**

NFDC
FPO: WST
ARTCC: ZSE
ATC FACILITY: LWS ATCT
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: PASCO VOR/DME **STATE:** WA **COUNTRY:** US **ICAO REGION CODE:** K1

LATITUDE/LONGITUDE: 461612.96N/1190702.27W **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	PASCO	PSC	VOR/DME	L						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	E	PSC	VOR/DME	111.00	291.00	R	1	3000 17500	4 16
2	E	PSC	VOR/DME	092.44	272.44	R	1	2400 6000	4 5

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	461645.00N/1185545.00W	939	4E
2	200	AAO	461751.00N/1185427.00W	1030	4E
2	310	AAO	460942.00N/1190906.00W	1382	4E
UPN	200	AAO	460613.56N/1190743.67W	2400	2C

HOLDING RESTRICTIONS:

UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 3500.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
2	TAKE-OFF MINIMUMS	KPSC	PASCO	WA (US)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
TEMPLATE 13 USED FOR CIH.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	MOSES			KMWH	MOSES LAKE	WA (US)
DP	TAKE-OFF MINIMUMS		2	KPSC	PASCO	WA (US)
DP	TRI-CITIES			KPSC	PASCO	WA (US)
DP	TAKE-OFF MINIMUMS			KRLD	RICHLAND	WA (US)
DP	MOUNTAIN			KSEA	SEATTLE	WA (US)
DP	SPOKANE			KGEG	SPOKANE	WA (US)
DP	FELTS			KSFF	SPOKANE	WA (US)
DP	WALLA WALLA			KALW	WALLA WALLA	WA (US)
DP	NACHES			KYKM	YAKIMA	WA (US)
EN ROUTE	T317					(US)
EN ROUTE	V187					(US)
EN ROUTE	V204					(US)
EN ROUTE	V281					(US)
EN ROUTE	V298					(US)
EN ROUTE	V520					(US)
IAP	ILS OR LOC RWY 25			KPDT	PENDLETON	OR (US)
IAP	ILS OR LOC/DME RWY 21R			KPSC	PASCO	WA (US)
IAP	RNAV (GPS) Y RWY 12			KPSC	PASCO	WA (US)
IAP	RNAV (GPS) Y RWY 21R			KPSC	PASCO	WA (US)
IAP	RNAV (GPS) Y RWY 30			KPSC	PASCO	WA (US)
IAP	RNAV (GPS) Y RWY 3L			KPSC	PASCO	WA (US)
IAP	VOR/DME RWY 21R			KPSC	PASCO	WA (US)
IAP	VOR/DME RWY 30			KPSC	PASCO	WA (US)
IAP	LOC RWY 19			KRLD	RICHLAND	WA (US)
IAP	RNAV (GPS) RWY 26			KRLD	RICHLAND	WA (US)
IAP	VOR/DME-A		1	KRLD	RICHLAND	WA (US)
IAP	ILS Y OR LOC RWY 20			KALW	WALLA WALLA	WA (US)
IAP	ILS Z OR LOC/DME RWY 20			KALW	WALLA WALLA	WA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 11

DATE OF REVISION: 06/20/2019

REASON FOR REVISION:

CHANGED KPDT ILS OR LOC/DME RWY 25 TO ILS OR LOC RWY 25 IN FIX USE.
CHANGED KALW ILS OR LOC Y RWY 20 AND ILS OR LOC/DME Z RWY 20 TO ILS Y OR LOC RWY 20 AND ILS Z OR LOC/DME RWY 20 IN FIX
USE TO MATCH PUBLISHED PROCEDURES.
ADDED T317 TO FIX USE.
CHANGED CONTROLLER TO CONTROLLER LOW IN REQUIRED CHARTING.

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

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A422 **NAME:** RALPH DUMAR

APPROVED BY: **DATE:** **OFFICE:** AJV-A42 **NAME:** JULIE MORGAN

SIGNATURE:

DISTRIBUTION: **NFDC**
 FPO: WST
 ARTCC: ZSE
 ATC FACILITY: PSC ATCT
 OTHER: PSC APP CON

RADIO FIX AND HOLDING DATA RECORD

NAME: POTOR **STATE:** WA **COUNTRY:** US **ICAO REGION CODE:** K1

LATITUDE/LONGITUDE: 462145.19N/1171741.37W **TYPE:** WP, INT, DME

AIRSPACE DOCKET: 17-ANM-24 **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	NEZ PERCE	MQG	VOR/DME	L	246.46	266.46	17.71	17.71		4700	10000
2	PULLMAN	PUW	VOR/DME	L	169.00	189.00		18.94		4700	10000

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	SW	MQG	VOR/DME	246.46	066.46	L	1	7200 10000	8 9

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	200' AAO	461551.00N/1173306.00W	5332	4E

REASON FOR NONSTANDARD HOLDING:

PAT 1 HIGH TERRAIN TO SOUTH

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

NEZ PERCE (FAC 1) AND PULLMAN (FAC 2) USED TO ESTABLISH FIX COORDINATES
PATTERN 1 PER ATC REQUEST
PRECIPITOUS TERRAIN EVALUATION COMPLETED

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE ID (US)
DP	POTOR	1, 2		KLWS	LEWISTON	(US)
EN ROUTE	T276					(US)
EN ROUTE	T317					(US)
EN ROUTE	V187	1, 2	1			(US)

REQUIRED CHARTING: DP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6 **DATE OF REVISION:** 08/15/2019

REASON FOR REVISION:

1. ADDED AIRSPACE DOCKET NUMBER.
2. ADDED WP TO TYPE.
3. CHANGED PATTERN 1 HOLDING ALT FROM 7000 TO 7200. CHANGED PATTERN 1 MIN/MAX TEMPLATES FROM 9/10 TO 8/9.
4. UPDATED FIX USE FORMAT FOR POTOR DP
5. ADDED T276 AND T317 TO FIX USE.
6. CHARTING: CHANGED CONTROLLER TO CONTROLLER LOW.

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

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A422 **NAME:** BARRY SMITH

APPROVED BY: **DATE:** **OFFICE:** AJV-A422 **NAME:** MARLON ROBINSON

SIGNATURE:

DISTRIBUTION: NFDC
FPO: WST
ARTCC: ZSE
ATC FACILITY:
OTHER: BOI FSS

RADIO FIX AND HOLDING DATA RECORD

NAME: RENG0

STATE: WA

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 462008.16N/1175042.07W

TYPE: WP, DME

AIRSPACE DOCKET: 17-ANM-24

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	NEZ PERCE	MQG	VOR/DME	L	246.46	266.46	40.63	40.63		7000	17500
2	WALLA WALLA	ALW	VOR/DME	L	031.17	051.17	23.88	23.88		6000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
MQG	VOR/DME	R-246	41	7000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

NEZ PERCE (FAC 1) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	T276					(US)
EN ROUTE	T317					(US)
EN ROUTE	V187	1				(US)
EN ROUTE	V536	2				(US)
IAP	ILS Y OR LOC RWY 20	1		KALW	WALLA WALLA	WA (US)
IAP	ILS Z OR LOC/DME RWY 20	1		KALW	WALLA WALLA	WA (US)
IAP	RNAV (GPS) RWY 20			KALW	WALLA WALLA	WA (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6

DATE OF REVISION: 08/15/2019

REASON FOR REVISION:

1. ADDED AIRSPACE DOCKET NUMBER.
2. FIX MAKE-UP: CHANGED FAC 1 MRA FROM 7200 TO 7000. ADDED DME TO FAC 2. DELETED FAC 3 (PSC).
3. REMOVED PSC ESV.
4. REMARKS: CHANGED FIX COORDINATES ESTABLISHED BY FAC 1 AND FAC 2 TO FAC 1 ONLY.
5. FIX USE: ADDED T276 AND T317. DELETED FAC 2 FROM V187 AND KALW ILS Y OR LOC RWY 20. DELETED FAC 1 FROM V536.
6. CHARTING: CHANGED CONTROLLER TO CONTROLLER LOW.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A422

NAME: BARRY SMITH

APPROVED BY:

DATE:

OFFICE: AJV-A422

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: WST
ARTCC: ZSE
ATC FACILITY: ALW
OTHER: CHINOOK APP CON

RADIO FIX AND HOLDING DATA RECORD

NAME: RIVAL

STATE: MT

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 464842.79N/1143727.79W

TYPE: WP, DME

AIRSPACE DOCKET: 17-AMN-24

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	MISSOULA	MSO	VOR/DME	L	242.67	255.67	23.00	23.00		12000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	T276					(US)
EN ROUTE	T317					(US)
EN ROUTE	V187	1				(US)
IAP	RNAV (GPS) Y RWY 12			KMSO	MISSOULA	MT (US)
IAP	RNAV (GPS)-A			K32S	STEVENSVILLE	MT (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 11

DATE OF REVISION: 08/15/2019

REASON FOR REVISION:

1. ADDED AIRSPACE DOCKET NUMBER.
2. TYPE: REMOVED INT AND ADDED WP.
3. FIX USE: REMOVED RNAV (GPS)-D AT KMSO.
4. FIX USE: ADDED T276 AND T317.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A422

NAME: BARRY SMITH

APPROVED BY:

DATE:

OFFICE: AJV-A422

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: ROCK SPRINGS VOR/DME

STATE: WY

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 413524.76N/1090055.18W

TYPE:

AIRSPACE DOCKET: 17-ANM-24

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	ROCK SPRINGS	OCS	VOR/DME	H						45000

FIX RESTRICTIONS:

MCA T317 10200 SOUTHBOUND

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	E	OCS	VOR/DME	090.00	270.00	R	1	9300 17500	9 16
2	E	OCS	VOR/DME	080.00	260.00	R	1	9100 17500	9 16

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	413308.70N/1084816.30W	8297	6A
1	310	AAO	413308.70N/1084816.30W	8297	6A
2	230	AAO	413308.70N/1084816.30W	8297	6A
UPN	230	AAO	412548.00N/1090715.00W	8855	4E

HOLDING RESTRICTIONS:

UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 10200 FEET.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	ILS OR LOC RWY 27	KRKS	ROCK SPRINGS	WY (US)
2	VOR RWY 9	KRKS	ROCK SPRINGS	WY (US)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
OCS MAG VAR: 1995/E13.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	DENVER			KBKF	AURORA	CO (US)
DP	DENVER			KAPA	DENVER	CO (US)
DP	DENVER			KBJC	DENVER	CO (US)
DP	DENVER			KDEN	DENVER	CO (US)
DP	DENVER			KFTG	DENVER	CO (US)
DP	DENVER			KFNL	FORT COLLINS/LOVELAND	CO (US)
DP	DENVER			KGXY	GREELEY	CO (US)
DP	RUGGD (RNAV)			KSLC	SALT LAKE CITY	UT (US)
DP	SALT LAKE			KSLC	SALT LAKE CITY	UT (US)
DP	CASPER			KCPR	CASPER	WY (US)
DP	ALPIN			KJAC	JACKSON	WY (US)
DP	TAKEOFF MINIMUMS			KRKS	ROCK SPRINGS	WY (US)
EN ROUTE	J107					(US)
EN ROUTE	J154					(US)
EN ROUTE	J163					(US)
EN ROUTE	J20					(US)
EN ROUTE	J202					(US)
EN ROUTE	J206					(US)
EN ROUTE	J52					(US)
EN ROUTE	J94					(US)
EN ROUTE	T298					(US)
EN ROUTE	T302					(US)
EN ROUTE	T317					(US)
EN ROUTE	V142					(US)
EN ROUTE	V187					(US)
EN ROUTE	V235					(US)
EN ROUTE	V328					(US)
EN ROUTE	V391					(US)
EN ROUTE	V4					(US)
EN ROUTE	V6					(US)
IAP	ILS OR LOC RWY 27		1	KRKS	ROCK SPRINGS	WY (US)
IAP	RNAV (GPS) RWY 9			KRKS	ROCK SPRINGS	WY (US)
IAP	RNAV (GPS) RWY 27			KRKS	ROCK SPRINGS	WY (US)
IAP	VOR RWY 9		2	KRKS	ROCK SPRINGS	WY (US)
IAP	VOR/DME RWY 27		2	KRKS	ROCK SPRINGS	WY (US)
STAR	RAMMS			KBKF	AURORA	CO (US)
STAR	RAMMS			KAPA	DENVER	CO (US)
STAR	RAMMS			KBJC	DENVER	CO (US)

STAR	RAMMS	KDEN	DENVER	CO (US)
STAR	RAMMS	KFTG	DENVER	CO (US)
STAR	RAMMS	KFNL	FORT COLLINS/LOVELAND	CO (US)
STAR	RAMMS	KGXY	GREELEY	CO (US)
STAR	BRIGHAM CITY	KSLC	SALT LAKE CITY	UT (US)
STAR	NORDK (RNAV)	KSLC	SALT LAKE CITY	UT (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: 17

DATE OF REVISION: 08/15/2019

REASON FOR REVISION:

1. ADDED AIRSPACE DOCKET NUMBER.
2. REMARKS: DELETED PAT 1, PAT 2 UNPLAN: NO ADJUSTMENT.
3. RESTRICTIONS: ADDED MCA T317 10200 SOUTHBOUND.
4. FIX USE: ADDED T302 AND T317.
5. FIX USE: CHANGED IAP AT KRKS FROM VOR RWY 27 TO VOR/DME RWY 27.
6. CHANGED HOLDING PAT 2 MIN ALT FROM 9300 TO 9100.
7. HOLDING RESTRICTIONS: REMOVED HOLDING LIMITED TO ESTABLISHED PATTERN.
8. ADDED (RNAV) TO KSLC NORDK STAR.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A422

NAME: BARRY SMITH

APPROVED BY:

DATE:

OFFICE: AJV-A422

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: WST
ARTCC: ZLC
ATC FACILITY: SLC APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: SEVER

STATE: WA

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 462107.70N/1173050.07W

TYPE: WP, INT, DME

AIRSPACE DOCKET: 17-ANM-24

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	NEZ PERCE	MQG	VOR/DME	L	246.46	266.46	26.83	26.83	7000	17500
2	PULLMAN	PUW	VOR/DME	L	192.01	212.01		22.77	7000	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 ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	SW	MQG	VOR/DME	246.46	066.46	L	1		7500	14000	9	11
2	W		WP	251.46	071.46	L		7	7000	14000	9	11

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	461521.00N/1173457.00W	5423	4E
2	230	AAO	461502.00N/1173457.00W	5423	4E
2	310	AAO	461315.00N/1173448.00W	5588	4E

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	230	310
2	230	310
2	310	195

REASON FOR NONSTANDARD HOLDING:

PAT 1 HIGH TERRAIN TO SOUTH
PAT 2 HIGH TERRAIN TO SOUTH

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S).

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
2	RNAV (GPS) Y RWY 26	KLWS	LEWISTON	ID (US)
2	RNAV (RNP) Z RWY 26	KLWS	LEWISTON	ID (US)

REMARKS:

NEZ PERCE (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	T276					(US)
EN ROUTE	T317					(US)
EN ROUTE	V187	1, 2	1			(US)
IAP	RNAV (GPS) Y RWY 26		2	KLWS	LEWISTON	ID (US)
IAP	RNAV (RNP) Z RWY 26		2	KLWS	LEWISTON	ID (US)
IAP	RNAV (RNP) Z RWY 8			KLWS	LEWISTON	ID (US)
IAP	VOR RWY 8	1, 2		KLWS	LEWISTON	ID (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7

DATE OF REVISION: 08/15/2019

REASON FOR REVISION:

- ADDED AIRSPACE DOCKET NUMBER.
- FIX MAKE-UP: CHANGED FAC 2 MAG/TRUE BRG FROM 192.00/212.00 TO 192.01/212.01, DIST FORM 22.78 TO 22.77.
- UPDATED OBSTACLES FOR PAT 1 AND 2 FOR SPEED 230.
- UPDATED ALL PRECIPITOUS TERRAIN ADDITIONS.
- FIX USE: ADDED T276 AND T317.
- CHARTING: CHANGED CONTROLLER TO CONTROLLER LOW.
- CHANGED HOLDING PAT 1 MIN ALT FROM 7000 TO 7500.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A422

NAME: BARRY SMITH**APPROVED BY:****DATE:****OFFICE:** AJV-A422**NAME:** MARLON ROBINSON**SIGNATURE:****DISTRIBUTION:**

NFDC
FPO: WST
ARTCC: ZSE
ATC FACILITY: LWS ATCT
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: WAANE

STATE: MT

COUNTRY: US

ICAO REGION CODE: K1

LATITUDE/LONGITUDE: 465118.62N/1142323.89W

TYPE: WP, DME

AIRSPACE DOCKET: 17-ANM-24

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	MISSOULA	MSO	VOR/DME	L	242.67	255.67	13.00	13.00		12000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	T276					(US)
EN ROUTE	T317					(US)
EN ROUTE	V187	1				MT (US)
IAP	VOR-A	1		KMSO	MISSOULA	MT (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 08/15/2019

REASON FOR REVISION:

1. ADDED AIRSPACE DOCKET NUMBER.
2. ADDED WP TO TYPE.
3. FIX USE: ADDED T276 AND T317.
4. CHARTING: ADDED CONTROLLER LOW.
5. FIX MAKE-UP FACILITIES: CHANGED FAC 1 (MSO) MAG/TRUE BRG FROM 243.00/256.00 TO 242.67/255.67.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A422

NAME: BARRY SMITH

APPROVED BY:

DATE:

OFFICE: AJV-A422

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: WST
ARTCC: ZLC
ATC FACILITY: GEG APP CON, MSO ATCT
OTHER: