U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION

GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
WENAS	SIX	WENAS6.WENAS	FIVE	29 MAY 81	

TYPE: SID

DP ROUTE DESCRIPTION:

TAKEOFF RWY 9, 27: CLIMBING LEFT TURN THENCE...

TAKEOFF RWY 22: CLIMBING RIGHT TURN THENCE...

....INTERCEPT AND PROCEED ON YKM VORTAC R-255 TO WENAS/YKM 9.00 DME, THEN ON ASSIGNED TRANSITION.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	Crossing Altitudes/Fixes
TITON	WENAS6.TITON	WENAS/YKM 9.00 DME	ORJOR/YKM 9.00 DME	YKM 9.00 DME ARC CW				
		ORJOR/YKM 9.00 DME	TITON INT/YKM 14.95 DME	283.82 (YKM R-284)	5.95	7000		
PERTT	WENAS6.PERTT	WENAS/YKM 9.00 DME	SELAH INT/YKM 9.00 DME	YKM 9.00 DME ARC CW				
		SELAH INT/YKM 9.00 DME	PERTT INT/YKM 23.45 DME	310.00 (YKM R-310)	14.49	6500		
ELENSBURG	WENAS6.ELN	WENAS/YKM 9.00 DME	OJAHO/YKM 9.00 DME	YKM 9.00 DME ARC CW				
		OJAHO/YKM 9.00 DME	ELN VORTAC	337.81 + 337.80 (YKM R-338 + ELN R-158)	18.27	5600		
RUBEL	WENAS6.RUBEL	WENAS/YKM 9.00 DME	OLUWO/YKM 9.00 DME	YKM 9.00 DME ARC CW				
		OLUWO/YKM 9.00 DME	RUBEL INT/MWH 17.01 DME	028.95 + 032.77 (YKM R-029 + MWH R-213)	34.26	6000		
PAPPS	WENAS6.PAPPS	WENAS/YKM 9.00 DME	OHKAR/YKM 9.00 DME	YKM 9.00 DME ARC CW				
		OHKAR/YKM 9.00 DME	PAPPS INT/YKM 25.45 DME	087.00 (YKM R-087)	16.45	6000		

QUALITY CHECKED 5

GRAPHIC DEPARTURE PROCEDURE (DP)

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WENAS	SIX	WENAS6.WENAS	FIVE	29 MAY 81	

SUNED	WENAS6.SUNED	WENAS/YKM 9 DME	OHAWY/YKM 9.00 DME	YKM 9.00 DME ARC CW		
		OHAWY/YKM 9.00 DME	SUNED INT/YKM 26.03 DME	108.24 (YKM R-108)	17.03	6000

PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

CHART NOTE: DME REQUIRED.

TAKEOFF MINIMUMS:
RWY 4, NA – OBSTACLES.
RWY 9 – STANDARD WITH MINIMUM CLIMB OF 405 FT PER NM TO 6000.
RWY 22 – STANDARD WITH MINIMUM CLIMB OF 350 FT PER NM TO 6000.
RWY 27 – STANDARD WITH MINIMUM CLIMB OF 350 FT PER NM TO 6000.
NOTE: TITON TRANSITION: CLIMB IN HOLD, E, LT, 283.82 INBOUND TO 7000 BEFORE PROCEEDING ON COURSE.

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 9, OL ON BLDG 27 FT FROM DER, 507 FT RIGHT OF CENTERLINE, 34 FT AGL/1074 FT MSL. POLE 388 FT FROM DER, 561 FT RIGHT OF CENTERLINE, 34 FT AGL/1073 FT MSL. TREES BEGINNING 586 FT FROM DER, 550 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/1139 FT MSL.
NOTE: RWY 22, FENCE BEGINNING 27 FT FROM DER, 435 FT RIGHT OF CENTERLINE, UP TO 10 FT AGL/1085 FT MSL. TREES BEGINNING 570 FT FROM DER, 228 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/1199 FT MSL. TREES BEGINNING 3195 FT FROM DER, 202 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/1199 FT MSL. TREES BEGINNING 1.0 NM FROM DER, 732 FT LEFT OF CENTERLINE, UP TO 100 FT AGL/1239 FT MSL.
NOTE: RWY 27, ANT ON BLDG 398 FT FROM DER, 282 FT LEFT OF CENTERLINE, 15 FT AGL/1117 FT MSL. TREES BEGINNING 3893 FT FROM DER, 1341 FT RIGHT OF CENTERLINE, UP TO 100 FT AGL/1239 FT MSL.

CONTROLLING OBSTACLES:

RWY 9: 3302 FT MSL TOWER 463825.00N/1202349.00W.
RWY 22: 3199 FT MSL AAO 463737.01N/1204418.92W.
RWY 27: 3139 FT MSL AAO 463733.60N/1204355.38W.
OBSTACLE MANDATING ODP ROUTE DEVELOPMENT: RWY 9, 22, 27 – 12476 FT MSL AAO 461218.90N/1212915.40W.

LOST COMMUNICATIONS PROCEDURES:

ADDITIONAL FLIGHT DATA:

CHART R-6714 A, B, C, D.
CHART HOLDING AT TITON INT/YKM 15 DME, E, LT, 283.82 INBOUND.
CHART: V298, SELAH-PERTT; V25, OJAHO-ELN; V448, OLUWO-RUBEL; V204, OHKAR-PAPPS; V4, ORJOR-TITON; V4-298, OHAWY-SUNED.
CHART COP YKM 15 DME, MWH 45 DME ON V448.

QUALITY 5 CHECKED

U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION

GRAPHIC DEPARTURE PROCEDURE (DP)

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DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
WENAS	SIX	WENAS6.WENAS	FIVE	29 MAY 81	

AIRPORTS SERVED:

YAKIMA AIR TERMINAL/MCALLISTER FIELD, YAKIMA, WA.

COMMUNICATIONS:

ATIS, CLNC DEL, YAKIMA GROUND CONTROL, YKM ATCT, CHINOOK DEP CON.

FIXES AND/OR NAVAIDS:

REMARKS:

FLIGHT CHECK 4D ACCURACY REQUESTED FOR 3302 FT MSL TOWER 463825.00N/1202349.00W.

QUALITY CHECKED

U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION

GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
WENAS	SIX	WENAS6.WENAS	FIVE	29 MAY 81	

FLIGHT INSPECTED BY:

REQUIRED EFFECTIVE DATE:

DEVELOPED BY:

ADOLFO URRUTIA (JOHN LINDSEY)	AJV-354	12/20/2011	ROUTINE

APPROVED BY:

DEZ SILAGYI AJV-354

COORDINATED WITH:

ALPA, AOPA, NBAA, ZSE, ARPT MGR, YKM ATCT, CHINOOK APP CON.

CHANGES:

1. ADDED CHART NOTE DME REQUIRED.
2. MADE RWY 4 NA FOR OBSTACLES.
3. INCREASED CLIMB GRADIENT TERMINATION ALTITUDE FROM 5500 TO 6000.
4. CHANGED ALL CNF FIXES TO DME FIXES.
5. INCREASED RWY 9 MINIMUM CG FROM 350 TO 405 FT PER NM.

REASONS:

1. IAW 8260.46D APPENDIX D PARA 6 A.
2. FPT REQUEST.
3. DUE TO CLIMB IN HOLD PENETRATION.
4. IAW 8260.19D PARA 264.
5. NEW CONTROLLING OBSTACLE.

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
WENAS	SIX	WENAS6.WENAS	FIVE	29 MAY 81	

ARINC PACKET - 424-18 - SID

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                1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        ELN   K1011790VTHA N47012775W120273029    N47012775W120273029E0210017702     NARELLENSBURG
        SUSAD        YKM   K1011600VTHW N46341287W120264069    N46341287W120264069E0210009842     NARYAKIMA

                1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   OHAWY K10    R     N46283096W120163554                      E0159     NAR           OHAWY
        SUSAEAENRT   OHKAR K10    R     N46312537W120141694                      E0159     NAR           OHKAR
        SUSAEAENRT   OJAHO K10    R     N46431254W120265697                      E0160     NAR           OJAHO
        SUSAEAENRT   OLUWO K10    R     N46395980W120164052                      E0159     NAR           OLUWO
        SUSAEAENRT   ORJOR K10    R     N46392059W120372426                      E0160     NAR           ORJOR
        SUSAEAENRT   PAPPS K10    R   L N46261581W119514078                      E0157     NAR           PAPPS
        SUSAEAENRT   PERTT K10    R   L N46544195W120431566                      E0161     NAR           PERTT
        SUSAEAENRT   RUBEL K10    C   L N47015248W119381596                      E0158     NAR           RUBEL
        SUSAEAENRT   SELAH K10    C   L N46420301W120325948                      E0160     NAR           SELAH
        SUSAEAENRT   SUNED K10    C   B N46174155W119573615                      E0157     NAR           SUNED
        SUSAEAENRT   TITON K10    R   L N46424342W120443072                      E0160     NAR           TITON
        SUSAEAENRT   WENAS K10    R     N46350856W120393933                      E0160     NAR           WENAS

                1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KYKMK1AYKM     0     076YHN46340540W120323860E016001099         1800018000C    MNAR    YAKIMA AIR TERMINAL/MCALLISTER

                1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KYKMK1DWENAS61RW09  010         0        CA                     0940        + 01499     18000
        SUSAP KYKMK1DWENAS61RW09  020WENASK1EA0EE  L   CFYYKM K1      2550009025500060D
        SUSAP KYKMK1DWENAS61RW22  010         0        CA                     2239        + 01499     18000
        SUSAP KYKMK1DWENAS61RW22  020WENASK1EA0EE      CF YKM K1      2550009025500050D
        SUSAP KYKMK1DWENAS61RW27  010         0        CA                     2740        + 01499     18000
        SUSAP KYKMK1DWENAS61RW27  020WENASK1EA0EE      CF YKM K1      2550009025500050D
        SUSAP KYKMK1DWENAS63ELN   010WENASK1EA0E       IF YKM K1      25500090        D               18000
        SUSAP KYKMK1DWENAS63ELN   020OJAHOK1EA0E   R   AF YKM K1      337800902550    D
        SUSAP KYKMK1DWENAS63ELN   030ELN  K1D 0VE      TF                     33780183
        SUSAP KYKMK1DWENAS63PAPPS 010WENASK1EA0E       IF YKM K1      25500090        D               18000
        SUSAP KYKMK1DWENAS63PAPPS 020OHKARK1EA0E   R   AF YKM K1      087000902550    D
        SUSAP KYKMK1DWENAS63PAPPS 030PAPPSK1EA0EE      TF                     08700165
        SUSAP KYKMK1DWENAS63PERTT 010WENASK1EA0E       IF YKM K1      25500090        D               18000
        SUSAP KYKMK1DWENAS63PERTT 020SELAHK1EA0E   R   AF YKM K1      310000902550    D
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QUALITY CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
WENAS	SIX	WENAS6.WENAS	FIVE	29 MAY 81	

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SUSAP KYKMK1DWENAS63PERTT 030PERTTK1EA0EE      TF                    31000145
SUSAP KYKMK1DWENAS63RUBEL 010WENASK1EA0E       IF YKM K1      25500090        D               18000
SUSAP KYKMK1DWENAS63RUBEL 020OLUWOK1EA0E   R   AF YKM K1      028900902550    D
SUSAP KYKMK1DWENAS63RUBEL 030RUBELK1EA0EE      TF                    02900343
SUSAP KYKMK1DWENAS63SUNED 010WENASK1EA0E       IF YKM K1      25500090        D               18000
SUSAP KYKMK1DWENAS63SUNED 020OHAWYK1EA0E   R   AF YKM K1      108200902550    D
SUSAP KYKMK1DWENAS63SUNED 030SUNEDK1EA0EE      TF                    10820170
SUSAP KYKMK1DWENAS63TITON 010WENASK1EA0E       IF YKM K1      25500090        D               18000
SUSAP KYKMK1DWENAS63TITON 020ORJORK1EA0E   R   AF YKM K1      283800902550    D
SUSAP KYKMK1DWENAS63TITON 030TITONK1EA0EY      TF                    28380060
SUSAP KYKMK1DWENAS63TITON 040TITONK1EA0EE  L   HA                    2838T010    + 07000
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                1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KYKMK1GRW09    0076040940 N46342119W120333435-0700    +0313701099000057150R
        SUSAP KYKMK1GRW22    0038352239 N46340903W120320581+0500    +0300501056000045150V
        SUSAP KYKMK1GRW27    0076042740 N46335553W120315208+0700    +0298501049000057150IIYKM1
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QUALITY CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
WENAS	SIX	WENAS6.WENAS	FIVE	29 MAY 81	

ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	RW09		010		CA		FB		094.0()		AA 01499	
	RW09	WENAS	020		CF	L	FB		255.0()	006.0		
	RW22		010		CA		FB		223.9()		AA 01499	
	RW22	WENAS	020		CF		FB		255.0()	005.0		
	RW27		010		CA		FB		274.0()		AA 01499	
	RW27	WENAS	020		CF		FB		255.0()	005.0		
	ELN	WENAS	010		IF		FB					
	ELN	OJAHO	020		AF	R	FB		255.0()			
	ELN	ELN	030		TF		FB		337.8()	018.3		
	PAPPS	WENAS	010		IF		FB					
	PAPPS	OHKAR	020		AF	R	FB		255.0()			
	PAPPS	PAPPS	030		TF		FB		087.0()	016.5		
	PERTT	WENAS	010		IF		FB					
	PERTT	SELAH	020		AF	R	FB		255.0()			
	PERTT	PERTT	030		TF		FB		310.0()	014.5		
	RUBEL	WENAS	010		IF		FB					
	RUBEL	OLUWO	020		AF	R	FB		255.0()			
	RUBEL	RUBEL	030		TF		FB		029.0()	034.3		
	SUNED	WENAS	010		IF		FB					
	SUNED	OHAWY	020		AF	R	FB		255.0()			
	SUNED	SUNED	030		TF		FB		108.2()	017.0		
	TITON	WENAS	010		IF		FB					
	TITON	ORJOR	020		AF	R	FB		255.0()			
	TITON	TITON	030		TF		FO		283.8()	006.0		
	TITON	TITON	040		HA	L	FO		283.8()	T01.0	AA 07000	

POINT DATA

WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
ELN	N470127.75	W1202730.29	N4701.463	W12027.505
YKM	N463412.87	W1202640.69	N4634.215	W12026.678
OHAWY	N462830.96	W1201635.54	N4628.516	W12016.592
OHKAR	N463125.37	W1201416.94	N4631.423	W12014.282
OJAHO	N464312.54	W1202656.97	N4643.209	W12026.950
OLUWO	N463959.80	W1201640.52	N4639.997	W12016.675
ORJOR	N463920.59	W1203724.26	N4639.343	W12037.404
PAPPS	N462615.81	W1195140.78	N4626.264	W11951.680
PERTT	N465441.95	W1204315.66	N4654.699	W12043.261
RUBEL	N470152.48	W1193815.96	N4701.875	W11938.266
SELAH	N464203.01	W1203259.48	N4642.050	W12032.991
SUNED	N461741.55	W1195736.15	N4617.693	W11957.603
TITON	N464243.42	W1204430.72	N4642.724	W12044.512
WENAS	N463508.56	W1203939.33	N4635.143	W12039.656

QUALITY CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
WENAS	SIX	WENAS6.WENAS	FIVE	29 MAY 81	

RW09	N463421.19	W1203334.35	N4634.353	W12033.573
RW22	N463409.03	W1203205.81	N4634.151	W12032.097
RW27	N463355.53	W1203152.08	N4633.926	W12031.868

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW09	01099	57
RW22	01056	45
RW27	01049	57

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ELLENSBURG VORTAC **STATE:** WA **COUNTRY:** US

LATITUDE/LONGITUDE: 470127.75N/1202730.29W **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	DIST FROM FAC FEET	MRA	MAA
1	ELLENSBURG	ELN	VORTAC	H							45000

FIX RESTRICTIONS:
MCA V25 6800 NORTHBOUND
MCA V187 6700 WESTBOUND

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	E	ELN	VORTAC	110.00	290.00	L	1-1 1/2		4600	17500	5	16
2	E	ELN	VORTAC	084.00	264.00	L	1		5700	10000	5	9
3	W	ELN	VORTAC	267.41	087.41	R	1-1 1/2		7300	17500	8	16

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	465415.00N/1201703.00W	3527	4E
2	200	AAO	470136.00N/1201512.00W	3924	4E
2	310	AAO	470118.00N/1201333.00W	4416	4E
3	230	AAO	470318.00N/1205033.00W	4475	4E
3	310	AAO	465927.00N/1205645.00W	5827	4E

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
3	310	298
3	230	216

REASON FOR NONSTANDARD HOLDING:
PAT 1 TERRAIN
PAT 2 TERRAIN

HOLDING RESTRICTIONS:
HOLDING LIMTITED TO ESTABLISHED PATTERNS.
PATTERNS 1 AND 2 OVERLIE R-6714; PRIOR COORDINATION REQUIRED FOR HOLDING.
PAT 2 EVALUATED FOR CLIMB IN HOLD TO 5700; MIN ENROUTE HOLDING 5700.
PAT 3 EVALUATED FOR CLIMB IN HOLD TO 7300; MIN ENROUTE HOLDING 7300.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
2	VOR/DME-A	KELN	ELLENSBURG	WA (US)
3	TAKE OFF MINIMUMS	KELN	ELLENSBURG	WA (US)

REMARKS:
CHART PATTERN 3 ON LOW ENROUTE CHART

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	TAKE OFF MINIMUMS		3	KELN	ELLENSBURG	WA (US)
DP	PAINE			KPAE	EVERETT	WA (US)
DP	MOSES			KMWH	MOSES LAKE	WA (US)
DP	TRI-CITIES			KPSC	PASCO	WA (US)
DP	KENT			KBFI	SEATTLE	WA (US)
DP	NEEDLE			KBFI	SEATTLE	WA (US)
DP	MOUNTAIN			KSEA	SEATTLE	WA (US)
DP	SEATTLE			KSEA	SEATTLE	WA (US)
DP	GROMO			KYKM	YAKIMA	WA (US)
DP	NACHES			KYKM	YAKIMA	WA (US)
DP	WENAS			KYKM	YAKIMA	WA (US)
DP	YAKIMA			KYKM	YAKIMA	WA (US)
IAP	RNAV (GPS) RWY 25			KELN	ELLENSBURG	WA (US)
IAP	VOR-B		2	KELN	ELLENSBURG	WA (US)
IAP	VOR/DME-A		1	KELN	ELLENSBURG	WA (US)
IAP	RNAV (GPS) RWY 03			KEPH	EPHRATA	WA (US)
IAP	VOR/DME-C			KEAT	WENATCHEE	WA (US)
STAR	GLASR			KSEA	SEATTLE	WA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 12 **DATE OF REVISION:** 01/13/2011

REASON FOR REVISION:
1. UPDATED FIX USE.
2. CHANGED CONTROLLING OBSTACLE PAT 3, NO CHANGE TO MINIMUM HOLDING ALTITUDE.
3. INCREASED PRECIPITOUS TERRAIN EVAL PAT 3 FROM 216 TO 298 NO CHANGE IN MINIMUM HOLDING ALTITUDE.

DEVELOPED BY:	**DATE:** 08/20/2010	**OFFICE:** AVN-130	**NAME:** ANDREW FIELDS
APPROVED BY:	**DATE:** 11/18/2010	**OFFICE:** AVN-130	**NAME:** DEZ SILAGYI
	SIGNATURE:		

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

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: OHAWY **STATE:** WA **COUNTRY:** US

LATITUDE/LONGITUDE: 462830.96N/1201635.54W **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	DIST FROM FAC FEET	MRA	MAA
1	YAKIMA	YKM	VORTAC	H	108.24	129.24	9.00	9.00		5000	17500

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	GROMO	1		KYKM	YAKIMA	WA (US)
DP	WENAS	1		KYKM	YAKIMA	WA (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
1. REMOVED COMPUTER NAVIGATION FIX AND COORDS PROVIDED ON PLATE REMARKS.
2. CHANGED FIX TYPE FROM CNF TO DME.
3. ADDED YKM AS FAC 1.
4. MOVED FIX 11.85 FT SOUTHWEST AND UPDATED COORDINATES.
5. UPDATED FIX USE.

DEVELOPED BY: **DATE:** 12/20/2011 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (JOHN LINDSEY)

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

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

QUALITY 5 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: OHKAR **STATE:** WA **COUNTRY:** US

LATITUDE/LONGITUDE: 463125.37N/1201416.94W **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	DIST FROM FAC FEET	MRA	MAA
1	YAKIMA	YKM	VORTAC	H	087.00	108.00	9.00	9.00		5300	17500

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	GROMO	1		KYKM	YAKIMA	WA (US)
DP	WENAS	1		KYKM	YAKIMA	WA (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
1. REMOVED COMPUTER NAVIGATION FIX AND COORDS PROVIDED ON PLATE REMARKS.
2. ADDED YKM AS FAC 1.
3. CHANGED FIX TYPE FROM CNF TO DME.
4. MOVED FIX 44.65 FT SOUTH AND UPDATED COORDINATES.
5. UPDATED FIX USE.

DEVELOPED BY: **DATE:** 12/20/2011 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (JOHN LINDSEY)

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZSE
ATC FACILITY: YKM ATCT
OTHER: CHINOOK APP CON

QUALITY 5 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: OJAHO **STATE:** WA **COUNTRY:** US

LATITUDE/LONGITUDE: 464312.54N/1202656.97W **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	DIST FROM FAC FEET	MRA	MAA
1	YAKIMA	YKM	VORTAC	H	337.81	358.81	9.00	9.00		5600	17500

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	WENAS	1		KYKM	YAKIMA	WA (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
1. REMOVED COMPUTER NAVIGATION FIX AND COORDS PROVIDED ON PLATE REMARKS.
2. CHANGED FIX TYPE FROM CNF TO DME.
3. ADDED YKM AS FAC 1.
4. UPDATED FIX USE.
5. MOVED FIX 6.4 FT SOUTH AND UPDATED COORDINATES.

DEVELOPED BY: **DATE:** 12/20/2011 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (JOHN LINDSEY)

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZSE
ATC FACILITY: YKM ATCT
OTHER: CHINOOK APP CON

QUALITY 5 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: OLUWO **STATE:** WA **COUNTRY:** US

LATITUDE/LONGITUDE: 463959.80N/1201640.52W **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	DIST FROM FAC FEET	MRA	MAA
1	YAKIMA	YKM	VORTAC	H	028.95	049.95	9.00	9.00		6000	17500

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	WENAS	1		KYKM	YAKIMA	WA (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
1. REMOVED COMPUTER NAVIGATION FIX AND COORDS PROVIDED ON PLATE REMARKS.
2. ADDED YKM AS FAC 1.
3. CHANGED FIX TYPE FROM CNF TO DME.
4. MOVED FIX 30.42 FT SOUTH AND UPDATED COORDINATES.
5. UPDATED FIX USE.

DEVELOPED BY: **DATE:** 12/20/2011 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (JOHN LINDSEY)

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

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

QUALITY 5

RADIO FIX AND HOLDING DATA RECORD

NAME: ORJOR **STATE:** WA **COUNTRY:** US

LATITUDE/LONGITUDE: 463920.59N/1203724.26W **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	DIST FROM FAC FEET	MRA	MAA
1	YAKIMA	YKM	VORTAC	H	283.82	304.82	9.00	9.00		3800	17500

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	WENAS	1		KYKM	YAKIMA	WA (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
1. REMOVED COORDS PROVIDED ON PLATE REMARK.
2. REMOVED COMPUTER NAVIGATION FIX REMARK.
3. CHANGED FIX TYPE FROM CNF TO DME.
4. ADDED YKM VORTAC AS FAC 1.
5. UPDATED FIX USE.
6. MOVED FIX 45.29 FT SOUTH AND UPDATED COORDINATES.

DEVELOPED BY: **DATE:** 12/19/2011 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (JOHN LINDSEY)

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZSE
ATC FACILITY: YKM ATCT
OTHER: CHINOOK APP CON

QUALITY 5 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: PAPPS **STATE:** WA **COUNTRY:** US

LATITUDE/LONGITUDE: 462615.81N/1195140.78W **TYPE:** 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	DIST FROM FAC FEET	MRA	MAA
1	YAKIMA	YKM	VORTAC	H	087.00	108.00	25.45	25.45		6000	17500
2	MOSES LAKE	MWH	VOR/DME	H	188.00	206.00	51.55	51.55		6000	17500
3	PASCO	PSC	VOR/DME	L	268.97	288.97	32.72	32.72		6000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
MWH	VOR/DME	R-188	52	6000	14500

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	E	YKM	VORTAC	087.00	267.00	L	1		6000	10000	7	11

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	462654.00N/1192024.00W	3842	4E

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	200	198

REASON FOR NONSTANDARD HOLDING:
PAT 1 TO AVOID RESTRICTED AIRSPACE R-6714C

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN

REMARKS:
YAKIMA (FAC 1) AND MOSES LAKE (FAC 2) USED TO ESTABLISH FIX COORDINATES
PATTERN 1 FOR ATC USE WITH KRLD DEPARTURE PROCEDURE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	TAKEOFF	1, 2, 3		KRLD	RICHLAND	WA (US)
DP	GROMO	1		KYKM	YAKIMA	WA (US)
DP	WENAS	1		KYKM	YAKIMA	WA (US)
EN ROUTE	V204	1, 2				(US)
EN ROUTE	V497	1, 2				(US)
IAP	RNAV (RNP) Y RWY 27			KYKM	YAKIMA	WA (US)
IAP	RNAV (RNP) Z RWY 27			KYKM	YAKIMA	WA (US)
IAP	VOR/DME OR TACAN RWY 27	1, 2		KYKM	YAKIMA	WA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 10 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
1. ADDED YAKIMA (FAC 1) AND MOSES LAKE (FAC 2) USED TO ESTABLISH FIX COORDINATES REMARK.
2. CHANGED FAC 2 MRA FROM 5500 TO 6000.
3. CHANGED FAC 2 ESV MINIMUM ALTITUDE FROM 5500 TO 6000.

04/05/2012. THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 02/14/2012.
1. ADDS FAC 2 DME DISTANCE, PER FLIGHT CHECK.

DEVELOPED BY: **DATE:** 02/14/2012 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (JOHN LINDSEY)

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: WST
ARTCC: ZSE

QUALITY CHECKED

ATC FACILITY: CHINOOK APP CON
OTHER: SEATTLE APP CON

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: PERTT **STATE:** WA **COUNTRY:** US

LATITUDE/LONGITUDE: 465441.95N/1204315.66W **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	DIST FROM FAC FEET	MRA	MAA
1	YAKIMA	YKM	VORTAC	H	310.00	331.00	23.45	23.45		6500	17500
2	ELLENSBURG	ELN	VORTAC	H	217.01	238.01		12.74		6500	17500

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

REMARKS:
YAKIMA (FAC 1) AND ELLENSBURG (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	WENAS	1, 2		KYKM	YAKIMA	WA (US)
EN ROUTE	V298	1, 2				(US)

REQUIRED CHARTING: DP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
1. ADDED YAKIMA (FAC 1) AND ELLENSBURG (FAC 2) USED TO ESTABLISH FIX COORDINATES REMARK.
2. ADDED DISTANCE FROM FAC TO FAC 1 AND FAC 2.
3. CHANGED FAC 2 BRG FROM 217.00 MAG TO 217.01 MAG.
4. UPDATED FIX USE.

DEVELOPED BY: **DATE:** 12/20/2011 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (JOHN LINDSEY)

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZSE
ATC FACILITY: YKM ATCT
OTHER: CHINOOK APP CON

QUALITY 5 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: RUBEL **STATE:** WA **COUNTRY:** US

LATITUDE/LONGITUDE: 470152.48N/1193815.96W **TYPE:** WP, 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	DIST FROM FAC FEET	MRA	MAA
1	MOSES LAKE	MWH	VOR/DME	H	212.77	230.77	17.01	17.01		3400	17500
2	ELLENSBURG	ELN	VORTAC	H	068.00	089.00	33.69	33.69		3900	17500
3	EPHRATA	EPH	VORTAC	H	181.87	202.87	22.57	22.57		3800	17500

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

REMARKS:
MOSES LAKE (FAC 1) AND ELLENSBURG (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	WENAS	1, 2, 3		KYKM	YAKIMA	WA (US)
EN ROUTE	V448	1, 2, 3				(US)
IAP	ILS OR LOC RWY 32R	1, 2, 3		KMWH	MOSES LAKE	WA (US)
IAP	NDB RWY 32R	1, 2, 3		KMWH	MOSES LAKE	WA (US)
IAP	RNAV (GPS) Y RWY 4			KMWH	MOSES LAKE	WA (US)
IAP	RNAV (RNP) Z RWY 4			KMWH	MOSES LAKE	WA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 11 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
ADDED MOSES LAKE (FAC 1) AND ELLENSBURG (FAC 2) USED TO ESTABLISH FIX COORDINATES REMARK.

DEVELOPED BY: **DATE:** 02/14/2012 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (JOHN LINDSEY)

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZSE
ATC FACILITY: MWH
OTHER:

QUALITY 5 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: SELAH **STATE:** WA **COUNTRY:** US

LATITUDE/LONGITUDE: 464203.01N/1203259.48W **TYPE:** WP, 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	DIST FROM FAC FEET	MRA	MAA
1	YAKIMA	YKM	VORTAC	H	310.01	331.01	8.97	8.97		5500	17500
2	ELLENSBURG	ELN	VORTAC	H	170.00	191.00	19.78	19.78		5500	17500

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

REMARKS:
YAKIMA (FAC 1) AND ELLENSBURG (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	WENAS	1, 2		KYKM	YAKIMA	WA (US)
EN ROUTE	V298	1, 2				(US)
EN ROUTE	V468	1, 2				(US)
IAP	ILS Y RWY 27	1, 2		KYKM	YAKIMA	WA (US)
IAP	ILS Z RWY 27	1, 2		KYKM	YAKIMA	WA (US)
IAP	RNAV (GPS) W RWY 27			KYKM	YAKIMA	WA (US)
IAP	RNAV (GPS) X RWY 27			KYKM	YAKIMA	WA (US)
IAP	RNAV (RNP) Y RWY 27			KYKM	YAKIMA	WA (US)
IAP	RNAV (RNP) Z RWY 27			KYKM	YAKIMA	WA (US)
IAP	VOR -A	1, 2		KYKM	YAKIMA	WA (US)
IAP	VOR/DME OR TACAN RWY 27	1, 2		KYKM	YAKIMA	WA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
ADDED YAKIMA (FAC 1) AND ELLENSBURG (FAC 2) USED TO ESTABLISH FIX COORDINATES REMARK.

DEVELOPED BY: **DATE:** 02/14/2012 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (JOHN LINDSEY)

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZSE
ATC FACILITY: CHINOOK/YKM
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: SUNED **STATE:** WA **COUNTRY:** US

LATITUDE/LONGITUDE: 461741.55N/1195736.15W **TYPE:** WP, 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	DIST FROM FAC FEET	MRA	MAA
1	YAKIMA	YKM	VORTAC	H	108.24	129.24	26.03	26.03		5000	45000
2	MOSES LAKE	MWH	VOR/DME	H	188.00	206.00	61.05	61.05		5500	45000
3	PENDLETON	PDT	VORTAC	H	290.33	310.33	55.74	55.74		5000	45000
4	KIMBERLY	IMB	VORTAC	H	334.03	354.03	99.36	99.36		20000	45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
MWH	VOR/DME	R-188	62	5500	14500
PDT	VORTAC	R-290	56	5000	18000
IMB	VORTAC	R-334	100	20000	23300

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	W	YKM	VORTAC	108.24	108.24	R	1-1 1/2		5000	37000	6	27
2	E	YKM	VORTAC	108.24	288.24	R	1-1 1/2		6000	37000	7	28

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	462857.00N/1200554.00W	3209	4E
2	200	AAO	461018.00N/1194724.00W	2136	4E
2	230	AAO	460922.40N/1195141.40W	2393	6A

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
MOSES LAKE (FAC 2) AND PENDLETON (FAC 3) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETED: PAT 1, AND 2 NO ADJUSTMENTS REQUIRED.
PATTERN 1 DME REQUIRED.
HOLDING PAT 1: CONTROLLING OBSTACLE LOCATED 7437 FEET INTO SECONDARY.
HOLDING PAT 2: FAC 2 & 3 REQUIRED FOR INTERSECTION HOLDING.
PRIOR COORDINATION REQUIRED WITH CONTROLLING AGENCY OVER R-6714A, R-6714B AND R-6714C ABOVE 10,000 PATTERN 1 AND ABOVE 6,000 PATTERN 2.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	GROMO	1, 2		KYKM	YAKIMA	WA (US)
DP	WENAS	1, 2		KYKM	YAKIMA	WA (US)
EN ROUTE	Q152					(US)
EN ROUTE	V298		2			(US)
EN ROUTE	V4		2			(US)
EN ROUTE	V497					(US)
IAP	ILS Y RWY 27			KYKM	YAKIMA	WA (US)
IAP	ILS Z RWY 27			KYKM	YAKIMA	WA (US)
IAP	RNAV (GPS) W RWY 27			KYKM	YAKIMA	WA (US)
IAP	RNAV (GPS) X RWY 27			KYKM	YAKIMA	WA (US)
IAP	RNAV (RNP) Y RWY 27			KYKM	YAKIMA	WA (US)
IAP	RNAV (RNP) Z RWY 27			KYKM	YAKIMA	WA (US)
IAP	VOR/DME OR TACAN RWY 27	1	1	KYKM	YAKIMA	WA (US)
STAR	CHINS	1, 3, 4	2	KBFI	SEATTLE	WA (US)
STAR	CHINS	1, 3, 4	2	KSEA	SEATTLE	WA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 16 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:

QUALITY CHECKED 5

RAISED MAA IN FIX MAKE-UP FROM 37000 TO 45000.
ADDED IN REMARKS FAC 2 & FAC 3 USED TO ESTABLISH COORDINATES.
ADDED ENROUTE HIGH TO REQUIRED CHARTING.
REMOVED 200 KTS AND 310 KTS HOLDING.
REMOVED PROCEDURE REFERENCE TO CLIMB-IN-HOLD.
UPDATED FIX USE.
UPDATED ESV.

02/15/2012: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 08/25/2011.
1. REMOVED PAT 1 200 KTS.
2. REMOVED PAT 1 310 KTS CLIMB-IN-HOLD PATTERN.
2. REMOVED PROCEDURE REFERENCE TO CLIMB-IN-HOLD.

DEVELOPED BY:	**DATE:** 08/25/2011	**OFFICE:** AJV-311	**NAME:** MARY LYNNE HOEGSTROM
APPROVED BY:	**DATE:**	**OFFICE:** AJV-311	**NAME:** RAY NUSSEAR
	SIGNATURE:		

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZSE
ATC FACILITY: CHINOOK/YKM
OTHER:

QUALITY CHECKED 5

RADIO FIX AND HOLDING DATA RECORD

NAME: TITON **STATE:** WA **COUNTRY:** US

LATITUDE/LONGITUDE: 464243.42N/1204430.72W **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	DIST FROM FAC FEET	MRA	MAA
1	YAKIMA	YKM	VORTAC	H	283.82	304.82	14.95	14.95		5500	17500
2	ELLENSBURG	ELN	VORTAC	H	191.00	212.00		22.08		5500	17500

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	E	YKM	VORTAC	103.82	283.82	L	1	7	6800	7000	9	9

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	464742.00N/1204806.00W	5148	6C
1	310	AAO	463842.00N/1205927.00W	5456	4E

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	310	307
1	230	218

REASON FOR NONSTANDARD HOLDING:
PAT 1 HIGH TERRAIN NORTH

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	WENAS	KYKM	YAKIMA	WA (US)

REMARKS:
YAKIMA (FAC 1) AND ELLENSBURG (FAC 2) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETED

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	WENAS	1, 2	1	KYKM	YAKIMA	WA (US)
EN ROUTE	V4	1, 2				(US)

REQUIRED CHARTING: DP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: LOW

RECORD REVISION NUMBER: 6 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
1. ADDED YAKIMA (FAC 1) AND ELLENSBURG (FAC 2) USED TO ESTABLISH FIX COORDINATES REMARK.
2. ADDED PRECIPITOUS TERRAIN EVALUATION COMPLETED REMARK.
3. MOVED HOLDING LIMITED TO ESTABLISHED PATTERN REMARK TO RESTRICTIONS.
4. MOVED FIX 9.2 FEET SOUTH TO V4 CENTERLINE AND UPDATED COORDINATES.
5. ADDED DISTANCE FROM FAC TO FAC 1 AND FAC 2.
6. CHANGED HOLD PAT 1 HEADING FROM 284 TO 283.82.
7. CHANGED HOLD PAT 1 MIN AND MAX TEMPLATE TO 9.
8. CHANGED HOLD PAT 1 MIN ALTITUDE FROM 6000 TO 6800.
9. UPDATED HOLD PAT 1 CONTROLLING OBSTACLE DATA.
10. REMOVED 175 KIAS FROM HOLD PAT 1 AND ADDED 310 C-I-H DATA.
11. UPDATED FIX USE.
12. ADDED PRECIPITOUS TERRAIN ADJUSTMENTS TO HOLDING PAT 1.

DEVELOPED BY: **DATE:** 12/19/2011 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (JOHN LINDSEY)

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

QUALITY 5 CHECKED

DISTRIBUTION:

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

QUALITY
5

RADIO FIX AND HOLDING DATA RECORD

NAME: WENAS **STATE:** WA **COUNTRY:** US

LATITUDE/LONGITUDE: 463508.56N/1203939.33W **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	DIST FROM FAC FEET	MRA	MAA
1	YAKIMA	YKM	VORTAC	H	255.00	276.00	9.00	9.00		2500	17500

HOLDING: **HOLDING TYPE OF ACTION:** CANCEL

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	WENAS	1		KYKM	YAKIMA	WA (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
1. DELETED HOLDING LIMITED TO ESTABLISHED PATTERNS REMARK.
2. DELETED HOLDING BELOW 4000 NOT AUTHORIZED DUE TO HIGH TERRAIN WEST REMARK.
3. CANCELLED HOLDING PAT 1.
4. MOVED FIX 10.76 FT WEST AND UPDATED COORDINATES.
5. ADDED DISTANCE FROM FAC TO FAC 1.
6. CHANGED FAC 1 MRA FROM 2000 TO 2500.
7. UPDATED FIX USE.

DEVELOPED BY: **DATE:** 12/15/2011 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (JOHN LINDSEY)

APPROVED BY: **DATE:** **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZSE
ATC FACILITY: YKM ATCT
OTHER: CHINOOK APP CON

QUALITY CHECKED

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: YAKIMA VORTAC **STATE:** WA **COUNTRY:** US

LATITUDE/LONGITUDE: 463412.87N/1202640.69W **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	DIST FROM FAC FEET	MRA	MAA
1	YAKIMA	YKM	VORTAC	H							45000

FIX RESTRICTIONS:
MCA V204 5300 WESTBOUND
MCA V448 9500 SOUTHWEST BOUND

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	E	YKM	VORTAC	108.00	288.00	L	1		4600	12000	5	9
2	W	YKM	VORTAC	288.00	108.00	R	1		4400	12000	5	9

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (53-020852)	463804.47N/1202423.70W	3054	5E
1	310	AAO	463713.20N/1201410.00W	4252	6A
2	200	AAO	463751.00N/1202427.00W	2743	4E

REASON FOR NONSTANDARD HOLDING:
PAT 1 AVOID R-6714

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	ZILLA	KYKM	YAKIMA	WA (US)
1	ILS Z RWY 27	KYKM	YAKIMA	WA (US)
1	ILS Y RWY 27	KYKM	YAKIMA	WA (US)
1	LOC/DME BC-B	KYKM	YAKIMA	WA (US)
1	VOR/DME OR TACAN RWY 27	KYKM	YAKIMA	WA (US)
1	VOR-A	KYKM	YAKIMA	WA (US)

REMARKS:
PAT 2 USED BY ATC
PAT 1 C-I-H OBSTACLE 4690 FEET INTO SECONDARY, PRIMARY EQUIVALENT 3559.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	LAVAA			KPDX	PORTLAND	OR (US)
DP	PORTLAND			KPDX	PORTLAND	OR (US)
DP	RIVER			KPDX	PORTLAND	OR (US)
DP	PAINE			KPAE	EVERETT	WA (US)
DP	MOSES			KMWH	MOSES LAKE	WA (US)
DP	YELM			KOLM	OLYMPIA	WA (US)
DP	TRI-CITIES			KPSC	PASCO	WA (US)
DP	KENT			KBFI	SEATTLE	WA (US)
DP	NEEDLE			KBFI	SEATTLE	WA (US)
DP	MOUNTAIN			KSEA	SEATTLE	WA (US)
DP	SEATTLE			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	GROMO			KYKM	YAKIMA	WA (US)
DP	NACHES			KYKM	YAKIMA	WA (US)
DP	WENAS			KYKM	YAKIMA	WA (US)
DP	YAKIMA			KYKM	YAKIMA	WA (US)
DP	ZILLA			KYKM	YAKIMA	WA (US)
EN ROUTE	J136					(US)
EN ROUTE	J20					(US)
EN ROUTE	V204					(US)
EN ROUTE	V25					(US)
EN ROUTE	V298					(US)
EN ROUTE	V4					(US)
EN ROUTE	V448					(US)
EN ROUTE	V468					(US)
IAP	ILS Y RWY 27		1	KYKM	YAKIMA	WA (US)

QUALITY CHECKED 5

IAP	ILS Z RWY 27	1	KYKM	YAKIMA	WA (US)
IAP	LOC/DME BC-B	1	KYKM	YAKIMA	WA (US)
IAP	RNAV (RNP) Y RWY 9		KYKM	YAKIMA	WA (US)
IAP	RNAV (RNP) Z RWY 9		KYKM	YAKIMA	WA (US)
IAP	VOR-A	1	KYKM	YAKIMA	WA (US)
IAP	VOR/DME OR TACAN RWY 27	1	KYKM	YAKIMA	WA (US)
STAR	CHINS		KBFI	SEATTLE	WA (US)
STAR	CHINS		KSEA	SEATTLE	WA (US)
STAR	ZOOMR		KGEG	SPOKANE	WA (US)
STAR	ZOOMR		KSFF	SPOKANE	WA (US)
STAR	ZOOMR		KSKA	SPOKANE	WA (US)
STAR	WHYTE		KTCM	TACOMA	WA (US)

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

COMPULSORY REPORTING POINT: LOW

RECORD REVISION NUMBER: 13 **DATE OF REVISION:** 04/05/2012

REASON FOR REVISION:
1. UPDATED HOLDING PAT 1 200 KIAS OBSTACLE.
2. DELETED PAT 1 CONTROLLING OBSTACLE, 4D AC VERIFIED VIA FLIGHT CHECK REMARK.

DEVELOPED BY: **DATE:** 10/28/2011 **OFFICE:** AJV-354 **NAME:** ADOLFO URRUTIA (JOHN LINDSEY)

APPROVED BY: **DATE:** 12/19/2011 **OFFICE:** AJV-354 **NAME:** DEZ SILAGYI

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: WST
ARTCC: ZSE
ATC FACILITY: YKM APP CON
OTHER:

US Department of Transportation
Federal Aviation Administration

FLIGHT PROCEDURES STANDARDS WAIVER

FLIGHT STANDARDS USE ONLY

CONTROL NO:

1. Flight Procedure Identification:

Yakima, WA
Yakima Air Terminal/McAllister Field (YKM)
WENAS SIX

2. Waiver Required and Applicable Standard:

Use the 8260.3 Vol 1 criteria to develop a 8260.3 Vol 4 departure procedure, as there is no standard criteria for departure procedure development using DME arcs.

3. Reason for Waiver *(Justification for nonstandard treatment)*:

The Departure procedure is utilizing the 8260.3, Vol 1, Chap 2, Par. 232 criteria to develop a 8260.3, Vol 4 Departure Procedure Route. The Departure procedure is requested by Air Traffic Control.

4. Equivalent Level of Safety Provided:

1. The 8260.3 Vol 1, Chap 2, Par. 232, 2-4-4-2 width dimentions are sufficient to provide adequate obstacle avoidance.

5. How Relocation or Additional Facilities Will Affect Waiver Requirement:

NONE

6. Coordination With User Organizations *(Specify)*:

7. SUBMITTED BY

DATE:	Office Identification:	Title:	Signature:
	AJV-35	Manager, Terminal Procedures Publications Group	John Bickerstaff

FAA FORM 8260 - 1 / July2003 (computer generated)

8. CONTINUATION
Comments:

9. AFS ACTION		
		Approved
		Disapproved
		Not Required

Comments:		
Date:	Routing Symbol:	Signature: