

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

TERMINAL ROUTES				MISSED APPROACH
FROM	TO	COURSE AND DISTANCE	ALTITUDE	
MWH VOR/DME	JUKRI (FO)	323.66 / 12.97	4000	LPV: DA LNAV/VNAV: DA LNAV: RW14L
WIPES	JUKRI (FO)	252.92 / 12.58	4200	
QUINT	JUKRI (FO)	040.70 / 23.45	5200	CLIMB TO 4000 DIRECT HEDBI AND ON TRACK 123.85 TO UPBOB AND HOLD.
JUKRI (IF/IAF)	ILARE (FB)	144.05 / 6.41	3000	
ILARE (FAF)	VIMFY/1.80 NM TO RW14L (FB)	144.09 / 3.79		
VIMFY/1.80 NM TO RW14L (SEE FORM 8260-10)	RW14L (MAP) (FO)	144.11 / 1.80		ADDITIONAL FLIGHT DATA: HOLD NW, RT, 129.51 INBOUND. CHART FAS OBST: 1314 POWERLINE 471439N/1192040W DISTANCE TO THLD FROM 200 HATH: 0.46 NM. CHART VDP AT 1.13 MILES TO RW14L* *LNAV ONLY. WAAS CHANNEL # 90509 REFERENCE PATH ID: W14A LTP HAE: 335.6 M

1. PT        SIDE OF COURSE        OUTBOUND        FT WITHIN        MILES OF        (IAF)
2. HOLD NW JUKRI, LT, 144.05 INBOUND, 4000 FT. IN LIEU OF PT (IAF)
3. FAC: 144.09 FAF: ILARE DIST FAF TO MAP: 5.59 THLD: 5.59
4. MIN. ALT: JUKRI 4000, ILARE 3000, VIMFY/1.80 NM TO RW14L 1780\*
5. DIST TO THLD FROM OM:        MM:        IM:        150 HAT:        100 HAT:        GS ANT:
6. MIN GS INCPT: 3000 GS ALT AT: ILARE 3000 OM:        MM:        IM:
7. GS ANGLE: 3.00 TCH: 52.0 34:1 IS CLEAR
8. MSA FROM: RW14L 4600

MAG VAR: 18E EPOCH YEAR: 1995

MINIMUMS																
TAKEOFF:	SEE FAA FORM 8260-15A FOR THIS AIRPORT											ALTERNATE: N/A		STANDARD @		
CATEGORY =====>	A			B			C			D			E			
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	
LPV DA	1368	3/4	200	1368	3/4	200	1368	3/4	200	1368	3/4	200				
LNAV/VNAV DA	1435	7/8	267	1435	7/8	267	1435	7/8	267	1435	7/8	267				
LNAV MDA	1580	1	412	1580	1	412	1580	1 1/8	412	1580	1 1/8	412				
CIRCLING	1660	1	471	1660	1	471	1660	1 1/2	471	1740	2	551				

NOTES:  
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 36C (96F). @ NA WHEN LOCAL WEATHER NOT AVAILABLE.  
 CHART NOTE: DME/DME RNP-0.3 NA.  
 CHART NOTE: BARO-VNAV AND VDP NA WHEN USING EPHRATA ALTIMETER SETTING.  
 CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE EPHRATA ALTIMETER SETTING AND INCREASE  
 (SEE FORM 8260-10)



CITY AND STATE MOSES LAKE, WA	ELEVATION: 1189 THRE: 1168 AIRPORT NAME: GRANT CO INTL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 14L, AMDT 1A 26 JULY 2012	SUP: AMDT: 1 DATED 03/10/2011
----------------------------------	--	------------------------------	---	-------------------------------------

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
**RNAV - STANDARD**  
**INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
RW14L (MAP)	1368 MSL	144.11	
1368 MSL	HEDBI (FB)		
HEDBI	UPBOB (FO)	123.85 / 14.85	4000

NOTES, (CONT.):

ALL DA 36 FEET AND ALL MDA 40 FEET, INCREASE LNAV/VNAV VISIBILITY ALL CATS 1/8 MILE AND LNAV CATS C AND D VISIBILITY 1/4 MILE.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT QUINT ON V336 SOUTHWEST BOUND AND V357 WESTBOUND, ARRIVALS AT WIPES ON V120 NORTHEAST BOUND, AND ARRIVAL AT MWH VOR/DME AIRWAY RADIALS 239 CW 318.

CITY AND STATE  
 MOSES LAKE, WA

ELEVATION: 1189      THRE: 1168  
 AIRPORT NAME:  
 GRANT CO INTL

FACILITY IDENTIFIER:  
 RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  
 RNAV (GPS) Y RWY 14L, AMDT 1A  
 26 JULY 2012

SUP:  
 AMDT: 1  
 DATED: 03/10/2011

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KMWH
RUNWAY	RW14L
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W14A
LTP/FTP LATITUDE	471332.3670N
LTP/FTP LONGITUDE	1191935.4305W
LTP/FTP ELLIPSOIDAL HEIGHT	+03356
FPAP LATITUDE	471125.5400N
FPAP LONGITUDE	1191835.4100W
THRESHOLD CROSSING HEIGHT (TCH)	00052.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	115.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

CRC REMAINDER A5952CEF

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+03561
FPAP ORTHOMETRIC HEIGHT	+03561



CITY AND STATE MOSES LAKE, WA	ELEVATION: 1189      THRE: 1168	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) Y RWY 14L, AMDT 1A 26 JULY 2012	SUP:
	AIRPORT NAME: GRANT CO INTL			AMDT: 1
				DATED: 03/10/2011

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
**RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE**  
FLIGHT STANDARDS SERVICES - FAR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC PACKET - 424-18 - RNAV (GPS)

NAVAID	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAD	MWH	K1011500VDHW	N47123911W119190054	N47123911W119190054	E0180011932	NARMOSES LAKE							

WP	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAEAENRT	HEDBI	K10	W	N47072706W119164278	E0158	NAR	HEDBI						
SUSAEAENRT	ILARE	K10	W	N47185126W119220671	E0158	NAR	ILARE						
SUSAEAENRT	JUKRI	K10	W	N47245712W119250094	E0159	NAR	JUKRI						
SUSAEAENRT	QUINT	K10	C	L N47125029W119543159	E0160	NAR	QUINT						
SUSAEAENRT	UPBOB	K10	C	L N46554629W119032012	E0157	NAR	UPBOB						
SUSAEAENRT	VIMFY	K10	W	N47151510W119202411	E0158	NAR	VIMFY						
SUSAEAENRT	WIPES	K10	C	L N47244655W119062942	E0158	NAR	WIPES						

AIRPORT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KMWHK1AMWH	0	135YHN47123090W119190890E018001189				1800018000C		MNAR	GRANT CO INTL			

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KMWHK1FR14LY	AMWH	010MWH K1D 0V		IF					18000	A JS		
SUSAP	KMWHK1FR14LY	AMWH	020JUKRIK1EA0EY		020TF	32370130	+ 04000						
SUSAP	KMWHK1FR14LY	AMWH	030JUKRIK1EA0EE		AL HF	14410040	+ 04000						
SUSAP	KMWHK1FR14LY	AQUINT	010QUINTK1EA0E		IF					18000	A JS		
SUSAP	KMWHK1FR14LY	AQUINT	020JUKRIK1EA0EY		020TF	04070235	+ 05200						
SUSAP	KMWHK1FR14LY	AQUINT	030JUKRIK1EA0EE		AL HF	14410040	+ 04000						
SUSAP	KMWHK1FR14LY	AWIPES	010WIPESK1EA0E		IF					18000	A JS		
SUSAP	KMWHK1FR14LY	AWIPES	020JUKRIK1EA0EY		020TF	25290126	+ 04200						
SUSAP	KMWHK1FR14LY	AWIPES	030JUKRIK1EA0EE		AL HF	14410040	+ 04000						
SUSAP	KMWHK1FR14LY	R	010JUKRIK1EA0E		I IF					18000	A JS		
SUSAP	KMWHK1FR14LY	R	020ILAREK1EA1E		F 051TF	14410064	+ 03000		RW14L K1PGA JS				
SUSAP	KMWHK1FR14LY	R	020ILAREK1EA2WALPV		ALNAV/VNAV ALNAV								
SUSAP	KMWHK1FR14LY	R	021VIMFYK1EA0E		S 031TF	14410038	V 0178001794				-300	A JS	
SUSAP	KMWHK1FR14LY	R	030RW14LK1PGOGY		M 031TF	14410018	01220				-300	A JS	
SUSAP	KMWHK1FR14LY	R	040		0 M CA	1441	+ 01368						
SUSAP	KMWHK1FR14LY	R	050HEDBIK1EA0E		DF								
SUSAP	KMWHK1FR14LY	R	060UPBOBK1EA0EY		010TF	1239	+ 04000						
SUSAP	KMWHK1FR14LY	R	070UPBOBK1EA0EE		R HM	12950040	+ 04000						

QUALITY CHECKED

CITY AND STATE <b>MOSES LAKE, WA</b>	ELEVATION: <b>1189</b> THRE: <b>1168</b> AIRPORT NAME: <b>GRANT CO INTL</b>	FACILITY IDENTIFIER: <b>RNAV</b>	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: <b>RNAV (GPS) Y RWY 14L, AMDT 1A</b> <b>26 JULY 2012</b>	SUP: AMDT: <b>1</b> DATED: <b>03/10/2011</b>
---	---	-------------------------------------	---	--



**U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION**  
**RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE**  
**FLIGHT STANDARDS SERVICES - FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	MWH	MWH	010		IF		FB					
	MWH	JUKRI	020		TF		FO	2.0	323.7 (341.7T)	013.0	AA 04000	
	MWH	JUKRI	030	IAF	HF	L	FO		144.1 (162.1T)	004.0	AA 04000	
	QUINT	QUINT	010		IF		FB					
	QUINT	JUKRI	020		TF		FO	2.0	040.7 (058.7T)	023.5	AA 05200	
	QUINT	JUKRI	030	IAF	HF	L	FO		144.1 (162.1T)	004.0	AA 04000	
	WIPES	WIPES	010		IF		FB					
	WIPES	JUKRI	020		TF		FO	2.0	252.9 (270.9T)	012.6	AA 04200	
	WIPES	JUKRI	030	IAF	HF	L	FO		144.1 (162.1T)	004.0	AA 04000	
		JUKRI	010	FACF	IF		FB				AA 04000	
		ILARE	020	FAF	TF		FB	0.5	144.1 (162.1T)	006.4	AA 03000	
		VIMFY	021	SDF	TF		FB	0.3	144.1 (162.1T)	003.8	AA 01780	GS 01794
		RW14L	030	MAP	TF		FO	0.3	144.1 (162.1T)	001.8	AT 01220	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		144.1 (162.1T)		AA 01368	
	HEDBI	050		DF		FB					
	UPBOB	060		TF		FO	1.0	123.9 (141.9T)		AA 04000	
	UPBOB	070		HM	R	FO		129.5 (147.5T)	004.0	AA 04000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	MWH	N471239.11	W1191900.54	N4712.652	W11919.009
	HEDBI	N470727.06	W1191642.78	N4707.451	W11916.713
	ILARE	N471851.26	W1192206.71	N4718.854	W11922.112
	JUKRI	N472457.12	W1192500.94	N4724.952	W11925.016
	QUINT	N471250.29	W1195431.59	N4712.838	W11954.527
	UPBOB	N465546.29	W1190320.12	N4655.772	W11903.335
	VIMFY	N471515.10	W1192024.11	N4715.252	W11920.402
	WIPES	N472446.55	W1190629.42	N4724.776	W11906.490
	RW14L	N471332.37	W1191935.43	N4713.540	W11919.591

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW14L	01168	52



CITY AND STATE <b>MOSES LAKE, WA</b>	ELEVATION: <b>1189</b> THRE: <b>1168</b>	FACILITY IDENTIFIER: <b>RNAV</b>	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: <b>RNAV (GPS) Y RWY 14L, AMDT 1A</b> 26 JULY 2012	SUP:
	AIRPORT NAME: <b>GRANT CO INTL</b>			AMDT: <b>1</b>
				DATED: <b>03/10/2011</b>