

US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

**RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33**

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TERMINAL ROUTES				MISSED APPROACH
FROM	TO	COURSE AND DISTANCE	ALTITUDE	
RLY VOR/DME	COVGO (FO)	341.60 / 11.45	7500	LPV: DA LNAV/VNAV: DA LNAV: RW16
CRANY (IAF)	COVGO (NOPT) (FB)	096.10 / 19.74	7500	
COVGO (IF/IAF)	PEYIP (FB)	162.01 / 6.07	5800	CLIMB TO 9600 DIRECT WAPSU AND ON TRACK 206.69 TO ZURNA AND HOLD, CONTINUE CLIMB-IN-HOLD TO 9600.
PEYIP (FAF)	PIT0Y/2.60 NM TO RW16 (FB)	162.02 / 2.33		
PIT0Y/2.60 NM TO RW16	RW16 (MAP) (FO)	162.02 / 2.60		
RW16 (MAP)	4424 MSL	162.02		ADDITIONAL FLIGHT DATA: HOLD N, RT, 193.82 INBOUND. CHART FAS OBST: 4305 TREE 435823N/1075654W DISTANCE TO THLD FROM 250 HATH: 0.61 NM. CHART VDP AT 1.01 MILES TO RW16* *LNAV ONLY. WAAS CHANNEL # 40228 REFERENCE PATH ID: W16A CHART APT ELEV 4252 LTP HAE: 1259.1 M
(SEE FORM 8260-10)				

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- HOLD N COVGO, RT, 162.01 INBOUND, 7500 FT. IN LIEU OF PT (IAF)
- FAC: 162.02 FAF: PEYIP DIST FAF TO MAP: 4.93 THLD: 4.93
- MIN. ALT: COVGO 7500, PEYIP 5800, PIT0Y/2.60 NM TO RW16 5040*
- DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT:
- MIN GS INCPT: 5800 GS ALT AT: PEYIP 5800 OM: MM: IM:
- GS ANGLE: 3.00 TCH: 55.0 34:1 IS NOT CLEAR
- MSA FROM: RW16 9300

MAG VAR: 13E 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	4424	3/4	250	4424	3/4	250	4424	3/4	250	4424	3/4	250			
LNAV/VNAV DA	4466	7/8	292	4466	7/8	292	4466	7/8	292	4466	7/8	292			
LNAV MDA	4560	1	386	4560	1	386	4560	1 1/8	386	4560	1 1/8	386			
CIRCLING	4880	1	628	4900	1	648	4900	1 3/4	648	4900	2	648			

NOTES:
CHART NOTE: WHEN VGSI INOP, CIRCLING RWY 34 NA AT NIGHT. @ NA WHEN LOCAL WEATHER NOT AVAILABLE.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -32C (-25F) OR ABOVE 17C (62F).
CHART NOTE: DME/DME RNP-0.3 NA.
(SEE FORM 8260-10)

CITY AND STATE WORLAND, WY	ELEVATION: 4252 THRE: 4174	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 16, ORIG 20 SEPTEMBER 2012	SUP:
	AIRPORT NAME: WORLAND MUNI			AMDT: NONE
				DATED

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TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
4424 MSL	WAPSU (FB)		
WAPSU	ZURNA (FO)	206.69 / 14.16	9600

NOTES, (CONT.):

CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA.

CHART NOTE: VDP AND BARO-VNAV NA WITH GREYBULL ALTIMETER SETTING.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT CRANY ON V187 NORTHBOUND.

CHART NOTE: WHEN LOCAL ALTIMETER NOT RECEIVED, USE GREYBULL ALTIMETER SETTING AND INCREASE ALL DA/MDA 140 FT, AND ALL VISIBILITIES 1/2 MILE.



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FLIGHT STANDARDS SERVICE - FAR PART 97.33**

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FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KWRL
RUNWAY	RW16
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W16A
LTP/FTP LATITUDE	435817.5260N
LTP/FTP LONGITUDE	1075713.4945W
LTP/FTP ELLIPSOIDAL HEIGHT	+12591
FPAP LATITUDE	435648.7600N
FPAP LONGITUDE	1075702.8100W
THRESHOLD CROSSING HEIGHT (TCH)	00055.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0616
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER 929ADFA2

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+12722
FPAP ORTHOMETRIC HEIGHT	+12722

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ARINC PACKET - 424-18 - RNAV (GPS)

NAVAID	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAD	12345678901	2345678901	2345678901	2345678901	2345678901	2345678901	2345678901	2345678901	2345678901	2345678901	2345678901	2345678901	23456789012
	RLY	K10	11480VDLW	N43575090W	107570302	N43575090W	107570302	E0130042041	NAR	WORLAND			

WP	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAEAENRT	COVGO	K10	W	N44091506W	107583291			E0108	NAR	COVGO			
SUSAEAENRT	CRANY	K10	C	L N44154564W	108242747			E0111	NAR	CRANY			
SUSAEAENRT	PEYIP	K10	W	N44031237W	107574904			E0108	NAR	PEYIP			
SUSAEAENRT	PIT0Y	K10	W	N44005295W	107573222			E0108	NAR	PIT0Y			
SUSAEAENRT	WAPSU	K10	W	N43514803W	107562666			E0108	NAR	WAPSU			
SUSAEAENRT	ZURNA	K10	C	L N43405369W	108085429			E0109	NAR	ZURNA			

AIRPORT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KWRLK1	AWRL	0	070YHN	43574640W	107570190E	013004252	18000	18000C	MNAR	WORLAND	MUNI	

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KWRLK1FR16	ACRANY	010CRANYK1	EA0E	A	IF				18000			A JS
SUSAP	KWRLK1FR16	ACRANY	020COVGOK1	EA0EE	B	010TF	09610197		+ 07500				A JS
SUSAP	KWRLK1FR16	ARLY	010RLY	K1D	0V	IF				18000			A JS
SUSAP	KWRLK1FR16	ARLY	020COVGOK1	EA0EY		020TF	34160115		+ 07500				A JS
SUSAP	KWRLK1FR16	ARLY	030COVGOK1	EA0EE	AR	HF	16200070		+ 07500				A JS
SUSAP	KWRLK1FR16	R	010COVGOK1	EA0E	I	IF			+ 07500	18000			A JS
SUSAP	KWRLK1FR16	R	020PEYIPK1	EA1E	F	051TF	16200061		+ 05800		RW16	K1PGA	JS
SUSAP	KWRLK1FR16	R	020PEYIPK1	EA2W	ALP	V	ALNAV/VNAV	ALNAV					JS
SUSAP	KWRLK1FR16	R	021PIT0YK1	EA0E	S	031TF	16200023		V 0504005057		-300		A JS
SUSAP	KWRLK1FR16	R	030RW16	K1PGOGY	M	031TF	16200026		04229		-300		A JS
SUSAP	KWRLK1FR16	R	040		0	M	1620		+ 04424				A JS
SUSAP	KWRLK1FR16	R	050WAPSUK1	EA0E		DF							A JS
SUSAP	KWRLK1FR16	R	060ZURNAK1	EA0EY		010TF	2067		+ 09600				A JS
SUSAP	KWRLK1FR16	R	070ZURNAK1	EA0EE		R	19380070		+ 09600				A JS

RUNWAY	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KWRLK1GRW16	00700	11620	N43581753W	107571349	+1100			+12591041740	00055100R			

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PP 1234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012

SUSAP KWRLK1PR16 RW16 001 0000W16A0N4358175260W10757134945+125910300N4356487600W10757028100106750616000550F400500929ADFA2
 SUSAP KWRLK1PR16 RW16 002E +12722+12722LPV 40228

MSA 1 2 3 4 5 6 7 8 9 0 1 2 3
 1234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012

SUSAP KWRLK1SRW16 K1PG 0 18018009325 M

CITY AND STATE
 WORLAND, WY

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 AIRPORT NAME:
 WORLAND MUNI

FACILITY IDENTIFIER:
 RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
 RNAV (GPS) RWY 16, ORIG
 20 SEPTEMBER 2012

SUP:	
AMDT:	NONE
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ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
	CRANY	CRANY	010	IAF	IF		FB					
	CRANY	COVGO	020		TF		FB	1.0	096.1 (109.1T)	019.7	AA 07500	
	RLY	RLY	010		IF		FB					
	RLY	COVGO	020		TF		FO	2.0	341.6 (354.6T)	011.5	AA 07500	
	RLY	COVGO	030	IAF	HF	R	FO		162.0 (175.0T)	007.0	AA 07500	
		COVGO	010	FACF	IF		FB				AA 07500	
		PEYIP	020	FAP	TF		FB	0.5	162.0 (175.0T)	006.1	AA 05800	
		PIT0Y	021	SDF	TF		FB	0.3	162.0 (175.0T)	002.3	AA 05040	GS 05057
		RW16	030	MAP	TF		FO	0.3	162.0 (175.0T)	002.6	AT 04229	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		162.0 (175.0T)		AA 04424	
	WAPSU	050		DF		FB					
	ZURNA	060		TF		FO	1.0	206.7 (219.7T)		AA 09600	
	ZURNA	070		HM	R	FO		193.8 (206.8T)	007.0	AA 09600	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	RLY	N435750.90	W1075703.02	N4357.848	W10757.050
	COVGO	N440915.06	W1075832.91	N4409.251	W10758.549
	CRANY	N441545.64	W1082427.47	N4415.761	W10824.458
	PEYIP	N440312.37	W1075749.04	N4403.206	W10757.817
	PIT0Y	N440052.95	W1075732.22	N4400.883	W10757.537
	WAPSU	N435148.03	W1075626.66	N4351.801	W10756.444
	ZURNA	N434053.69	W1080854.29	N4340.895	W10808.905
	RW16	N435817.53	W1075713.49	N4358.292	W10757.225

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW16	04174	55

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