

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						MISSED APPROACH									
FROM	TO	COURSE AND DISTANCE	ALTITUDE	LPV: DA LNAV/VNAV: DA LNAV: RW36 CLIMB TO 3000 DIRECT TUBYO AND HOLD. ADDITIONAL FLIGHT DATA: HOLD N, RT, 184.37 INBOUND. CHART FAS OBST: 698 WATER TWR 344356N/0873732W CHART 580 POLE 344408N/0873656W. DISTANCE TO THLD FROM 250 HATH: 0.66 NM. CHART VDP AT 1.19 MILES TO RW36* *LNAV ONLY. WAAS CHANNEL # 61135 REFERENCE PATH ID: W36A CHART CIRCLING ICON CHART COLUMBUS 2/4 MOA. LTP HAE: 137.9 M											
PAMGE (IF/IAF)	WAPGO (FB)	004.37 / 7.00	2400												
WAPGO (FAF)	ROCOB/1.85 NM TO RW36 (FB)	004.37 / 3.86													
ROCOB/1.85 NM TO RW36	RW36 (MAP) (FO)	004.37 / 1.85													
RW36 (MAP)	791 MSL	004.37													
791 MSL	TUBYO (FO)		3000												
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. HOLD S PAMGE, RT, 004.37 INBOUND, 3000 FT. IN LIEU OF PT (IAF) 3. FAC: 004.37 FAF: WAPGO DIST FAF TO MAP: 5.71 THLD: 5.71 4. MIN. ALT: PAMGE 3000, WAPGO 2400, ROCOB/1.85 NM TO RW36 1160* 5. DIST TO THLD FROM OM: <u> </u> MM: <u> </u> IM: <u> </u> 150 HAT: <u> </u> 100 HAT: <u> </u> GS ANT: <u> </u> 6. MIN GS INCPT: 2400 GS ALT AT: WAPGO 2400 OM: <u> </u> MM: <u> </u> IM: <u> </u> 7. GS ANGLE: 3.00 TCH: 40.0 34:1 IS CLEAR 8. MSA FROM: <u> </u>				MAG VAR: 3W EPOCH YEAR: 2015											
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	791	7/8	250	791	7/8	250	791	7/8	250	791	7/8	250			
LNAV/VNAV DA	929	1 3/8	388	929	1 3/8	388	929	1 3/8	388	929	1 3/8	388			
LNAV MDA	960	1	419	960	1	419	960	1 1/8	419	960	1 1/8	419			
CIRCLING	1040	1	489	1040	1	489	1280	2	729	1280	2 1/4	729			
NOTES: CHART NOTE: CIRCLING TO RWY 18 NA AT NIGHT. CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -4C (25F) OR ABOVE 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: BARO VNAV AND VDP NA WHEN USING DECATUR ALTIMETER SETTING. (SEE FORM 8260-10)															
CITY AND STATE		ELEVATION: 551 THRE: 541		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:					
MUSCLE SHOALS, AL		AIRPORT NAME:		NORTHWEST ALABAMA RGNL		RNAV (GPS) RWY 36, AMDT 1 3 APRIL 2014				AMDT: ORIG-B					
										DATED 11/15/2012					

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

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NOTES, (CONT.):

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE DECATUR ALTIMETER SETTING AND INCREASE LPV DA TO 874, LNAV/VNAV DA TO 1012 AND ALL MDA 100 FEET, INCREASE LPV AND LNAV/VNAV ALL CATS VISIBILITY 1/4 MILE, INCREASE LNAV CATS C/D VISIBILITY 1/4 MILE, AND CIRCLING CATS C/D VISIBILITY 1/2 MILE.

TAA

	FROM	TO	ALT
1.	274/30 CW 094/30 (NOPT)	PAMGE (IF/IAF) (FB)	3000
2.	094/30 CW 274/30	PAMGE (IF/IAF) (FO)	3000

QUALITY
CHECKED

CITY AND STATE

MUSCLE SHOALS, AL

ELEVATION: 551

THRE: 541

AIRPORT NAME:

NORTHWEST ALABAMA RGNL

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IDENTIFIER:
RNAV

PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 36, AMDT 1

3 APRIL 2014

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

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FAS DATA BLOCK INFORMATIONDATA FIELDDATA

OPERATION TYPE 0
SBAS SERVICE PROVIDER IDENTIFIER 0
AIRPORT IDENTIFIER KMSL
RUNWAY RW36
APPROACH PERFORMANCE DESIGNATOR 0
ROUTE INDICATOR
REFERENCE PATH DATA SELECTOR 0
REFERENCE PATH IDENTIFIER (APPROACH ID) W36A
LTP/FTP LATITUDE 344423.7145N
LTP/FTP LONGITUDE 0873657.7520W
LTP/FTP ELLIPSOIDAL HEIGHT +01379
FPAP LATITUDE 344552.9365N
FPAP LONGITUDE 0873655.1665W
THRESHOLD CROSSING HEIGHT (TCH) 00040.0
TCH UNITS SELECTOR (METERS OR FEET USED) F
GLIDEPATH ANGLE (GPA) 03.00
COURSE WIDTH AT THRESHOLD 106.75
LENGTH OFFSET 1528
HORIZONTAL ALERT LIMIT (HAL) 40.0
VERTICAL ALERT LIMIT (VAL) 50.0

CRC REMAINDER

24398177

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE K7
LTP ORTHOMETRIC HEIGHT +01649
FPAP ORTHOMETRIC HEIGHT +01649

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[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP KMSLK7FR36	APAMGE	010PAMGEK7EA0EE	AR	HF			00440040	+	03000	18000		A	JS
SUSAP KMSLK7FR36	R	010PAMGEK7EA0E	I	IF				+	03000	18000		A	JS
SUSAP KMSLK7FR36	R	020WAPGOK7EA1E	F	051TF			00440070	+	02400			A	JS
SUSAP KMSLK7FR36	R	020WAPGOK7EA2WALPV			ALNAV/VNAV	ALNAV							JS
SUSAP KMSLK7FR36	R	021ROCOBK7EA0E	S	031TF			00440039	V	0116001170	-300		A	JS
SUSAP KMSLK7FR36	R	030RW36	K7PGOGY	M	031TF		00440019		00581	-300		A	JS
SUSAP KMSLK7FR36	R	040		0	M	CA	0044	+	00791			A	JS
SUSAP KMSLK7FR36	R	050TUBYOK7EA0EY		DF				+	03000			A	JS
SUSAP KMSLK7FR36	R	060TUBYOK7EA0EE	R	HM			18440040	+	03000			A	JS

[illegible][illegible]

CITY AND STATE MUSCLE SHOALS, AL	ELEVATION: 551 THRE: 541	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
	AIRPORT NAME: NORTHWEST ALABAMA RGNL		RNAV (GPS) RWY 36, AMDT 1	AMDT: ORIG-B
		RNAV	3 APRIL 2014	DATED: 11/15/2012

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

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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
	PAMGE	PAMGE	010	IAF	HF	R	FO		004.4 (001.4T)	004.0	AA 03000	
		PAMGE	010	FACF	IF		FB				AA 03000	
		WAPGO	020	FAF	TF		FB	0.5	004.4 (001.4T)	007.0	AA 02400	
		ROCOB	021	SDF	TF		FB	0.3	004.4 (001.4T)	003.9	AA 01160	GS 01170
		RW36	030	MAP	TF		FO	0.3	004.4 (001.4T)	001.9	AT 00581	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG (TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		004.4 (001.4T)		AA 00791	
	TUBYO	050		DF		FO				AA 03000	
	TUBYO	060		HM	R	FO		184.4 (181.4T)	004.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	PAMGE	N343139.92	W0873719.82	N3431.665	W08737.330
	ROCOB	N344232.60	W0873700.98	N3442.543	W08737.016
	TUBYO	N345709.93	W0873635.50	N3457.166	W08736.592
	WAPGO	N343840.51	W0873707.68	N3438.675	W08737.128
	RW36	N344423.71	W0873657.75	N3444.395	W08736.963

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW36	00541	40

CITY AND STATE
MUSCLE SHOALS, AL

ELEVATION: **551** THRE: **541**
 AIRPORT NAME:
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RNAV

PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:
RNAV (GPS) RWY 36, AMDT 1
3 APRIL 2014

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