

**FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
ILS STANDARD INSTRUMENT APPROACH PROCEDURE  
TITLE 14 CFR PART 97.29**

Bearings, headings, courses, tracks 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 feet RVR.

<u>AIRPORT ID</u> KMSL	<u>PROCEDURE NAME</u> ILS Z OR LOC Z RWY 30	<u>ORIGINAL/AMENDMENT</u> 7	<u>CITY</u> MUSCLE SHOALS	<u>STATE</u> AL		
<u>AIRPORT ELEVATION</u> 551	<u>TDZE</u> 551	<u>SUPERSEDED</u> ILS Z OR LOC Z RWY 30	<u>ORIGINAL/AMENDMENT</u> 6B	<u>DATED</u> 08/15/2019	<u>MAG VAR</u> 3W	<u>EPOCH YEAR</u> 2015
<u>FACILITY</u> I-MSL	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 3 NOVEMBER 2022	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

**TERMINAL ROUTES**

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
HUPOK/MSL 7.00 DME/RADAR	IF/IAF	TICVU/MSL 0.40 DME/RADAR					297.11	7.28 (I-MSL)	2300

**MISSED APPROACH**

**MAP:**

ILS: DA  
LOC: MSL 5.60 DME

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 1200 THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 020 TO INTERCEPT RQZ VORTAC R-268 TO JOBUM/RQZ VORTAC 42.50 DME/RADAR AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000.

**ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):**

CLIMB TO 1200 THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 020 FOR RADAR VECTORS.

**PROFILE:**

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- HOLD SE HUPOK, RT, 297.11 INBOUND, 2700 FT. IN LIEU OF PT (IAF), MAX 5000.
- FAC: 297.11 FAF: TICVU/MSL 0.40 DME/RADAR DIST FAF TO MAP: 5.31 DIST FAF TO THLD: 5.31
- MIN ALT: HUPOK/MSL 7.00 DME/RADAR 2700, TICVU/MSL 0.40 DME/RADAR 2300, DIXLI/MSL 3.10 DME 1400
- DIST TO THLD FROM OM: MM: IM: 150 HAT: GS ANT: 1123
- MIN GS INCPT: 2300 GS ALT AT PFAF: TICVU/MSL 0.40 DME/RADAR 2300 OM: MM: IM:
- GP ANGLE: 3.00 34:1 20:1 TCH: 59.1
- MSA FROM: ARP KMSL 360-090 3200, 090-360 2700

**EQUIPMENT REQUIREMENTS NOTES:**

DME REQUIRED.  
RADAR REQUIRED.



**NOTES:**

CHART NOTE: DME FROM MSL DME. SIMULTANEOUS RECEPTION OF I-MSL AND MSL DME REQUIRED.  
CHART NOTE: FOR INOPERATIVE ALS INCREASE S-LOC 30 CATS C/D VISIBILITY TO 1 SM.

**ADDITIONAL FLIGHT DATA:**

CHART COLUMBUS 2/4 MOA.  
HOLD W, RT, 088.00 INBOUND.  
CHART FAS OBST: 658 TRANSMISSION\_LINE (01-021644) 344419N/0873444W.  
CHART VDP AT 4.63 DME  
DISTANCE VDP TO THLD 0.97 NM.  
CHART CIRCLING ICON.

**MINIMUMS:**

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

**ALTERNATE:** NA ☐ ILS: STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE.; LOC: STANDARD - CAT D 800-2 1/4, NA WHEN LOCAL WEATHER NOT AVAILABLE.

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
S-ILS 30	751	1/2	200	751	1/2	200	751	1/2	200	751	1/2	200			
S-LOC 30	920	1/2	369	920	1/2	369	920	5/8	369	920	5/8	369			
CIRCLING	1040	1	489	1040	1	489	1280	2	729	1280	2 1/4	729			

**CHANGES - REASONS**

1. MOVED TICVU 5725 FT (.94 NM) SOUTHEAST WHICH CHANGED THE DISTANCE BETWEEN HUPOK FROM 8.22 NM TO 7.28 NM; INCREASED PFAF ALTITUDE FROM 2000 TO 2300 AND ADDED RADAR PER ATC/FPT REQUEST TO MAINTAIN 3.00 DEGREE GLIDESLOPE ANGLE.
2. MISSED APPROACH INSTRUCTIONS CHANGED FROM " CLIMB TO 3000 ON MSL VORTAC R-292 TO JOBTA/MSL VORTAC 19.04 DME AND HOLD" TO "CLIMB TO 1200 THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 020 TO INTERCEPT RQZ VORTAC R-268 TO JOBUM/RQZ VORTAC 42.50 DME/RADAR AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000" - MSL VOR PORTION OF THE VORTAC SCHEDULED FOR DECOMMISSIONING.
3. ADDED ALTERNATE MISSED APPROACH: "CLIMB TO 1200 THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 020 FOR RADAR VECTORS" - PER ATC/FPT REQUEST.
4. ADDED/CHANGED/REMOVED FROM PROFILE SECTION: LINE #3 CHANGED FAF FROM TICVU/MSL VORTAC 1.25 DME TO TICVU/MSL 0.40 DME/RADAR; LINE #3 ADDED DIST FAF TO MAP: 5.31; LINE #3 CHANGED DIST FAF TO THLD FROM: 4.37 TO 5.31; LINE #5 REMOVED DIST TO THLD FROM 200 HAT: 0.44; LINE #7 REMOVED 20:1 IS CLEAR AND LINE #8 CHANGED MSA FROM: MSL VORTAC 360-090 3200, 090-360 2700 TO ARP KMSL: 360-090 3200, 090-360 2700 - NOT REQUIRED FOR ILS OR LOC PROCEDURES, UPDATED DATA AND NO OTHER SUITABLE NAVAID AVAILABLE.
5. REMOVED \*LOC ONLY FROM NOTES - IAW 8260.19H1.
6. UPDATED CHART NOTE FROM: DME FROM MSL VORTAC. SIMULTANEOUS RECEPTION OF I-MSL AND MSL DME REQUIRED TO DME FROM MSL DME. SIMULTANEOUS RECEPTION OF I-MSL AND MSL DME REQUIRED - MSL VOR PORTION OF THE VORTAC SCHEDULED FOR DECOMMISSIONING.
7. REMOVED ALS INOP NOTE TO BACK OF 8260-9: CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE DECATUR ALTIMETER SETTING: INCREASE DA TO 834 FEET AND ALL MDA 100 FEET; INCREASE S-LOC 30 CAT C,D VISIBILITY 3/8 SM AND CIRCLING CAT C,D VISIBILITY 1/2 SM; NOTE: VDP NA WHEN USING DECATUR ALTIMETER SETTING; NOTE: FOR INOPERATIVE ALS WHEN USING DECATUR ALTIMETER SETTING, INCREASE S-ILS 30 ALL CATS VISIBILITY TO 7/8 SM, AND INCREASE S-LOC 30 CATS C/D TO 1 3/8 SM.- PER 8260.19I.
8. ADDITIONAL FLIGHT DATA: ADDED CHART VDP AT 4.63 DME AND DISTANCE VDP TO THLD 0.97 NM - PER 8260.19I.



AIRPORT ID  
KMSL

PROCEDURE NAME  
ILS Z OR LOC Z RWY 30

ORIGINAL/AMENDMENT  
7

CITY  
MUSCLE SHOALS

STATE  
AL

COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ OTHER: ZME, AMGR.

FLIGHT CHECKED BY

MICHAEL W PENDERGRASS

OFFICE

FPO

DATE

09/20/2022

*Digitally signed by*

**DONALD E SMITH**

Sep 26, 2022

DEVELOPED BY

SYLVAN DRAKES

*Digitally signed by*

**SYLVAN DRAKES**

Mar 11, 2022

OFFICE

AJV-A410

DATE

01/20/2022

APPROVED BY

JULIE MORGAN

OFFICE

AJV-A410

DATE

TITLE

MANAGER

*Digitally signed by*

**DONALD E SMITH**

Sep 26, 2022

