

**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</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>ORIGINAL/AMENDMENT</u>	<u>CITY</u>	<u>STATE</u>	
NORTHWEST ALABAMA RGNL	KMSL	ILS Z OR LOC Z RWY 30	6B	MUSCLE SHOALS	AL	
<u>AIRPORT ELEVATION</u>	<u>TDZE</u>	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u>	<u>DATED</u>	<u>MAG VAR</u>	<u>EPOCH YEAR</u>
551	551	ILS Z OR LOC/DME Z RWY 29	6A	06/23/2016	3W	2015
<u>FACILITY</u>	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u>	<u>CANCEL/SUSPEND</u>		
I-MSL		15 AUGUST 2019	ROUTINE			

TERMINAL ROUTES THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 19-15.

<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 VORTAC 7.00 DME/RADAR	IF/IAF	TICVU/MSL VORTAC 1.25 DME					297.11	8.22 (I-MSL)	2000

MISSED APPROACH

MAP:

ILS: DA
LOC: MSL VORTAC 5.60 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 ON MSL VORTAC R-292 TO JOBTA/MSL VORTAC 19.04 DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- | | | | | |
|---|-------------------------------|-----------------------------------|------------------|----------------------------|
| 1. PT | SIDE OF COURSE | OUTBOUND | FT WITHIN | MILES OF (IAF) |
| 2. HOLD SE HUPOK, RT, 297.11 INBOUND, 2700 FT. IN LIEU OF PT (IAF), MAX 6000. | | | | |
| 3. FAC: | 297.11 | FAF: TICVU/MSL VORTAC
1.25 DME | DIST FAF TO MAP: | DIST FAF TO THLD: 4.37 |
| 4. MIN ALT: HUPOK/MSL VORTAC 7.00 DME/RADAR 2700, TICVU/MSL VORTAC 1.25 DME 2000, DIXLI/MSL VORTAC 3.10 DME 1400* | | | | |
| 5. DIST TO THLD FROM OM: | MM: | IM: | 150 HAT: | 200 HAT: 0.44 GS ANT: 1123 |
| 6. MIN GS INCPY: 2000 | GS ALT AT FAF : GP INTCP 2000 | | OM: | MM: |
| 7. GP ANGLE: 3.00 | 34:1: | 20:1: IS CLEAR | TCH: 59.1 | IM: |
| 8. MSA FROM: MSL VORTAC 360-090 3200, 090-360 2700 | | | | |

EQUIPMENT REQUIREMENTS NOTES:

DME REQUIRED.
RADAR REQUIRED FOR PROCEDURE ENTRY.



NOTES:***LOC ONLY**

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE DECATUR ALTIMETER SETTING: INCREASE DA TO 833 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.

CHART NOTE: DME FROM MSL VORTAC. 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.

CHART 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.

ADDITIONAL FLIGHT DATA:

CHART COLUMBUS 2/4 MOA.

CHART CIRCLING ICON.

CHART FAS OBST: 658 T-L TWR 344419N/0873444W.

HOLD W, RT, 112.26 INBOUND

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.

<u>CATEGORY:</u>	A			B			C			D			E		
<u>FINAL TYPE</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>
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. CHANGED ALL REFERNCES TO RWY 29 TO RWY 30. - RUNWAY NUMBERS UPDATED.
2. REMOVED NOTE "CIRCLING TO RWY 18 NA AT NIGHT." - FPT AND AIRPORT MANAGER ADVISED MITIGATION OF OBSTACLE KMSL0003.
3. MISSED APPROACH INSTRUCTIONS CHANGED FROM " CLIMB TO 3000 ON MSL VORTAC R-292 TO JOBTA INT/MSL VORTAC 19 DME AND HOLD" TO " CLIMB TO 3000 ON MSL VORTAC R-292 TO JOBTA/MSL VORTAC 19 DME AND HOLD." - VOR MON PROJECT.
4. REMOVED ALTERNATE MISSED APPROACH. - VOR MON PROJECT.
5. REMOVED JOBTA INTERSECTION FIX MAKE-UP. - VOR MON PROJECT.
6. CHANGED PROCEDURE NAME FROM ILS Z OR LOC/DME Z RWY 29 TO ILS Z OR LOC Z RWY 30. - IAW 8260.19H 8-3-4.B(7).
7. ADDED EQUIPMENT REQUIREMENTS NOTE: DME REQUIRED AND RADAR REQUIRED FOR PROCEDURE ENTRY. - IAW 8260.19H 8-6-8.A(2)(C).
8. INCORPORATED P-NOTAM 6/8834 - IAW 8260.19H 8-3-4 C.
9. IN CHART NOTES, CHANGED MILES TO SM. - IAW8260.3D 2-1-5 C.
10. CHANGED ALL REFERENCE OF MALSR TO ALS. - IAW 8260.19H 8-6-11 O(3).

06/04/19: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 12/14/19.

1. ALL MENTIONS OF S-ILS 29/S-LOC 29 NOTES UPDATED TO 30.
2. CORRECTED INOPERATIVE NOTE FROM LNAV TO S-LOC 30.
3. EQUIPMENT REQUIREMENTS NOTE CHANGED FROM DME OR RADAR REQUIRED TO RADAR REQUIRED FOR PROCEDURE ENTRY.



AIRPORT

NORTHWEST ALABAMA RGNL

AIRPORT ID

KMSL

PROCEDURE NAME

ILS Z OR LOC Z RWY 30

ORIGINAL/AMENDMENT

6B

CITY

MUSCLE SHOALS

STATE

AL

COORDINATED WITH:

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

FLIGHT CHECKED BY

PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, OCTOBER 3, 2018, SUBJECT:
FLIGHT INSPECTION REVIEW NOT REQUIRED

OFFICE

DATE

Digitally signed by

ALLAN WILL

Jun 11, 2019

DEVELOPED BY

TOMMY BYRNS

Digitally signed by

TOMMY BYRNS

Jun 05, 2019

OFFICE

AJV-5423

DATE

11/05/2018

APPROVED BY

JULIE MORGAN

OFFICE

AJV-5420

DATE

Digitally signed by

ALLAN WILL

Jun 11, 2019

TITLE

MANAGER