

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>	<u>PROCEDURE NAME</u>	<u>ORIGINAL/AMENDMENT</u>	<u>CITY</u>	<u>STATE</u>		
GLR	ILS OR LOC RWY 9	2	GAYLORD	MI		
<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SUPERSEDED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>
1328	1321	ILS OR LOC RWY 9	1B	05/20/2021	6W	2000
<u>FACILITY</u>	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u>	<u>CANCEL/SUSPEND</u>		
I-GLR		31 OCTOBER 2024	ROUTINE			

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
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MISSED APPROACH

MAP:

ILS: DA  
LOC: 3.88 NM AFTER BANGU LOM/RADAR

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 THEN LEFT TURN DIRECT BANGU LOM AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT	R	SIDE OF COURSE	276.10	OUTBOUND	3000	FT WITHIN	10	MILES OF	BANGU LOM/RADAR (IAF)
2.									
3. FAC:	096.10	FAF:	BANGU LOM/RADAR	DIST FAF TO MAP:	3.88	DIST FAF TO THLD:	3.88		
4. MIN ALT:	BANGU LOM/RADAR 2700								
5. DIST TO THLD FROM OM:	3.88	MM:		IM:		150 HAT:		GS ANT:	1099
6. MIN GS INCPT:	2700	GS ALT AT PFAF:	GP INTCP			OM:	2605	MM:	
7. GS ANGLE:	3.00	34:1:		20:1:		TCH:	49.6		
8. MSA FROM:	BANGU LOM 240-350 2900, 350-240 3500								



EQUIPMENT REQUIREMENTS NOTES:

ADF REQUIRED.  
RADAR REQUIRED FOR PROCEDURE ENTRY.

NOTES:

CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).  
CHART NOTE: CIRCLING RWY 18, 36 NA AT NIGHT.  
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE GOV ALTIMETER SETTING AND INCREASE S-ILS 9 DA TO 1591 FEET; INCREASE ALL MDAS 80 FEET AND S-LOC 9 VISIBILITY CAT C AND D 3/8 SM, AND CIRCLING VISIBILITY CAT C AND D 1/4 SM.  
CHART NOTE: FOR INOPERATIVE ALS WHEN USING GOV ALTIMETER SETTING, INCREASE S-ILS 9 ALL CATS VISIBILITY TO 7/8 SM AND S-LOC 9 CATS C AND D VISIBILITY TO 1 3/4 SM.  
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC 9 CATS C AND D VISIBILITY 3/8 SM.

ADDITIONAL FLIGHT DATA:

CHART IN PLANVIEW: (CFBXS) AT (450052.83N/0845730.40W).

HOLD W, LT, 096.04 INBOUND.  
FAS OBST: 1578 AAO 450100N/0844751W.  
1588 AAO 450103N/0844833W.  
CHART R-4201 A.  
CHART 3000 PRIOR TO BANGU LOM IN PROFILE.  
CHART CIRCLING ICON.

MINIMUMS:

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

ALTERNATE: NA ☒

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 09	1521	1/2	200	1521	1/2	200	1521	1/2	200	1521	1/2	200			
S-LOC 09	1860	1/2	539	1860	1/2	539	1860	1	539	1860	1	539			
CIRCLING	1860	1	532	1940	1	612	2040	2	712	2040	2 1/4	712			



CHANGES - REASONS

1. TERMINAL ROUTES: REPLACED GLR VOR/DME FEEDER WITH TVC VOR/DME FEEDER - GLR VOR MON PROGRAM.
2. TERMINAL ROUTES: CHANGED FROM "BANGU LOM/GLR 4.42 DME" TO "BANGU LOM" AND ADDED FIX TYPE FAF/IAF - GLR VOR MON PROGRAM.
3. TERMINAL ROUTES: CHANGED FEEDER TO FAF/IAF COURSE FROM 277.70 TO 058.44 AND DISTANCE FROM 4.42 TO 37.81 - GLR VOR MON REPLACED BY TVC VOR/DME PER IFP/ATC CHECKLIST REQUEST.
4. MISSED APPROACH: CHANGED LOC MAP FROM "3.88 NM AFTER BANGU LOM/GLR 4.42 DME OR AT GLR 0.56 DME" TO "3.88 NM AFTER BANGU LOM" - GLR VOR MON PROGRAM, FINAL FACILITY DOESN'T DME.
5. REMOVED PRIMARY MISSED APPROACH INSTRUCTIONS - GLR VOR MON PROGRAM.
6. CHANGED ALTERNATE MISSED APPROACH INSTRUCTIONS "CLIMB TO 3000 THEN LEFT TURN DIRECT BANGU LOM AND HOLD" TO PRIMARY - PER IFP/ATC CHECKLIST REQUEST.
7. PROFILE LINE 3: CHANGED FAF FROM "BANGU LOM/GLR 4.42 DME" TO "BANGU LOM" - GLR VOR MON PROGRAM.
8. PROFILE LINE 4: CHANGED MIN ALT FROM "BANGU LOM/GLR 4.42 DME 2700" TO "BANGU LOM 2700" - GLR VOR MON PROGRAM.
9. PROFILE LINE 6: CHANGED OM FROM 2621 TO 2605 - BASED ON REALIGNMENT OF THE LOC FAC ABEAM.
10. EQUIPMENT REQUIREMENTS NOTES: ADDED ADF REQUIRED - PER 8260.19I, PARA 8-6-8A(2)(B).
11. ADDED "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON TVC VOR/DME AIRWAY RADIALS 035 CW 062" - TURN EXCEEDS 120 DEGREES.
12. ADDED "CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-LOC 9 CATS C AND D VISIBILITY 3/8 SM" - BASED ON 8260.3E, CHAPTER 3 VISIBILITY, TABLE 3-3-3.
13. CHANGED CHART PROFILE NOTE FROM "VGSI AND ILS GLIDEPATH NOT COINCIDENT" TO "VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET})" - PER CURRENT CRITERIA STANDARDS DOCUMENTATION.
14. CHANGED CHART NOTE FROM "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE GOV ALTIMETER SETTING AND INCREASE ALL DA 71 FEET AND ALL MDA 80 FEET; INCREASE S-LOC 9 AND CIRCLING CAT C/D VISIBILITY 1/4 MILE" TO "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE GRAYLING ALTIMETER SETTING AND INCREASE S-ILS 9 DA TO 1591 FEET; INCREASE ALL MDAS 80 FEET AND S-LOC 9 VISIBILITY CAT C AND D 3/8 SM, AND CIRCLING VISIBILITY CAT C AND D 1/4 SM" - PER 8260.19I, PARA 8-6-9(F)(NOTE 2)(4).
15. CHANGED CHART NOTE FROM "FOR INOPERATIVE MALSR WHEN USING GRAYLING ALTIMETER SETTING, INCREASE S-ILS ALL CATS VISIBILITY TO 7/8 MILE" TO "FOR INOPERATIVE ALS WHEN USING GOV ALTIMETER SETTING, INCREASE S-ILS 9 ALL CATS VISIBILITY TO 7/8 SM AND S-LOC 9 CATS C AND D VISIBILITY TO 1 3/4 SM" - BASED ON 8260.3E, CHAPTER 3 VISIBILITY, TABLE 3-3-3.
16. CHANGED CHART NOTE FROM "NIGHT LANDING: RWY 18,36 NA" TO "CIRCLING RWY 18, 36 NA AT NIGHT" - 20:1 PENETRATIONS EXIST.
17. ADDITIONAL FLIGHT DATA: CHANGED FROM "HOLD E, RT, 270.00 INBOUND" TO "HOLD W, LT, 096.04 INBOUND" - HOLDING OVER FAF/IAF PER IFP/ATC CHECKLIST REQUEST.
18. ADDITIONAL FLIGHT DATA: CHANGED FAS OBST FROM "1594 AAO 450122N/0844812W" TO "1578 AAO 450100N/0844751W" - NEW CONTROLLING OBSTACLE.
19. ADDITIONAL FLIGHT DATA: REMOVED "ADF OR DME REQUIRED" - NO DME AVAILABLE, NOW DOCUMENTED EQUIPMENT REQUIREMENTS NOTES.
20. ADDITIONAL FLIGHT DATA: REMOVED "CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD W BANGU LOM/GLR 4.42 DME, LT, 096.04 INBOUND" - ALTERNATE MA IS NOW PRIMARY.
21. ADDITIONAL FLIGHT DATA: ADDED 7:1 OBSTACLE "1588 AAO 450103N/0844833W" - NEW TERRAIN EVALUATION.
22. CHANGED CIRCLING CAT D MDA/HAA FROM 2080/752 TO 2040/715 AND VISIBILITY FROM 2 1/2 SM TO 2 1/4 SM - NEW CONTROLLING OBSTACLE, BASED ON 8260.3E, CHAPTER 3 VISIBILITY, TABLE 3-3-3.

08/08/2024: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 03/29/2024.

1. REMOVED TVC VOR/DME FEEDER.
2. CHANGED MAP LOC: FROM "3.88 NM AFTER BANGU LOM" TO "3.88 NM AFTER BANGU LOM/RADAR".
3. PROFILE LINE 1: CHANGED MILES OF FROM "BANGU LOM (IAF)" TO "BANGU LOM/RADAR (IAF)"
4. PROFILE LINE 3: CHANGED FAF FROM "BANGU LOM" TO "BANGU LOM/RADAR".
5. PROFILE LINE 4: CHANGED MIN ALT FROM "BANGU LOM 2700" TO "BANGU LOM/RADAR 2700".
6. EQUIPMENT REQUIREMENT NOTES: ADDED "RADAR REQUIRED FOR PROCEDURE ENTRY".
7. REMOVED "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON TVC VOR/DME AIRWAY RADIALS 035 CW 062".

COORDINATED WITH:

A4A

☒

ALPA

☒

AOPA

☒

APA

☐

HAI

☐

NBAA

☒

OTHER: ZMP, AMGR

FLIGHT CHECKED BY

GLEN FREEMAN

Digitally signed by

JOSEPH L ZEDER

Aug 12, 2024

OFFICE

FIOG

DATE

08/26/2024

DEVELOPED BY

CASIMIR L. TABAKA (SILVIA YOUNG)

Digitally signed by

JOSEPH L ZEDER

Aug 12, 2024

OFFICE

AJV-A432

DATE

03/29/2024

APPROVED BY

CASIMIR L. TABAKA

Digitally signed by

JOSEPH L ZEDER

Aug 12, 2024

OFFICE

AJV-A432

DATE

TITLE

MANAGER