

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33

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> MESQUITE	<u>AIRPORT ID</u> 67L	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 2	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> MESQUITE	<u>STATE</u> NV
<u>AIRPORT ELEVATION</u> 1978	<u>TDZE</u> 1936	<u>SUPERSEDED</u> RNAV (GPS) Z RWY 2	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>DATED</u> 09/13/2018	<u>MAG VAR</u> 11E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 10 OCTOBER 2019	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 2020

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>
MMM VORTAC		JONOT		TF	FO	1.00	185.00	10.53	6400
JONOT	IF/IAF	APEJY		TF	FB	1.00	043.25	9.99	4900
APEJY	FAF	ESSDE/5.42 NM TO OYUDU		TF	FB	0.30	023.31	3.70	
ESSDE/5.42 NM TO OYUDU		OYUDU	MAP	TF	FO	0.30	023.31	5.42	
OYUDU	MAP	2340 MSL		CA			023.31		
2340 MSL		ZEXOP		DF	FB	1.00			
ZEXOP		UTI VOR/DME		TF	FO	1.00	068.38	21.29	9300

MISSED APPROACH

MAP:

LP: OYUDU
 LNAV: OYUDU

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 9300 DIRECT ZEXOP AND CLIMBING RIGHT TURN ON TRACK 068.38 TO UTI VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 9300.
 *MISSED APPROACH REQUIRES MINIMUM CLIMB OF 258 FEET PER NM TO 6200.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF (IAF)				
2.	HOLD SW JONOT, LT, 043.25 INBOUND, 6400 FT. IN LIEU OF PT (IAF), MAX 9200.							
3. FAC:	023.31	FAF: APEJY	DIST FAF TO MAP: 9.12	DIST FAF TO THLD: 9.37				
4. MIN ALT:	JONOT 6400, APEJY 4900, ESSDE/5.42 NM TO OYUDU 3720							
5. DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	GS ANT:				
6. MIN GP INCPT:	GP ALT AT FAF :			OM:	MM:	IM:		
7. GP ANGLE:	34:1: IS CLEAR	20:1: IS CLEAR	TCH:					
8. MSA FROM:	OYUDU 9200							

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: VDP NA WHEN USING ST GEORGE ALTIMETER SETTING.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON MMM VORTAC AIRWAY RADIALS 136 CW 210.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ST GEORGE ALTIMETER SETTING AND INCREASE ALL MDAS 200 FEET AND LP* AND LNAV* CATS C/D VISIBILITY 5/8 SM.
CHART NOTE: CIRCLING NA FOR CAT D W OF RWY 2-20.
CHART NOTE: CIRCLING RWY 20 NA AT NIGHT.

ADDITIONAL FLIGHT DATA:

FICTITIOUS THRESHOLD POINT: (CFVWG) DO NOT CHART.
CHART CIRCLING ICON.
APEJY TO RW02: 3.00/40.00.
CHART PLANVIEW NOTE: FINAL APPROACH COURSE OFFSET 5.01 DEGREES.
CHART VDP AT 1.08 NM TO OYUDU
WAAS CHANNEL #69641
REFERENCE PATH ID: W02A
CHART FAS OBST: 2075 TOWER 364618N/1140605W.
2166 AAO 364502N/1140649W.
FAC CROSSES RWY C/L EXTENDED 1500 FT FROM THLD.
HOLD W, RT, 079.00 INBOUND
FTP HAE: 545.1 M



MINIMUMS:

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

ALTERNATE: NA ☒

<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>
LP MDA*	2340	1	404	2340	1	404	2340	1 1/8	404	2340	1 1/8	404			
LP MDA	3080	1 1/4	1144	3080	1 1/2	1144	3080	3	1144	3080	3	1144			
LNAV MDA*	2340	1	404	2340	1	404	2340	1 1/8	404	2340	1 1/8	404			
LNAV MDA	3140	1 1/4	1204	3140	1 1/2	1204	3140	3	1204	3140	3	1204			
CIRCLING	3140	1 1/4	1162	3140	1 1/2	1162	3140	3	1162	3140	3	1162			



CHANGES - REASONS

NAME CHANGED FROM RNAV (GPS) Z RWY 2 TO RNAV (GPS) RWY 2 - PER IFP CHECKLIST: RNAV (GPS) Y RWY 2 AND RNAV (GPS) Z RWY 2 PROCEDURES, COMBINED AND RENAMED RNAV (GPS) RWY 2.

ADDED LP, LNAV MINIMA WITHOUT CLIMB GRADIENT, AND CIRCLING MINIMA - PER IFP CHECKLIST: RNAV (GPS) Y RWY 2 AND RNAV (GPS) Z RWY 2 PROCEDURES, COMBINED AND RENAMED RNAV (GPS) RWY 2.

DELETED MISSED APPROACH INSTRUCTIONS: CLIMB TO 2400 THEN CLIMBING LEFT TURN TO 11000 DIRECT MMM VORTAC AND HOLD, CONTINUE CLIMB-IN-HOLD TO 11000. **MISSED APPROACH REQUIRES MINIMUM CLIMB OF 380 FEET PER NM TO 6200 - PER IFP CHECKLIST: NEW MISSED APPROACH INSTRUCTIONS.

ADDED MISSED APPROACH INSTRUCTIONS: CLIMB TO 9300 DIRECT ZEXOP AND CLIMBING RIGHT TURN ON TRACK 068.38 TO UTI VOR/DME AND HOLD, CONTINUE CLIMB-IN-HOLD TO 9300. *MISSED APPROACH REQUIRES MINIMUM CLIMB OF 258 FEET PER NM TO 6200 - MISSED APPROACH INSTRUCTIONS ARE PER IFP CHECKLIST, ZLA REQUESTED FOR THE MISSED APPROACH TO BE CHANGED SO THAT THE PRIMARY HOLDING AIRSPACE DOES NOT INFRINGE UPON THE MOA.

DELETED CHART NOTE: **MISSED APPROACH REQUIRES MINIMUM CLIMB OF 380 FEET PER NM TO 6200; IF UNABLE TO MEET CLIMB GRADIENT, SEE RNAV (GPS) Y RWY 2 - RNAV (GPS) Y RWY 2 AND RNAV (GPS) Z RWY 2 PROCEDURES, COMBINED AND RENAMED RNAV (GPS) RWY 2.

ADDED CHART NOTE: CIRCLING NA FOR CAT D W OF RWY 2-20 - FROM RNAV (GPS) Y RWY 2 PROCEDURE AND PER IFP CHECKLIST: CIRCLING, BUILD AS PUBLISHED.

ADDED CHART NOTE: CIRCLING RWY 20 NA AT NIGHT - 20:1 PENETRATION FOR RWY 20.

ADDED CHART CIRCLING ICON - NEW CIRCLING CRITERIA HAS BEEN APPLIED.

ADDED VDP 1.08 TO OYUDU - NO 20:1 PENETRATIONS.

DELETED 7:1 OBSTACLES 2126 AAO 364448N/1140639W AND 2153 AAO 364439N/1140654W - NO LONGER A FACTOR.

ADDED 7:1 OBSTACLES 2166 AAO 364502N/1140649W - TO ACHIEVE THE LOWEST MINIMA.

FINAL APPROACH COURSE OFFSET CHANGED FROM 4.93 TO 5.01 DEGREES - IAW WITH FAA ORDER 8260.58A CHG 1, CHAPTER 3, SECTION 2 GENERAL NON-VERTICALLY GUIDED FINAL SEGMENT, PARA 3-2-1A (2). OFFSET > 5 DEGREES AND ≤ 10 DEGREES. THE COURSE MUST CROSS THE RUNWAY CENTERLINE EXTENDED AT LEAST 1500 FEET PRIOR TO LTP (5200 FEET MAXIMUM).

ADDED CHART NOTE: VDP NA WHEN USING ST GEORGE ALTIMETER SETTING - ST GEORGE IS A BACKUP ALTIMETER SOURCE, THE NOTE IS REQUIRED IAW WITH FAA ORDER 8260.19H, CHAPTER 8, PARA 8-6-9E (9).

STEPDOWN FIX CHANGED FROM ESSDE/5.04 NM "TO" ESSDE/5.42 NM - STEPDOWN FIX MINIMUM ALTITUDE INCREASED FROM 3600 TO 3720 DUE TO NEW OBSTACLE DATA: AAO 364121.55N/1140912.17W, 2988 MSL.

APEJY TO ESSDE/5.42 NM TO OYUDU DISTANCE CHANGED FROM 4.08 TO 3.70 - STEPDOWN FIX ESSDE MOVED 2285 FT SW.

ESSDE/5.42 NM TO OYUDU TO OYUDU DISTANCE CHANGE FROM 5.04 TO 5.42 - STEPDOWN FIX ESSDE MOVED 2285 FT SW.

STEPDOWN MINIMUM ALTITUDE CHANGED FROM 3600 TO 3720 - NEW OBSTACLE DATA: AAO 364121.55N/1140912.17W, 2988 FT MSL.

CHART PLANVIEW NOTE CHANGED FROM PROCEDURE NA FOR ARRIVALS AT MMM VORTAC ON V235 NORTHWEST BOUND AND ARRIVALS ON MMM VORTAC AIRWAY RADIALS 196 CW 210 "TO" PROCEDURE NA FOR ARRIVAL ON MMM VORTAC AIRWAY RADIALS 136 CW 210 - PUBLISHED NOTE NO LONGER MEETS CRITERIA.

FAS DATA BLOCK CHANGES AND REASONS:

LTP/FTP LATITUDE/ LONGITUDE CHANGED FROM 364936.4970N/1140335.2780W TO 364936.5420N/1140335.2350W - FINAL APPROACH COURSE OFFSET CHANGED FROM 4.93 TO 5.01 DEGREES.

FPAP LATITUDE/ LONGITUDE CHANGED FROM 365050.2100N/1140232.7400W TO 365050.1755N/1140232.5645W - FINAL APPROACH COURSE OFFSET CHANGED FROM 4.93 TO 5.01 DEGREES.

CRC REMAINDER CHANGED FROM 7B264EA9 TO B665C2A7 - RESULT OF FAS DATA BLOCK INFORMATION CHANGES.

REMOVED ROUTE INDICATOR 'Z' - PROCEDURE RENAMED TO REMOVE 'Z'.



COORDINATED WITH:

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

FLIGHT CHECKED BY

THOMAS E MOLOKIE

Digitally signed by
MARK D ADAMS
Aug 14, 2019

OFFICE

FICO

DATE

6/6/19

DEVELOPED BY

DEANNA M. FIELDS

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DEANNA M FIELDS
May 06, 2019

OFFICE

AJV-A421

DATE

04/03/2019

APPROVED BY

MARLON ROBINSON

Digitally signed by
CASIMIR L TABAKA
May 07, 2019

OFFICE

AJV-A420

DATE

TITLE
MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	67L
RUNWAY	RW02
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W02A
LTP/FTP LATITUDE	364936.5420N
LTP/FTP LONGITUDE	1140335.2350W
LTP/FTP ELLIPSOIDAL HEIGHT	+05451
FPAP LATITUDE	365050.1755N
FPAP LONGITUDE	1140232.5645W
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	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0
CRC REMAINDER	B665C2A7

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+05716
FPAP ORTHOMETRIC HEIGHT	+05716

