

**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 ID</u> KIFP	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 16	<u>ORIGINAL/AMENDMENT</u> 3	<u>CITY</u> BULLHEAD CITY	<u>STATE</u> AZ		
<u>AIRPORT ELEVATION</u> 707	<u>TDZE</u> 646	<u>SUPERSEDED</u> RNAV (GPS) RWY 16	<u>ORIGINAL/AMENDMENT</u> 2C	<u>DATED</u> 01/03/2019	<u>MAG VAR</u> 12E	<u>EPOCH YEAR</u> 2005
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 23 FEBRUARY 2023	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
GFS VORTAC		LAKIY		TF	FO	1.00	039.23	33.64	8000
EED VORTAC		LAKIY		TF	FO	1.00	337.19	43.65	8000
IGM VOR/DME		LAKIY		TF	FO	1.00	279.09	37.14	8200
LYNSY	IAF	LAKIY	NOPT	TF	FB	1.00	140.28	12.11	6600
LAKIY	IF/IAF	MEBDE		TF	FB	1.00	149.97	11.21	3300
MEBDE	FAF	UFKUN/4.22 NM TO RW16		TF	FB	0.30	164.45	4.02	
UFKUN/4.22 NM TO RW16		RW16	MAP	TF	FO	0.30	164.45	4.22	
RW16	MAP	1048 MSL		CA			164.45		
1048 MSL		CALRA		DF	FO	1.00			6300

MISSED APPROACH

MAP:

LPV: DA
 LNAV/VNAV: DA
 LNAV: RW16

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 6300 DIRECT CALRA AND HOLD, CONTINUE CLIMB-IN-HOLD TO 6300.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. **PT** **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)

2. HOLD NW LAKIY, RT, 149.97 INBOUND, 6600 FT. IN LIEU OF PT (IAF), MAX 14000.

3. **FAC:** 164.45 **FAF:** MEBDE **DIST FAF TO MAP:** 8.24 **DIST FAF TO THLD:** 8.24

4. **MIN ALT:** LAKIY 6600, MEBDE 3300, UFKUN/4.22 NM TO RW16 2020

5. **DIST TO THLD FROM OM:** **MM:** **IM:** **150 HAT:** **402 HAT:** 1.17 **GS ANT:**

6. **MIN GP INCPT:** 3300 **GP ALT AT PFAF:** MEBDE **OM:** **MM:** **IM:**

7. **GP ANGLE:** 3.00 **34:1:** IS NOT CLEAR **20:1:** IS CLEAR **TCH:** 49.2

8. **MSA FROM:** RW16 8200

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: PROCEDURE NA AT NIGHT.
 CHART NOTE: RWY 16 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
 CHART NOTE: BARO-VNAV NA.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON GFS VORTAC AIRWAY RADIALS 308 CW 107.
 CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON EED VORTAC AIRWAY RADIALS 257 CW 026.

ADDITIONAL FLIGHT DATA:

HOLD S, LT, 344.47 INBOUND.
 CHART FAS OBST: 1238 TOWER (04-021779) 351241N/1143323W.
 1599 AAO 351840N/1143238W.
 CHART VDP AT 2.57 NM TO RW16.
 WAAS CHANNEL # 82624
 REFERENCE PATH ID: W16A
 LTP HAE: 160.6 M

MINIMUMS:

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

ALTERNATE: NA CAT A 800-2 1/2, CAT B 900-2 1/2, CAT C 1100-3, CAT D 1700-3, NA WHEN LOCAL WEATHER NOT AVAILABLE.

CATEGORY:	A			B			C			D			E		
	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
LPV DA	1048	1 1/8	402	1048	1 1/8	402	1048	1 1/8	402	1048	1 1/8	402			
LNAV/VNAV DA	1500	2 1/2	854	1500	2 1/2	854	1500	2 1/2	854	1500	2 1/2	854			
LNAV MDA	1500	1	854	1500	1 1/4	854	1500	2 1/2	854	1500	2 1/2	854			
CIRCLING	1500	1	793	1560	1 1/4	853	1800	3	1093	2340	3	1633			



CHANGES - REASONS

1. TERMINAL ROUTE GFS VORTAC TO LAKIY RNP VALUE CHANGED FROM 2.00 TO 1.00 - CORRECTED RNP VALUES PER 8260.58B.
2. TERMINAL ROUTE GFS VORTAC TO LAKIY COURSE CHANGED FROM 038.54 TO 039.23 AND DISTANCE CHANGED FROM 32.60 TO 33.64 - LAKIY RELOCATION 1.11 NM EAST.
3. TERMINAL ROUTE EED VORTAC TO LAKIY RNP VALUE CHANGED FROM 2.00 TO 1.00 - CORRECTED RNP VALUES PER 8260.58B.
4. TERMINAL ROUTE EED VORTAC TO LAKIY COURSE CHANGED FROM 335.73 TO 337.19 AND DISTANCE CHANGED FROM 43.53 TO 43.65 - LAKIY RELOCATION 1.11 NM EAST.
5. TERMINAL ROUTE IGM VOR/DME TO LAKIY RNP VALUE CHANGED FROM 2.00 TO 1.00 - CORRECTED RNP VALUES PER 8260.58B.
6. TERMINAL ROUTE IGM VOR/DME TO LAKIY COURSE CHANGED FROM 278.06 TO 279.09 AND DISTANCE CHANGED FROM 38.02 TO 37.14 - LAKIY RELOCATION 1.11 NM EAST.
7. TERMINAL ROUTE IGM VOR/DME TO LAKIY ALTITUDE CHANGED FROM 8100 TO 8200 - NEW CONTROLLING OBSTRUCTION.
8. TERMINAL ROUTE LYSY TO LAKIY COURSE CHANGED FROM 145.52 TO 140.28 AND DISTANCE CHANGED FROM 11.97 TO 12.11 - LAKIY RELOCATION 1.11 NM EAST.
9. TERMINAL ROUTE LAKIY TO MEBDE COURSE CHANGED FROM 144.29 TO 149.97 AND DISTANCE CHANGED FROM 11.26 TO 11.21 - LAKIY RELOCATION 1.11 NM EAST AND MEBDE RELOCATION 62.78 FT SOUTH.
10. TERMINAL ROUTE MEBDE TO UFKUN ADDED STEPDOWN - 220 FT REDUCTION IN MIIMUMS PER FPT REQUEST TO GAIN LOWEST POSSIBLE MINIMA.
11. TERMINAL ROUTE UFKUN TO RW16 ADDED STEPDOWN - 220 FT REDUCTION IN MIIMUMS PER FPT REQUEST TO GAIN LOWEST POSSIBLE MINIMA.
12. TERMINAL ROUTE RW16 TO CA LEG VALUE CHANGED FROM 1107 MSL TO 1048 MSL - DUE TO REDUCTION IN MINIMUMS.
13. TERMINAL ROUTE 1048 MSL TO CALRA UPDATED CA LEG VALUE FROM 1048 TO 1107 - DUE TO REDUCTION IN MINIMUMS.
14. PROFILE SECTION LINE 2 COURSE CHANGED FROM 144.29 TO 149.97 - DUE TO LAKIY RELOCATION CAUSED BY PROCEDURE TCH CHANGE.
15. PROFILE SECTION LINE 3 DIST FAF TO MAP AND DIST FAF TO THLD CHANGED FROM 8.25 TO 8.24 - PFAF RELOCATED DUE TO CHANGE IN PROCEDURE TCH.
16. PROFILE SECTION LINE 4 MIN ALT ADDED UFKUN/4.22 NM TO RW 16 2020 - ADDED STEPDOWN TO GAIN LOWEST POSSIBLE MINIMA PER ATC/FPT REQUEST.
17. PROFILE SECTION LINE 5 ADDED 402 HAT: 1.17 - LPV MINIMUMS ADDED PER ATC/FPT. IAW 8260.19I, 8-6-7 E.
18. PROFILE SECTION LINE 7 TCH ADDED 49.2 - IAW 8260.19I, 8-6-7 G & MATCH VGSI TCH.
19. PROFILE SECTION LINE 8 MSA FROM CHANGED RW16 8400 TO RW16 8200 - NEW CONTROLLING OBSTRUCTION.
20. PBN REQUIREMENTS NOTE SECTION CHANGED RNP APCH TO RNP APCH - GPS - 8260.19I, 8-6-8 B (2).
21. NOTES SECTION ADDED CHART NOTE: BARO-VNAV NA - DUE TO PRECIPITOUS TERRAIN IN FINAL.
22. NOTES SECTION REMOVED CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}) - VGSI & RNAV GLIDEPATH NOW COINCIDENT IAW 8260.19I 8-6-9 M.
23. ADDITIONAL FLIGHT DATA SECTION REMOVED CHART CIRCLING ICON - NO LONGER REQUIRED IAW MEMO #279: REVISED CIRCLING MANEUVERING AREA CRITERIA IMPLEMENTATION PLAN.
24. ADDITIONAL FLIGHT DATA SECTION REMOVED MEBDE TO RW16: 3.00/46 - DUE TO THE ADDITION OF APV MINIMUMS.
25. ADDITIONAL FLIGHT DATA SECTION CHANGED CHART VDP AT 3.68 NM TO RW16 TO CHART VDP AT 2.57 NM TO RW16 - MDA LOWERED TO 1500.
26. ADDITIONAL FLIGHT DATA SECTION CHANGED FAS OBST: 1415 AAO 351656N/1143308W, 1400 AAO 351739N/1143325W TO CHART FAS OBST: 1238 TOWER (04-021779) 351241N/1143323W - NEW TARGETS EVALUATION/IAW 8260.19I 8-6-10 E.
27. ADDITIONAL FLIGHT DATA SECTION CHANGED 1440 AAO 351747N/1143308W TO 1580 AAO 351840N/1143238W PER EVALUATION.
28. ADDITIONAL FLIGHT DATA SECTION CHANGED LTP HAE: 160.7 M TO 160.6 M - THRESHOLD ELLIPSOID ELEVATION CHANGED FROM 527.1 TO 527.0.
29. ALTERNATE MINIMUMS CHANGED FROM STANDARD - CAT A, B 1300-2, CAT C 1300-3, CAT D 1700-3 TO READ CAT A 800-2 1/2, CAT B 900-2 1/2, CAT C 1100-3, CAT D 1700-3- NA WHEN LOCAL WEATHER NOT AVAILABLE - NEW LOWER MINIMUMS & 8260.3E, CHAPT 3.
30. MINIMUMS SECTION LPV DA MINIMUMS ADDED PER ATC/FPT REQUEST.
31. MINIMUMS SECTION LP MDA MINIMUMS REMOVED PER ATC/FPT REQUEST.
32. MINIMUMS SECTION LNAV/VNAV DA MINIMUMS ADDED PER ATC/FPT REQUEST.
33. MINIMUMS SECTION LNAV MDA ALL CATS MDA/HAT CHANGED FROM 1860/1214 TO 1500/854 - DUE TO THE ADDITION OF AN LNAV FINAL STEPDOWN FIX.
34. MINIMUMS SECTION LNAV MDA CAT A VISIBILITY CHANGED FROM 1 1/4 TO 1, CAT B VISIBILITY FROM 1 1/2 TO 1 1/4, CAT C VISIBILITY FROM 3 TO 2 1/2, AND CAT D VISIBILITY FROM 3 TO 2 1/2 - DUE TO THE ADDITION OF AN LNAV FINAL STEPDOWN FIX.
35. MINIMUMS SECTION CIRCLING MDA/HAA CAT A CHANGED FROM 1860/1153 TO 1500/793, CAT B FROM 1860/1153 TO 1560/853, AND CAT C FROM 1860/1153 TO 1800/1093 - DUE TO THE ADDITION OF AN LNAV FINAL STEPDOWN FIX THAT ALLOW FOR LOWER CIRC MINIMUMS.
36. MINIMUMS SECTION CIRCLING CAT A VISIBILITY CHANGED FROM 1 1/4 TO 1, AND CAT B VISIBILITY FROM 1 1/2 TO 1 1/4 - DUE TO THE ADDITION OF AN LNAV FINAL STEPDOWN FIX WE CAN GAIN LOWER CIRC MINIMUMS.
37. COORDINATED WITH SECTION ADDED A4A AND REMOVED APA PER 8260.19I PARA 8-6-13A.
38. FAS DATA LTP/FTP LATITUDE CHANGED FROM 350958.5645N TO 350958.5650N - DUE TO NEW RUNWAY SURVEY DATA IN AIRNAV.
39. FAS DATA LTP/FTP ELLIPSOIDAL HEIGHT CHANGED FROM +01607 TO +01606 - DUE THRESHOLD ELLIPSOID ELEVATION CHANGE FROM 527.1 TO 527.0.
40. FAS DATA FPAP LATITUDE CHANGED FROM 350829.4935N TO 350829.4940N - DUE TO NEW RUNWAY SURVEY DATA IN AIRNAV.
41. FAS DATA FPAP LONGITUDE CHANGED FROM 1143330.0475W TO 1143330.0465W - DUE TO NEW RUNWAY SURVEY DATA IN AIRNAV.
42. FAS DATA THRESHOLD CROSSING HEIGHT (TCH) CHANGED FROM 00046.0 TO 00049.2 - TO MATCH VGSI TCH.
43. FAS DATA VERTICAL ALERT LIMIT (VAL) CHANGED FROM 0.0 TO 50.0 - DUE TO ADDITION OF LPV LINE OF MINIMA.
44. FAS DATA CRC REMAINDER CHANGED FROM 78649968 TO EE145AA0 - NEW RUNWAY SURVEY DATA IN AIRNAV AND CHANGE TO THE TCH & VAL.
45. CHANGED ADDITIONAL FLIGHT DATA NOTE FROM "PROCEDURE NA FOR ARRIVAL ON GFS VORTAC AIRWAY RADIALS 308 CW 054" TO "PROCEDURE NA FOR ARRIVAL ON GFS VORTAC AIRWAY RADIALS 308 CW 107 - TURN EXCEEDS 90 DEGREES.



COORDINATED WITH:

A4A **ALPA** **AOPA** **APA** **HAI** **NBAA**

FLIGHT CHECKED BY

GARY BELL

DEVELOPED BY

RAKE MCGRAW (NEERAJ VERMA)

APPROVED BY

MARLON ROBINSON

OTHER: ZLA, LAS APP, IFP ATCT, AMGR, AZ AERO, NV AERO, ATA

Digitally signed by

RAKE MCGRAW

Jan 13, 2023

OFFICE

FPO

DATE

01/11/2023

Digitally signed by

RAKE MCGRAW

Jan 13, 2023

OFFICE

AJV-A422

DATE

10/03/2022

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RAKE MCGRAW

Jan 13, 2023

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AJV-A422

DATE

02/23/2023

TITLE

MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KIFP
RUNWAY	RW16
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W16A
LTP/FTP LATITUDE	350958.5650N
LTP/FTP LONGITUDE	1143336.7565W
LTP/FTP ELLIPSOIDAL HEIGHT	+01606
FPAP LATITUDE	350829.4940N
FPAP LONGITUDE	1143330.0465W
THRESHOLD CROSSING HEIGHT (TCH)	00049.2
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0160
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	EE145AA0

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K2
LTP ORTHOMETRIC HEIGHT	+01907
FPAP ORTHOMETRIC HEIGHT	+01907

