

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> UMP	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 33	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> INDIANAPOLIS	<u>STATE</u> IN
<u>AIRPORT ELEVATION</u> 811	<u>TDZE</u> 811	<u>SUPERSEDED</u> RNAV (GPS) RWY 33	<u>DATED</u> 03/26/2020	<u>MAG VAR</u> 3W
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>EPOCH YEAR</u> 1995
			<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>
HOMAR		ACIYU		TF	FB	1.00	249.31	7.15	2900
ACIYU	IAF	INOYO	NOPT	TF	FB	1.00	238.74	7.00	2900
AKECA	IAF	INOYO	NOPT	TF	FB	1.00	058.58	7.00	2900
INOYO	IF/IAF	MEWRO		TF	FB	1.00	328.66	6.14	2400
MEWRO	FAF	TEYOP/2.00 NM TO RW33		TF	FB	0.30	328.65	2.86	
TEYOP/2.00 NM TO RW33		RW33	MAP	TF	FO	0.30	328.65	2.00	
RW33	MAP	1074 MSL		CA			328.65		
1074 MSL		AYUDA		DF	FO	1.00			2500

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW33

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2500 DIRECT AYUDA AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2.	HOLD SE INOYO, RT, 328.66 INBOUND, 2900 FT. IN LIEU OF PT (IAF), MAX 6000.				
3. FAC:	328.65	FAF: MEWRO	DIST FAF TO MAP:	4.86	DIST FAF TO THLD: 4.86
4. MIN ALT:	INOYO 2900, MEWRO 2400, TEYOP/2.00 NM TO RW33 1480				
5. DIST TO THLD FROM OM:		MM: IM:	150 HAT:	263 HAT: 0.70	GS ANT:
6. MIN GP INCPT:	2400	GP ALT AT PFAF: MEWRO 2400		OM:	MM:
7. GP ANGLE:	3.00	34:1: IS NOT CLEAR 20:1: IS CLEAR	TCH: 40.0		IM:
8. MSA FROM:	RW33 2900				



PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: RWY 33 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: BARO-VNAV AND VDP NA WHEN USING IND ALTIMETER SETTING.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT HOMAR ON V221 NORTHEAST BOUND AND ON V50 EAST BOUND.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE IND ALTIMETER SETTING AND INCREASE LPV DA TO 1117 FEET; INCREASE LNAV/VNAV DA TO 1260 FEET AND ALL VISIBILITIES 1/4 SM. INCREASE ALL MDAS 60 FEET AND LNAV VISIBILITY CAT C 1/4 SM.

ADDITIONAL FLIGHT DATA:

HOLD NW, RT, 148.44 INBOUND.
CHART FAS OBST: 962 TOWER (18-027186) 395524N/0860141W.
CHART VDP AT 1.03 NM TO RW33.
WAAS CHANNEL # 40247
REFERENCE PATH ID: W33A
CHART CIRCLING ICON.
LTP HAE: 213.4 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - 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
LPV DA	1074	1	263	1074	1	263	1074	1	263		NA				
LNAV/VNAV DA	1217	1 1/8	406	1217	1 1/8	406	1217	1 1/8	406		NA				
LNAV MDA	1220	1	409	1220	1	409	1220	1 1/8	409		NA				
CIRCLING	1320	1	509	1340	1	529	1340	1 1/2	529		NA				



CHANGES - REASONS

1. TERMINAL ROUTES: CHANGED FEEDER HOMAR-ACIYU COURSE/DISTANCE FROM 247.02/9.12 TO 249.31/7.15 - PER FPT REQUEST, ACIYU MOVED 2.0 NM NORTHEAST.
2. TERMINAL ROUTES: REMOVED FEEDER ZAVNE-AKECA AND ALL ASSOCIATED DATA - PER FPT REQUEST.
3. TERMINAL ROUTES: CHANGED INITIAL: IAF ACIYU-INOYO COURSE/DISTANCE FROM 238.73/5.00 TO 238.74/7.00 - PER FPT REQUEST, ACIYU MOVED 2.0 NM NORTHEAST.
4. TERMINAL ROUTES: CHANGED INITIAL: IAF AKECA-INOYO COURSE/DISTANCE FROM 058.61/5.00 TO 058.58/7.00 - PER FPT REQUEST, AKECA MOVED 2.0 NM SOUTHWEST.
5. TERMINAL ROUTES: CHANGED INTERMEDIATE: IF/IAF INOYO-MEWRO COURSE/DISTANCE FROM 328.67/6.20 TO 328.66/6.14 - PER FPT REQUEST, MEWRO MOVED 375.70 FT SOUTHEAST.
6. TERMINAL ROUTES: CHANGED FINAL: FAF MEWRO-TEYOP COURSE/DISTANCE FROM 328.62/2.00 TO 328.65/2.86 - PER FPT REQUEST, TEYOP MOVED 61.43 FT NORTHEAST.
7. TERMINAL ROUTES: CHANGED MAP: FROM 'RW33 MAP' TO '1074 MSL CA', COURSE FROM 328.62 TO 328.65 - IAW 8260.58C 3-5-2.B, CA ALTITUDE 1074 IS THE LPV DA, LPV ADDED PER FPT REQUEST, COURSE TO MATCH FAC.
8. MISSED APPROACH: ADDED MAP: LPV DA, LNAV/VNAV DA - PER FPT REQUEST.
9. PROFILE LINE 2: CHANGED HOLD INBOUND FROM 328.67 TO 328.66 - TO MATCH INTERMEDIATE COURSE SEGMENT IAW 8260.19J 8-6-7.B(2).
10. PROFILE LINE 3: CHANGED FAC FROM 328.62 TO 328.65, DISTANCE FAF TO MAP/THLD: FROM 4.80 TO 4.86 - FAF MEWRO DISTANCE 2.86 + STEPDOWN TEYOP DISTANCE 2.00 = 4.86.
11. PROFILE LINE 5: ADDED '263 HAT: 0.70' - PER FPT REQUEST, ADDED LPV MIN.
12. PROFILE LINE 6: ADDED 'MIN GP INCPT: 2400', 'GP ALT AT PFAF: MEWRO 2400' - PER FPT REQUEST, ADDED LPV MIN.
13. PROFILE LINE 7: ADDED 'GP ANGLE: 3.00' AND 'TCH: 40' – ADDED LPV LINES OF MINIMA PER FPT REQUEST IAW 8260.19J 8-6-7.G(1),(2).
14. PROFILE LINE 7: CHANGED 34:1 FROM 'IS CLEAR' TO 'IS NOT CLEAR' AND ADDED 20:1 'IS CLEAR' - IAW 8260.19J 8-6-7.G(3).
15. NOTES: CHANGED ALTIMETER CHART NOTE: FROM 'WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE INDIANAPOLIS INTL ALTIMETER SETTING AND INCREASE ALL MDA 60 FT AND LNAV CAT C VISIBILITY 1/4 MILE' TO 'WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE IND ALTIMETER SETTING AND INCREASE LPV DA TO 1117 FEET; INCREASE LNAV/VNAV DA TO 1260 FEET AND ALL VISIBILITIES 1/4 SM. INCREASE ALL MDAS 60 FEET AND LNAV VISIBILITY CAT C 1/4 SM' - IAW 8260.19J 8-6-10.F(4), PER FPT ADDED LPV, LNAV/VNAV MINS.
16. NOTES: CHANGE CHART PLANVIEW NOTE: FROM 'PROCEDURE NA FOR ARRIVALS AT HOMAR VIA V221 NORTHEAST BOUND AND ARRIVALS AT ZAYNE VIA V51-97 NORTHWEST BOUND' TO 'PROCEDURE NA FOR ARRIVALS AT HOMAR ON V221 NORTHEAST BOUND AND ON V50 EAST BOUND' - REMOVED FEEDER ZAVNE-AKECA PER FPT REQUEST, TURN EXCEEDS 90 DEGREES.
17. NOTES: ADDED CHART NOTE: 'FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16°C OR ABOVE 54°C' - IAW 8260.19J 8-6-10.R.
18. NOTES: CHANGED CHART NOTE: FROM 'VDP NA WHEN USING INDIANAPOLIS INTL ALTIMETER SETTING' TO 'BARO-VNAV AND VDP NA WHEN USING IND ALTIMETER SETTING' - IAW 8260.19J 8-6-10.E(8),(9).
19. ADDITIONAL FLIGHT DATA: CHANGED MISSED HOLD INBOUND FROM 148.49 TO 148.44 - TO MATCH RNAV GPS RWY 15 HILPT AYUDA INBOUND IAW 8260.19J 8-6-11.B(1).
20. ADDITIONAL FLIGHT DATA: CHANGED CHART FAS OBST FROM '992 TOWER (18-002307) 395419N/0860022W' TO '962 TOWER (18-027186) 395524N/0860141W' - LNAV CONTROLLING OBSTACLE IAW 8260.19J 8-6-11.C.
21. ADDITIONAL FLIGHT DATA: CHANGED CHART VDP TO RW33 FROM 'AT 1.14' TO 'AT 1.03' - PER FPT REQUEST STEPDOWN TEYOP MOVED 61.43 FT NORTHEAST, IAW 8260.3F 2-6-5, IAW 8260.19J 8-6-11.M(2).
22. ADDITIONAL FLIGHT DATA: ADDED 'WAAS CHANNEL # 40247', 'REFERENCE PATH ID: W33A', AND 'LTP HAE: 213.4 M' - NEW FAS DATA FOR LPV IAW 8260.19J 8-6-11.J.
23. MINIMUMS: CHANGED LNAV MDA/HAT FROM 1260/449 TO 1220/409 CATS A/B/C AND CAT C VIS FROM 1 1/4 TO 1/1/8 - PER FPT REQUEST IAW 8260.3F TABLE 3-3-1, NEW CONTROLLING OBSTACLE.
24. MINIMUMS: ADDED LPV DA/HAT/VIS 1074/263/1 CATS A/B/C AND LNAV/VNAV DA/HAT/VIS 1217/406/1 1/8 CATS A/B/C - PER FPT/AIRPORT REQUEST: NO VISIBILITY LOWER THAN 1 SM.
25. FAS DATA BLOCK: ADDED FPAP COORDINATES 395704.6880N/0860333.1655W, COURSE WIDTH AT THLD 106.75, LENGTH OFFSET 1528, HAL/VAL 40.0/50.0 AND SIAP-CALCULATED CRC REMAINDER 4E55724C - ADDED LPV PER FPT REQUEST.

COORDINATED WITH:

A4A

ALPA

X

AOPA

X

APA

X

HAI

NBAA

X

OTHER: ZID, IND APP CON, AMGR, ATA

FLIGHT CHECKED BY

SCOTT WIEBE

Digitally signed by
ROBERT G HAMILTON
Apr 01, 2025

OFFICE

AJF

DATE

03/28/2025

DEVELOPED BY

RAFAEL A MARTINEZ

Digitally signed by
RAFAEL A MARTINEZ
Oct 16, 2024

OFFICE

AJV-A433

DATE

09/09/2024

APPROVED BY

BEV L BORDY

Digitally signed by
ROBERT G HAMILTON
Apr 01, 2025

OFFICE

AJV-A430

DATE

TITLE
MANAGER



FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KUMP
RUNWAY	RW33
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W33A
LTP/FTP LATITUDE	395551.1085N
LTP/FTP LONGITUDE	0860227.7275W
LTP/FTP ELLIPSOIDAL HEIGHT	+02134
FPAP LATITUDE	395704.6880N
FPAP LONGITUDE	0860333.1655W
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	1528
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	4E55724C

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02473
FPAP ORTHOMETRIC HEIGHT	+02473



**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD**

<u>AIRPORT ID</u> UMP	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 33	<u>AMDT NO.</u> 2	<u>CITY</u> INDIANAPOLIS	<u>STATE</u> IN	<u>AIRPORT ELEVATION</u> 811	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM
HOMAR

TO
ACIYU

<u>RNP</u> 1.00	<u>DISTANCE</u> 7.15	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TOWER (18-001192)	395203.00N/0854312.00W	1410	500	50	5D	1000				AT490	2900
TERRAIN	395151.00N/0853727.00W	1003 (1000)								AS1500	2500

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM
ACIYU

TO
INOYO

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
1.00	7.00										
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
AAO	395036.00N/0854736.00W	1142	215	8	4B	1000				AT758	2900
TERRAIN	395036.00N/0854739.00W	941 (900)								AS1500	2400

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



INITIAL

FROM

AKECA

TO

INOYO

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>	<u>HMAS</u>				
1.00	7.00										
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TOWER (18-000683)	394603.00N/0860012.00W	1875	500	50	5D	1000					2900
TERRAIN	394357.00N/0860239.00W	882 (900)								AS1500	2400

COMPUTATIONS

ALTKIASKTASHAAVKTWTRBADTACOURSE CHANGEDVEBVEB OCSRF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM

INOYO (IF/IAF)

TO

MEWRO

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>			<u>HAT</u>	<u>HMAS</u>				
1.00	6.14										
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TOWER (18-002444)	394939.08N/0855850.95W	1303	500	50	5D	500					1400
TERRAIN	394903.00N/0855412.00W	908 (900)								AS1500	2400

COMPUTATIONS

ALTKIASKTASHAAVKTWTRBADTACOURSE CHANGEDVEBVEB OCSRF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LPV

FROM

MEWRO

TO

RW33

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.30	4.86		DA				263				
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TREE (18-033849)	395536.18N/0860210.78W	868	20	3	1A		34.00:1				1074

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV/VNAV

FROM

MEWRO

TO

RW33

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.30	4.86		DA				406				
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TREE (18-033944)	395509.07N/0860111.00W	938	20	3	1A		23.38:1				1217

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV

FROM

MEWRO

TO

TEYOP/2.00 NM TO RW33

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u>			
0.30	2.86										
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
AAO	395121.00N/0860000.00W	1083	215	8	4B	250				RA60 DG87	1480

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LNAV STEPDOWN

FROM

TEYOP/2.00 NM TO RW33

TO

RW33

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30	2.00		RW33		409						
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TOWER (18-027186)	395523.59N/0860140.63W	962	20	3	1A	250					1220

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

HOLD-IN-LIEU OF PT

FROM

INOYO

TO

P-5

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
		P-5									
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TOWER (18-000611)	394658.32N/0854739.47W	1256	20	3	1A	1000				AT644	2900
TERRAIN	394903.00N/0855412.00W	908 (900)								AS1500	2400

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSED APPROACH: LPV

FROM

DA

TO

AYUDA

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>	<u>HMAS</u>					
0.30						881					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
							ASC				2500
TOWER (18-000042)	400247.68N/0860953.93W	1235	20	3	1A	1000					2300
TERRAIN	400530.00N/0861042.00W	951 (1000)								AS1500	2500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LNAV/VNAV

FROM

DA

TO

AYUDA

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>	<u>HMAS</u>					
0.30						1067					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
							ASC				2500
TOWER (18-000042)	400247.68N/0860953.93W	1235	20	3	1A	1000					2300
TERRAIN	400530.00N/0861042.00W	951 (1000)								AS1500	2500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSSED APPROACH: LNAV

FROM

RW33

TO

AYUDA

<u>RNP</u> 0.30-1.00	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u> 1120			
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
							ASC				2500
TOWER (18-000042)	400247.68N/0860953.93W	1235	20	3	1A	1000					2300
TERRAIN	400530.00N/0861042.00W	951 (1000)								AS1500	2500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

CIRCLING

☐ ALL CATS

☒ CAT A

☒ CAT B

☒ CAT C

☐ CAT D

☐ CAT E

☐ NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
TOWER (18-027186)	395523.59N/0860140.63W	1.30	509	962	20	3	1A	300		XP58	1320
CATEGORY B											
TOWER (18-001861)	395446.20N/0860332.20W	1.81	529	1000	50	20	2C	300		XP40	1340
CATEGORY C											
TOWER (18-026465)	395740.02N/0860052.89W	2.84	529	1016	20	3	1A	300		XP24	1340

CIRCLING REMARKS:

XP: ADJUSTMENT ADDED TO MAINTAIN CURRENT MINIMUMS.

MSA

CENTER

RW33

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TWR (18-000683)	394603.00N/0860012.00W	173	09.9	1875	500	50	5D	1000			2900

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

IND APP CON, ZID ARTCC, HUF FSS

<u>WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>SERVICE-A</u>	<u>ADJUSTMENTS</u>
AWOS-3PT	UMP	24	UMP	0	Y	0
<u>BACK-UP WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>SERVICE-A</u>	<u>ADJUSTMENTS</u>
ASOS	IND	24	IND	17.43	Y	43

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME
KUMP 811, KIND 797
RA = 42.2.

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>	<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>	
RW15 - REIL (PCL), MIRL (PCL), PAPI-4L	NPI-G		
RW33 - MIRL (PCL), REIL (PCL), PAPI-4L	NPI-G		

<u>GLIDESLOPE ANGLE</u>	<u>ELEV RWY THRESHOLD</u>	<u>TCH</u>	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u>	<u>TCH</u>
3.00	811.2	40.0			3.50	26.8

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	☒	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	☒	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
-16C	+54C	-16C	+13.39C

CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION.
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 827 HIGH TEMP 1176.



"VISUAL PORTION OF FINAL" PENETRATIONS

FINAL TYPE	LPV, LNAV/VNAV, LNAV
34:1	
866 POLE (18-027218) 395536.730N/0860212.700W (5.92)	868 TREE (18-033849) 395536.180N/0860210.780W (4.09)
859 POLE (18-027217) 395536.730N/0860215.610W (2.69)	
<u>PENETRATIONS REMARKS:</u>	

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or

5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

TAA NOT USED, ATC REQUEST (CARRIED OVER FROM PREVIOUS PROCEDURE.)

100 FT VEGETATION USED FROM OTHER SIAPS TO THE AIRPORT.

200 FT AAO USED IN FINAL PER BRANCH POLICY.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.

PART D: AIRSPACE

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	THLD	TO 1000FT POINT	3.37
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	325.65
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	900
DISTANCE FROM	THLD	TO 1500FT POINT	4.86
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	2.21
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	325.65
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	900

THRESHOLD COORDINATES (IF STR-IN)	395551.11N/0860227.73W
ARP COORDINATES	395607.43N/0860242.24W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 33 DISTANCE 0.33 NM
FAF COORDINATES	395150.06N/0855853.69W
FIX NAME COORDINATES	

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED.

PART E: PREPARED BY

NAME	OFFICE	DATE	TITLE
RAFAEL A MARTINEZ	AJV-A433	09/09/2024	AERONAUTICAL INFORMATION SPECIALIST

