

**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> ZPH	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 1	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> ZEPHYRHILLS	<u>STATE</u> FL
<u>AIRPORT ELEVATION</u> 90	<u>TDZE</u> 82	<u>SUPERSEDED</u> RNAV (GPS) RWY 1	<u>ORIGINAL/AMENDMENT</u> 1A	<u>DATED</u> 12/05/2019
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> 07/11/2024	<u>MAG VAR</u> 6W
				<u>EPOCH YEAR</u> 2015
				<u>CANCEL/SUSPEND</u>

TAA

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>ALTITUDE</u>
1. 276/30 CW 096/30	NOPT	276/10 CW 096/10		2700
2. 276/10 CW 096/10		UFSOP	IF/IAF	2000
3. 096/30 CW 186/30		096/10 CW 186/10		2600
4. 096/10 CW 186/10		ELIJE	IAF	2000
5. 186/30 CW 276/30		186/15 CW 276/15		2200
6. 186/15 CW 276/15		ICZOR	IAF	2000

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>
ELIJE	IAF	UFSOP	NOPT	TF	FB	1.00	096.26	6.00	2000
ICZOR	IAF	UFSOP	NOPT	TF	FB	1.00	276.36	6.00	2000
UFSOP	IF/IAF	ERKAF		TF	FB	1.00	006.31	5.81	1700
ERKAF	FAF	RW01	MAP	TF	FO	0.30	006.31	4.95	
RW01	MAP	332 MSL		CA			006.31		
332 MSL		IXROV		DF	FO	1.00			2000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW01

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2000 DIRECT IXROV AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1.	PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)									
2.	HOLD S UFSOP, RT, 006.31 INBOUND, 2000 FT. IN LIEU OF PT (IF/IAF), MAX 6000.														
3.	FAC:	006.31	FAF:	ERKAF	DIST FAF TO MAP:	4.95	DIST FAF TO THLD:	4.95							
4.	MIN ALT:	UFSOP 2000, ERKAF 1700													
5.	DIST TO THLD FROM OM:		MM:		IM:		150 HAT:		250 HAT:	0.65	GS ANT:				
6.	MIN GP INCPT:	1700	GP ALT AT PFAF:	ERKAF 1700					OM:		MM:			IM:	
7.	GP ANGLE:	3.00	34:1:	IS CLEAR	20:1:	IS CLEAR	TCH:	45.0							
8.	MSA FROM:														

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -15°C OR ABOVE 54°C.

ADDITIONAL FLIGHT DATA:

HOLD N, RT, 186.31 INBOUND.
CHART FAS OBST: 392 CRANE (12-195430) 281218N/0820846W.
CHART VDP AT 1.68 NM TO RW01.
WAAS CHANNEL # 69636
REFERENCE PATH ID: W01A
CHART CIRCLING ICON.
LTP HAE: -2.2 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/4, 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	332	7/8	250	332	7/8	250	332	7/8	250	332	7/8	250			
LNAV/VNAV DA	553	1 3/8	471	553	1 3/8	471	553	1 3/8	471	553	1 3/8	471			
LNAV MDA	660	1	578	660	1	578	660	1 5/8	578	660	1 5/8	578			
CIRCLING	700	1	610	700	1	610	700	1 3/4	610	780	2 1/4	690			



CHANGES - REASONS

1. LOWERED TDZE FROM 87 TO 82 – NEW THRESHOLD LOCATION AND ELEVATION, RUNWAY 1/19 EXTENDED 1507 FEET SOUTH.
2. TERMINAL ROUTES, UFSOP TO ERKAF: REDUCED DISTANCE FROM 6.10 TO 5.81 – FAF ERKAF MOVED 1752 FEET SOUTH DUE TO RUNWAY EXTENSION.
3. TERMINAL ROUTES: DELETED FINAL STEPDOWN FIX DATRY AND ESTABLISHED SINGLE FINAL SEGMENT FROM ERKAF TO RW01 – NEW SURVEY AND CONTROLLING OBSTACLE, STEPDOWN NO LONGER PROVIDED MDA REDUCTION.
4. TERMINAL ROUTES, MISSED APPROACH CA LEG: LOWERED 337 MSL TO 332 MSL – LPV DA LOWERED FROM 337 TO 332, 8260.58C, 3-5-2.B.
5. PROFILE LINE 3: REDUCED “DIST FAF TO MAP” AND “DIST FAF TO THLD” FROM 4.96 TO 4.95 – NEW CALCULATION, THRESHOLD AND FAF MOVED DUE TO RUNWAY EXTENSION.
6. PROFILE LINE 4: DELETED DATRY – FINAL STEPDOWN FIX DATRY DELETED FROM PROCEDURE.
7. PROFILE LINE 5: REDUCED “DIST FROM THLD TO 250 HAT” FROM 0.69 TO 0.65 – NEW CALCULATION.
8. PROFILE LINE 7: CHANGED 34:1 FROM “IS NOT CLEAR” TO “IS CLEAR” – 34:1 VISUAL PENETRATIONS ARE NO LONGER PRESENT.
9. PROFILE LINE 7: CHANGED TCH FROM 40.0 TO 45.0 – TO MATCH VGSI, 8260.19I, 8-6-9.M.
10. PBN REQUIREMENTS NOTE: UPDATED FROM “RNP APCH” TO “RNP APCH – GPS” – ADDS REQUIRED SENSOR, 8260.19I, 8-6-8.B(2).
11. NOTES: DELETED “CHART NOTE: RWY 1 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED” – 34:1 VISUAL PENETRATIONS ARE NO LONGER PRESENT.
12. NOTES: DELETED “CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).” – CHANGE IN TCH MAKES RNAV GLIDEPATH COINCIDENT WITH VGSI.
13. NOTES: DELETED “CHART PLANVIEW NOTE AT ELIJE: MAX 235 KIAS” AND “CHART PLANVIEW NOTE AT ICZOR: MAX 235 KIAS” – SPEED RESTRICTIONS NO LONGER REQUIRED TO MEET LEG LENGTH AND TURN ANGLE CRITERIA.
14. ADDITIONAL FLIGHT DATA: CHANGED CHART VDP FROM “1.06 NM” TO “1.68 NM” TO RW01 – INCREASE IN LNAV MDA/HAT.
15. ADDITIONAL FLIGHT DATA: DELETED “*LNAV ONLY” – NO LONGER REQUIRED.
16. ADDITIONAL FLIGHT DATA: CHANGED CHART FAS OBST FROM “199 CRANE 281223N/0820843W” TO “392 CRANE (12-195430) 281218N/0820846W” – THRESHOLD MOVED, NEW SURVEY, AND NEW CONTROLLING OBSTACLE.
17. ADDITIONAL FLIGHT DATA: CHANGED LTP HAE FROM “-1.8 M” TO “-2.2 M” – NEW THRESHOLD LOCATION AND ELEVATION.
18. ALTERNATE MINIMUMS: CHANGED FROM “STANDARD” TO “CAT D 800-2 1/4” – INCREASE IN CIRCLING CAT D VISIBILITY.
19. MINIMUMS: DECREASED LPV ALL CATS DA FROM 337 TO 332 – NEW THRESHOLD LOCATION AND 5-FT DECREASE IN TDZE.
20. MINIMUMS: INCREASED LNAV/VNAV ALL CATS DA/HAT FROM 366/279 TO 553/471 – RUNWAY EXTENSION, NEW SURVEY, AND NEW CONTROLLING OBSTACLE.
21. MINIMUMS: INCREASED LNAV/VNAV ALL CATS VISIBILITY FROM 7/8 TO 1 3/8 SM – INCREASE IN HAT AND 8260.3E, TABLE 3-3-1.
22. MINIMUMS: INCREASED LNAV ALL CATS MDA/HAT FROM 460/373 TO 660/578 - NEW SURVEY AND NEW CONTROLLING OBSTACLE.
23. MINIMUMS: INCREASED LNAV CATS C/D VISIBILITY FROM 1 TO 1 5/8 SM - INCREASE IN HAT AND 8260.3E, TABLE 3-3-1.
24. MINIMUMS: LOWERED CIRCLING CATS A/B/C MDA/HAA FROM 740/650 TO 700/610 - NEW SURVEY AND NEW CONTROLLING OBSTACLE WITH IMPROVED ACCURACY.
25. MINIMUMS: INCREASED CIRCLING CAT D MDA/HAA FROM 740/650 TO 780/690 - NEW CONTROLLING OBSTACLE.
26. MINIMUMS: INCREASED CIRCLING CAT D VISIBILITY FROM 2 TO 2 1/4 SM - INCREASE IN HAA AND 8260.3E, TABLE 3-3-7.
27. FAS DATA BLOCK INFORMATION: CHANGED LTP/FTP LATITUDE FROM 281315.8925N TO 281257.9420N, LTP/FTP LONGITUDE FROM 0820912.1145W TO 0820912.2240W, LTP/FTP ELLIPSOIDAL HEIGHT FROM -00018 TO -00022, FPAP LATITUDE FROM 281445.2295N TO 281427.2790N, FPAP LONGITUDE FROM 0820911.5705W TO 0820911.6760W, LENGTH OFFSET FROM 1416 TO 0864, AND LTP ORTHOMETRIC HEIGHT/FPAP ORTHOMETRIC HEIGHT FROM +00244 TO +00240 - RWY 1/19 EXTENDED, NEW THRESHOLD LOCATION AND ELEVATION.
28. FAS DATA BLOCK INFORMATION: CHANGED THRESHOLD CROSSING HEIGHT (TCH) FROM 00040.0 TO 00045.0 - TCH CHANGED TO MATCH VGSI TCH.
29. FAS DATA BLOCK INFORMATION: CHANGED CRC REMAINDER FROM A62FC52D TO 631B8F64 - NEW FAS DATA CALCULATION.

COORDINATED WITH:

A4A

ALPA

X

AOPA

X

APA

HAI

NBAA

X

OTHER: TPA APP CON, ZJX, AMGR

FLIGHT CHECKED BY

PENDING

Digitally signed by

JOHN BORDY

Mar 28, 2024

OFFICE

OFFICE

AJV-A33

DATE

DATE

03/25/2024

DEVELOPED BY

JOHN BORDY (RICHARD BRUCE)

Digitally signed by

JOHN BORDY

Mar 28, 2024

Digitally signed by

APPROVED BY

JOHN BORDY

JOHN BORDY

Mar 28, 2024

OFFICE

AJV-A33

DATE

03/28/2024

TITLE

MANAGER



AIRPORT ID
ZPH

PROCEDURE NAME
RNAV (GPS) RWY 1

ORIGINAL/AMENDMENT
2

CITY
ZEPHYRHILLS

STATE
FL

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KZPH
RUNWAY	RW01
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W01A
LTP/FTP LATITUDE	281257.9420N
LTP/FTP LONGITUDE	0820912.2240W
LTP/FTP ELLIPSOIDAL HEIGHT	-00022
FPAP LATITUDE	281427.2790N
FPAP LONGITUDE	0820911.6760W
THRESHOLD CROSSING HEIGHT (TCH)	00045.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0864
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER 631B8F64

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+00240
FPAP ORTHOMETRIC HEIGHT	+00240



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

<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
ZPH	RNAV (GPS) RWY 1	2	ZEPHYRHILLS	FL	90	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

STRAIGHT-IN AREA

FROM 276/30 CW 096/30 **TO** 276/10 CW 096/10

<u>RNP</u>	<u>DISTANCE</u>	<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 (12-004378)	274910.84N/0821538.00W	1667	20	3	1A	1000					2700
TERRAIN	275318.00N/0815330.00W	449 (400)								AS1500	1900

COMPUTATIONS

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

SEGMENT REMARKS:

STRAIGHT-IN AREA

FROM 276/10 CW 096/10 **TO** UFSOP

<u>RNP</u>	<u>DISTANCE</u>	<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 (12-003409)	280441.81N/0820226.50W	624	50	20	2C	1000				AT376	2000
TERRAIN	280206.00N/0815821.00W	200 (200)								AS1500	1700

COMPUTATIONS

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

SEGMENT REMARKS:



LEFT BASE AREA

FROM

096/30 CW 186/30

TO

096/10 CW 186/10

<u>RNP</u>	<u>DISTANCE</u>	<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 (12-003314)	281057.40N/0824604.08W	1544	20	3	1A	1000					2600
TERRAIN	282539.00N/0821545.00W	301 (300)								AS1500	1800

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

LEFT BASE AREA

FROM

096/10 CW 186/10

TO

ELIJE

<u>RNP</u>	<u>DISTANCE</u>	<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 (12-002927)	280114.76N/0821751.12W	483	50	20	2C	1000				AT517	2000
TERRAIN	280233.00N/0821818.00W	141 (100)								AS1500	1600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

RIGHT BASE AREA

FROM

186/30 CW 276/30

TO

186/15 CW 276/15

<u>RNP</u>	<u>DISTANCE</u>	<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 (12-002269)	280736.00N/0813302.00W	1133	500	50	5D	1000					2200
TERRAIN	280948.00N/0820812.00W	278 (300)								AS1500	1800

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

RIGHT BASE AREA

FROM

186/15 CW 276/15

TO

ICZOR

<u>RNP</u>	<u>DISTANCE</u>	<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 (12-002037)	281237.40N/0820257.47W	726	20	3	1A	1000				AT274	2000
TERRAIN	280948.00N/0820812.00W	278 (300)								AS1500	1800

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM

ELIJE

TO

UFSOP

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
1.00	6.00				

<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 (12-001581)	280126.16N/0821046.28W	418	50	20	2C	1000				AT582	2000
TERRAIN	280012.00N/0821006.00W	150 (200)								AS1500	1700

COMPUTATIONS

ALTKIASKTASHAAVKTWTRBADTACOURSE CHANGEDVEBVEB OCSRF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INITIAL

FROM

ICZOR

TO

UFSOP

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
1.00	6.00				

<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 (12-003386)	280241.68N/0820150.80W	540	20	3	1A	1000				AT460	2000
TERRAIN	280212.00N/0820421.00W	170 (200)								AS1500	1700

COMPUTATIONS

ALTKIASKTASHAAVKTWTRBADTACOURSE CHANGEDVEBVEB OCSRF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM

UFSOP (IF/IAF)

TO

ERKAF

RNP

1.00

DISTANCE

5.81

PAT

MAP

HAT

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (12-001581)	280126.16N/0821046.28W	418	50	20	2C	500				AT782	1700
TERRAIN	280206.00N/0820736.00W	144 (100)								AS1500	1600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LPV

FROM

ERKAF

TO

RW01

RNP

0.30

DISTANCE

4.95

PAT

MAP

DA

HAT

250

HMAS

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TREE (12-194886)	281247.02N/0820907.31W	141	20	3	1A		34.00:1			SA-3	332

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV/VNAV

FROM

ERKAF

TO

RW01

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
0.30	4.95		DA	471	

<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>
CRANE (12-195430)	281217.50N/0820846.00W	392	1000	3	6A	161					553

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV

FROM

ERKAF

TO

RW01

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
0.30	4.95		RW01	578	

<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>
CRANE (12-195430)	281217.50N/0820846.00W	392	1000	3	6A	250					660

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

UFSOP

TO

P-4

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u> P-4	<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 (12-001581)	280126.16N/0821046.28W	418	50	20	2C	1000				AT582	2000
TERRAIN	280212.00N/0820421.00W	170 (200)								AS1500	1700

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

IXROV

<u>RNP</u> 0.30-1.00	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>				<u>HAT</u>	<u>HMAS</u> 143			
<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				2000
TOWER (12-000379)	282150.04N/0821126.58W	419	20	3	1A	1000				SA-11	1500
TERRAIN	281851.00N/0821039.00W	196 (200)								AS1500	1700

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

IXROV

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30-1.00								392			
<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				2000
TOWER (12-000379)	282150.04N/0821126.58W	419	20	3	1A	1000				SA-11	1500
TERRAIN	281851.00N/0821039.00W	196 (200)								AS1500	1700

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH: LNAV

FROM

RW01

TO

IXROV

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>		<u>HAT</u>		<u>HMAS</u>				
0.30-1.00								560			
<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				2000
TOWER (12-000379)	282150.04N/0821126.58W	419	20	3	1A	1000				SA-11	1500
TERRAIN	281851.00N/0821039.00W	196 (200)								AS1500	1700

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

AIRPORT ID

ZPH

PROCEDURE NAME

RNAV (GPS) RWY 1

AMDT NO.

2

CITY

ZEPHYRHILLS

STATE

FL

AIRPORT ELEVATION

90

FACILITY

RNAV

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											
CRANE (12-195430)	281217.50N/0820846.00W	1.30	610	392	1000	3	6A	300			700
CATEGORY B											
CRANE (12-195430)	281217.50N/0820846.00W	1.81	610	392	1000	3	6A	300			700
CATEGORY C											
CRANE (12-195430)	281217.50N/0820846.00W	2.84	610	392	1000	3	6A	300			700
CATEGORY D											
AAO	280951.00N/0820748.00W	3.71	690	479	215	8	4B	300			780

CIRCLING REMARKS:

MSA/ESA

CENTERRADIUS

REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

ZJX ARTCC, TPA APP CON

<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	ZPH	24	ZPH	0.04	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>
AWOS-3	VDF	24	VDF	16.31	Y	47

WX REMARKS:

RASS PRESSURE PATTERNS THE SAME.
KZPH 90, KVDF 21.
RA = 46.1.

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
			3

<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>	<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW01 - REIL (PCL), HIRL (PCL), PAPI-4L (PCL)	NPI-F	
RW05 - MIRL (PCL), PAPI-4L (PCL)	NPI-F	
RW19 - HIRL (PCL), REIL (PCL), PAPI-4L (PCL)	NPI-F	
RW23 - MIRL (PCL), PAPI-4L (PCL)	NPI-F	

<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	78.7	45.0			3.00	45.0

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
-15C	+54C	-15C	+14.82C

CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION.
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 956 HIGH TEMP 1261.

"VISUAL PORTION OF FINAL" PENETRATIONS

<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.

FOR CONTINGENCY PURPOSES: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE TAMPA EXEC ALTIMETER SETTING AND INCREASE LPV DA TO 379 FEET; INCREASE LNAV/VNAV DA TO 600 FEET; INCREASE ALL MDAS 60 FEET AND LNAV VISIBILITY CAT C/D 1/8 SM, AND CIRCLING VISIBILITY CAT D 1/4 SM. BARO-VNAV AND VDP NA WHEN USING TAMPA EXEC ALTIMETER SETTING.

100 FT VEGETATION HEIGHT APPLIED, PER FPT.

NOAA CLIMATE DATA FOR KZPH IS NOT AVAILABLE.

LPV VISIBILITY COULD BE LOWERED TO 3/4 SM, PER 8260.3E, TABLE 3-3-1 AND TABLE 3-3-6. HOWEVER, ORLANDO ADO AND FPT REQUESTED TO MAINTAIN AT 7/8 SM, DUE TO RUNWAY PROTECTION ZONE (RPZ) LIMITATIONS AND AC 150/5300-13B.

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	3.07
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	000.31
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	100
DISTANCE FROM	THLD	TO 1500FT POINT	4.75
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.95
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	000.31
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	100

THRESHOLD COORDINATES (IF STR-IN)	281257.94N/0820912.22W
ARP COORDINATES	281336.01N/0820920.32W
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 1 DISTANCE 0.64 NM
FAF COORDINATES	280800.15N/0820914.05W
FIX NAME COORDINATES	

REMARKS

IAF ELIJE 280212.30N 0821602.99W 30 NM RADIUS.
IAF ICZOR 280208.39N 0820229.35W 30 NM RADIUS.
IF/IAF UFSOP 280210.51N 0820916.17W 30 NM RADIUS.

PART E: PREPARED BY

NAME	OFFICE	DATE	TITLE	QUALITY
JOHN BORDY (RICHARD BRUCE)	AJV-A33	03/25/2024	AERONAUTICAL INFORMATION SPECIALIST	20 CHECKED

AIRPORT ID
ZPH

PROCEDURE NAME
RNAV (GPS) RWY 1

AMDT NO.
2

CITY
ZEPHYRHILLS

STATE
FL

AIRPORT ELEVATION
90

FACILITY
RNAV