

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33		Bearings, headings, courses, 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 in feet RVR.											
TERMINAL ROUTES										MISSED APPROACH					
FROM		TO		COURSE AND DISTANCE				ALTITUDE		LP: OYOCE LNAV: OYOCE					
ALGTR		YELUS (TF) (FO) (RNP 2.00)		048.41 / 20.12				2200		CLIMBING RIGHT TURN TO 3000 DIRECT OCSIP AND HOLD.					
RBX VOR/DME		YELUS (TF) (FO) (RNP 2.00)		352.20 / 17.68				2200							
OCSIP (IAF)		YELUS (NOPT) (TF) (FB) (RNP 1.00)		078.91 / 9.96				2200							
YELUS (IF/IAF)		UHAWO (TF) (FB) (RNP 1.00)		148.10 / 9.33				1600							
UHAWO (FAF)		OYOCE (MAP) (TF) (FO) (RNP 0.30)		175.95 / 3.24						ADDITIONAL FLIGHT DATA: HOLD SE, RT, 318.00 INBOUND. FAS OBST: 200 AAO 360257N/0754000W FAS OBST: 236 AAO 360348N/0754136W CHART 333 TOWER 360431N/0754307W WAAS CHANNEL # 50240 REFERENCE PATH ID: W21A CHART CIRCLING ICON. UHAWO TO RW21: 3.75/40. FICTITIOUS THRESHOLD POINT (CFVKL) DO NOT CHART. FAC CROSSES RWY C/L EXTENDED 4500 FT FROM THLD. CHART PLANVIEW NOTE: FINAL APPROACH COURSE OFFSET 30 DEGREES. LTP HAE: -36.5 M					
(SEE FORM 8260-10)															
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)										MAG VAR: 11W EPOCH YEAR: 2020					
2. HOLD NW YELUS, RT, 148.10 INBOUND, 2200 FT. IN LIEU OF PT (IAF)															
3. FAC: 175.95 FAF: UHAWO DIST FAF TO MAP: 3.24 THLD: 3.89															
4. MIN. ALT: YELUS 2200, UHAWO 1600															
5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____															
6. MIN GS INCPT: _____ GS ALT AT: _____ OM: _____ MM: _____ IM: _____															
7. GS ANGLE: _____ TCH: 34:1 IS NOT CLEAR															
8. MSA FROM: RW21 2100															
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT							ALTERNATE: N A		STANDARD						
CATEGORY ==>		A		B		C		D		E					
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LP MDA	460	1	448	460	1	448		NA			NA				
LNAV MDA	500	1	488	500	1	488		NA			NA				
CIRCLING	520	1	508	540	1	528		NA			NA				
NOTES: CHART NOTE: RWY 21 HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED. CHART NOTE: DME/DME RNP-0.3 NA. CHART NOTE: PROCEDURE NA AT NIGHT															
CITY AND STATE KILL DEVIL HILLS, NC		ELEVATION: 12 TDZE: 12 AIRPORT NAME: FIRST FLIGHT		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 21, ORIG					SUP: AMDT: NONE DATED				

ALL AFFECTED PROCEDURES REVIEWED? <div><input type="checkbox"/> YES</div> <div><input type="checkbox"/> NO</div>		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE <div>CONCURRENT</div>	
COORDINATED WITH: <div><div>ATA<div></div></div><div>AAT<div></div></div><div>ALPA<div>X</div></div><div>APA<div></div></div><div>AOPA<div>X</div></div><div>NBAA<div>X</div></div><div>OTHER (specify)<div>AMGR, ZDC, NKT APP CON</div></div></div>					
FLIGHT CHECKED BY					
NAME: <div><div>Digitally signed by JACOB POWERS Apr 05, 2017</div><div>BLAKE SEARLES</div></div>			FIFO FICO		DATE: 03/23/2017
DEVELOPED BY					
NAME: <div><div>Digitally signed by RODNEY L RUMSEY Dec 07, 2016</div><div>RODNEY L. RUMSEY</div></div>			FIFO AJV-5432		DATE: 09/27/2016
APPROVED BY					
NAME: <div><div>Digitally signed by JACOB POWERS Apr 05, 2017</div><div>LONNIE EVERHART</div></div>			FIFO AJV-5430		DATE:
CHANGES: 1. ORIGINAL PROCEDURE					
REASONS: 1. PER FPT CHECKLIST.  EFFECTIVE CONCURRENT WITH AIRSPACE DOCKET 16-ASO-5					



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
RNAV - STANDARD  
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, 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 in feet RVR.

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
OYOCE (MAP)	412 MSL	175.95	
412 MSL	OCSIP (DF) (FO) (RNP 1.00)		3000

CITY AND STATE  
KILL DEVIL HILLS, NC

ELEVATION: 12 TDZE: 12  
AIRPORT NAME:  
FIRST FLIGHT

FACILITY  
IDENTIFIER:  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  
RNAV (GPS) RWY 21, ORIG

SUP: 22  
AMDT: NONE  
DATED:

QUALITY  
22  
CHECKED

ALL AFFECTED PROCEDURES REVIEWED? <input type="checkbox"/> YES <input type="checkbox"/> NO		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
COORDINATED WITH:					
ATA <input type="checkbox"/>	AAT <input type="checkbox"/>	ALPA <input type="checkbox"/>	APA <input type="checkbox"/>	AOPA <input type="checkbox"/>	NBAA <input type="checkbox"/>
OTHER (specify) <input type="checkbox"/> _____					
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
DEVELOPED BY					
NAME:				FIFO	DATE:
APPROVED BY					
NAME:				FIFO	DATE:
CHANGES:					
REASONS:					

**RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
FLIGHT STANDARDS SERVICE - FAR PART 97.33**

Bearings, headings, courses, 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 in feet RVR.

**FAS DATA BLOCK INFORMATION**

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KFFA
RUNWAY	RW21
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W21A
LTP/FTP LATITUDE	360123.4540N
LTP/FTP LONGITUDE	0753946.4930W
LTP/FTP ELLIPSOIDAL HEIGHT	-00365
FPAP LATITUDE	355957.2815N
FPAP LONGITUDE	0753917.9980W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.75
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0
 <u>CRC REMAINDER</u>	 54D6DCBD

**ADDITIONAL PATH POINT RECORD INFORMATION**

ICAO CODE	K7
LTP ORTHOMETRIC HEIGHT	+00024
FPAP ORTHOMETRIC HEIGHT	+00024

CITY AND STATE

KILL DEVIL HILLS, NC

ELEVATION: 12

TDZE: 12

AIRPORT NAME:

FIRST FLIGHT

FACILITY  
IDENTIFIER:  
  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) RWY 21, ORIG

SUP:

AMDT:

DATED:

 QUALITY  
22  
CHECKED

NONE

ALL AFFECTED PROCEDURES REVIEWED? <input type="checkbox"/> YES <input type="checkbox"/> NO		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
COORDINATED WITH: ATA      AAT      ALPA      APA      AOPA      NBAA      OTHER (specify) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> _____					
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
DEVELOPED BY					
NAME:				FIFO	DATE:
APPROVED BY					
NAME:				FIFO	DATE:
CHANGES:					
REASONS:					

## STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

## PART - A OBSTRUCTION DATA

1. APP SEGMENT		FROM		TO		OBSTRUCTION		COORDINATES		ELEV. MSL		ROC		ALT. ADJUSTMENTS		MIN. ALT.	
FEEDER		ALGTR		YELUS		1. TOWER (37-002813)		360809.00N/0754927.00W		1049 (2C)		1000		AC151		2200	
						2. TERRAIN		361000.00N/0755100.00W		13 (0)				AS1500		1500	
FEEDER		RBX VOR/DME		YELUS		1. TOWER (37-002813)		360809.00N/0754927.00W		1049 (2C)		1000		AS151		2200	
						3. TERRAIN		360018.00N/0754227.00W		36 (0)				AS1500		1500	
INITIAL		OCSIP		YELUS		4. TOWER (37-001417)		361210.47N/0755222.37W		511 (1A)		1000		AT689		2200	
						5. TERRAIN		361100.00N/0755130.00W		13 (0)				AS1500		1500	
INTERMEDIATE		YELUS (IF/IAF)		UHAWO		1. TOWER (37-002813)		360809.00N/0754927.00W		1049 (2C)		500		SA-362 AT413		1600	
						6. TERRAIN		360809.00N/0754421.00W		46 (0)				AS1500		1500	
FINAL: LP		UHAWO		OYOCE		7. AAO		360257.00N/0754000.00W		200 (4C)		250				460	
FINAL: LNAV		UHAWO		OYOCE		8. AAO		360348.00N/0754136.00W		236 (4C)		250				500	
2. HOLD-IN-LIEU-OF-PT		YELUS		P-5		1. TOWER (37-002813)		360809.00N/0754927.00W		1049 (2C)		1000		AT151		2200	
						9. TERRAIN		360851.00N/0754442.00W		46 (0)				AS1500		1500	
3. MISSED APPROACH	MAP:		OYOCE / OYOCE		OCSIP						ASC				3000		
	ELEV:		360/400				10. TOWER (37-002142)		360430.82N/0754306.75W		333 (1A)		1000		1400		
						11. TERRAIN		360018.00N/0754227.00W		36 (0)				AS1500		1500	
4. CIRCLING AREA		DISTANCE		HT. ABV. ARPT.													
CATEGORY A		1.3 NM		REQUIRED	350	ACTUAL	508	12. ANT (KFFAT002394)		360144.84N/0754021.78W		203 (1A)		300		520	
CATEGORY B		1.5 NM			450		528	13. AAO		360018.00N/0754227.00W		236 (4C)		300		540	
CATEGORY C		1.7 NM			450												
CATEGORY D		2.3 NM			550												
CATEGORY E		4.5 NM			550												
5. MINIMUM SAFE ALTITUDES								PRIMARY NAVAID: RW21									
SECTOR		OBSTRUCTION		BRG/DIST		ELEVATION (MSL)		M S A		SECTOR		OBSTRUCTION		BRG/DIST		ELEVATION (MSL)	
360-360		TWR (37-002813)		301/10.1		1049 (2C)		2100									
CITY AND STATE		ELEVATION: 12		AIRPORT NAME:		FACILITY		PROCEDURE AND AMENDMENT NO:		REGION							
KILL DEVIL HILLS, NC				FIRST FLIGHT		RNAV		RNAV (GPS) RWY 21, ORIG		ASO							

QUALITY  
22

CHECKED





STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD	
--	--

## PART - A OBSTRUCTION DATA

[illegible]

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT.								
CATEGORY A	1.3 NM	REQUIRED	350	ACTUAL						
CATEGORY B	1.5 NM		450							
CATEGORY C	1.7 NM		450							
CATEGORY D	2.3 NM		550							
CATEGORY E	4.5 NM		550							

5. MINIMUM SAFE ALTITUDES				PRIMARY NAVAID:					
SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
CITY AND STATE		ELEVATION: 12		FACILITY		PROCEDURE AND AMENDMENT NO:		REGION	
KILL DEVIL HILLS, NC		AIRPORT NAME:		RNAV		RNAV (GPS) RWY 21, ORIG		ASO	
		FIRST FLIGHT							

PART B - SUPPLEMENTAL DATA										PART C - REMARKS: <b>CONTINUED.</b>  <b>CONTINGENCY ALTIMETER RASS PRESSURE PATTERNS SAME KFFA 11.9 MSL, KMQI 13 MSL RA = 13.98FT NOT PUBLISHED AS PER CHECKLIST FROM FPT.</b>  <b>CAT A/B ONLY AS DIRECTED BY FTP, TO ACCOMMODATE 3.75 GLIDESLOPE.</b>			
1. COMMUNICATIONS WITH:			2. WEATHER SERVICE			3. ALTIMETER SETTING							
SATISFACTORY ON:				N W S	OTHER:		SOURCE:						
				F A A			DISTANCE:						
				A / C			HOURS REMOTE OPERATION:						
	V H F		U H F		H F	LOCATION:			ADJUSTMENT:				
4. MONITOR STATUS		PRIMARY NAVAID:											
		MONITOR POINT:											
		HRS	CAT 1										
		OPTN:	CAT 3										
5. APPROACH & RUNWAY LIGHTING			ALS										
			(S) SALS										
			MALS										
			HIRL										
			MIRL										
			REIL										
			TDZ										
			C/LINE										
6. RUNWAY MARKINGS		BASIC											
		ALL WEATHER											
		INSTRUMENT											
7. RUNWAY VISUAL RANGE		APPROACH											
		MIDFIELD											
		ROLL OUT											
8. GLIDE PATH		GP ANGLE:				ELEV RWY THRESHOLD:							
		DISTANCE FROM RWY:				ELEV GP ANTENNA:							
						THRESHOLD CROSSING HEIGHT:							
9. FINAL APPROACH COURSE AIMING				RUNWAY THRESHOLD					FT. FROM THRESHOLD				
				ON CENTERLINE					FT. FROM CENTERLINE				
10. WAIVERS:													
PART D - PREPARED BY:										DATE:			
TITLE:										OFFICE:			

