

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		LPV: DA LNAV/VNAV: DA LNAV: RW23 CLIMB TO 1700 THEN CLIMBING RIGHT TURN TO 2500 DIRECT FOSTY AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SW, LT, 057.00 INBOUND. CHART FAS OBST: 159 TREE 414417N/0712507W CHART: 382 TANK 414811N/0712129W DISTANCE TO THLD FROM 200 HAT: 0.47 NM. CHART VDP AT 1.03 MILES TO RW23* *LNAV ONLY. WAAS CHANNEL # 93823 REFERENCE PATH ID: W23A CHART CIRCLING ICON. LTP HAE: -16.2 M					
HOPTU		KRANN (FB)		333.65 / 5.93				2300							
KRANN (IAF)		FEDED (FB)		309.92 / 7.36				2300							
FEDED (IF)		CUSKA (FB)		227.27 / 6.83				1900							
CUSKA (FAF)		WIVPA/1.60 NM TO RW23 (FB)		227.21 / 4.07											
WIVPA/1.60 NM TO RW23		RW23 (MAP) (FO)		227.21 / 1.60											
RW23 (MAP)		1700 MSL		227.21				1700							
1700 MSL		FOSTY (FO)						2500							
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF) 2. PROFILE STARTS AT FEDED 3. FAC: 227.21 FAF: CUSKA DIST FAF TO MAP: 5.67 THLD: 5.67 4. MIN. ALT: FEDED 2300, CUSKA 1900, WIVPA/1.60 NM TO RW23 600* 5. DIST TO THLD FROM OM: _____ MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____ 6. MIN GS INCPT: 1900 GS ALT AT: CUSKA 1900 OM: _____ MM: _____ IM: _____ 7. GS ANGLE: 3.00 TCH: 51.1 34:1 IS CLEAR 8. MSA FROM: RW23 2600										MAG VAR: 15W		EPOCH YEAR: 1985			
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
LPV DA	250	2400	200	250	2400	200	250	2400	200	250	2400	200			
LNAV/VNAV DA	346	2400	296	346	2400	296	346	2400	296	346	2400	296			
LNAV MDA	420	2400	370	420	2400	370	420	3500	370	420	3500	370			
CIRCLING	560	1	505	620	1	565	640	1 1/2	585	860	2 1/2	805			
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 54C (130F). @ CAT D 900-2 1/2 CHART NOTE: DME/DME RNP-0.3 NA. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). CHART NOTE: FOR INOPERATIVE MALSR, INCREASE LNAV CATS C AND D VISIBILITY TO RVR 5500. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT HOPTU ON V139-151 EASTBOUND.															
CITY AND STATE		ELEVATION: 55 TDZE: 50		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP:					
PROVIDENCE, RI		AIRPORT NAME:				RNAV (GPS) Y RWY 23, AMDT 2				AMDT: 1B					
		THEODORE FRANCIS GREEN STATE								DATED 06/26/2014					

ALL AFFECTED PROCEDURES REVIEWED? <input checked="checked" type="checkbox"/> YES <input type="checkbox"/> NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE <div style="text-align: center;">ROUTINE</div>
COORDINATED WITH: <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="text-align: center;">ATA <input checked="checked" type="checkbox"/></div> <div style="text-align: center;">AAT <input type="checkbox"/></div> <div style="text-align: center;">ALPA <input checked="checked" type="checkbox"/></div> <div style="text-align: center;">APA <input checked="checked" type="checkbox"/></div> <div style="text-align: center;">AOPA <input checked="checked" type="checkbox"/></div> <div style="text-align: center;">NBAA <input checked="checked" type="checkbox"/></div> <div style="text-align: center;">OTHER (specify) <input checked="checked" type="checkbox"/> <u>ZBW, PVD APP CON, PVD ATCT</u></div> </div>		
FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	FIFO	DATE:
GEORGETTE P. BARNETT	<i>Digitally signed by</i> GEORGETTE P BARNETT	AJV-5412 01/08/2016
APPROVED BY Feb 12, 2016		
NAME:	FIFO	DATE:
MARLON J. ROBINSON	MANAGER AJV-5410	
CHANGES: <ol style="list-style-type: none"> 1. UPDATED PROFILE NOTE FORMAT FOR VGSI NOT COINCIDENT. 2. CAT B CIRCLING MDA/HAA CHANGED FROM 560/505 TO 620 565, CAT C CHANGED FROM 620/565 TO 640/585, CAT D CHANGED FROM 620/565 TO 860/805. CAT D VISIBILITY CHANGED FROM 2 TO 2 1/2. 3. LNAV/VNAV CRITICAL LOW TEMPERATURE CHANGED FROM -15C (5F) TO -17C (2F), HIGH TEMPERATURE CHANGED FROM 43C (109F) TO 54C (130F). 4. MISSED APPROACH CLIMB TO ALTITUDE CHANGED FROM 1600 TO 1700. 5. INITIAL APPROACH FIX CHANGED FROM ZAMEK TO KRANN. 6. DELETED CHART NOTE: WHEN VGSI INOP, CIRCLING RWY 34 NA AT NIGHT. 7. INCREASED VISIBILITY FROM RVR 5000 TO RVR 5500 FOR INOP MALSR NOTE. 8. FAS DATA: FPAP LAT/LONG CHANGED FROM 414234.2400N/0712618.8800W TO 414234.2355N/0712618.8745W, CRC REMAINDER CHANGED FROM D15366D7 TO 517C1623. 9. ALTERNATE MINIMUMS ADDED FOR CAT D AIRCRAFT. 10. VDP CHANGED FROM 1.06 MILES TO 1.03 MILES TO RWY 23. 		
REASONS: <ol style="list-style-type: none"> 1. IAW 8260.19E. 2. NEW CONTROLLING OBSTACLES BASED ON NEW CIRCLING CRITERIA AND ADDED NOTE "CHART CIRCLING ICON" IN ADDITIONAL FLIGHT DATA. UPDATED VISIBILITY FOR CAT D BASED ON VISIBILITY CALCULATOR. 3. IAW CRITERIA MEMO #192, DETERMINING CRITICAL LOW AND HIGH TEMPERATURES FOR APPLICABLE AREA NAVIGATION (RNAV) INSTRUMENT APPROACH PROCEDURES. 4. MA SEGMENT FROM DA TO CLIMB TO ALTITUDE 1600 TOO SHORT. 5. INTERMEDIATE SEGMENT LENGTH TOO SHORT TO CONSTRUCT THE INSIDE BOUNDARY OF THE FLY-BY TURN FROM ZAMEK TO FEDED BASED ON IPDS BUILD. 6. OBSTACLE (KPPD0053) IDENTIFIED AS VAAR PENETRATION REMOVED. 7. IAW 8260.3B CHG 26, TABLE 3-5A. 8. RE-CALCULATION USING 51.15 FT TCH IN IPDS. 9. IAW 8260.3B CHG 26. 10. RE-CALCULATION USING CURRENT AND UPDATED DATA. 		

**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	KPVD
RUNWAY	RW23
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W23A
LTP/FTP LATITUDE	414349.6960N
LTP/FTP LONGITUDE	0712515.5350W
LTP/FTP ELLIPSOIDAL HEIGHT	-00162
FPAP LATITUDE	414234.2355N
FPAP LONGITUDE	0712618.8745W
THRESHOLD CROSSING HEIGHT (TCH)	00051.1
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0568
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
 <u>CRC REMAINDER</u>	 517C1623

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00135
FPAP ORTHOMETRIC HEIGHT	+00135

CITY AND STATE

PROVIDENCE, RI

ELEVATION: 55

TDZE: 50

AIRPORT NAME:

THEODORE FRANCIS GREEN STATE

FACILITY
IDENTIFIER:
RNAVPROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (GPS) Y RWY 23, AMDT 2

SUP:

AMDT: 1B

DATED: 06/26/2014

 QUALITY
22
CHECKED

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

CITY AND STATE	ELEVATION: AIRPORT NAME:	TDZE:	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
					AMDT:
					DATED:



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:				NFPG	DATE:
APPROVED BY					
NAME:				NFPG	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	HOPTU	KRANN	1. TOWER (25-000610)	414952.78N/0710447.46W	494 (2C)	1000	AT806	2300	
			2. TERRAIN	414712.00N/0710051.00W	276 (300)		AS1500	1800	
INITIAL	KRANN	FEDED	3. TOWER (25-000190)	415236.00N/0711701.00W	1145 (4D)	1000	AT155	2300	
			4. TERRAIN	415233.00N/0711200.00W	289 (300)		AS1500	1800	
INTERMEDIATE	FEDED	CUSKA	5. TOWER (25-000325)	415213.00N/0711743.00W	1148 (4D)	500	AT252	1900	
			6. TERRAIN	415133.00N/0711721.00W	286 (300)		AS1500	1800	
FINAL: LPV	CUSKA	RW23				ASC		250/200	
FINAL: LNAV/VNAV	CUSKA	RW23	7. TREE	414416.89N/0712507.13W	159 (2C)	161	XP26	346/296	
FINAL: LNAV	CUSKA	WIVPA/1.60 NM TO RW23	8. AAO	414739.00N/0712151.00W	335 (2C)	250		600	
FINAL: LNAV STEPDOWN	WIVPA/1.60 NM TO RW23	RW23	7. TREE	414416.89N/0712507.13W	159 (2C)	250		420	
2. PROCEDURE TURN	NA								
3. MISSED APPROACH	MAP: DA / DA / RW23	FOSTY				ASC		2500	
	ELEV: 79/185/320		9. TOWER (44-000083)	415032.57N/0714011.29W	1069 (5D)	1000		2100	
			10. TERRAIN	415021.00N/0714024.00W	765 (800)		AS1500	2300	
4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT.							
CATEGORY A	1.3 NM	REQUIRED 350	505	11. TOWER (44-000132)	414355.01N/0712651.32W	242 (1A)	300	560	
CATEGORY B	1.5 NM	450	565	12. TOWER (44-000147)	414522.00N/0712640.00W	310 (2A)	300	620	
CATEGORY C	1.7 NM	450	585	13. TREE	414030.07N/0712742.03W	329 (2C)	300	640	
CATEGORY D	2.3 NM	550	805	14. AAO	414038.46N/0712946.47W	559 (2C)	300	860	
CATEGORY E	4.5 NM	550							
5. MINIMUM SAFE ALTITUDES									
PRIMARY NAVAID: RW23									
SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	TWR (25-000622)	333/26.3	1549 (5D)	2600					
CITY AND STATE	ELEVATION: 55	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION					
PROVIDENCE, RI	AIRPORT NAME: THEODORE FRANCIS GREEN STATE	RNAV	RNAV (GPS) Y RWY 23, AMDT 2	ANE					

PART B - SUPPLEMENTAL DATA										PART C - REMARKS: PRECIPITOUS TERRAIN EVALUATION COMPLETED. TERPS PARAGRAPH 289 APPLIED TO 382 TANK 414811N/0712129W BLOCK 3: ALTIMETER SETTING SOURCE: KPVD DISTANCE: ON AIRPORT ASOS ON SERVICE A. BACK-UP ALTIMETER SOURCE NOT REQUIRED DUE TO REDUNDANT LOCAL SOURCES. VGSI DATA: 3.00/45.3 TCH ILS PROCEDURE TCH 51.15 FT USED FOR IPDS BUILD. ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED. CAT A: 1.30NM CAT B: 1.81NM CAT C: 2.84NM CAT D: 3.70NM NO ADDITIONAL AIRSPACE REQUIRED. LPV SURFACE: 34:1 LNAV/VNAV SURFACE: 23.65:1 VEGETATION HEIGHT 100' PER EASTERN FPT. CRITICAL TEMPERATURES CRITICAL LOW CRITICAL HIGH ACT APT ISA DELTA ISA LOW -17C (2F) +54C (130F) -17C +14.89C -31.89C CRITICAL LOW TEMP BASED ON ACT DESCENT RATE: STANDARD TEMP 954 HIGH TEMP 1114 TEMPERATURE LIMITS, DELTA ISA LOW, AND DESCENT VALUES DERIVED FROM AFS CALCULATOR. AVERAGE COLD TEMPERATURE BASED ON 5 YEAR HISTORY 2011-2015. XP-MAINTAIN CURRENT PUBLISHED MINIMUMS.																			
1. COMMUNICATIONS WITH:				2. WEATHER SERVICE				3. ALTIMETER SETTING																					
PVD TOWER PVD APP CON ZBW ARTCC				N W S F A A A / C		OTHER: ASOS		SOURCE:KPVD																					
								DISTANCE:																					
								HOURS REMOTE OPERATION:																					
SATISFACTORY ON:																				ADJUSTMENT: 0									
X V H F		X U H F		H F		LOCATION: KPVD																							
4. MONITOR STATUS		PRIMARY NAVAID:																											
		MONITOR POINT:																											
		HRS OPTN:		CAT 1																									
				CAT 3																									
5. APPROACH & RUNWAY LIGHTING		X		ALSF-2 05 (PCL)																									
				(S) SALS																									
		X		MALSR 23 (PCL), 34																									
		X		HIRL 05 (PCL), 16 (PCL), 23 (PCL), 34 (PCL)																									
				MIRL																									
		X		REIL 16																									
		X		TDZ 05 (PCL)																									
		X		C/L 05 (PCL), 23 (PCL)																									
X		OTHER (SPECIFY) PAPI-4L 16, 34 VASI-4L 23																											
6. RUNWAY MARKINGS		BASIC																											
		ALL WEATHER PIR-G 05, 16, 23, 34																											
		INSTRUMENT																											
7. RUNWAY VISUAL RANGE		APPROACH 05, 23, 34																											
		MIDFIELD 05																											
		ROLL OUT 05																											
8. GLIDE PATH		GP ANGLE: 3.00						ELEV RWY THRESHOLD:44.3																					
		DISTANCE FROM RWY:						ELEV GP ANTENNA:																					
								THRESHOLD CROSSING HEIGHT:51.1																					
9. FINAL APPROACH COURSE AIMING				X		RUNWAY THRESHOLD				FT. FROM THRESHOLD																			
				X		ON CENTERLINE				FT. FROM CENTERLINE																			
10. WAIVERS: NONE																													
PART D - PREPARED BY: GEORGETTE P. BARNETT										DATE: 01/08/2016																			
TITLE: AERONAUTICAL INFORMATION SPECIALIST										OFFICE: AJV-5412																			

QUALITY
22
CHECKED