Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: IAP	Date Open: 12/14/2009	Task #: 2005040223159501003	Request #: 20050402231595
Procedure: RNAV (GPS)-B ORIG		Airport ID: KLNA	Airport: PALM BEACH COUNTY PARK		Reimbursable #:
City: WEST PALM BEACH	ST: FL	GPS #:		Estimated Chart Date: 06/27/2013	FICO #:
Fac ID:	Fac. Type: LNAV	Specialist: CASIMIR TABAKA(Contractor)			

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	08/28/2012	01/29/2013	CASIMIR TABAKA	
QA:	01/29/2013	01/29/2013	PATRICK MULQUEEN	
Liaison:	01/29/2013		Sparlin	

p3

Procedure Comments: ENROUTE-NON

Remark Type: INFORMATION

pkg 2 of 3

WEST PALM BEACH, FL PALM BEACH COUNTY PARK (KLNA) RNAV (GPS)-B, ORIG ENROUTE-NO FC: 5.14.13 PUB: 6.27.13

ATTACHED FORMS: 8260-3; 8260-10; 8260-9; 8260-2(S): CUVMO, ORIG; RUCOG, ORIG; UGLEE-INT, REV 5; YANBU, ORIG; (INFO ONLY) MRLIN-INT, REV 5; STOOP-INT, REV 12.

CONTACT: DON SMITH/MARLON ROBINSON-AJV-352 LEADS, 405.954.1036 / 405.954.3636.

APP CRS	Rwy ldg	3489
278°	THRE	13
	Apt Elev	14

RNAV (GPS)-B

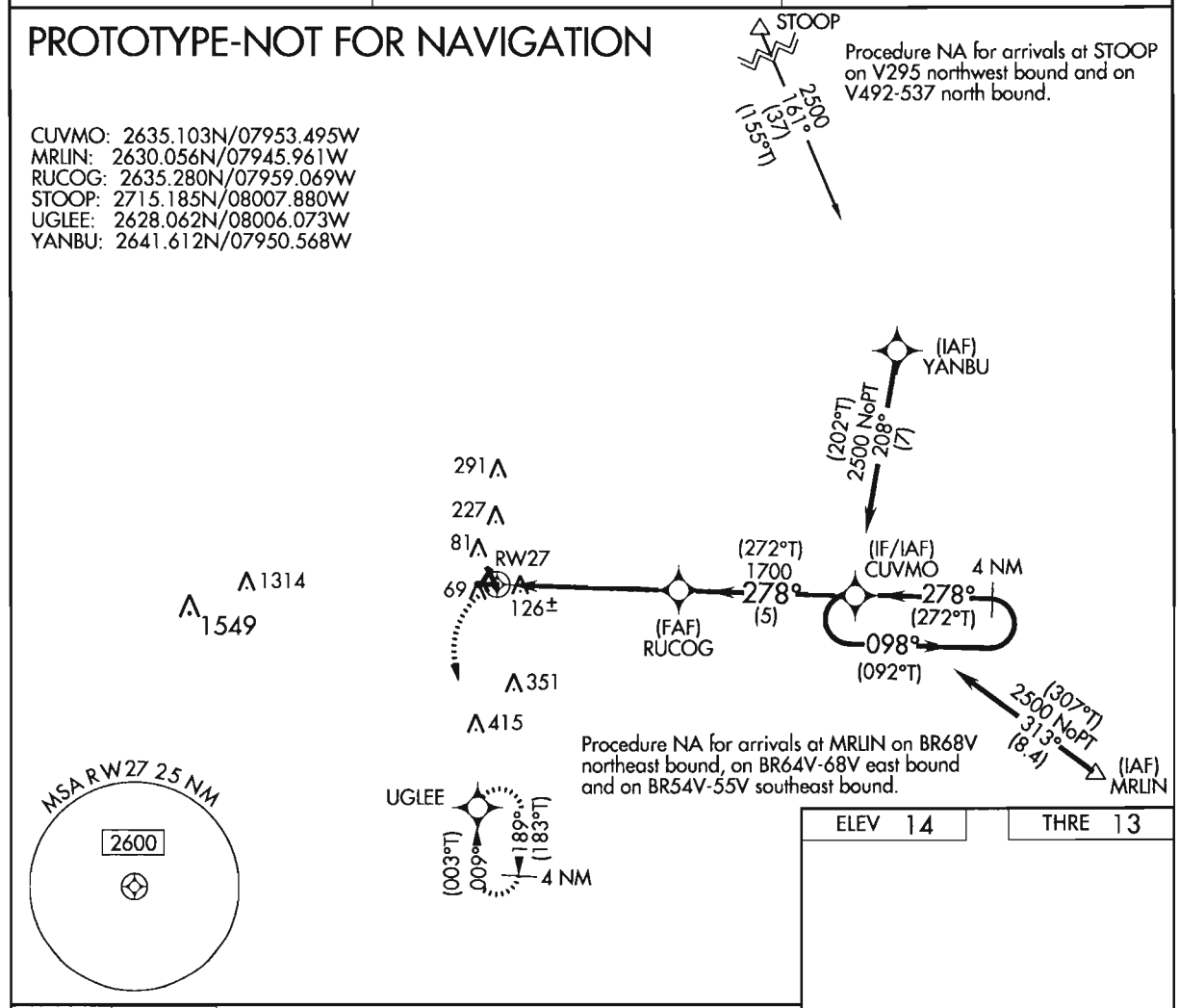
WEST PALM BEACH / PALM BEACH COUNTY PARK (LNA)

DME/DME RNP-0.3 NA. When local alitmeter setting not recieved, use Palm Beach Intl alimeter setting; increase all MDA 20 feet.
Helicopter visibility reduction below 1 SM not authorized. Procedure NA at night.

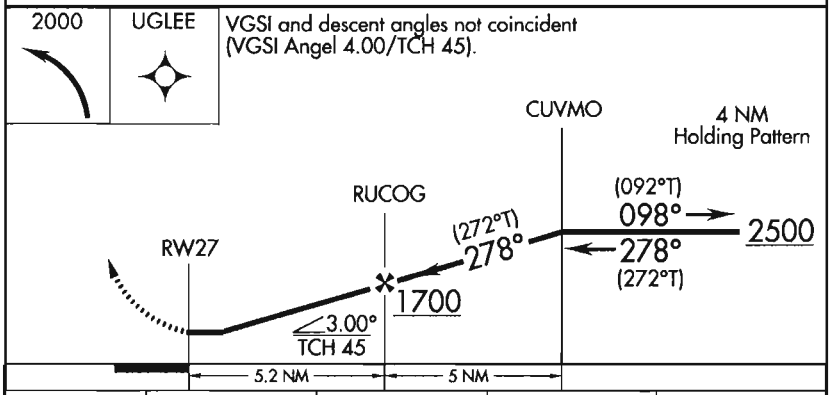
MISSED APPROACH: Climbing left turn to 2000 direct UGLEE and hold. Do not exceed 210 KIAS until turn completion

AWOS-3	PALM BEACH APP CON	UNICOM
119.925	125.2 343.6	122.7 (CTAF) L

PROTOTYPE-NOT FOR NAVIGATION



ELEV 14	THRE 13



278° to RW27

CATEGORY	A	B	C	D
CIRCLING	460-1 446 (500-1)	580-1 566 (600-1)	660-1 3/4 646 (700-1 3/4)	NA

MIRL Rwys 3-21, 9-27 and 15-33 L

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

FROM	TO	COURSE AND DISTANCE	ALTITUDE
STOOP	YANBU (FB)	161.14 / 36.88	2500
YANBU (IAF)	CUVMO (NOPT) (FB)	208.02 / 7.00	2500
MRLIN (IAF)	CUVMO (NOPT) (FB)	312.71 / 8.42	2500
CUVMO (IF/IAF)	RUCOG (FB)	278.04 / 5.00	1700
RUCOG (FAF)	RW27 (MAP) (FO)	278.00 / 5.16	
RW27 (MAP)	414 MSL	278.00	
414 MSL	UGLEE (FO)		2000

MISSED APPROACH

LNAV: RW27

CLIMBING LEFT TURN TO 2000 DIRECT UGLEE AND HOLD. DO NOT EXCEED 210 KIAS UNTIL TURN COMPLETION.

ADDITIONAL FLIGHT DATA:
HOLD S, RT, 009.00 INBOUND.
FAS OBST: 208 SHIP 263500N/0800124W
RUCOG TO RW27: 3.00/45.
CHART CIRCLING ICON.
FAC CROSSES RWY 27 THLD.

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. HOLD E CUVMO, LT, 278.04 INBOUND, 2500 FT. IN LIEU OF PT (IAF)
3. FAC: 278.00 FAF: RUCOG DIST FAF TO MAP: 5.16 THLD: 5.16
4. MIN. ALT: CUVMO 2500, RUCOG 1700
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: ____
8. MSA FROM: RW27 2600

MAG VAR: 6W EPOCH YEAR: 2010

MINIMUMS

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

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
CIRCLING	460	1	446	580	1	566	660	1 3/4	646		NA				

NOTES:
CHART NOTE: DME/DME RNP-0.3 NA.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT STOOP ON V295 NORTHWEST BOUND AND ON V492-537 NORTH BOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT MRLIN ON BR68V NORTHEAST BOUND, ON BR64V-68V (SEE FORM 8260-10)

QUALITY 2 CHECKED

CITY AND STATE	ELEVATION: 14 TDZE: AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
WEST PALM BEACH, FL	PALM BEACH COUNTY PARK	RNAV	RNAV (GPS)-B, ORIG	AMDT: NONE
				DATED

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
[ ] YES [X] NO		**ROUTINE**

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
[ ]	[ ]	[X]	[ ]	[X]	[X]	[X] **ZMA, PBI APP CON, APRT MNGR**

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME: **DONALD E. SMITH (DUSTIN R. DAVIDSON)**	FIFO **AJV-352**	DATE: **10/17/2012**
APPROVED BY		
NAME: **SUSAN CRUMB** **MANAGER**	FIFO **AJV-352**	DATE:

CHANGES:

REASONS:

QUALITY CHECKED 2

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 aiport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):
EAST BOUND AND ON BR54V-55V SOUTHEAST BOUND.
CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING IS NOT RECEIVED, USE PALM BEACH INTL ALTIMETER SETTING: INCREASE ALL MDA 20 FEET.
CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
CHART NOTE: PROCEDURE NA AT NIGHT.

QUALITY 2 CHECKED

CITY AND STATE	ELEVATION: 14 TDZE: AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
WEST PALM BEACH, FL	PALM BEACH COUNTY PARK	RNAV	RNAV (GPS)-B, ORIG	AMDT: NONE
				DATED:

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	FIFO	DATE:
APPROVED BY		
NAME:	FIFO	DATE:

CHANGES:

REASONS:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **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.

ARINC PACKET - 424-18 - RNAV (GPS)

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   CUVMO K70    W     N26350620W079532969                    W0066     NAR           CUVMO
        SUSAEAENRT   MRLIN K70    C   L N26300336W079455764                    W0066     NAR           MRLIN
        SUSAEAENRT   RUCOG K70    W     N26351682W079590413                    W0065     NAR           RUCOG
        SUSAEAENRT   STOOP K70    C   L N27151110W080075277                    W0065     NAR           STOOP
        SUSAEAENRT   UGLEE K70    C     N26280369W080060438                    W0064     NAR           UGLEE
        SUSAEAENRT   YANBU K70    W     N26413673W079503405                    W0066     NAR           YANBU

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KLNAK7ALNA     0     034YHN26353500W080050623W006000014         1800018000C    MNAR    PALM BEACH COUNTY PARK

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KLNAK7FRNV-B ACUVMO 010CUVMOK7EA0EE AL   HF                    27800040    + 02500     18000                B JC
        SUSAP KLNAK7FRNV-B AMRLIN 010MRLINK7EA0E  A    IF                                        18000                B JC
        SUSAP KLNAK7FRNV-B AMRLIN 020CUVMOK7EA0EE B 010TF                    31270084    + 02500                          B JC
        SUSAP KLNAK7FRNV-B ASTOOP 010STOOPK7EA0E       IF                                        18000                B JC
        SUSAP KLNAK7FRNV-B ASTOOP 020YANBUK7EA0E  A 020TF                    16110369    + 02500                          B JC
        SUSAP KLNAK7FRNV-B ASTOOP 030CUVMOK7EA0EE B 010TF                    20800070    + 02500                          B JC
        SUSAP KLNAK7FRNV-B R      010CUVMOK7EA0E  I    IF                                + 02500     18000                B JC
        SUSAP KLNAK7FRNV-B R      020RUCOGK7EA0E  F 051TF                    27800050    + 01700                RW27  K7PGB JC
        SUSAP KLNAK7FRNV-B R      030RW27 K7PG0GY M 031TF                    27800052      00058            -300         B JC
        SUSAP KLNAK7FRNV-B R      040         0  M     CA                    2780        + 00414                          B JC
        SUSAP KLNAK7FRNV-B R      050UGLEEK7EA0EY  L   DF                                + 02000         210              B-JC
        SUSAP KLNAK7FRNV-B R      060UGLEEK7EA0EE  R   HM                    00900040    + 02000                          B JC

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KLNAK7GRW27    0034892780 N26352755W080044910+0000    -0022300013000045075R

                 1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KLNAK7SRW27 K7PG               0   18018002625                                                                          M
```

QUALITY 4 CHECKED

CITY AND STATE	ELEVATION: 14 TDZE:	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
WEST PALM BEACH, FL	AIRPORT NAME: **PALM BEACH COUNTY PARK**	**RNAV**	**RNAV (GPS)-B, ORIG**	AMDT: **NONE**
				DATED:

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **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.

ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	CUVMO	CUVMO	010	IAF	HF	L	FO		278.0(272.0T)	004.0	AA 02500	
	MRLIN	MRLIN	010	IAF	IF		FB					
	MRLIN	CUVMO	020		TF		FB	1.0	312.7(306.7T)	008.4	AA 02500	
	STOOP	STOOP	010		IF		FB					
	STOOP	YANBU	020	IAF	TF		FB	2.0	161.1(155.1T)	036.9	AA 02500	
	STOOP	CUVMO	030		TF		FB	1.0	208.0(202.0T)	007.0	AA 02500	
		CUVMO	010	FACF	IF		FB				AA 02500	
		RUCOG	020	FAF	TF		FB	0.5	278.0(272.0T)	005.0	AA 01700	
		RW27	030	MAP	TF		FO	0.3	278.0(272.0T)	005.2	AT 00058	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		278.0(272.0T)		AA 00414	
	UGLEE	050		DF	L	FO				AA 02000	AB 210
	UGLEE	060		HM	R	FO		009.0(003.0T)	004.0	AA 02000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	CUVMO	N263506.20	W0795329.69	N2635.103	W07953.495
	MRLIN	N263003.36	W0794557.64	N2630.056	W07945.961
	RUCOG	N263516.82	W0795904.13	N2635.280	W07959.069
	STOOP	N271511.10	W0800752.77	N2715.185	W08007.880
	UGLEE	N262803.69	W0800604.38	N2628.062	W08006.073
	YANBU	N264136.73	W0795034.05	N2641.612	W07950.568
	RW27	N263527.55	W0800449.10	N2635.459	W08004.818

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW27	00013	45

QUALITY CHECKED

CITY AND STATE	ELEVATION: 14	TDZE:	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
WEST PALM BEACH, FL	AIRPORT NAME: **PALM BEACH COUNTY PARK**		**RNAV**	**RNAV (GPS)-B, ORIG**	AMDT: **NONE**
					DATED:

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

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	STOOP	YANBU	1. BLDG (12-002868)	270711.00N/0800815.00W	272 (8H)	1000	AC1000 AT228	2500
			2. TERRAIN	262754.00N/0794627.00W	0 (0)		AS1500	1500
INITIAL	YANBU	CUVMO	3. SHIP	263508.08N/0795428.19W	208 (2C)	1000	AT1292	2500
			4. TERRAIN	263309.00N/0795324.00W	0 (0)		AS1500	1500
INITIAL	MRLIN	CUVMO	3. SHIP	263508.08N/0795428.19W	208 (2C)	1000	AT1292	2500
			5. TERRAIN	262827.00N/0794715.00W	0 (0)		AS1500	1500
INTERMEDIATE	CUVMO (IF/IAF)	RUCOG	3. SHIP	263508.08N/0795428.19W	208 (2C)	500	AT992	1700
			6. TERRAIN	263230.00N/0795324.00W	0 (0)		AS1500	1500
FINAL: LNAV	RUCOG	RW27	7. SHIP	263459.62N/0800124.06W	208 (2C)	250		460
2. HOLD-IN-LIEU-OF-PT	CUVMO	P-5	3. SHIP	263508.08N/0795428.19W	208 (2C)	1000	AT1292	2500
			8. TERRAIN	263930.00N/0794430.00W	0 (0)		AS1500	1500
3. MISSED APPROACH — MAP:	RW27	UGLEE				ASC		2000
			9. TOWER (12-020063)	263120.00N/0800529.00W	415 (5D)	1000		1500
ELEV:	360		10. TERRAIN	263054.00N/0800612.00W	33 (0)		AS1500	1500
			11. TREE (KLNAT0072)	263549.36N/0800520.99W	158 (2C)	300		460
			12. TOWER (12-004257)	263713.97N/0800451.19W	227 (5D)	300	AC50	580
			13. TOWER (12-000744)	263833.00N/0800447.00W	291 (5E)	300	AC60	660

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL
CATEGORY A	1.3 NM	350	446
CATEGORY B	1.5 NM	450	566
CATEGORY C	1.7 NM	450	646
CATEGORY D	2.3 NM	550	
CATEGORY E	4.5 NM	550	

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: RW27

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	TWR (12-001773)	265/ 08.7	1549 (5E)	2600					

QUALITY CHECKED 2

CITY AND STATE	ELEVATION: 14 / AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
WEST PALM BEACH, FL	PALM BEACH COUNTY PARK	RNAV	RNAV (GPS)-B, ORIG	ASO

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE		3. ALTIMETER SETTING
MIA FSS PBI APP CON	N W S	OTHER: AWOS-3	SOURCE: KLNA / KPBI
	F A A		DISTANCE: 0 / 5.42
SATISFACTORY ON:	A / C		HOURS REMOTE OPERATION: 24 / BACKUP
X V H F X U H F H F	LOCATION: KLNA		ADJUSTMENT: 0 / 14

4. MONITOR STATUS	PRIMARY NAVAID:	
	MONITOR POINT:	
	HRS OPTN: CAT 1	
	HRS OPTN: CAT 3	
5. APPROACH & RUNWAY LIGHTING		ALS
		(S) SALS
		MALS
		HIRL
	X	MIRL 27 (PCL), 21 (PCL), 33 (PCL), 15 (PCL), 09 (PCL), 03 (PCL)
		REIL
		TDZ
		C/LINE
	X	OTHER (SPECIFY) PAPI-2L 27 (PCL), 21, 33 (PCL), 15 (PCL), 09 (PCL), 03
6. RUNWAY MARKINGS	BASIC	BSC-F 27, 21, 09, 03
	ALL WEATHER	
	INSTRUMENT	NPI-G 33, 15
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	X	RUNWAY THRESHOLD — FT. FROM THRESHOLD
	X	ON CENTERLINE — FT. FROM CENTERLINE

10. WAIVERS: NONE

PART D - PREPARED BY: DONALD E. SMITH (DUSTIN R. DAVIDSON)	DATE: 10/17/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-352

PART C - REMARKS:

VDP NOT ESTABLISHED - PROCEDURE IS CIRCLING ONLY.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

RASS PRESSURE PATTERNS SAME
KLNA 14, KPBI 20
RA = 13.2.

90 FOOT TREES USED PER FPT.

TAA NOT DEVELOPED PER FPT.

STRAIGHT-IN MINIMA NOT DEVELOPED DUE LACK OF APPROPRIATE RUNWAY MARKINGS.

KLNA NOT ON SERVICE A.
KPBI ON SERVICE A; 24 HOURS.

25 DEGREE BANK ANGLE USED IN MISSED SEGMENT.
210 KIAS MAX AIRSPEED USED IN MISSED FOR MINIMUM SEGMENT LENGTH REQUIREMENTS AND ATC REQUEST TO HAVE AIRCRAFT USE UGLEE FIX FOR MA CLEARANCE LIMIT.

VGSI DATA: 4.00/45.

ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.
CAT A: 1.30 NM
CAT B: 1.81 NM
CAT C: 2.84 NM

TERPS, VOLUME 1 "VISUAL PORTION OF FINAL" PENETRATIONS:

20:1

R03:
40 POLE (12-025078) 263517.44N/0800523.20W (3.61)
45 POLE (12-025064) 263516.47N/0800524.37W (1.65)
R15:
41 TREE (KLNAT044) 263558.43N/0800513.28W (4.61)
51 TREE (KLNAT010) 263600.81N/0800513.82W (2.85)
R21:
58 TREE (KLNAT0127) 263600.98N/0800459.69W (8.02)
25 TREE (KLNAT0122) 263553.29N/0800458.91W (6.07)
46 TREE (KLNAT0132) 263559.39N/0800500.79W (5.47)
R27:
72 TREE (KLNAT0309) 263528.81N/0800434.89W (5.06)
70 TREE (KLNAT0274) 263530.10N/0800435.00W (3.78)
67 TREE (KLNAT0248) 263526.47N/0800435.62W (2.97)
68 TREE (KLNAT0371) 263529.28N/0800435.14W (2.27)
19 TREE (KLNAT0263) 263528.78N/0800445.72W (1.18)
20 TREE (KLNAT0258) 263525.81N/0800445.46W (0.49)
R33:
19 TREE (KLNAT0231) 263522.67N/0800447.36W (5.00)
21 TREE (KLNAT0331) 263522.39N/0800447.00W (4.98)

QUALITY CHECK 2

RADIO FIX AND HOLDING DATA RECORD

NAME: CUVMO **STATE:** FL **COUNTRY:** US

LATITUDE/LONGITUDE: 263506.20N/0795329.69W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

HOLDING: **HOLDING TYPE OF ACTION:** ESTABLISH

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	E		WP	098.04	278.04	L		4	2500	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	SHIP	263508.08N/0795428.19W	208	2C

REASON FOR NONSTANDARD HOLDING:
PAT 1 ATC REQUEST

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS)-B		1	KLNA	WEST PALM BEACH	FL (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 05/02/2013

DEVELOPED BY: **DATE:** 09/20/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (DUSTIN DAVIDSON)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** SUE CRUMB

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZMA
ATC FACILITY: PBI APP CON
OTHER:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: RUCOG **STATE:** FL **COUNTRY:** US

LATITUDE/LONGITUDE: 263516.82N/0795904.13W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS)-B			KLNA	WEST PALM BEACH	FL (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 05/02/2013

DEVELOPED BY: **DATE:** 09/20/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (DUSTIN DAVIDSON)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** SUE CRUMB

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZMA
ATC FACILITY: PBI APP CON
OTHER:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: UGLEE **STATE:** FL **COUNTRY:** US

LATITUDE/LONGITUDE: 262803.69N/0800604.38W **TYPE:** WP, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	PALM BEACH	PBI	VORTAC	H	186.57	183.57	12.73	12.73		2000	17500

HOLDING: **HOLDING TYPE OF ACTION:** ESTABLISH

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	S		WP	189.00	009.00	R		4	2000	6000	4	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (12-003492)	262602.27N/0800530.29W	459	5E

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	VOR/DME-A	1		KBCT	BOCA RATON	FL (US)
IAP	RNAV (GPS) RWY 33		1	KLNA	WEST PALM BEACH	FL (US)
IAP	RNAV (GPS)-A		1	KLNA	WEST PALM BEACH	FL (US)
IAP	RNAV (GPS)-B		1	KLNA	WEST PALM BEACH	FL (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5 **DATE OF REVISION:** 05/02/2013

REASON FOR REVISION:
ADDED WP TO TYPE.
ADDED HOLDING PATTERN AND CONTROLLING OBSTRUCTIONS.
ADDED HOLDING RESTRICTIONS
UPDATED SIGNATURES.
UPDATED FIX USE AND REMARKS.

DEVELOPED BY: **DATE:** 10/03/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (DUSTIN DAVIDSON)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** SUE CRUMB

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZMA
ATC FACILITY: PBI APP CON
OTHER:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: YANBU **STATE:** FL **COUNTRY:** US

LATITUDE/LONGITUDE: 264136.73N/0795034.05W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS)-B			KLNA	WEST PALM BEACH	FL (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 05/02/2013

DEVELOPED BY: **DATE:** 09/20/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (DUSTIN DAVIDSON)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** SUE CRUMB

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZMA
ATC FACILITY: PBI APP CON
OTHER:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: MRLIN **STATE:** FL **COUNTRY:** US

LATITUDE/LONGITUDE: 263003.36N/0794557.64W **TYPE:** WP, INT, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

INFO ONLY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	VIRGINIA KEY	VKZ	VOR/DME	H	029.00	025.00	49.47	49.47		6000	45000
2	PALM BEACH	PBI	VORTAC	H	124.79	121.79		20.30		2000	45000
3	FREEPORT	ZFP	VOR/DME	H	270.00	267.00	57.57	57.57		5000	45000
4	FORT LAUDERDALE	FLL	VOR/DME	H	046.12	040.12		33.45		6000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
VKZ	VOR/DME	R-029	49	6000	17500
ZFP	VOR/DME	R-270	67	5000	17500

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

REMARKS:
VIRGINIA KEY (FAC 1) AND PALM BEACH (FAC 2) AND FREEPORT (FAC 3) AND FORT LAUDERDALE (FAC 4) USED TO ESTABLISH FIX COORDINATES
PER ESVMS, NO ESV RECORDS ARE RETAINED ON NON U.S. NAVAIDS. WE ARE USING THE ESV DATA FOR ZFP VOR/DME FROM AVNIS.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	BR-054V	2				(US)
EN ROUTE	BR-055V	2				(US)
EN ROUTE	BR-064V	3, 4				(US)
EN ROUTE	BR-068V	3, 4				(US)
IAP	RNAV (GPS) Y RWY 23			KBCT	BOCA RATON	FL (US)
IAP	RNAV (GPS) RWY 24			KPMP	POMPANO BEACH	FL (US)
IAP	RNAV (GPS) RWY 27			KLNA	WEST PALM BEACH	FL (US)
IAP	RNAV (GPS) RWY 33			KLNA	WEST PALM BEACH	FL (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5 **DATE OF REVISION:** 05/02/2013

REASON FOR REVISION:
UPDATED DIST FROM FAC FOR ALL FAC'S.
UPDATED MAG/TRUE BRG FOR PBI TO 124.79/121.79.
UPDATED FIX USE.
ADDED EXISTING ESV FOR VKZ AND ZFP VOR/DME.
UPDATED FAC 4 MAGVAR FROM 0 - 6W, DIST FROM FAC FROM 033.32 TO 033.45.

DEVELOPED BY: **DATE:** 08/16/2012 **OFFICE:** AJV-352 **NAME:** HOWARD HAWKINS

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZMA
ATC FACILITY: MIA AND PBI APP CON
OTHER:

QUALITY 4 CHECKED

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: STOOP **STATE:** FL **COUNTRY:** US

LATITUDE/LONGITUDE: 271511.10N/0800752.77W **TYPE:** WP, INT, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	PALM BEACH	PBI	VORTAC	H	359.00	356.00	34.37	34.37		3000	17500
2	PAHOKEE	PHK	VORTAC	H	046.72	046.72		41.14		2000	17500
3	TREASURE	TRV	VORTAC	H	149.99	142.99	31.84	31.84		2000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
PHK	VORTAC	R-047	42	2000	14600

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

REMARKS:
TREASURE (FAC 3) AND PALM BEACH (FAC 1) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V295	1, 2, 3				FL (US)
EN ROUTE	V492	1, 2, 3				FL (US)
EN ROUTE	V537	1, 2, 3				FL (US)
IAP	RNAV (GPS) RWY 30			KSUA	STUART	FL (US)
IAP	RNAV (GPS)-B			KLNA	WEST PALM BEACH	FL (US)
STAR	CAYSL (RNAV)			KBCT	BOCA RATON	FL (US)
STAR	FRWAY (RNAV)			K06FA	JUPITER	FL (US)
STAR	FRWAY (RNAV)			KF45	WEST PALM BEACH	FL (US)
STAR	FRWAY (RNAV)			KPBI	WEST PALM BEACH	FL (US)
STAR	TUXXI			KPBI	WEST PALM BEACH	FL (US)

REQUIRED CHARTING: STAR, IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 12 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
FAC 3 IDENT (VRB) CHANGED TO TRV.
UPDATED REMARKS.

DEVELOPED BY: **DATE:** 03/29/2012 **OFFICE:** AJV-352 **NAME:** KELLY DEAN

APPROVED BY: **DATE:** 08/20/2012 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZMA
ATC FACILITY: PBI APP CON
OTHER:

QUALITY 2 CHECKED

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **WEST PALM BEACH** STATE: **FL**

AIRPORT NAME: **PALM BEACH COUNTY PARK** ID: **KLNA**

PROCEDURE: **RNAV (GPS)-B** AMDT: **ORIG**

DOCKET#:
(96-AXX-X/Required/Not Required)

ALL DIST TO 1/100 NM; ELEV TO NEAREST FT; COORD TO 1/100 SEC; DEG TO 1/100 DG.

1. Distance from **THLD** to 1000' point **2.83**
   (Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **FINAL** segment at 1000' point **1.20**
   (Enter appropriate segment, final, intermediate, etc.)
3. True Course of **FINAL** segment containing 1000' point **272.00**
4. High Terrain in **FINAL** segment containing 1000' point **29**
5. Distance from **THLD** to 1500' point **4.76**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **FINAL** segment at 1500' point **1.76**
7. True Course of **FINAL** segment containing 1500' point **272.00**
8. High Terrain in **FINAL** segment containing 1500' point **29**
9. Threshold Coordinates (if straight-in) ... **263527.55N** / **0800449.10W**
10. ARP Coordinates ..... **263535.00N** / **0800506.23W**
11. Runway Approach End and distance furthest from ARP ..... RWY **9**
    Distance **0.33** NM
12. FAF Coordinates ..... **263516.82N** / **0795904.13W**

REMARKS: Approach/Drawing attached.