Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: IAP	Date Open: 03/17/2011	Task #: 2011031722749201001	Request #: 20110317227492
Procedure: RNAV (GPS) RWY 4 AMDT 1		Airport ID: KWAL	Airport: WALLOPS FLIGHT FACILITY		Reimbursable #:
City: WALLOPS ISLAND	ST: VA	GPS #:		Estimated Chart Date: 06/27/2013	FICO #:
Fac ID:	Fac. Type: LPV	Specialist: PETER GUIMOND			

LPV

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	12/13/2012	03/04/2013	ADOLFO URRUTIA	
QA:	03/04/2013	03/13/2013	CASIMIR TABAKA	
Liaison:	03/13/2013		Spurlin	APPROVAL REQUEST - MAGVAR

MAG VAR ?

Procedure Comments: ENROUTE-NON **Remark Type:** INFORMATION

pkg 1 of 8

WALLOPS ISLAND, VA WALLOPS FLIGHT FACILITY (KWAL) RNAV (GPS) RWY 4, AMDT 1 (LPV) ENROUTE-NO FC: 5.14.13 PUB: 6.27.13

ATTACHED FORMS: 8260-3; 8260-10; 8260-9; 8260-2(S): CURAB, REV 1; MAGGO-INT, REV 8; RIMUE, REV 1.

CONTACT: DON SMITH/ADOLFO URRUTIA-AJV-352 LEADS, 405.954.1036 / 405.954.2079.

WAAS CH 56331 W04A	APP CRS 043°	Rwy ldg 8748 THRE 34 Apt Elev 40

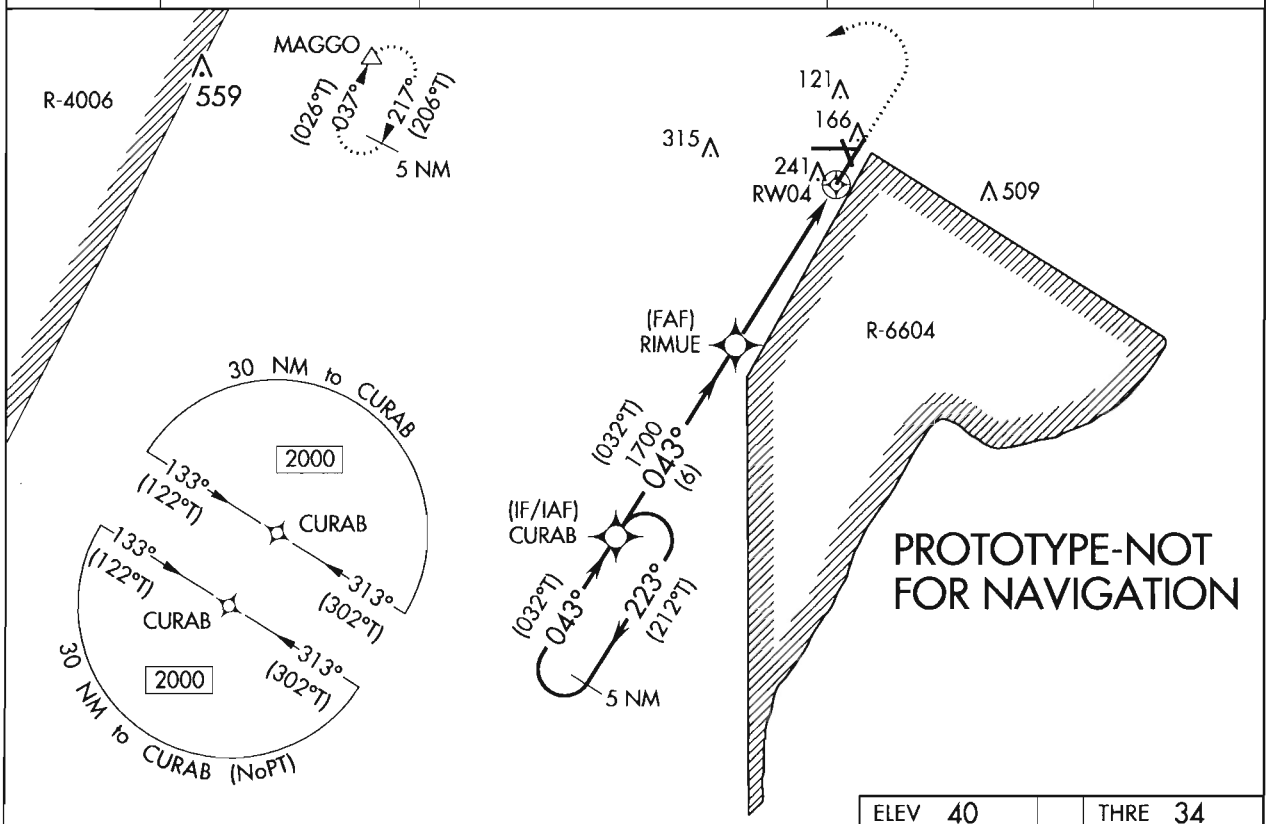
NEW

RNAV (GPS) RWY 4
WALLOPS FLIGHT FACILITY (WAL)

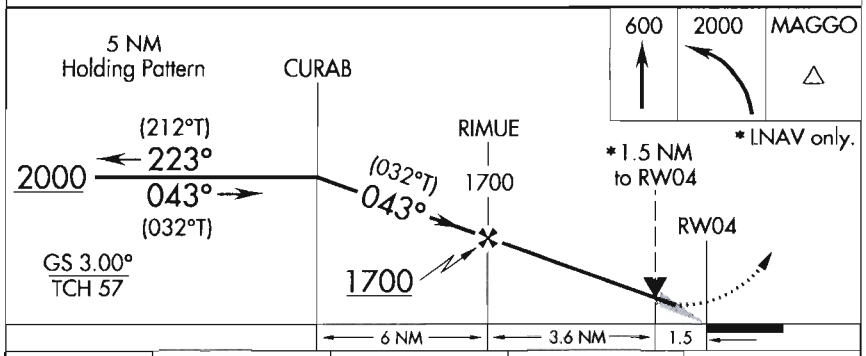
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -11°C (13°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. When Rwy 10 VGSI inoperative, Circling to Rwy 10 NA at night. When local altimeter setting not received, use Salisbury altimeter setting: increase LPV DA to 342 and all Cats visibility ¼ mile; increase LNAV/VNAV DA to 510 and all Cats visibility ¼ mile; increase all MDA 60 feet and LNAV Cats C/D and Circling Cat C visibility ¼ mile. Baro-VNAV and VDP NA when using Salisbury altimeter setting.

MISSED APPROACH: Climb to 600 then climbing left turn to 2000 direct MAGGO and hold.

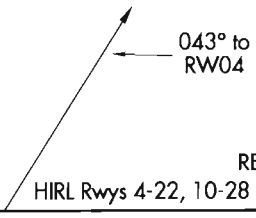
ASOS	PATUXENT APP CON *	NASA WALLOPS TOWER *	GND CON	CLNC DEL
119.175	127.95 314.0	126.5 (CTAF) 306.975 (CTAF)	127.875 269.325	121.7



ELEV 40 THRE 34



CATEGORY	A	B	C	D
LPV DA	284-¾ 250 (300-¾)			
LNAV/VNAV DA	452-1⅜ 418 (500-1⅜)			
LNAV MDA	560-1 526 (600-1)		560-1½ 526 (600-1½)	
C CIRCLING	600-1 560 (600-1)		620-1½ 580 (600-1½)	860-2¾ 820 (900-2¾)



REIL all Rwys
HIRL Rwys 4-22, 10-28 and 17-35

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
CURAB (IF/IAF)	RIMUE (FB)	043.11 / 6.00	1700
RIMUE (FAF)	RW04 (MAP) (FO)	043.15 / 5.05	
RW04 (MAP)	600 MSL	043.15	600
600 MSL	MAGGO (FO)		2000

MISSED APPROACH

LPV: DA
LNAV/VNAV: DA
LNAV: RW04

CLIMB TO 600 THEN CLIMBING LEFT TURN TO 2000 DIRECT MAGGO AND HOLD.

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. HOLD SW CURAB, RT, 043.11 INBOUND, 2000 FT. IN LIEU OF PT (IAF)
3. FAC: 043.15 FAF: RIMUE DIST FAF TO MAP: 5.05 THLD: 5.05
4. MIN. ALT: CURAB 2000, RIMUE 1700
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: 1700 GS ALT AT: RIMUE 1700 OM: ____ MM: ____ IM: ____
7. GS ANGLE: 3.00 TCH: 56.6 34:1 IS CLEAR
8. MSA FROM:

ADDITIONAL FLIGHT DATA:
HOLD SW, RT, 037.01 INBOUND.
FAS OBST: 254 AAO 375300N/0753110W
CHART R-4006.
CHART R-6604.
DISTANCE TO THLD FROM 250 HATH: 0.61 NM.
CHART VDP AT 1.47 MILES TO RW04*
*LNAV ONLY.
WAAS CHANNEL # 56331
REFERENCE PATH ID: W04A
CHART CIRCLING ICON.
LTP HAE: -26.2 M

MAG VAR: 11W EPOCH YEAR: 2015

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	284	3/4	250	284	3/4	250	284	3/4	250	284	3/4	250			
LNAV/VNAV DA	452	1 3/8	418	452	1 3/8	418	452	1 3/8	418	452	1 3/8	418			
LNAV MDA	560	1	526	560	1	526	560	1 1/2	526	560	1 1/2	526			
CIRCLING	600	1	560	600	1	560	620	1 1/2	580	860	2 3/4	820			

NOTES:
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -11C (13F) OR ABOVE 54C (130F).
CHART NOTE: DME/DME RNP-0.3 NA.
CHART NOTE: WHEN RWY 10 VGSI INOPERATIVE, CIRCLING TO RWY 10 NA AT NIGHT.
(SEE FORM 8260-10)

@ CAT D 900-2 3/4
@ NA WHEN LOCAL WEATHER NOT AVAILABLE.

QUALITY 2 CHECKED

CITY AND STATE	ELEVATION: 40 THRE: 34	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
WALLOPS ISLAND, VA	AIRPORT NAME: WALLOPS FLIGHT FACILITY	RNAV	RNAV (GPS) RWY 4, AMDT 1	AMDT: ORIG
				DATED 07/10/2003

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

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
[ ]	[ ]	[X]	[ ]	[X]	[X]	[X] ZDC, NHK APP CON, WAL ATCT, AMGR

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME: PETER R. GUIMOND	FIFO AJV-352	DATE: 02/01/2013
APPROVED BY		
NAME: SUSAN CRUMB MANAGER	FIFO AJV-352	DATE:

CHANGES:

1. AMENDED TDZE 36 TO THR 34.
2. AMENDED AIRPORT MAGVAR FROM 10W TO 11W.
3. ADDED LPV AND LNAV/VNAV LINES OF MINIMA.
4. ADDED TWO SECTOR TAA.
5. DELETED MSA, FEEDER SEGMENTS FROM MAGGO AND CAPE CHARLES, AND INITIAL SEGMENT FROM HAROG.
6. ADDED INITIAL CLIMB TO ALTITUDE OF 600 TO MISSED APPROACH PROCEDURES.
7. MOVED RIMUE 220 FEET SOUTHWEST.
8. MOVED CURAB 206 FEET SOUTHWEST.
9. AMENDED CURAB TO RIMUE COURSE FROM 042.10 TO 043.11
10. AMENDED HOLD-IN-LIEU INBOUND COURSE FROM 042.10 TO 043.11.
11. AMENDED FINAL APPROACH COURSE FROM 042.15 TO 043.15.
12. AMENDED CA LEG ALTITUDE FROM 560 MSL TO 600 MSL.
13. AMENDED FAS OBSTACLE FROM 241 MSL TOWER TO 254 MSL AAO.
14. AMENDED VDP FROM 1.51 NM TO RW04 TO 1.47 NM TO RW04.

SEE 8260-10

REASONS:

1. IAW CURRENT DOCUMENTATION POLICY.
2. EASTERN FPT REQUEST.
3. EASTERN FPT REQUEST.
4. EASTERN FPT REQUEST.
5. NO LONGER REQUIRED, TAA DEVELOPED.
6. NEEDED TO COMPLETE LPV SECTION 1 MISSED APPROACH CONSTRUCTION.
7. PFAF POSITIONED IAW FAAO 8260.54, FORMULA 2-16B.
8. POSITIONED ON EXTENDED RUNWAY CENTERLINE.
9. COMPUTED USING AMENDED MAVAR VALUE AND FIX POSITIONS.
10. COMPUTED USING AMENDED MAVAR VALUE AND FIX POSITIONS.
11. COMPUTED USING AMENDED MAGVAR VALUE.
12. CLIMB TO ALTITUDE ADDED TO MISSED APPROACH INSTRUCTIONS.
13. NEW OBSTACLE STUDY.
14. COMPUTED FROM AMENDED TCH VALUE.

SEE 8260-10

QUALITY 2 CHECKED

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NOTES, (CONT.):
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE SALISBURY ALTIMETER SETTING: INCREASE LPV DA TO 342 AND ALL CATS VISIBILITY 1/4 MILE; INCREASE LNAV/VNAV DA TO 510 AND ALL CATS VISIBILITY 1/4 MILE; INCREASE ALL MDA 60 FEET AND LNAV CATS C/D AND CIRCLING CAT C VISIBILITY 1/4 MILE.
CHART NOTE: BARO-VNAV AND VDP NA WHEN USING SALISBURY ALITMETER SETTING.

TAA

	FROM	TO	ALT
1.	313/30 CW 133/30 (NOPT)	CURAB (IF/IAF) (FB)	2000
2.	133/30 CW 313/30	CURAB (IF/IAF) (FO)	2000

QUALITY 2 CHECKED

CITY AND STATE	ELEVATION: 40 THRE: 34	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
WALLOPS ISLAND, VA	AIRPORT NAME: WALLOPS FLIGHT FACILITY	RNAV	RNAV (GPS) RWY 4, AMDT 1	AMDT: ORIG
				DATED: 07/10/2003

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:

CHANGES CONT.
15. AMENDED PROCEDURE TCH FROM 45 FEET TO 56.6 FEET.
16. DELETED NOTE: STRAIGHT-IN MINIMUMS NA AT NIGHT.
17. DELETED NOTE: GPS OR RNP-0.3 REQUIRED.
18. DELETED PROFILEVIEW NOTE: VGSI AND VGSI ANGLES NOT COINCIDENT.
19. ADDED BACK-UP ALTIMETER NOTE.
20. ADDED NOTE: BARO-VNAV AND VDP NA WHEN USING SALISBURY ALTIMETER SETTING.
21. ADDED NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -11C (13F) OR ABOVE 54C (130F).
22. ADDED NOTE: WHEN RWY 10 VGSI INOPERATIVE, CIRCLING TO RUWNAY 10 NA NIGHT.
23. INCREASED CAT C CIRCLING MDA/HAA FROM 600/560 TO 620/580.
24. INCREASED CAT D CIRCLING MDA/HAA FROM 600/560 TO 860/820 AND VISIBILITY FROM 2 TO 2 3/4.
25. ADDED CHART CIRCLING ICON IN ADDITIONAL FLIGHT DATA.
26. AMENDED ALTERNATE MINIMUMS FROM NA TO STANDARD EXCEPT FOR CAT D AND NA WHEN LOCAL WEATHER NOT AVAILABLE.
27. DELETED PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL AT CCV VORTAC ON V139 SOUTHWEST BOUND.
28. UPDATED DISTANCE FROM THLD FROM 5.02 TO 5.05.
29. ADDED DISTANCE FAF TO MAP VALUE (5.05).

REASONS:

REASONS CONT.
15. MATCHES VGSI TCH.
16. TERPS VOLUME 1 STRAIGHT-IN VISUAL SURFACE AREA CLEAR OF PENETRATIONS.
17. NO LONGER REQUIRED.
18. PROCEDURE TCH AND PENDING VGSI TCH VALUES WITHIN COINCIDENCE TOLERANCE.
19. EASTERN FPT REQUEST. TOWER EQUIPPED WITH REDUNDANT ALTIMETER REPORTING EQUIPMENT BUT DOES NOT OPERATE 24/7.
20. IAW CURRENT DOCUMENTATION POLICY.
21. IAW CURRENT DOCUMENTATION POLICY.
22. EASTERN FPT REQUEST TO MITIGATE 20:1 PENETRATIONS. AFS APPROVAL LETTER DRAFTED.
23. NEW CONTROLLING OBSTACLE IDENTIFIED USING LARGER CIRCLING AREA.
24. NEW CONTROLLING OBSTACLE IDENTIFIED USING LARGER CIRCLING AREA. VISIBILITY COMPUTED USING AMENDED HAA VALUE.
25. IAW CURRENT DOCUMENTATION POLICY.
26. IAW CURRENT DOCUMENTATION POLICY.
27. NO LONGER REQUIRED.
28. COMPUTED FROM AMENDED PFAF POSITION.
29. IAW CURRENT DOCUMENTATION POLICY.

QUALITY 2 CHECKED

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

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

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FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KWAL
RUNWAY	RW04
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W04A
LTP/FTP LATITUDE	375537.4510N
LTP/FTP LONGITUDE	0752815.4100W
LTP/FTP ELLIPSOIDAL HEIGHT	-00262
FPAP LATITUDE	375652.9360N
FPAP LONGITUDE	0752715.4020W
THRESHOLD CROSSING HEIGHT (TCH)	00056.6
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0080
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	2E306A43

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00104
FPAP ORTHOMETRIC HEIGHT	+00104

QUALITY 2 CHECKED

CITY AND STATE	ELEVATION: 40 THRE: 34	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
WALLOPS ISLAND, VA	AIRPORT NAME: WALLOPS FLIGHT FACILITY	RNAV	RNAV (GPS) RWY 4, AMDT 1	AMDT: ORIG
				DATED: 07/10/2003

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:

WHITEOUT CORRECTIONS
1. TERMINAL ROUTES: (FAF) ADDED ADJACENT RIMUE.
2. CHANGES LISTED ON BACK OF PAGE 2 FORMATTED TO APPEAR AS SEPARATE LINES.
3. RNP VALUE OF 020 REMOVED FROM LINE SEQUENCE 060 ON AIRINC PAGE 4 AND ON FLIGHT CHECK SUMMARY PAGE.
4. CORRECTED SUPERSEDED DATE FOR ORIG TO READ 7/10/2003.
5. ADDED BACK-UP ALTIMETER ADJUSTMENT TO BLOCK 3 OF THE 8260-9.

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   CURAB K60    W     N37461529W075354103                      W0114     NAR           CURAB
        SUSAEAENRT   MAGGO K60    C   L N37585848W075440139                      W0114     NAR           MAGGO
        SUSAEAENRT   RIMUE K60    W     N37512049W075313938                      W0115     NAR           RIMUE

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KWALK6AWAL     0     087YHN37562470W075275900W011000040         1800018000C    MNAR    WALLOPS FLIGHT FACILITY

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KWALK6FR04   ACURAB 010CURABK6EA0EE AR   HF                    04310050    + 02000     18000                A JS
        SUSAP KWALK6FR04   R      010CURABK6EA0E  I    IF                                + 02000     18000                A JS
        SUSAP KWALK6FR04   R      020RIMUEK6EA1E  F 051TF                    04310060    + 01700                          A JS
        SUSAP KWALK6FR04   R      020RIMUEK6EA2WALPV       ALNAV/VNAV ALNAV                                                JS
        SUSAP KWALK6FR04   R      030RW04 K6PG0GY M 031TF                    04320051      00091            -300          A JS
        SUSAP KWALK6FR04   R      040         0  M     CA                    0432        + 00600                          A JS
        SUSAP KWALK6FR04   R      050MAGGOK6EA0EY  L   DF                                + 02000                          A JS
        SUSAP KWALK6FR04   R      060MAGGOK6EA0EE  R   HM                    03700050    + 02000                          A JS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KWALK6GRW04    0087480432 N37553745W075281541+0000    -0026200034000057150R

                 1         2         3         4         5         6         7         8         9         0         1         2         3
PP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KWALK6PR04   RW04 001 0000W04A0N3755374510W07528154100-002620300N3756529360W07527154020106750080000566F4005002E306A43
        SUSAP KWALK6PR04   RW04 002E      +00104+00104LPV       56331
```

QUALITY 2 CHECKED

CITY AND STATE	ELEVATION: 40 THRE: 34	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
WALLOPS ISLAND, VA	AIRPORT NAME: WALLOPS FLIGHT FACILITY	RNAV	RNAV (GPS) RWY 4, AMDT 1	AMDT: ORIG
				DATED: 07/10/2003

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**

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ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	CURAB	CURAB	010	IAF	HF	R	FO		043.1(032.1T)	005.0	AA 02000	
		CURAB	010	FACF	IF		FB				AA 02000	
		RIMUE	020	FAF	TF		FB	0.5	043.1(032.1T)	006.0	AA 01700	
		RW04	030	MAP	TF		FO	0.3	043.2(032.2T)	005.1	AT 00091	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		043.2(032.2T)		AA 00600	
	MAGGO	050		DF	L	FO				AA 02000	
	MAGGO	060		HM	R	FO		037.0(026.0T)	005.0	AA 02000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	CURAB	N374615.29	W0753541.03	N3746.255	W07535.684
	MAGGO	N375858.48	W0754401.39	N3758.975	W07544.023
	RIMUE	N375120.49	W0753139.38	N3751.342	W07531.656
	RW04	N375537.45	W0752815.41	N3755.624	W07528.257

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW04	00034	57

QUALITY 2 CHECKED

CITY AND STATE	ELEVATION: 40 THRE: 34	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
WALLOPS ISLAND, VA	AIRPORT NAME: **WALLOPS FLIGHT FACILITY**	**RNAV**	**RNAV (GPS) RWY 4, AMDT 1**	AMDT: **ORIG**
				DATED: **07/10/2003**

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.
STRAIGHT-IN AREA	313/30 CW 133/30	CURAB	1. TOWER (51-001098)	374242.26N/0754108.47W	511 (1A)	1000	AT489	2000
			2. TERRAIN	374654.00N/0753845.00W	56 (100)		AS1500	1600
STRAIGHT-IN AREA	133/30 CW 313/30	CURAB	3. TOWER (24-000001)	375831.00N/0754945.00W	559 (4D)	1000	AT441	2000
			4. TERRAIN	374800.00N/0754800.00W	56 (100)		AS1500	1600
INTERMEDIATE	CURAB (IF/IAF)	RIMUE	5. TOWER (51-000653)	375032.29N/0753417.34W	522 (1A)	500	AT678	1700
			6. TERRAIN	374800.00N/0753530.00W	56 (100)		AS1500	1600
FINAL: LPV	RIMUE	RW04				ASC		284/250
FINAL: LNAV/VNAV	RIMUE	RW04	7. TOWER (51-000307)	375545.00N/0752852.00W	241 (5D)	PDA	AC50	452/418
FINAL: LNAV	RIMUE	RW04	8. AAO	375259.70N/0753110.40W	254 (2C)	250	XP56	560
2. HOLD-IN-LIEU-OF-PT	CURAB	P-6	5. TOWER (51-000653)	375032.29N/0753417.34W	522 (1A)	1000	AT478	2000
			2. TERRAIN	374654.00N/0753845.00W	56 (100)		AS1500	1600
3. MISSED APPROACH — MAP:	DA / DA / RW04	MAGGO				ASC		2000
			9. TOWER (51-001697)	375623.80N/0753230.65W	315 (1A)	1000		1400
ELEV:	94/291/460		10. TERRAIN	375436.00N/0753257.00W	43 (0)		AS1500	1500
			11. TOWER (51-000307)	375545.00N/0752852.00W	241 (5D)	300	AC50	600
			11. TOWER (51-000307)	375545.00N/0752852.00W	241 (5D)	300	AC50	600
			9. TOWER (51-001697)	375623.80N/0753230.65W	315 (1A)	300		620
			12. TOWER (51-000306)	375514.00N/0752305.00W	509 (5D)	300	AC50	860

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL
CATEGORY A	1.3 NM	350	560
CATEGORY B	1.5 NM	450	560
CATEGORY C	1.7 NM	450	580
CATEGORY D	2.3 NM	550	820
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

QUALITY CHECKED

CITY AND STATE	ELEVATION: 40 / AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
WALLOPS ISLAND, VA	WALLOPS FLIGHT FACILITY	RNAV	RNAV (GPS) RWY 4, AMDT 1	AEA

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE	3. ALTIMETER SETTING
ZDC ARTCC NHK APP CON WAL TOWER	N W S / F A A / A / C — OTHER: ASOS	SOURCE: KWAL / KSBY DISTANCE: 0 / 24.06 HOURS REMOTE OPERATION: 24 / BACKUP
SATISFACTORY ON: X VHF X UHF HF	LOCATION:	ADJUSTMENT: 0 / 58

4. MONITOR STATUS	
PRIMARY NAVAID:	
MONITOR POINT:	
HRS OPTN: CAT 1	
HRS OPTN: CAT 3	

5. APPROACH & RUNWAY LIGHTING	
	ALS
	(S) SALS
	MALS
X	HIRL 17, 10, 28, 22, 04, 35
	MIRL
X	REIL 17, 10, 28, 22, 04, 35
	TDZ
	C/LINE
X	OTHER (SPECIFY) PAPI-4L 17, 10, 28, 22, 04, 35

6. RUNWAY MARKINGS	
BASIC	
ALL WEATHER	
INSTRUMENT	NPI-G 10, 28, 22, 04; -F 17, 35

7. RUNWAY VISUAL RANGE
APPROACH
MIDFIELD
ROLL OUT

8. GLIDE PATH		
GP ANGLE: 3.00	ELEV RWY THRESHOLD: 34.0	
DISTANCE FROM RWY:	ELEV GP ANTENNA:	
	THRESHOLD CROSSING HEIGHT: 56.6	

9. FINAL APPROACH COURSE AIMING			
	X	RUNWAY THRESHOLD	FT. FROM THRESHOLD
	X	ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS: NONE

PART D - PREPARED BY: PETER R. GUIMOND	DATE: 02/01/2013
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-352

PART C - REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

2. KWAL ASOS ON SERVICE A. KSBY ASOS ON SERVICE A.
3. KSBY 24-HR BACK-UP.
5. VGSI DATA: 3.00/56.6

SEE ATTACHED AIRSPACE LETTER.

100 FOOT TREES USED PER EASTERN FPT.

NON-STANDARD TAA MISSED APPROACH DESIGN REQUESTED BY EASTERN FPT. ALL RNAV MISSED APPROACHES WILL TERMINATE AT MAGGO FOR ATC STANDARDIZATION.

LPV, LNAV/VNAV, AND LNAV INTERMEDIATE SEGMENTS HAVE THE SAME CONTROLLING OBSTACLES.

LPV OCS SURFACE = 34:1

LPV SURFACE CLEAR OF OBSTACLES. PROCEDURE LIMITED TO 250 HAT DUE TO NPI MARKINGS (AC150/500-13A, CHAP 3).

LNAV/VNAV AVERAGE COLD TEMPERATURE BASED ON 5 YEAR HISTORY: (2007, 11F; 2008, 10F; 2009, 6F; 2010, 16F; 2011, 11F).
LNAV/VNAV OCS SURFACE = 23.00:1
CRITICAL TEMPERATURES
CRITICAL LOW: -11C (13F). CRITICAL HIGH: 54C (130F).
ACT: -11C. AIRPORT ISA: 14.92C. DELTA ISA LOW: -25.92C.
CRITICAL LOW TEMP BASED ON EFFECTIVE GPA
DESCENT RATE: STANDARD TEMP 954, HIGH TEMP 1114
TEMPERATURE LIMITS, DELTA ISA LOW, AND DESCENT VALUES DERIVED FROM AFS-400 CALCULATOR

A STEPDOWN FIX WILL NOT IMPROVE LNAV MINIMUMS. IF ESTABLISHED, A 241 MSL TOWER (51-000307) BECOMES THE CONTROLLING OBSTACLE. AFTER APPLICATION OF 5D ACCURACY ADJUSTMENT, THE MDA COMPUTES TO 560 MSL.

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
CAT D: 3.70 NM

RASS (PRESSURE PATTERNS ARE THE SAME):
KWAL 40.2, KSBY 52.6
RA = 57.08
RASS ROUNDED UP TO 58 FEET FOR ALL DA AND 60 FEET FOR ALL MDA AND PUBLISHED AS A NOTE.

TERPS, VOLUME 1, VISUAL PORTION OF FINAL PENETRATIONS:
(EASTERN FPT NOTIFIED 1/16/2013)
RWY 10, 20:1 PENETRATION:
83 TREE (KWALT0291) 375637.39N/0752923.27W (5.42)

25 DEGREE BANK ANGLE USED IN MISSED APPROACH.

XP56 - RETAIN PUBLISHED 560 MSL MDA

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: CURAB **STATE:** VA **COUNTRY:** US

LATITUDE/LONGITUDE: 374615.29N/0753541.03W **TYPE:** WP

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

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

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	SW		WP	223.11	043.11	R		5	2000	6000	6	8

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	TOWER (51-000653)	375032.29N/0753417.34W	522	1A

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
HOLDING EVALUATED AT 230 KIAS FOR HIGH PERFORMANCE NASA AIRCRAFT.
HOLDING PATTERN PENETRATES R-6604.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 4		1	KWAL	WALLOPS ISLAND	VA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 06/27/2013

REASON FOR REVISION:
1. MOVED FIX 206.17 FEET SOUTHWEST.
2. DELETED FAC 1.
3. AMENDED PAT 1 INBOUND COURSE FROM 042.10 TO 043.11.
4. AMENDED PAT 1 MAX HOLDING ALTITUDE FROM 3000 TO 6000.
5. AMENDED PAT 1 CONTROLLING OBSTACLE FROM 511 MSL TOWER TO 522 MSL TOWER.

DEVELOPED BY: **DATE:** 01/16/2013 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZDC
ATC FACILITY: NHK APP CON
OTHER:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: HAROG **STATE:** VA **COUNTRY:** US

LATITUDE/LONGITUDE: 374020.67N/0754020.70W **TYPE:** WP

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

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	CURAB					212.18	18.02				17500

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 4			KWAL	WALLOPS ISLAND	VA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 07/10/2003

DEVELOPED BY: **DATE:** 11/15/2002 **OFFICE:** AVN-140 **NAME:** KEITH BUTCHER

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: NYC
ARTCC: ZDC
ATC FACILITY: NHK APP CON
OTHER:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: MAGGO **STATE:** MD **COUNTRY:** US

LATITUDE/LONGITUDE: 375858.48N/0754401.39W **TYPE:** WP, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

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	SALISBURY	SBY	VORTAC	L	218.01	206.01	24.13	24.13		2000	17500

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

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	SW	SBY	VORTAC	218.01	038.01	R	1		2000	6000	6	8
2	SW		WP	217.01	037.01	R		5	2000	6000	6	8

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	TOWER (24-000001)	375831.00N/0754945.00W	559	4D
2	230	TOWER (24-000001)	375831.00N/0754945.00W	559	4D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
HOLDING AT OR ABOVE 3500 FT PENETRATES R-4006.
230 KIAS HOLDING EVALUATED FOR HIGH PERFORMANCE NASA AIRCRAFT.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE (US)
EN ROUTE	V1	1				
IAP	RNAV (GPS) RWY 5			KSBY	SALISBURY	MD (US)
IAP	RNAV (GPS) RWY 10		2	KWAL	WALLOPS ISLAND	VA (US)
IAP	RNAV (GPS) RWY 17		2	KWAL	WALLOPS ISLAND	VA (US)
IAP	RNAV (GPS) RWY 22		2	KWAL	WALLOPS ISLAND	VA (US)
IAP	RNAV (GPS) RWY 28		2	KWAL	WALLOPS ISLAND	VA (US)
IAP	RNAV (GPS) RWY 35		2	KWAL	WALLOPS ISLAND	VA (US)
IAP	RNAV (GPS) RWY 4		2	KWAL	WALLOPS ISLAND	VA (US)
IAP	VOR/DME OR TACAN RWY 10	1	1	KWAL	WALLOPS ISLAND	VA (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8 **DATE OF REVISION:** 06/27/2013

REASON FOR REVISION:
1. DELETED PAT 2.
2. RENUMBERED CURRENT PAT 3 TO PAT 2.
3. AMENDED PAT 1 AND PAT 2 MAX HOLDING ALTITUDE FROM 14000 TO 6000.
4. UPDATED FIX USE.

DEVELOPED BY: **DATE:** 01/14/2013 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZDC
ATC FACILITY: NHK APP CON
OTHER:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: RIMUE **STATE:** VA **COUNTRY:** US

LATITUDE/LONGITUDE: 375120.49N/0753139.38W **TYPE:** WP

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

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 4			KWAL	WALLOPS ISLAND	VA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 06/27/2013

REASON FOR REVISION:
1. MOVED FIX 222.53 FEET SOUTHWEST.
2. DELETED FAC 1.

DEVELOPED BY: **DATE:** 01/16/2013 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZDC
ATC FACILITY: NHK APP CON
OTHER:

QUALITY 2 CHECKED

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **WALLOPS ISLAND** STATE: **VA**

AIRPORT NAME: **WALLOPS FLIGHT FACILITY** ID: **KWAL**

PROCEDURE: **RNAV (GPS) RWY 4** AMDT: **1**

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 **THRESHOLD** to 1000' point **3.17**
   (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 **032.15**
4. High Terrain in **FINAL** segment containing 1000' point **54**
5. Distance from **THRESHOLD** to 1500' point **4.85**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **FINAL** segment at 1500' point **1.95**
7. True Course of **FINAL** segment containing 1500' point **032.15**
8. High Terrain in **FINAL** segment containing 1500' point **54**
9. Threshold Coordinates (if straight-in) ... **375537.45N** / **0752815.41W**
10. ARP Coordinates ..... **375624.70N** / **0752759.00W**
11. Runway Approach End and distance furthest from ARP.....RWY **10**
    Distance **0.90** NM
12. FAF Coordinates ..... **375120.49N** / **0753139.38W**
    (Click to Select)

REMARKS: Approach/Drawing attached.
12. IF/IAF COORDINATES: CURAB, 374615.29N/0753541.03W, 30 NM RADIUS.

Federal Aviation Administration

Memorandum

Date:

To: Dick Powell Manager, National Flight Data Center, AJV-21

From: Susan L. Crumb, Manager, Eastern Product Team, AJV-352

Subject: **ACTION:** Magnetic Variation Change for Wallops Flight Facility, Wallops Island, VA (KWAL)

The Magnetic Variation (MV) data for the airport(s) and/or facility(s) listed under the 'Airport/Facility" column will be revised effective concurrent with the publication of the procedure(s) listed below.

RNAV (GPS) RWY 4, AMDT 1
RNAV (GPS) RWY 10, AMDT 1
RNAV (GPS) RWY 17, AMDT 1
RNAV (GPS) RWY 22, AMDT 1
RNAV (GPS) RWY 28, AMDT 1
RNAV (GPS) RWY 35, ORIG

Estimated Chart Date: 06/27/2013

Please publish these changes in the National Flight Data Digest.

VIRGINIA

Location	Name	Airport /Facility	Identifier	Assigned Magnetic Variation Is	Epoch Year
Wallops Island	Wallops Flight Facility	Airport	KWAL / WAL	Old 10° West New 11° West	2015

If you have any questions please notify Susan L. Crumb, susan.l.crumb@faa.gov (405-954-8686).