Flight Procedure Tracking Form

Action:	Task Type:	Date Open:	Task #:	Request #:
FLIGHT CHECK	IAP	10/12/2012	2011031722749201006	20110317227492

Procedure: RNAV (GPS) RWY 35 ORIG

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

P1

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

Pg 6 of 8

WALLOPS ISLAND, VA WALLOPS FLIGHT FACILITY (KWAL) RNAV (GPS) RWY 35, ORIG (LPV) ENROUTE-NO FC: 5.14.13 PUB: 6.27.13

ATTACHED FORMS: 8260-3; 8260-10; 8260-9; 8260-2(S): MAGGO-INT, REV 8; UFERI, ORIG; ZELAP, ORIG.

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

WAAS	APP CRS	Rwy Idg	8748
CH 53732	349°	THRE	35
W35A		Apt Elev	40

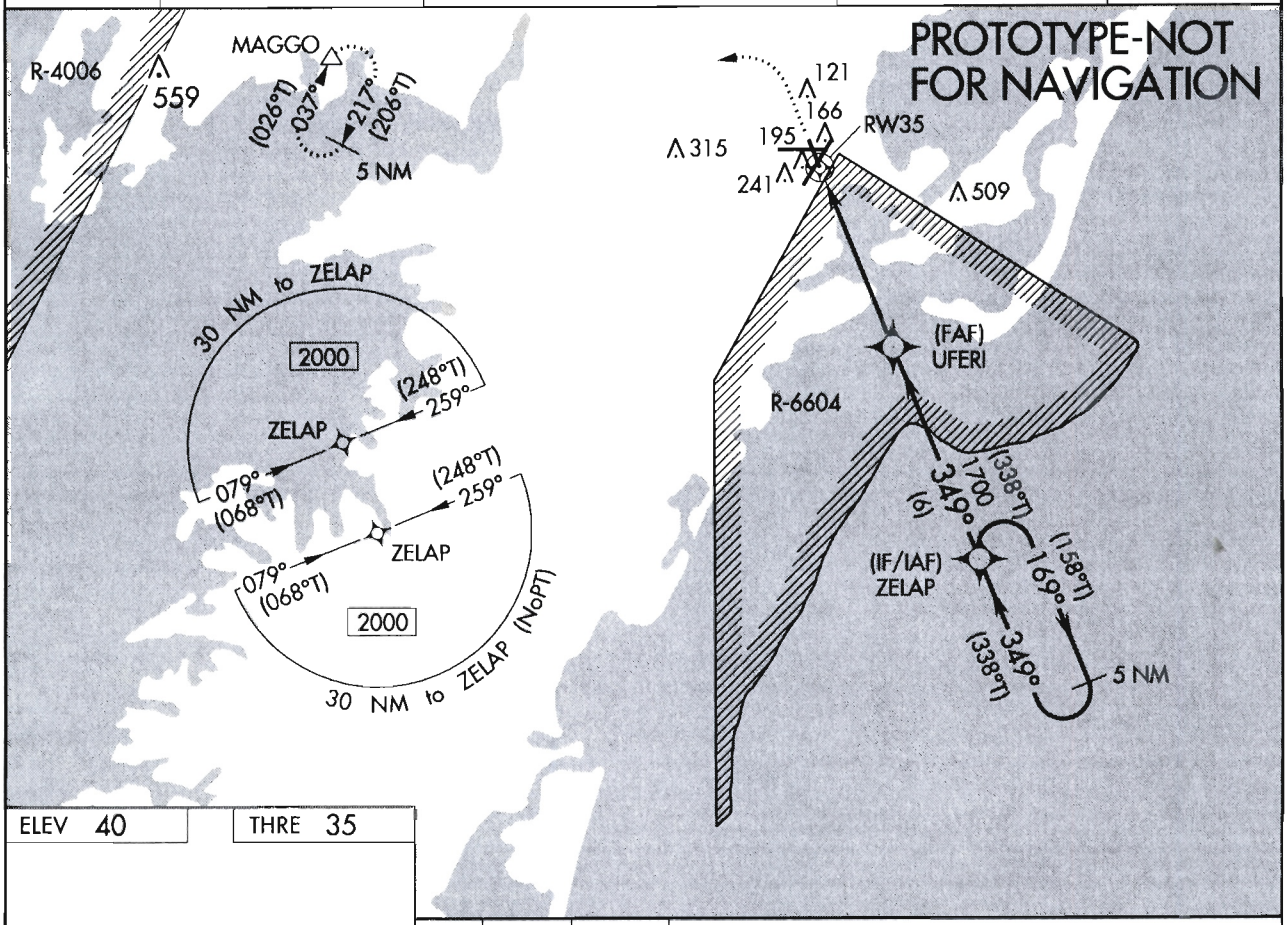
RNAV (GPS) RWY 35

WALLOPS FLIGHT FACILITY (WAL)

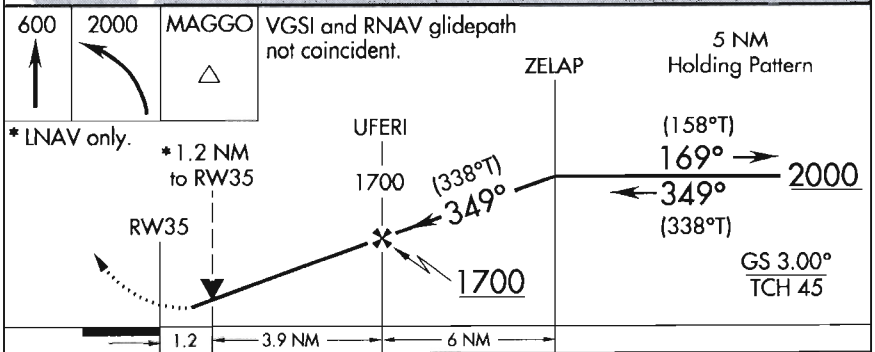
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -11°C (13°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. When Rwy 10 VGSI inoperative, Circling to Rwy 10 NA at night. When local altimeter setting not received, use Salisbury altimeter setting: increase LPV DA to 343 , increase LNAV/VNAV DA to 464 and all Cats visibility ¼ mile; increase all MDA 60 feet and LNAV Cats C/D and Circling Cat C visibility ⅛ mile and Circling Cat C visibility ¼ mile. Baro-VNAV and VDP NA when using Salisbury altimeter setting. Helicopter visibility reduction below ¾ SM not authorized. Procedure NA when R-6604 active.

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 35



CATEGORY	A	B	C	D
LPV DA	285-1		250 (300-1)	
LNAV/VNAV DA	406-1¼		371 (400-1¼)	
LNAV MDA	460-1	425 (500-1)	460-1¼	425 (500-1¼)
C CIRCLING	600-1	560 (600-1)	620-1½ 580 (600-1½)	860-2¾ 820 (900-2¾)

349° to RW35

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
ZELAP (IF/IAF)	UFERI (FB)	348.77 / 6.00	1700
UFERI (FAF)	RW35 (MAP) (FO)	348.75 / 5.09	
RW35 (MAP)	600 MSL	348.75	600
600 MSL	MAGGO (FO)		2000

MISSED APPROACH

LPV: DA
LNAV/VNAV: DA
LNAV: RW35

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 S ZELAP, RT, 348.77 INBOUND, 2000 FT. IN LIEU OF PT (IAF)
3. FAC: 348.75 FAF: UFERI DIST FAF TO MAP: 5.09 THLD: 5.09
4. MIN. ALT: ZELAP 2000, UFERI 1700
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: 1700 GS ALT AT: UFERI 1700 OM: ____ MM: ____ IM: ____
7. GS ANGLE: 3.00 TCH: 45.0 34:1 IS NOT CLEAR
8. MSA FROM:

ADDITIONAL FLIGHT DATA:
HOLD SW, RT, 037.01 INBOUND.
FAS OBST: 209 AAO 375249N/0752620W
CHART R-4006.
CHART R-6604.
DISTANCE TO THLD FROM 250 HATH: 0.64 NM.
CHART VDP AT 1.15 MILES TO RW35*
*LNAV ONLY.
WAAS CHANNEL # 53732
REFERENCE PATH ID: W35A
CHART CIRCLING ICON
LTP HAE: -26 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	285	1	250	285	1	250	285	1	250	285	1	250			
LNAV/VNAV DA	406	1 1/4	371	406	1 1/4	371	406	1 1/4	371	406	1 1/4	371			
LNAV MDA	460	1	425	460	1	425	460	1 1/4	425	460	1 1/4	425			
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 PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT.
(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: 35 AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
WALLOPS ISLAND, VA	WALLOPS FLIGHT FACILITY	RNAV	RNAV (GPS) RWY 35, ORIG	AMDT: NONE
				DATED

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:	FIFO	DATE:
PETER R. GUIMOND	**AJV-352**	**02/01/2013**

APPROVED BY		
NAME:	FIFO	DATE:
SUSAN CRUMB **MANAGER**	**AJV-352**	

CHANGES:

ORIGINAL.

REASONS:

EASTERN FPT REQUEST.

QUALITY 2 CHECKED

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NOTES, (CONT.):
CHART NOTE: WHEN RWY 10 VGSI INOPERATIVE, CIRCLING TO RWY 10 NA AT NIGHT.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE SALISBURY ALTIMETER SETTING: INCREASE LPV DA TO 343; INCREASE LNAV/VNAV DA TO 464 AND ALL CATS VISIBILTY 1/4 MILE; INCREASE ALL MDA 60 FEET AND LNAV CATS C/D VISIBILITY 1/8 MILE AND CIRCLING CAT C VISIBILITY 1/4 MILE.
CHART NOTE: BARO-VNAV AND VDP NA WHEN USING SALISBURY ALTIMETER SETTING.
CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: PROCEDURE NA WHEN R-6604 ACTIVE.

TAA

	FROM	TO	ALT
1.	259/30 CW 079/30 (NOPT)	ZELAP (IF/IAF) (FB)	2000
2.	079/30 CW 259/30	ZELAP (IF/IAF) (FO)	2000

QUALITY 2 CHECKED

CITY AND STATE		FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	
WALLOPS ISLAND, VA	ELEVATION: 40 THRE: 35 AIRPORT NAME: WALLOPS FLIGHT FACILITY	RNAV	RNAV (GPS) RWY 35, ORIG	SUP: 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:

WHITEOUT CORRECTIONS
1. TERMINAL ROUTES: (FAF) ADDED ADJACENT UFERI.
2. RNP VALUE OF 020 REMOVED FROM LINE SEQUENCE 060 ON AIRINC PAGE 4 AND ON FLIGHT CHECK SUMMARY PAGE.
3. ADDED BACK-UP ALTIMETER ADJUSTMENT TO BLOCK 3 OF THE 8260-9.

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	RW35
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W35A
LTP/FTP LATITUDE	375605.8675N
LTP/FTP LONGITUDE	0752741.7750W
LTP/FTP ELLIPSOIDAL HEIGHT	-00260
FPAP LATITUDE	375728.4060N
FPAP LONGITUDE	0752824.4875W
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	1288
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	E309AF9C

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00105
FPAP ORTHOMETRIC HEIGHT	+00105

QUALITY 2 CHECKED

CITY AND STATE	ELEVATION: 40 THRE: 35	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
WALLOPS ISLAND, VA	AIRPORT NAME: WALLOPS FLIGHT FACILITY	RNAV	RNAV (GPS) RWY 35, ORIG	AMDT: NONE
				DATED:

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

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**

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ARINC PACKET - 424-18 - RNAV (GPS)

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP       123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
         ------------------------------------------------------------------------------------------------------------------------------------
         SUSAEAENRT   MAGGO K60    C   L N37585848W075440139                      W0114     NAR           MAGGO
         SUSAEAENRT   UFERI K60    W     N37512301W075251562                      W0115     NAR           UFERI
         SUSAEAENRT   ZELAP K60    W     N37454941W075222368                      W0115     NAR           ZELAP

                 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 KWALK6FR35   AZELAP 010ZELAPK6EA0EE AR   HF                    34880050    + 02000     18000                A JS
         SUSAP KWALK6FR35   R      010ZELAPK6EA0E  I    IF                                + 02000     18000                A JS
         SUSAP KWALK6FR35   R      020UFERIK6EA1E  F 051TF                    34880060    + 01700                          A JS
         SUSAP KWALK6FR35   R      020UFERIK6EA2WALPV       ALNAV/VNAV ALNAV                                               JS
         SUSAP KWALK6FR35   R      030RW35 K6PG0GY M 031TF                    34880051      00080            -300          A JS
         SUSAP KWALK6FR35   R      040         0  M     CA                    3488        + 00600                          A JS
         SUSAP KWALK6FR35   R      050MAGGOK6EA0EY  L   DF                              + 02000                          A JS
         SUSAP KWALK6FR35   R      060MAGGOK6EA0EE  R   HM                    03700050    + 02000                          A JS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY   123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
         ------------------------------------------------------------------------------------------------------------------------------------
         SUSAP KWALK6GRW35    0048083487 N37560587W075274178-0100    -0026000035000045150R

                 1         2         3         4         5         6         7         8         9         0         1         2         3
PP       123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
         ------------------------------------------------------------------------------------------------------------------------------------
         SUSAP KWALK6PR35   RW35 001 0000W35A0N3756058675W07527417750-002600300N3757284060W075282448751067512880004 50F400500E309AF9C
         SUSAP KWALK6PR35   RW35 002E      +00105+00105LPV       53732
```

QUALITY 2 CHECKED

CITY AND STATE	ELEVATION: 40 THRE: 35	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
WALLOPS ISLAND, VA	AIRPORT NAME: **WALLOPS FLIGHT FACILITY**	**RNAV**	**RNAV (GPS) RWY 35, ORIG**	AMDT: **NONE**
				DATED:

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

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
	ZELAP	ZELAP	010	IAF	HF	R	FO		348.8(337.8T)	005.0	AA 02000	
		ZELAP	010	FACF	IF		FB				AA 02000	
		UFERI	020	FAF	TF		FB	0.5	348.8(337.8T)	006.0	AA 01700	
		RW35	030	MAP	TF		FO	0.3	348.8(337.8T)	005.1	AT 00080	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		348.8(337.8T)		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
	MAGGO	N375858.48	W0754401.39	N3758.975	W07544.023
	UFERI	N375123.01	W0752515.62	N3751.384	W07525.260
	ZELAP	N374549.41	W0752223.68	N3745.824	W07522.395
	RW35	N375605.87	W0752741.78	N3756.098	W07527.696

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW35	00035	45

QUALITY 2 CHECKED

CITY AND STATE	ELEVATION: **40** **THRE: 35**	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
WALLOPS ISLAND, VA	AIRPORT NAME: **WALLOPS FLIGHT FACILITY**	**RNAV**	**RNAV (GPS) RWY 35, ORIG**	AMDT: **NONE**
				DATED:

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

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	259/30 CW 079/30	ZELAP	1. TOWER (51-001098)	374242.26N/0754108.47W	511 (1A)	1000	AT489	2000
			2. TERRAIN	374127.00N/0754224.00W	53 (100)		AS1500	1600
STRAIGHT-IN AREA	079/30 CW 259/30	ZELAP	3. TOWER (24-000001)	375831.00N/0754945.00W	559 (4D)	1000	AT441	2000
			4. TERRAIN	374654.00N/0753845.00W	56 (100)		AS1500	1600
INTERMEDIATE	ZELAP (IF/IAF)	UFERI	5. SHIP	374603.00N/0752139.00W	248 (2C)	500	AT952	1700
			6. TERRAIN	375030.00N/0752230.00W	0 (0)		AS1500	1500
FINAL: LPV	UFERI	RW35	7. TREE (KWALT0067)	375553.55N/0752739.07W	68 (1A)	34:1		285/250
FINAL: LNAV/VNAV	UFERI	RW35	8. TOWER (51-000370)	375606.00N/0752817.00W	195 (5D)	PDA	AC50	406/371
FINAL: LNAV	UFERI	RW35	9. AAO	375249.00N/0752620.00W	209 (2C)	250		460
2. HOLD-IN-LIEU-OF-PT	ZELAP	P-6	5. SHIP	374603.00N/0752139.00W	248 (2C)	1000	AT752	2000
			10. TERRAIN	375136.00N/0752139.00W	7 (0)		AS1500	1500
3. MISSED APPROACH MAP:	DA / DA / RW35	MAGGO				ASC		2000
			11. TOWER (51-001697)	375623.80N/0753230.65W	315 (1A)	1000		1400
ELEV:	98/245/360		12. TERRAIN	375503.00N/0753248.00W	40 (0)		AS1500	1500

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT.									
CATEGORY A	1.3 NM	REQUIRED	350	ACTUAL	560	13. TOWER (51-000307)	375545.00N/0752852.00W	241 (5D)	300	AC50	600
CATEGORY B	1.5 NM		450		560	13. TOWER (51-000307)	375545.00N/0752852.00W	241 (5D)	300	AC50	600
CATEGORY C	1.7 NM		450		580	11. TOWER (51-001697)	375623.80N/0753230.65W	315 (1A)	300		620
CATEGORY D	2.3 NM		550		820	14. TOWER (51-000306)	375514.00N/0752305.00W	509 (5D)	300	AC50	860
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		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
WALLOPS ISLAND, VA	ELEVATION: 40 AIRPORT NAME: WALLOPS FLIGHT FACILITY	RNAV	RNAV (GPS) RWY 35, ORIG	AEA

FAA Form 8260 - 9 / April 2006 (Computer Generated)

PART B - SUPPLEMENTAL DATA

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

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: 34.6
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT: 45.0
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: 3.00/59.0

SEE ATTACHED AIRSPACE LETTER.

100 FOOT TREES USED PER EASTERN FPT.

PROCEDURE USED BY WHG 1/2 EXCLUSIVELY ON 4808 FT RUNWAY. PAPI TCH NOT YET VERIFIED BY FLIGHT INSPECTION. 45 PROCEDURE TCH USED.

77 FOOT ADVERSE ASSUMPTION BOAT HEIGHT USED NEAR SHORE AND FOR INLETS. 248 ADVERSE ASSUMPTION BOAT HEIGHT USED BEYOND OUTER SHORES.

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

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

STEPDOWN FIX NOT ESTABLISHED FOR LNAV FINAL. AN MDA BENEFIT OF 60 FEET COULD NOT BE ACHIEVED.

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.

POFZ PENETRATION:
39 BUSH (KWALT0057) 375604.87N/0722743.80W

TERPS, VOLUME 1, VISUAL PORTION OF FINAL PENETRATIONS:
(EASTERN FPT NOTIFIED 1/16/2013)
RWY 35, 34:1 PENETRATIONS:
57 TREE (KWALT0063) 375558.91N/0752741.37W (8.77)
68 TREE (KWALT0067) 375553.55N/0752739.07W (2.95)
52 TREE (KWALT0058) 375559.77N/0752735.43W (0.83)
56 TREE (KWALT0065) 375556.76N/0752739.75W (0.40)
51 TREE (KWALT0062) 375558.49N/0752739.75W (0.16)
RWY 10, 20:1 PENETRATION:
83 TREE (KWALT0291) 375637.39N/0752923.27W (5.42)

25 DEGREE BANK ANGLE USED IN MISSED APPROACH.

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
EN ROUTE	V1	1				(US)
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: UFERI **STATE:** VA **COUNTRY:** US

LATITUDE/LONGITUDE: 375123.01N/0752515.62W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 35			KWAL	WALLOPS ISLAND	VA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 01/31/2013 **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: ZELAP **STATE:** VA **COUNTRY:** US

LATITUDE/LONGITUDE: 374549.41N/0752223.68W **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	S		WP	168.77	348.77	R		5	2000	6000	6	8

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	SHIP	374603.00N/0752139.00W	248	2C

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 35		1	KWAL	WALLOPS ISLAND	VA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 01/31/2013 **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:

TERMINAL AIRSPACE DATA REQUIREMENTS

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

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

PROCEDURE: **RNAV (GPS) RWY 35** 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 **THRESHOLD** to 1000' point **2.89**
   (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 **337.75**
4. High Terrain in **FINAL** segment containing 1000' point **9**
5. Distance from **THRESHOLD** to 1500' point **4.69**
   (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 **337.75**
8. High Terrain in **FINAL** segment containing 1500' point **9**
9. Threshold Coordinates (if straight-in) ... **375605.87N** / **0752741.78W**
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 ..... **375123.01N** / **0752515.62W**
    (Click to Select)

REMARKS: Approach/Drawing attached.
12. IF/IAF COORDINATES: ZELAP, 374549.41N/0752223.68W, 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).

Federal Aviation Administration

Memorandum

Date:

To: Manager, Flight Procedure Standards

From: Gregory Yamamoto
Manager, Terminal Products Group

Subject: **ACTION:** Approval Request

All Instrument Approach Procedures that Support Straight-in and Circling to Rwy 10, Wallops Flight Facility, Wallops Island, VA (WAL).

VGSI Mitigation of 20:1 Surface Penetrations: FAAO 8260.19, para 8-54m(2)h; FAAO 8260.3, para 3.3.2.

The Rwy 10 visual straight-in visual area contains two unlit obstacles and the Rwy 10 circling visual area contains one unlit obstacle that penetrate the TERPS, para 3.2.2, 20:1 surface. The penetrations are trees that are not on the airport property. The airport is working with the property owners to remove the obstacles, however, negotiations have become protracted and a solution is not expected prior to procedure publication.

The VGSI for Rwy 10 is set at 3.00 degrees with a TCH of 69.1 feet and the VGSI obstacle surface is reported clear by airport management. The system is maintained and operated by Wallops Flight Facility Airport management. Flight inspection of the Rwy 10 PAPI system is being requested in conjunction with procedure amendments. The runway is primarily used by WHG 1 aircraft but there are occasional WHG 4 operations.

Until the airport is able to successfully negotiate obstacle removal, request to authorize straight-in and circling to Rwy 10 at night on all applicable procedures using VGSI as mitigation. The following notes will be published on applicable procedures as appropriate: When Rwy 10 VGSI inoperative, straight-in and circling minimums NA at night; When Rwy 10 VGSI inoperative, circling to Rwy 10 NA at night.

Attachments