

Flight Procedure Tracking Form		Action: FLIGHT CHECK	Task Type: IAP	Date Open: 03/17/2011	Task #: 2011031722749201005	Request #: 20110317227492
Procedure: RNAV (GPS) RWY 28 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			

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		<i>Sondra</i>	APPROVAL REQUEST - MAGVAR

MAG VAR
PK

Procedure Comments: ENROUTE-NON **Remark Type:** INFORMATION *pk 5 of 8*

WALLOPS ISLAND, VA WALLOPS FLIGHT FACILITY (KWAL) RNAV (GPS) RWY 28, AMDT 1 (LPV) ENROUTE-NO FC: 5.14.13 PUB: 6.27.13

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

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

WAAS CH 45534 W28A	APP CRS 281°	Rwy Idg THRE 35 Apt Elev 40	8005
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NEW

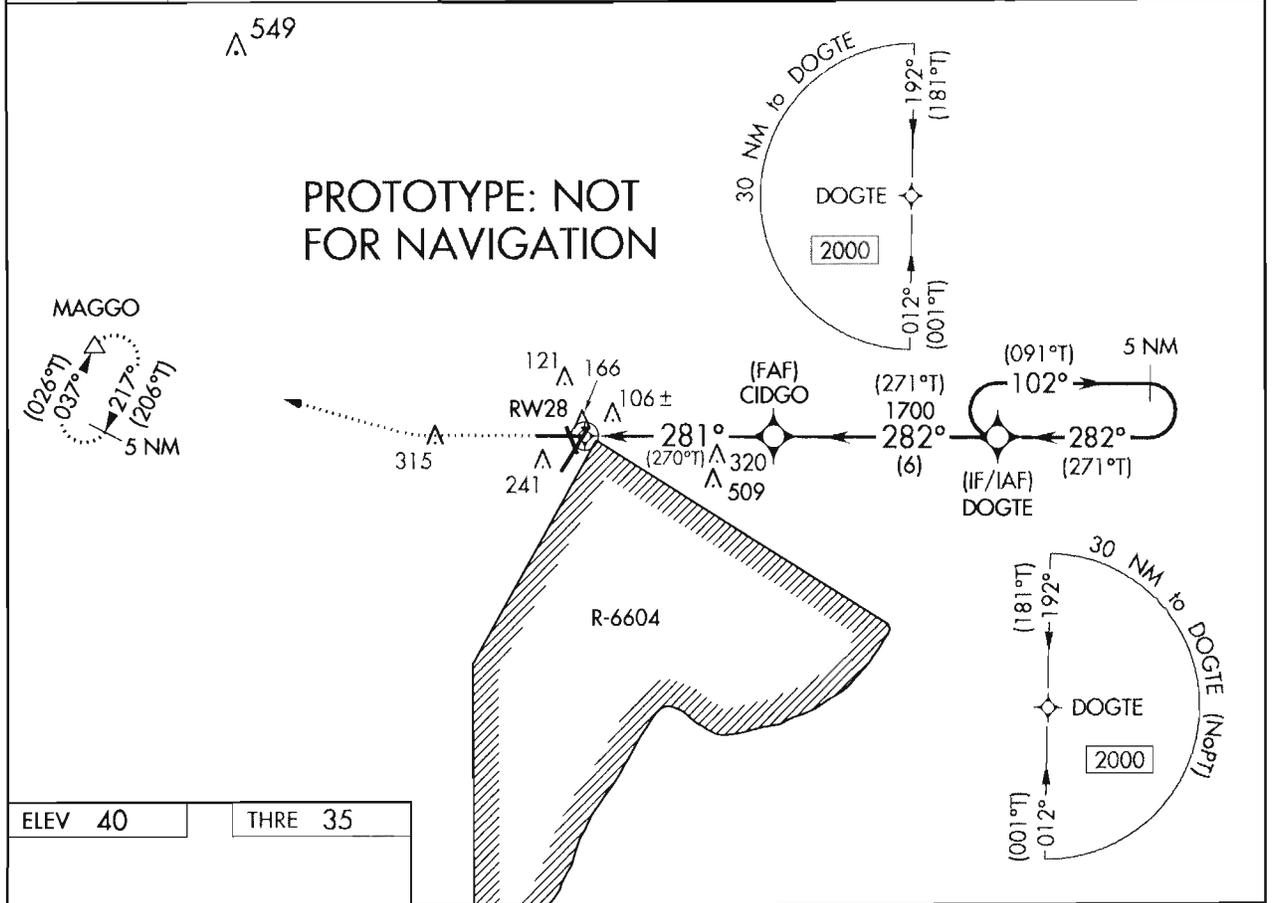
RNAV (GPS) RWY 28

WALLOPS FLIGHT FACILITY (WAL)

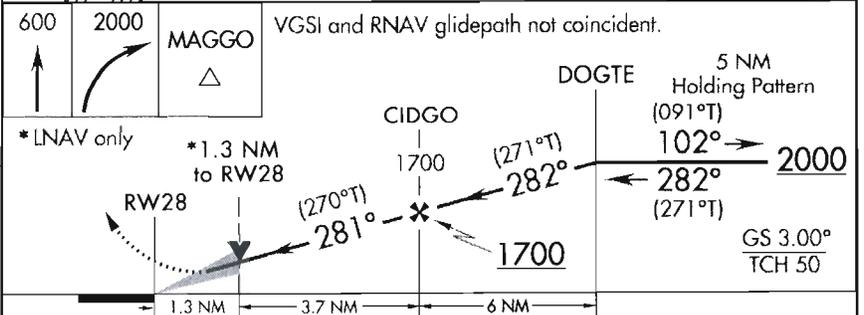
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -11°C (13°F) or above 54°C (130°F). DME/DME RNP-0.3 NA. When Rwy 10 VGSI inop, Circling to Rwy 10 NA at night. When local altimeter setting not received, use Salisbury altimeter setting: increase LPV DA to 343 and all Cats visibility ¼ mile; increase LNAV/VNAV DA to 453 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 right turn to 2000 direct MAGGO and hold.

ASOS 119.175	PATUXENT APP CON ★ 127.95 314.0	WALLOPS TOWER ★ 126.5 (CTAF) 306.975 (CTAF)	GND CON 127.875 269.325	CLNC DEL 121.7
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ELEV 40	THRE 35
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CATEGORY	A	B	C	D
LPV DA		285-¾	250 (300-¾)	
LNAV/VNAV DA		395-1½	360 (400-1½)	
LNAV MDA	520-1	485 (500-1)	520-1¾	485 (500-1¾)
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.

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 AND ALL CATS VISIBILITY 1/4 MILE; INCREASE LNAV/VNAV DA TO 453 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 ALTIMETER SETTING.

TAA

	FROM	TO	ALT
1.	192/30 CW 012/30 (NOPT)	DOGTE (IF/IAF) (FB)	2000
2.	012/30 CW 192/30	DOGTE (IF/IAF) (FO)	2000

QUALITY
2
CHECKED

CITY AND STATE WALLOPS ISLAND, VA	ELEVATION: 40	THRE: 35	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 28, AMDT 1	SUP:
	AIRPORT NAME: WALLOPS FLIGHT FACILITY				AMDT: ORIG
					DATED: 07/10/2003

ALL AFFECTED PROCEDURES REVIEWED? <input type="checkbox"/> YES <input type="checkbox"/> NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
COORDINATED WITH: ATA AAT ALPA APA AOPA NBAA OTHER (specify) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	FIFO	DATE:
APPROVED BY		
NAME:	FIFO	DATE:
CHANGES: CHANGES CONT. 15. DELETED NOTE: STRAIGHT-IN MINIMUMS NA AT NIGHT. 16. DELETED NOTE: GPS OR RNP-0.3 REQUIRED. 17. AMENDED PROFILE VIEW NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT TO READ VGSI AND RNAV GLIDEPATH NOT COINCIDENT. 18. ADDED BACK-UP ALTIMETER NOTE. 19. ADDED NOTE: BARO-VNAV AND VDP NA WHEN USING SALISBURY ALTIMETER SETTING. 20. ADDED NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -11C (13F) OR ABOVE 54C (130F). 21. ADDED NOTE: WHEN RWY 10 VGSI INOPERATIVE, CIRCLING TO RWY 10 NA AT NIGHT. 22. INCREASED LNAV MDA/HAT FROM 480/440 TO MDA/HATH 520/485. 23. DELETED BECAV STEPDOWN FIX. 24. AMENDED LNAV CAT C VISIBILITY FROM 1 1/4 TO 1 3/8 AND CAT D 24. AMENDED LNAV CAT C VISIBILITY FROM 1 1/4 TO 1 3/8 AND CAT D FROM 1 1/2 TO 1 3/8. 25. INCREASED CAT C CIRCLING MDA/HAA FROM 600/560 TO 620/580. 26. INCREASED CAT D CIRCLING MDA FROM 600/560 TO 860/820 AND VISIBILITY FROM 2 TO 2 3/4. 27. ADDED CHART CIRCLING ICON IN ADDITIONAL FLIGHT DATA. 28. AMENDED ALTERNATE MINIMUMS FROM NA TO STANDARD EXCEPT FOR CAT D AND NA WHEN LOCAL ALTIMETER NOT AVAILABLE. 29. UPDATED DISTANCE FROM THLD FROM 5.00 TO 5.07. 30. ADDED DISTANCE FAF TO MAP VALUE (5.07). 31. DELETED PLANVIEW NOTE: 31. DELETED PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL AT CCV VORTAC ON V1 SOUTHBOUND. 32. ADDED HOLD-IN-LIEU AT DOGTE. 33. AMENDED DOGTE FROM AN IF TO AN IF/IAF.		
REASONS: REASONS CONT. 15. TERPS VOLUME 1 STRAIGHT-IN 20:1 VISUAL SURFACE AREA CLEAR OF PENETRATIONS. 16. NO LONGER REQUIRED. 17. IAW CURRENT DOCUMENTATION POLICY. VERTICALLY GUIDED MINIMUMS ADDED. 18. EASTERN FPT REQUEST. TOWER EQUIPPED WITH REDUNDANT ALTIMETER REPORTING EQUIPMENT BUT DOES NOT OPERATE 24/7. 19. IAW CURRENT DOCUMENTATION POLICY. 20. IAW CURRENT DOCUMENTATION POLICY. 21. EASTERN FPT REQUEST TO MITIGATE 20:1 PENETRATIONS. AFS APPROVAL LETTER DRAFTED. 22. NEW OBSTACLE STUDY. 23. COULD NOT ACHIEVE 60 FOOT MDA BENEFIT IN STEPDOWN SEGMENT. 24. COMPUTED FROM AMENDED LNAV MDA/HAT. 25. NEW CONTROLLING OBSTACLE IDENTIFIED USING LARGER CIRCLING AREA. 26. NEW CONTROLLING OBSTACLE IDENTIFIED USING LARGER CIRCLING AREA. VISIBILITY COMPUTED USING AMENDED HAA VALUE. 27. IAW CURRENT DOCUMENTATION POLICY. 28. IAW CURRENT DOCUMENTATION POLICY. 29. COMPUTED FROM AMENDED PFAF POSITION. 30. IAW CURRENT DOCUMENTATION POLICY. 31. NO LONGER REQUIRED. 32. EASTERN FPT REQUEST. 33. IAW CURRENT DOCUMENTATION POLICY.		

QUALITY
 2
 CHECKED

**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	KWAL
RUNWAY	RW28
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W28A
LTP/FTP LATITUDE	375634.0740N
LTP/FTP LONGITUDE	0752726.3380W
LTP/FTP ELLIPSOIDAL HEIGHT	-00258
FPAP LATITUDE	375634.6365N
FPAP LONGITUDE	0752918.9720W
THRESHOLD CROSSING HEIGHT (TCH)	00050.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0312
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER D6204625

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00107
FPAP ORTHOMETRIC HEIGHT	+00107

QUALITY
2
CHECKED

CITY AND STATE WALLOPS ISLAND, VA	ELEVATION: 40	THRE: 35	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 28, AMDT 1	SUP:
	AIRPORT NAME: WALLOPS FLIGHT FACILITY				AMDT: ORIG
					DATED: 07/10/2003

ALL AFFECTED PROCEDURES REVIEWED? <input type="checkbox"/> YES <input type="checkbox"/> NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE				
COORDINATED WITH:						
<input type="checkbox"/> ATA	<input type="checkbox"/> AAT	<input type="checkbox"/> ALPA	<input type="checkbox"/> APA	<input type="checkbox"/> AOPA	<input type="checkbox"/> NBAA	<input type="checkbox"/> OTHER (specify) _____
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 CIDGO. 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.						

QUALITY
 2
 CHECKED

ALL AFFECTED PROCEDURES REVIEWED? <input type="checkbox"/> YES <input type="checkbox"/> NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
COORDINATED WITH: <input type="checkbox"/> ATA <input type="checkbox"/> AAT <input type="checkbox"/> ALPA <input type="checkbox"/> APA <input type="checkbox"/> AOPA <input type="checkbox"/> NBAA <input type="checkbox"/> OTHER (specify) _____		
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
	DOGTE	DOGTE	010	IAF	HF	R	FO		281.5 (270.5T)	005.0	AA 02000	
		DOGTE	010	FACF	IF		FB				AA 02000	
		CIDGO	020	FAF	TF		FB	0.5	281.5 (270.5T)	006.0	AA 01700	
		RW28	030	MAP	TF		FO	0.3	281.4 (270.4T)	005.1	AT 00085	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		281.4 (270.4T)		AA 00600	
	MAGGO	050		DF	R	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
	CIDGO	N375631.93	W0752101.73	N3756.532	W07521.029
	DOGTE	N375628.94	W0751326.66	N3756.482	W07513.444
	MAGGO	N375858.48	W0754401.39	N3758.975	W07544.023
	RW28	N375634.07	W0752726.34	N3756.568	W07527.439

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW28	00035	50

QUALITY
2
CHECKED

CITY AND STATE WALLOPS ISLAND, VA	ELEVATION: 40	THRE: 35	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (GPS) RWY 28, AMDT 1	SUP:
	AIRPORT NAME: WALLOPS FLIGHT FACILITY				AMDT: ORIG
					DATED: 07/10/2003

ALL AFFECTED PROCEDURES REVIEWED? <input type="checkbox"/> YES <input type="checkbox"/> NO	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
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COORDINATED WITH:						
<input type="checkbox"/> ATA	<input type="checkbox"/> AAT	<input type="checkbox"/> ALPA	<input type="checkbox"/> APA	<input type="checkbox"/> AOPA	<input type="checkbox"/> NBAA	<input type="checkbox"/> OTHER (specify) _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:

DEVELOPED BY		
NAME:	NFPG	DATE:

APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:		2. WEATHER SERVICE		3. ALTIMETER SETTING	
NHK APP CON WAL TOWER ZDC ARTCC		N W S	OTHER: ASOS	SOURCE: KWAL / KSBY	
		FAA		DISTANCE: 0 / 24.06	
		A / C		HOURS REMOTE OPERATION: 24 / BACKUP	
SATISFACTORY ON:					
X	V H F	X	U H F	H F	LOCATION:
ADJUSTMENT: 0 / 58					
4. MONITOR STATUS					
PRIMARY NAVAID:					
MONITOR POINT:					
HRS OPTN:		CAT 1			
		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: 35.2		
		DISTANCE FROM RWY:	ELEV GP ANTENNA:		
		THRESHOLD CROSSING HEIGHT: 50.0			
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: 3.00/60.9

SEE ATTACHED AIRSPACE LETTER.

100 FOOT TREES USED PER EASTERN FPT.

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

LPV SURFACE CLEAR OF OBSTACLES. PROCEDURE LIMITED TO 250 HAT DUE POFZ PENETRATION: 41 MSL NAVAID (51-022457) 375637.20N/0752725.76W (15.80) AND 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

OBSTACLE #7 (LNAV FINAL) IS IN SECONDARY AREA 362 FEET FROM EDGE OF PRIMARY AREA.

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.

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)

QUALITY
2
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: CIDGO

STATE: VA

COUNTRY: US

LATITUDE/LONGITUDE: 375631.93N/0752101.73W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE

IAP

USE TITLE

RNAV (GPS) RWY 28

FAC

PAT

AIRPORT IDENT

KWAL

CITY

WALLOPS ISLAND

STATE

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 430.19 FEET EAST.

2. DELETED FAC 1.

DEVELOPED BY:

DATE: 01/29/2013

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: DOGTE

STATE: VA

COUNTRY: US

LATITUDE/LONGITUDE: 375628.94N/0751326.66W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: ESTABLISH

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME DME	HOLDING MIN	ALTITUDES MAX	TEMPLATES MIN	MAX
1	E		WP	101.51	281.51	R	5	2000	6000	6	8

CONTROLLING OBSTRUCTIONS:

PAT	AIRPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	SHIP	375625.00N/0751326.66W	248	2C

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

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
IAP	RNAV (GPS) RWY 28		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 430.20 FEET EAST.
2. DELETED FAC 1.
3. ESTABLISHED HOLD PAT 1.

DEVELOPED BY:

DATE: 01/30/2013

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: 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 NM	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	DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	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:



TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **WALLOPS ISLAND**

STATE: **VA**

AIRPORT NAME: **WALLOPS FLIGHT FACILITY**

ID: **KWAL**

PROCEDURE: **RNAV (GPS) RWY 28**

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 **2.87**
(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 **270.44**
4. High Terrain in **FINAL** segment containing 1000' point **7**
5. Distance from **THRESHOLD** to 1500' point **4.67**
(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 **270.44**
8. High Terrain in **FINAL** segment containing 1500' point **7**
9. Threshold Coordinates (if straight-in) ... **375634.07N / 0752726.34W**
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 **375631.93N / 0752101.73W**
(Click to Select)

REMARKS: Approach/Drawing attached.

12. IF/IAF COORDINATES: DOGTE, 375628.94N/0751326.66, 30 NM RADIUS.



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



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

<u>Location</u>	<u>Name</u>	<u>Airport /Facility</u>	<u>Identifier</u>	<u>Assigned Magnetic Variation Is</u>	<u>Epoch Year</u>
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).

RADIO FIX AND HOLDING DATA RECORD

NAME: ESATE

STATE: VA

COUNTRY: US

LATITUDE/LONGITUDE: 375128.65N/0751335.40W

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 NM	FAC FEET	MRA	MAA
1	DOGTE					180.51	5.00				17500

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 28			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: 10/07/2002

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: BECAV

STATE: VA

COUNTRY: US

LATITUDE/LONGITUDE: 375632.89N/0752346.38W

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	MRA	MAA
								NM FEET		
1	KWAL R28					090.37	2.90			17500

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 28			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: 10/07/2002

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: WALOT

STATE: MD

COUNTRY: US

LATITUDE/LONGITUDE: 380129.30N/0751328.65W

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 NM	FAC FEET	MRA	MAA
1	DOGTE					000.51	5.00				17500

FIX USE:

USE TYPE
IAP

USE TITLE
RNAV (GPS) RWY 28

FAC PAT

AIRPORT IDENT
KWAL

CITY
WALLOPS ISLAND

STATE
VA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 07/10/2003

DEVELOPED BY:

DATE: 10/07/2002

OFFICE: AVN-140

NAME: KEITH BUTCHER

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OTHER:

QUALITY
2
CHECKED