Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: IAP	Date Open: 10/05/2010	Task #: 2009120717346601004	Request #: 20091207173466
Procedure: RNAV (GPS) RWY 29 AMDT 2		Airport ID: KPWM	Airport: PORTLAND INTL JETPORT		Reimbursable #:
City: PORTLAND	ST: ME	GPS #:		Estimated Chart Date: 02/09/2012	FICO #:
Fac ID:	Fac. Type: LPV-200 HAT		Specialist: DAVID SAUER		

LPV

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	07/28/2011	11/14/2011	JILL OLSON	
QA:	11/14/2011	11/14/2011	STEVEN SZUKALA	
Liaison:	11/14/2011		Terrell	

P1

Procedure Comments: **Remark Type:** INFORMATION

pkg 2 of 4

PORTLAND, ME PORTLAND INTL JETPORT (KPWM) RNAV (GPS) RWY 29, AMDT 2 (LPV) ENROUTE-NO FC: 12.13.11 PUB: 2.9.12

ATTACHED FORMS: 8260-3; 8260-10; 8260-9; 8260-2(S): BUXTO-INT, REV 6; KENNEBUNK (ENE) VTAC, REV 25; MESHL-INT, REV 4; PEATT-INT, REV 6; SAPPE-INT, REV 8; SLAMZ, ORIG; TAATE, ORIG; (INFO ONLY) AUGUSTA (AUG) VDME, REV 9.
FLCK NOTE: 40 ACCURACY CODE EVAL REQUEST ON OBSTRUCTION #20, SEE 8260-9.

CONTACT: DON SMITH, JILL OLSON, AJV-352 LEADS, 405.954.1036/0414:

RNAV (GPS) RWY 29
PORTLAND INTL JETPORT (PWM)

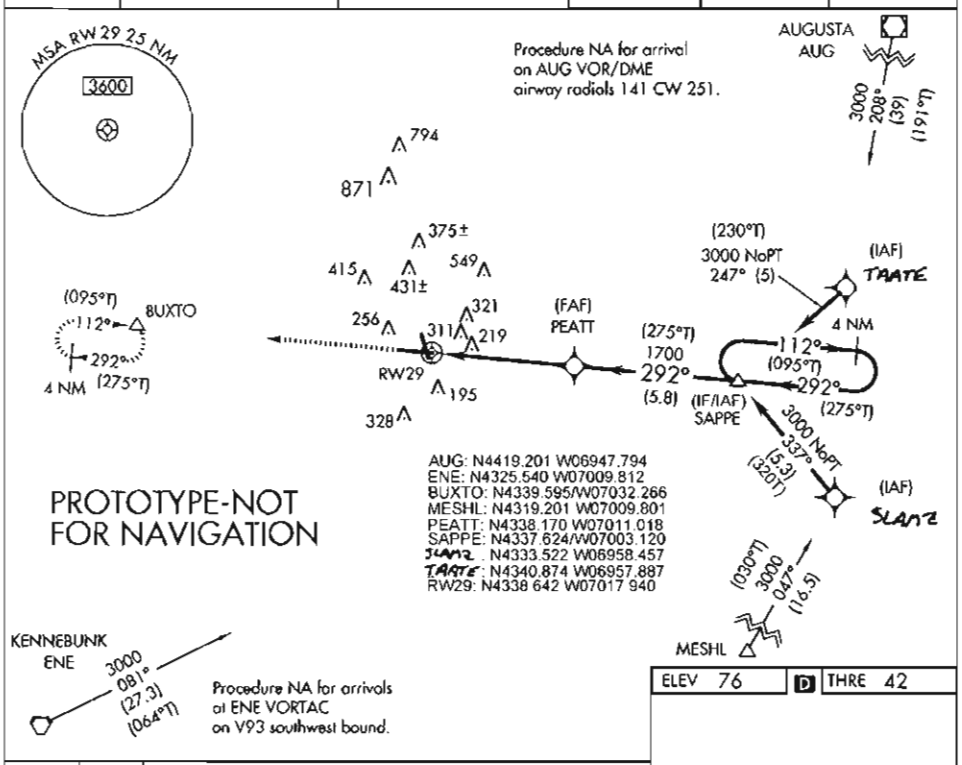
WAAS CH 65626 W29A	APP CRS 292°	Rwy ldg 7200 THRE 42 Apt Elev 76

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 43°C (109°F). DME/DME RNP-0.3 NA.

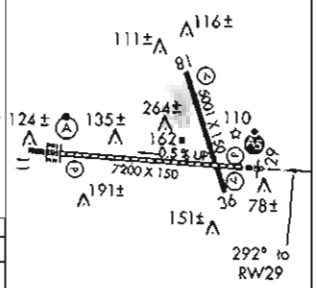
MALSR

MISSED APPROACH: Climb to 3000 direct BUXTO and hold. Continue Climb-In-Hold to 4700.

ATIS	PORTLAND APP CON *	PORTLAND TOWER *	GND CON	CLNC DEL	UNICOM
119.05	119.75 381.2	120.9 (CTAF) 257.8	121.9	121.9	122.95

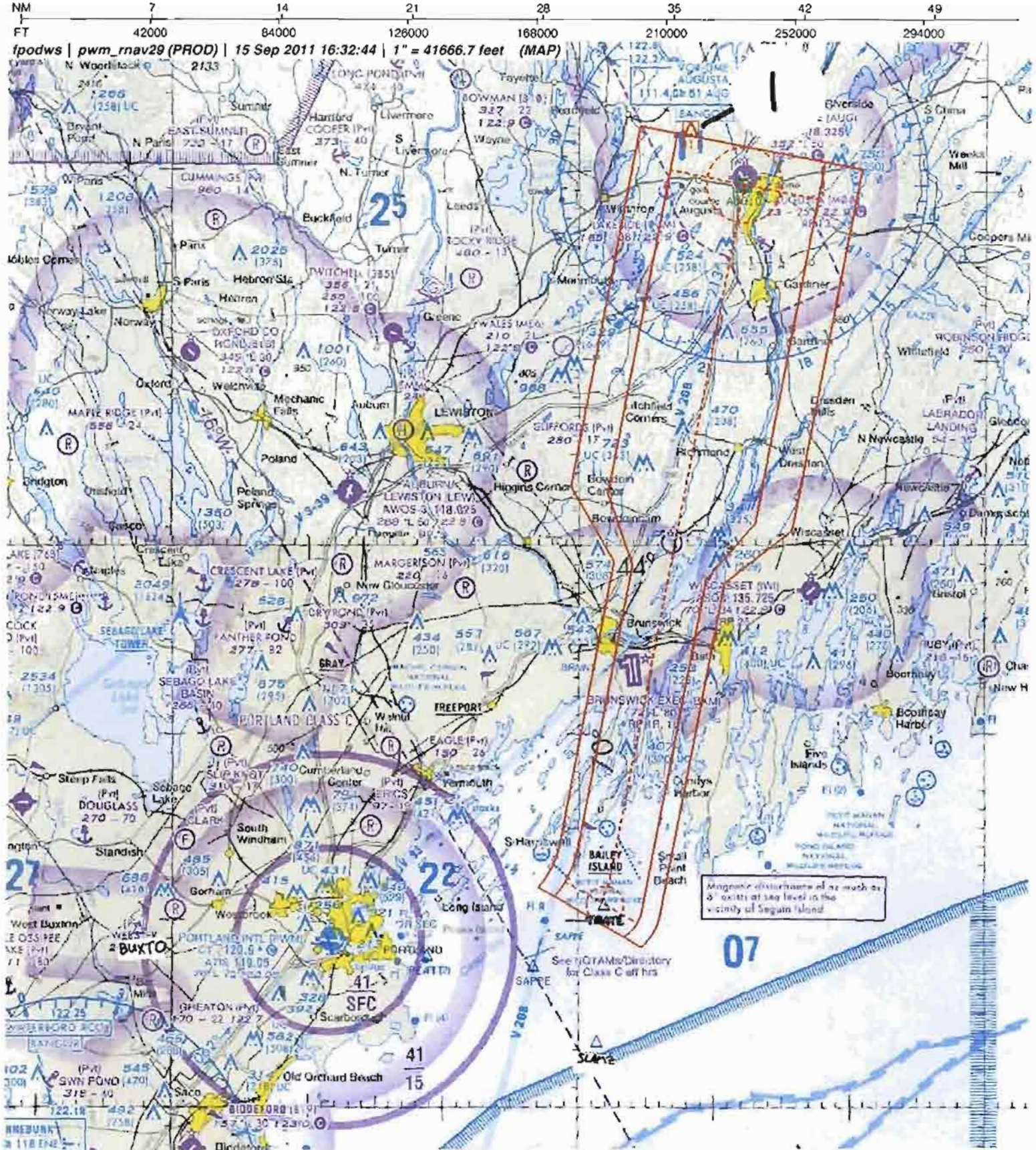


ELEV 76 | D | THRE 42

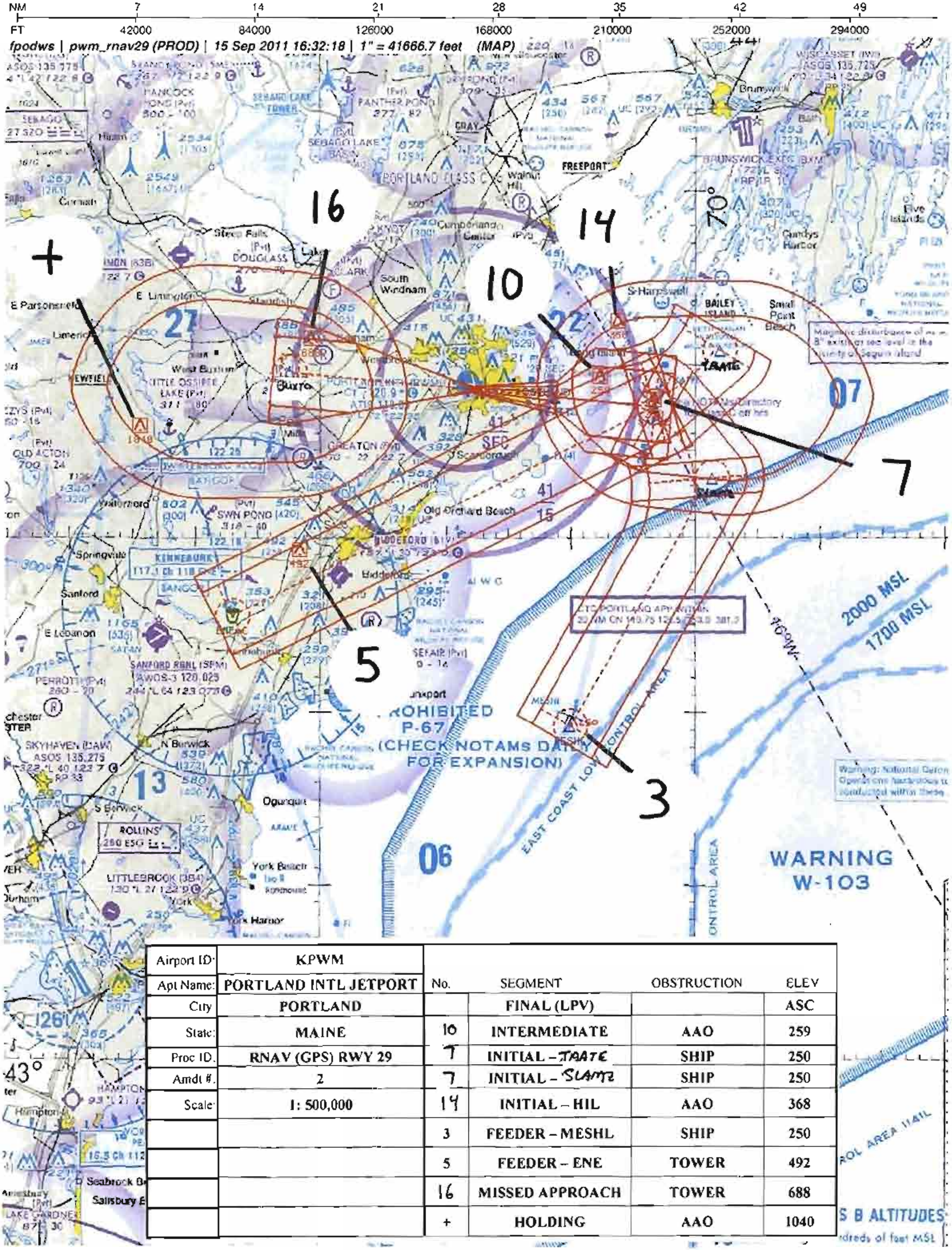


CATEGORY	A	B	C	D
LPV DA	242/24 200 (200-½)			
LNAV/VNAV DA	620-1½ 578 (600-1½)			
LNAV MDA	580/24 538 (600-½)		580/55 503 (500-1¼)	
CIRCLING	620-1 544 (600-1)		640-1½ 564 (600-1½)	800-2¼ 724 (800-2¼)

TDZ/CL Rwy 11
MIRL Rwy 18-36
HIRL Rwy 11-29
REIL Rwys 18 and 36

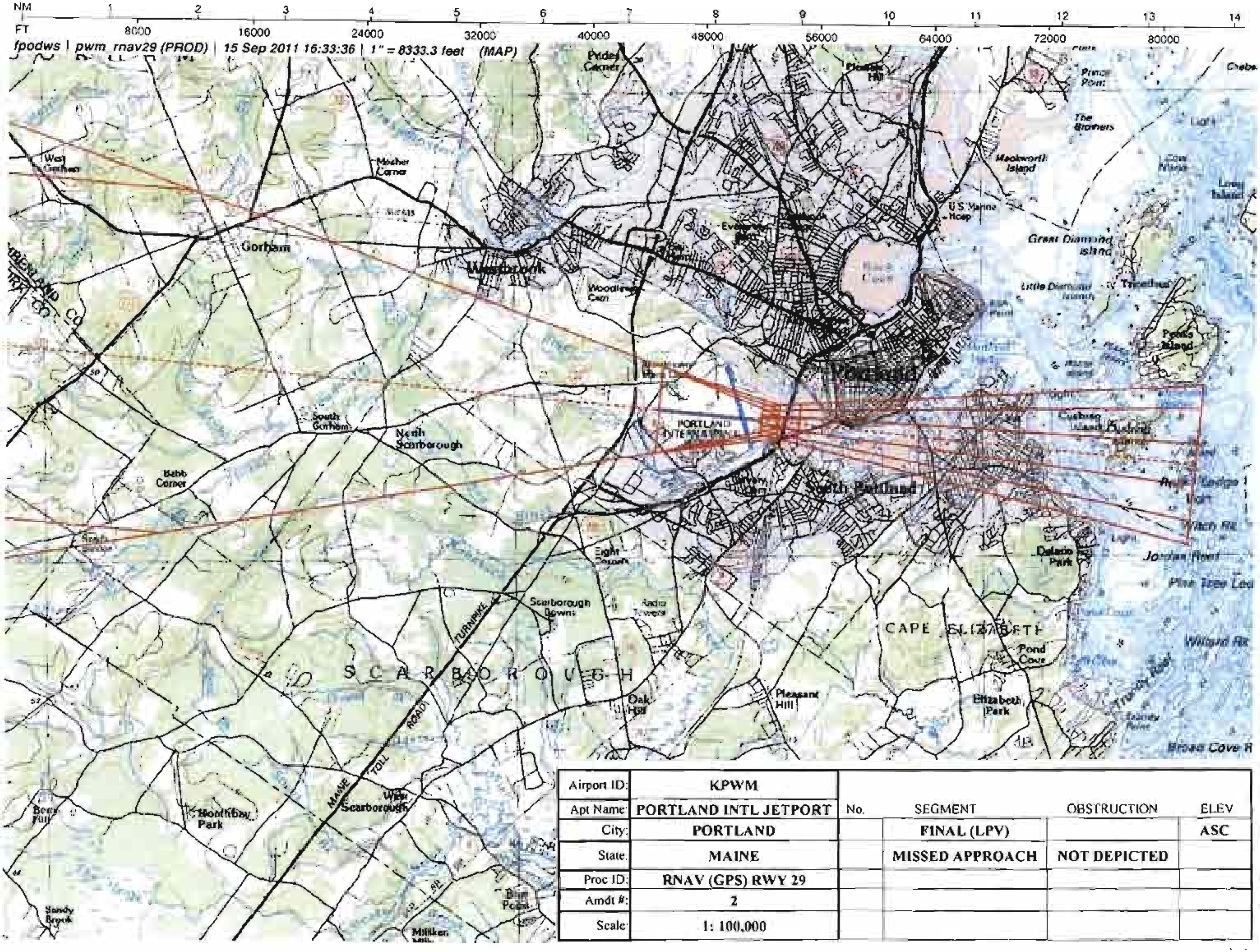


Airport ID.	KPWM				
Apt Name:	PORTLAND INTL JETPORT	No.	SEGMENT	OBSTRUCTION	ELEV
City:	PORTLAND	1	FEEDER – AUG	AAO	811
State.	MAINE				
Proc ID:	RNAV (GPS) RWY 29				
Amdt #:	2				
Scale.	1: 500,000				

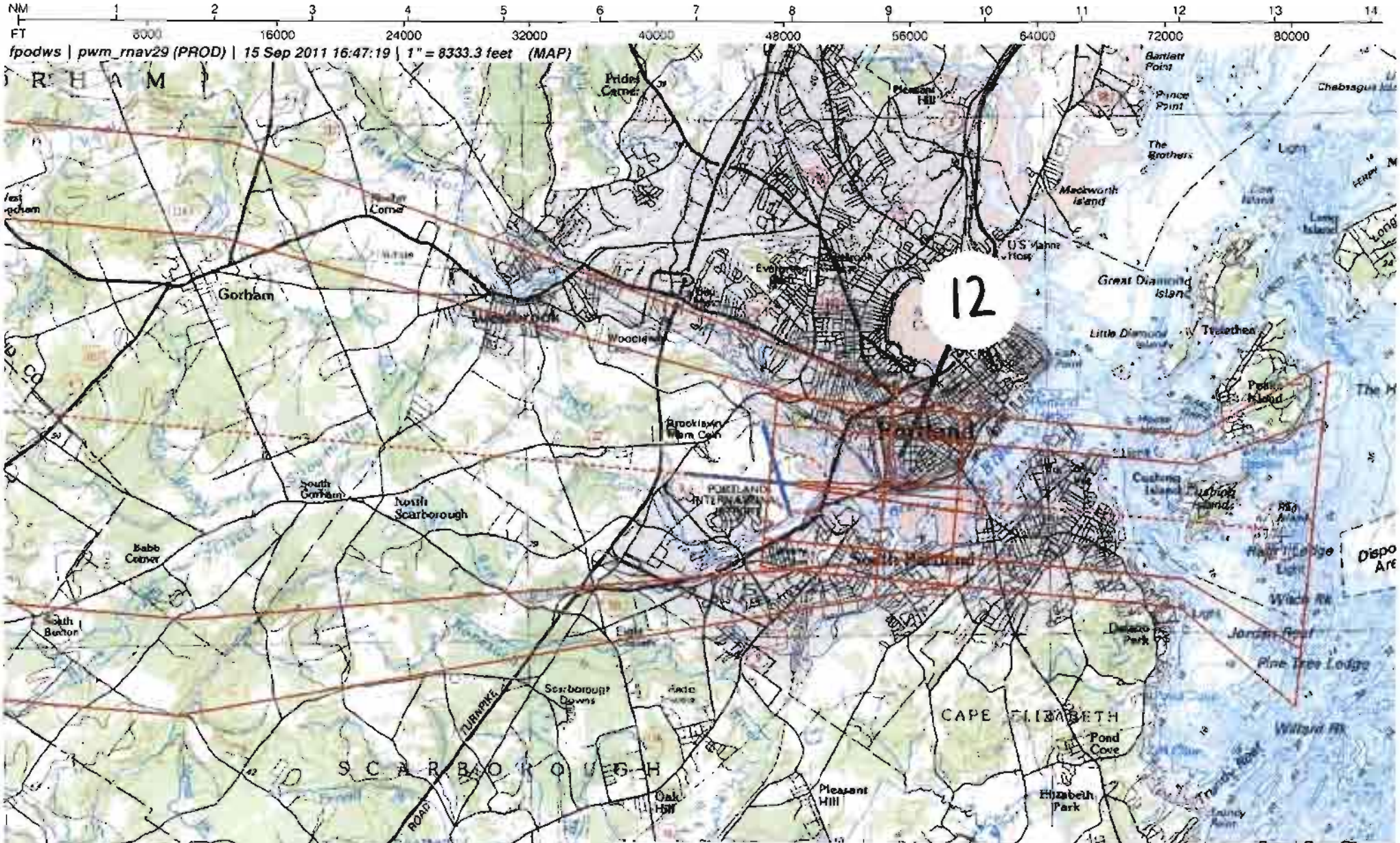


Airport ID:	KPWM				
Apt Name:	PORTLAND INTL JETPORT	No.	SEGMENT	OBSTRUCTION	ELEV
City:	PORTLAND		FINAL (LPV)		ASC
State:	MAINE	10	INTERMEDIATE	AAO	259
Proc ID:	RNAV (GPS) RWY 29	7	INITIAL – TAATE	SHIP	250
Amdt #:	2	7	INITIAL – SLAMZ	SHIP	250
Scale:	1: 500,000	14	INITIAL – HIL	AAO	368
		3	FEEDER – MESHL	SHIP	250
		5	FEEDER – ENE	TOWER	492
		16	MISSED APPROACH	TOWER	688
		+	HOLDING	AAO	1040

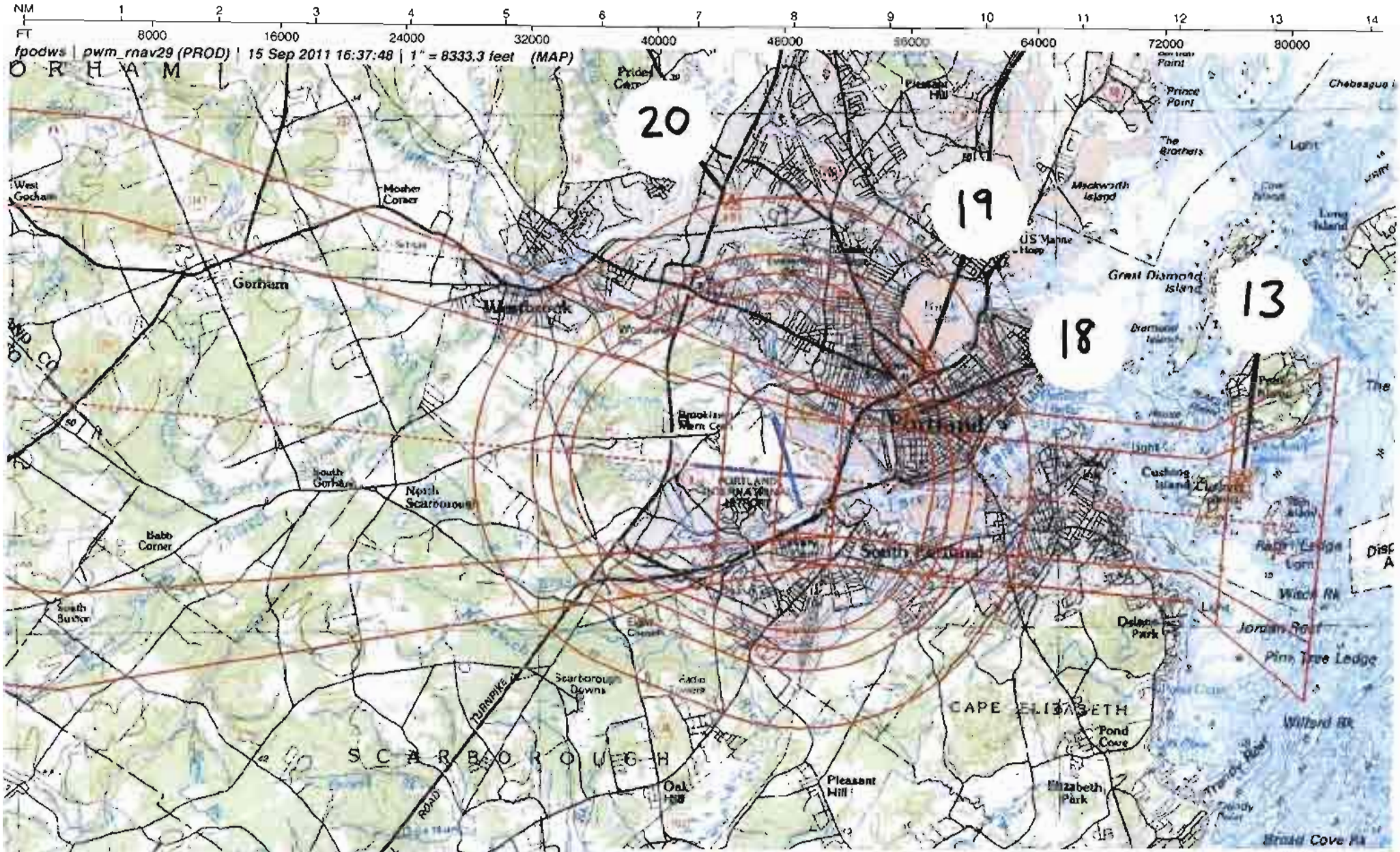
fpodws | pwm_rnav29 (PROD) | 15 Sep 2011 16:33:36 | 1" = 8333.3 feet (MAP)



Airport ID:	KPWM	No.	SEGMENT	OBSTRUCTION	ELEV
Apt Name:	PORTLAND INTL JETPORT				
City:	PORTLAND		FINAL (LPV)		ASC
State:	MAINE		MISSED APPROACH	NOT DEPICTED	
Proc ID:	RNAV (GPS) RWY 29				
Amdt #:	2				
Scale:	1: 100,000				



Airport ID:	KPWM				
Apt Name:	PORTLAND INTL JETPORT	No.	SEGMENT	OBSTRUCTION	ELEV
City:	PORTLAND	12	FINAL (LNAV/VNAV)	TREE	248
State:	MAINE		MISSED APPROACH	NOT DEPICTED	
Proc ID:	RNAV (GPS) RWY 29				
Amdt #:	2				
Scale:	1: 100,000				



Airport ID:	KPWM				
Apt Name:	PORTLAND INTL JETPORT	No	SEGMENT	OBSTRUCTION	ELEV
City:	PORTLAND	13	FINAL (LNAV)	AAO	325
State:	MAINE	18	CIRCLING CAT A/B	BLDG	311
Proc ID:	RNAV (GPS) RWY 29	19	CIRCLING CAT C	TOWER	321
Amdt #:	2	20	CIRCLING CAT D	TOWER	431
Scale:	1: 100,000		MISSED APPROACH	NOT DEPICTED	

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
AUG VOR/DME	TAATE (FB)	207.82 / 39.01	3000
MESHL	SLAMZ (FB)	046.93 / 16.53	3000
ENE VORTAC	SAPPE (FO)	080.57 / 27.33	3000
TAATE (IAF)	SAPPE (NOPT) (FB)	246.49 / 5.00	3000
SLAMZ (IAF)	SAPPE (NOPT) (FB)	337.46 / 5.32	3000
SAPPE (IF/IAF)	PEATT (FB)	292.49 / 5.76	1700
PEATT (FAF)	RW29 (MAP) (FO)	292.40 / 5.05	
(SEE FORM 8260-10)			

MISSED APPROACH

LPV: DA
LNAV/VNAV: DA
LNAV: RW29

CLIMB TO 3000 DIRECT BUXTO AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD W, RT, 112.15 INBOUND.
FAS OBST: 325 AAO 433835N/0701144W
CHART W-103.
DISTANCE TO THLD FROM 200 HATH: 0.47 NM.
CHART VDP AT 1.53 MILES TO RW29*
*LNAV ONLY.
WAAS CHANNEL # 65626
REFERENCE PATH ID: W29A
LTP HAE: -13.3 M

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. HOLD E SAPPE, RT, 292.49 INBOUND, 3000 FT. IN LIEU OF PT (IAF)
3. FAC: 292.40 FAF: PEATT DIST FAF TO MAP: 5.05 THLD: 5.05
4. MIN. ALT: SAPPE 3000, PEATT 1700
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: 1700 GS ALT AT: PEATT 1700 OM: ____ MM: ____ IM: ____
7. GS ANGLE: 3.00 TCH: 50.3 34:1 IS CLEAR
8. MSA FROM: RW29 3600

MAG VAR: 17W EPOCH YEAR: 1995

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	242	2400	200	242	2400	200	242	2400	200	242	2400	200			
LNAV/VNAV DA	620	1 1/2	578	620	1 1/2	578	620	1 1/2	578	620	1 1/2	578			
LNAV MDA	580	2400	538	580	2400	538	580	5500	538	580	5500	538			
CIRCLING	620	1	544	620	1	544	640	1 1/2	564	800	2 1/4	724			

NOTES:
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -20C (-4F) OR ABOVE 43C (109F). @ CAT D 800-2 1/4
CHART NOTE: DME/DME RNP-0.3 NA.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON AUG VOR/DME AIRWAY RADIALS 141 CW 251.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT ENE VORTAC ON V93 SOUTHWEST BOUND.

QUALITY 4 CHECKED

CITY AND STATE	ELEVATION: 76 THRE: 42	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
PORTLAND, ME	AIRPORT NAME: PORTLAND INTL JETPORT	RNAV	RNAV (GPS) RWY 29, AMDT 2	AMDT: 1A
				DATED 04/07/2011

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

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
X		X	X	X	X	X ZBW, PWM APP CON, PWM ATCT, PWM AMGR

FLIGHT CHECKED BY		
NAME: Russell P. Elliott	FIFO AVN	DATE: 2/2/12
DEVELOPED BY		
NAME: DONALD E. SMITH (DAVID SAUER)	FIFO AJV-352	DATE: 08/11/2011
APPROVED BY		
NAME: DARRYEL ADAMS MANAGER	FIFO AJV-352	DATE:

CHANGES:

1. CHANGED ROUTE FROM AUG VOR/DME FROM CUSIN TO TAATE IAF THEN TO SAPPE.
2. ADDED FEEDER FROM MESHL TO SLAMZ IAF THEN TO SAPPE.
3. MOVED AND CHANGED MISSED APPROACH HOLDING FIX NAME FROM KIFFI TO BUXTO AND REDUCED HOLDING LEG LENGTH FROM 5 TO 4 NM.
4. CHANGED PLANVIEW NOTE AT AUG VOR/DME FROM "231 CW 251" TO "141 CW 251".
5. CHANGED PLANVIEW NOTE AT ENE VORTAC FROM "VIA" TO "ON".
6. LOWERED LPV FROM 307 DA/250 HAT TO 242 DA/200 HATH.
7. CHANGED LNAV/VNAV HAT 563 TO HATH 578.
8. RAISED LNAV 560 MDA/503 HAT TO 580 MDA/538 HATH.
9. RAISED CIRCLING CAT D MDA/HAA FROM 740/663 TO 800/724.
10. RAISED CIRCLING CATS A-C HAA BY 1 FOOT.
11. LOWERED LPV ALL CATS VISIBILITY FROM RVR 4000 TO RVR 2400.
12. CHANGED LNAV CATS A/B VISIBILITY FROM RVR 4000 TO RVR 2400, CATS C/D VISIBILITY FROM RVR 5000 TO RVR 5500.
13. RAISED CIRCLING CAT D VISIBILITY FROM 2 TO 2 1/4 MILE.
14. CHANGED UNCOMPENSATED BARO-VNAV MIN/MAX TEMPS FROM -15C/48F TO -20C/43C.

SEE 8260-10

REASONS:

1. INSUFFICIENT DTA FROM CUSIN, REMOVE WAIVER FROM INTERMEDIATE SEGMENT WHICH WAS TOO SHORT FOR AMOUNT OF TURN AT IF.
2. ATC REQUEST AS MOST ARRIVALS COME FROM MESHL.
3. FIX MOVED FOR RWY 11 APPRAOCH, RENAMED DUE TO MOVE GREATER THAN 1 NM, LEG LENGTH IAW 7130.3A, TABLE 8.
4. IAW 8260.54A, TURNS CANNOT BE GREATER THAN 90 DEGREES.
5. IAW 8260.19D, PARA 805G.
6. SURVEY SUPPORTS LPV OPERATIONS TO 200 HATH.
7. HATH IAW 8260.3B, VOL 1, CHAP 3.
8. WAS NOT ABLE TO ADD A STEPDOWN FIX TO PROTECT AGAINST PROPOSED CONSTRUCTION, HAD TO APPLY AAO IAW 8260.19D PARA 274.
9. ACCURACY CODE ADJUSTMENT FOR REVISED CONTROLLING OBSTRUCTION.
10. NEW AIRPORT SURVEY LOWERED AIRPORT ELEVATION BY 1 FOOT.
11. LPV HATH LOWERED AND IAW 8260.3B. VOL 1, CHAP 3.
12. IAW 8260.3B. VOL 1, CHAP 3.
13. IAW 8260.3B. VOL 1, CHAP 3.
14. IAW MEMO DATED DATED 3/21/11, IMPLEMENTATION OF AFS-400 MEMO FOR AVERAGE COLD TEMPERATURE.

SEE 8260-10

QUALITY 4 CHECKED

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TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
RW29 (MAP)	242 MSL	292.40	
242 MSL	BUXTO (FO)		3000

QUALITY CHECKED

CITY AND STATE	ELEVATION: 76 THRE: 42	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
PORTLAND, ME	AIRPORT NAME: PORTLAND INTL JETPORT	RNAV	RNAV (GPS) RWY 29, AMDT 2	AMDT: 1A
				DATED: 04/07/2011

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. DELETED CHART NOTE: FOR INOPERATIVE MALSR, INCREASE LNAV CAT A AND B VISIBILITY TO RVR 5000.
16. DELETED CHART NOTE: VISIBILITY REDUCTIONS BY HELICOPTERS NA.
17. ADDED "CONTINUE CLIMB-IN-HOLD TO 4700" TO MISSED APPROACH INSTRUCTIONS.

REASONS:

REASONS CONT.
15. ALL NO LIGHT MINIMUM CHANGES ARE STANDARD.
16. AIRPORT REMOVED 34:1 PENETRATION.
17. BUXTO NOT ENROUTE FIX SO HAD TO CLIMB AIRCRAFT TO ENROUTE ALTITUDE.

PDF EDITS:
1. 8260-3, TERMINAL ROUTES: ADDED (FAF) NEXT TO PEATT.
2. 8260-10, TERMINAL ROUTES CONT: CHANGED MISSED APPROACH ALTITUDE 242 TO 3000.
3. 8260-10, ARINC, SEGMENTS: DELETED "020" FROM MISSED APPROACH HOLDING COLUMN 45-47.
4. 8260-10, FLIGHT INSPECTION SUMMARY: DELETED 2.0 FROM MISSED APPROACH RNP.

3/28/12: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 2/23/12.
1. MODIFIED MISSED APPROACH WORDING, DELETED "CONTINUE CLIMB-IN-HOLDING TO 4700".

EFFECTIVE CONCURRENT WITH: KPWM ILS OR LOC RWY 11, AMDT 3

QUALITY CHECKED

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.

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KPWM
RUNWAY	RW29
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W29A
LTP/FTP LATITUDE	433838.5190N
LTP/FTP LONGITUDE	0701756.3715W
LTP/FTP ELLIPSOIDAL HEIGHT	-00133
FPAP LATITUDE	433846.7600N
FPAP LONGITUDE	0701958.5600W
THRESHOLD CROSSING HEIGHT (TCH)	00050.3
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0552
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	9093BDB5

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00129
FPAP ORTHOMETRIC HEIGHT	+00129

QUALITY 4 CHECKED

CITY AND STATE	ELEVATION: 76 THRE: 42	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
PORTLAND, ME	AIRPORT NAME: PORTLAND INTL JETPORT	RNAV	RNAV (GPS) RWY 29, AMDT 2	AMDT: 1A
				DATED: 04/07/2011

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:

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 - 424-8 - RNAV (GPS)

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        AUG   K6011140VDL  N44191207W069474763    N44191207W069474763W0180003491     NARAUGUSTA
        SUSAD        ENE   K6011710VTH  N43253242W070364869    N43253242W070364869W0170001922     NARKENNEBUNK

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   BUXTO K60    C   L N43393572W070321597                      W0157     NAR           BUXTO
        SUSAEAENRT   MESHL K60    C   L N43191207W070094803                      W0157     NAR           MESHL
        SUSAEAENRT   PEATT K60    C     N43381022W070110109                      W0158     NAR           PEATT
        SUSAEAENRT   SAPPE K60    C   L N43373741W070030720                      W0159     NAR           SAPPE
        SUSAEAENRT   SLAMZ K60    W     N43333130W069582744                      W0159     NAR           SLAMZ
        SUSAEAENRT   TAATE K60    W     N43405241W069575320                      W0159     NAR           TAATE

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KPWMK4APWM     0     072YHN43384620W070183340W017000076         1800018000C    MNAR    PORTLAND INTL JETPORT

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KPWMK6FR29   AAUG   010AUG  K6D 0V       IF                                          18000                A JS
        SUSAP KPWMK6FR29   AAUG   020TAATEK6EA0E  A 020TF                    20780390    + 03000                      A JS
        SUSAP KPWMK6FR29   AAUG   030SAPPEK6EA0EE B 010TF                    24650050    + 03000                      A JS
        SUSAP KPWMK6FR29   AENE   010ENE  K6D 0V       IF                                          18000                A JS
        SUSAP KPWMK6FR29   AENE   020SAPPEK6EA0EY   020TF                    08060273    + 03000                      A JS
        SUSAP KPWMK6FR29   AENE   030SAPPEK6EA0EE AR   HF                    29250040    + 03000                      A JS
        SUSAP KPWMK6FR29   AMESHL 010MESHLK6EA0E       IF                                          18000                A JS
        SUSAP KPWMK6FR29   AMESHL 020SLAMZK6EA0E  A 020TF                    04690165    + 03000                      A JS
        SUSAP KPWMK6FR29   AMESHL 030SAPPEK6EA0EE B 010TF                    33750053    + 03000                      A JS
        SUSAP KPWMK6FR29   R      010SAPPEK6EA0E  I    IF                                + 03000     18000            A JS
        SUSAP KPWMK6FR29   R      020PEATTK6EA1E  F 051TF                    29250058    + 01700                RW29  K6PGA JS
        SUSAP KPWMK6FR29   R      020PEATTK6EA2WALPV       ALNAV/VNAV ALNAV                                                JS
        SUSAP KPWMK6FR29   R      030RW29 K6PG0GY M 031TF                    29240051      00093            -300         A JS
        SUSAP KPWMK6FR29   R      040         0  M     CA                    2924        + 00242                      A JS
        SUSAP KPWMK6FR29   R      050BUXTOK6EA0EY      DF                                + 03000                      A JS
        SUSAP KPWMK6FR29   R      060BUXTOK6EA0EE  R   HM                    11220040    + 03000                      A JS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
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QUALITY CHECKED

CITY AND STATE	ELEVATION: 76 THRE: 42	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
PORTLAND, ME	AIRPORT NAME: PORTLAND INTL JETPORT	RNAV	RNAV (GPS) RWY 29, AMDT1 2	AMDT: 1A
				DATED: 04/07/2011

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:

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.

```
        SUSAP KPWMK6GRW29    0072002923 N43383852W070175637+0500     -0013300042000050150I

                 1         2         3         4         5         6         7         8         9         0         1         2         3
PP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KPWMK6PR29   RW29 001 0000W29A0N4338385190W07017563715-001330300N4338467600W07019585600106750552000503F4003509093BDB5
        SUSAP KPWMK6PR29   RW29 002E      +00129+00129LPV       65626

                 1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KPWMK6SRW29 K6PG                0   18018003625                                                                        M
```

QUALITY CHECKED 4

CITY AND STATE	ELEVATION: 76 THRE: 42	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
PORTLAND, ME	AIRPORT NAME: PORTLAND INTL JETPORT	RNAV	RNAV (GPS) RWY 29, AMDT1 2	AMDT: 1A
				DATED: 04/07/2011

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:

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 - 424-8 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	AUG	AUG	010		IF		FB					
	AUG	TAATE	020	IAF	TF		FB	2.0	207.8(190.8T)	039.0	AA 03000	
	AUG	SAPPE	030		TF		FB	1.0	246.5(229.5T)	005.0	AA 03000	
	ENE	ENE	010		IF		FB					
	ENE	SAPPE	020		TF		FO	2.0	080.6(063.6T)	027.3	AA 03000	
	ENE	SAPPE	030	IAF	HF	R	FO		292.5(275.5T)	004.0	AA 03000	
	MESHL	MESHL	010		IF		FB					
	MESHL	SLAMZ	020	IAF	TF		FB	2.0	046.9(029.9T)	016.5	AA 03000	
	MESHL	SAPPE	030		TF		FB	1.0	337.5(320.5T)	005.3	AA 03000	
		SAPPE	010	FACF	IF		FB				AA 03000	
		PEATT	020	FAF	TF		FB	0.5	292.5(275.5T)	005.8	AA 01700	
		RW29	030	MAP	TF		FO	0.3	292.4(275.4T)	005.1	AT 00093	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		292.4(275.4T)		AA 00242	
	BUXTO	050		DF		FO				AA 03000	
	BUXTO	060		HM	R	FO		112.2(095.2T)	004.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	AUG	N441912.07	W0694747.63	N4419.201	W06947.794
	ENE	N432532.42	W0703648.69	N4325.540	W07036.812
	BUXTO	N433935.72	W0703215.97	N4339.595	W07032.266
	MESHL	N431912.07	W0700948.03	N4319.201	W07009.801
	PEATT	N433810.22	W0701101.09	N4338.170	W07011.018
	SAPPE	N433737.41	W0700307.20	N4337.624	W07003.120
	SLAMZ	N433331.30	W0695827.44	N4333.522	W06958.457
	TAATE	N434052.41	W0695753.20	N4340.874	W06957.887
	RW29	N433838.52	W0701756.37	N4338.642	W07017.940

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW29	00042	50

QUALITY 4 CHECKED

CITY AND STATE	ELEVATION: 76 THRE: 42	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
PORTLAND, ME	AIRPORT NAME: PORTLAND INTL JETPORT	RNAV	RNAV (GPS) RWY 29, AMDT1 2	AMDT: 1A
				DATED: 04/07/2011

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	AUG VOR/DME	TAATE	1. AAO	442145.00N/0695142.00W	811 (4E)	1000	AT1189	3000
			2. TERRAIN	441857.00N/0695000.00W	552 (600)		AS1500	2100
FEEDER	MESHL	SLAMZ	3. SHIP	431912.07N/0700948.03W	250 (2C)	1000	AT1750	3000
			4. TERRAIN	431912.07N/0700948.03W	0 (0)		AS1500	1500
FEEDER	ENE VORTAC	SAPPE	5. TOWER (23-000388)	432857.00N/0703126.00W	492 (2C)	1000	AT1508	3000
			6. TERRAIN	432915.00N/0703133.00W	292 (300)		AS1800	2100
INITIAL	TAATE	SAPPE	7. SHIP	433737.55N/0700307.43W	250 (2C)	1000	AT1750	3000
			8. TERRAIN	433921.09N/0700214.07W	19 (0)		AS1500	1500
INITIAL	SLAMZ	SAPPE	7. SHIP	433737.55N/0700307.43W	250 (2C)	1000	AT1750	3000
			9. TERRAIN	433737.55N/0700307.43W	0 (0)		AS1500	1500
INTERMEDIATE	SAPPE (IF/IAF)	PEATT	10. AAO	433900.18N/0700726.50W	259 (2C)	500	AT941	1700
			11. TERRAIN	433900.18N/0700726.50W	59 (100)		AS1500	1600
FINAL: LPV	PEATT	RW29				ASC		242/200
FINAL: LNAV/VNAV	PEATT	RW29	12. TREE (23-021339)	433850.16N/0701632.42W	248 (1A)	23.98:1	XP69	620/578
2. HOLD-IN-LIEU-OF-PT	SAPPE	P-5	14. AAO	434209.00N/0700600.00W	368 (4E)	1000	AT1632	3000
			15. TERRAIN	434209.00N/0700600.00W	168 (200)		AS1500	1700
3. MISSED APPROACH — MAP:	DA / DA / RW29	BUXTO				ASC		3000
			16. TOWER (23-000142)	434109.00N/0703032.00W	688 (4D)	1000		1700
ELEV:	77/459/480		17. TERRAIN	434106.00N/0703312.00W	417 (400)		AS1500	1900
			18. BLDG (23-000162)	433912.00N/0701632.00W	311 (1B)	300		620
			18. BLDG (23-000162)	433912.00N/0701632.00W	311 (1B)	300		620
			19. TOWER (23-000226)	433948.00N/0701615.00W	321 (1A)	300		640
			20. TOWER (23-000491)	434126.40N/0701903.00W	431 (4D)	300	AC50	800

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL
CATEGORY A	1.3 NM	350	544
CATEGORY B	1.5 NM	450	544
CATEGORY C	1.7 NM	450	564
CATEGORY D	2.3 NM	550	724
CATEGORY E	4.5 NM	550	

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: RW29

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	OM S A
360-360	TWR (23-000419)	318/ 23.5	2549 (2C)	3600					4

INAL CHECKED

CITY AND STATE	ELEVATION: 76 / AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
PORTLAND, ME	PORTLAND INTL JETPORT	RNAV	RNAV (GPS) RWY 29, AMDT 2	ANE

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE	3. ALTIMETER SETTING
PWM APP CON PWM TOWER ZBW ARTCC	[ ] NWS [ ] FAA [ ] A/C OTHER: ASOS	SOURCE: KPWM / KLEW DISTANCE: 0 / 24.16 HOURS REMOTE OPERATION: 24
SATISFACTORY ON: [X] VHF [X] UHF [ ] HF	LOCATION: KPWM	ADJUSTMENT: 0 / 0

4. MONITOR STATUS	PRIMARY NAVAID:	
	MONITOR POINT:	
	HRS OPTN:	CAT 1
		CAT 3
5. APPROACH & RUNWAY LIGHTING	X	ALSF-2 11
		(S) SALS
	X	MALSR 29 (PCL)
	X	HIRL 11 (PCL), 29 (PCL)
	X	MIRL 18 (PCL), 36 (PCL)
	X	REIL 18 (PCL), 36 (PCL)
	X	TDZ 11
	X	C/L 11, 29
	X	OTHER (SPECIFY) PAPI-4R 11, 29 PAPI-4L 18, 36
6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	PIR-G 29; -P 11
	INSTRUMENT	NPI-G 18, 36
7. RUNWAY VISUAL RANGE	APPROACH	11, 29
	MIDFIELD	11, 29
	ROLL OUT	11, 29
8. GLIDE PATH	GP ANGLE: 3.00	ELEV RWY THRESHOLD: 42.2
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT: 50.3
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 (DAVID SAUER)	DATE: 08/11/2011
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-352

PART C - REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

KPWM AND KLEW ON SERVICE A.

VGSI DATA: 3.00/50.3

SEE ATTACHED AIRSPACE LETTER.

NO CONTINGENT BACKUP ALTIMETER REQUIRED, AIRPORT HAS THREE REDUNDANT ALTIMETER SOURCES ON FIELD.

LPV SLOPE: 34:1
LNAV/VNAV SLOPE: 23.98:1
AIRPORT ISA: 14.85
ACT: -20
AVERAGE COLD TEMPERATURE BASED ON 5 YEAR HISTORY (2006-2010).

TAA NOT DEVELOPED PER REGION REQUEST

OBS #20 ACCURACY CODE 4D VERIFIED BY FLIGHT INSPECTION.

COULD NOT ADD SDF TO OBTAIN LOWER LOC MDA DUE TO 2008-ANE-114-OE 304' OBSTACLE 43-38-45.49N/070-16-09.60W

AIRPORT HAS REDUNDANT WEATHER REPORTING, BUT ADDED CONTINGENCY BACKUP ALTIMETER SINCE AVNIS LISTS A REMOTE.

NO VISUAL PENETRATIONS.

LNAV/VNAV XP: TO PROTECT PROPOSED 2008-ANE-114-OE 304' OBSTACLE 43-38-45.49N/070-16-09.60W.

QUALITY & CHECKED

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
FINAL: LNAV	**PEATT**	**RW29**	**13. AAO**	**433835.32N/0701144.02W**	**325 (2C)**	**250**		**580**

3. MISSED APPROACH									
	MAP:								
	ELEV:								

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT.							
CATEGORY A	1.3 NM	REQUIRED	350	ACTUAL					
CATEGORY B	1.5 NM		450						
CATEGORY C	1.7 NM		450						
CATEGORY D	2.3 NM		550						
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
PORTLAND, ME	**ELEVATION: 76** AIRPORT NAME: **PORTLAND INTL JETPORT**	**RNAV**	**RNAV (GPS) RWY 29, AMDT 2**	**ANE**

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE			3. ALTIMETER SETTING
SATISFACTORY ON:		N W S	OTHER:	SOURCE:
		F A A		DISTANCE:
		A / C		HOURS REMOTE OPERATION:
V H F / U H F / H F	LOCATION:			ADJUSTMENT:

4. MONITOR STATUS	PRIMARY NAVAID:		
	MONITOR POINT:		
	HRS OPTN:	CAT 1	
		CAT 3	
5. APPROACH & RUNWAY LIGHTING		**ALS**	
		(S) SALS	
		MALS	
		HIRL	
		MIRL	
		REIL	
		TDZ	
		C/LINE	
		OTHER (SPECIFY)	
6. RUNWAY MARKINGS	BASIC		
	ALL WEATHER		
	INSTRUMENT		
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	RUNWAY THRESHOLD	FT. FROM THRESHOLD	
	ON CENTERLINE	FT. FROM CENTERLINE	

10. WAIVERS:

PART D - PREPARED BY:	DATE:
TITLE:	OFFICE:

PART C - REMARKS:

QUALITY CHECK

RADIO FIX AND HOLDING DATA RECORD

NAME: BUXTO **STATE:** ME **COUNTRY:** US

LATITUDE/LONGITUDE: 433935.72N/0703215.97W **TYPE:** WP, RADAR, 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	PORTLAND	I-PWM	LOC		292.30	275.30	10.61	10.61		2300	4500
2	KENNEBUNK	ENE	VORTAC	H	030.21	013.21	14.44	14.44		2300	4500

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	W		WP	292.15	112.15	R		4	2300	6000	5	6
2	W	I-PWM	LOC	292.30	112.30	R	1		2300	4500	4	5

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	433609.00N/0704415.00W	1040	4E
2	200	AAO	434157.00N/0704157.00W	863	4E

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
KENNEBUNK (FAC 2) AND PORTLAND (FAC 1) USED TO ESTABLISH FIX COORDINATES
NAME CHANGED FROM KIFFI TO BUXTO.
PRECIPITOUS TERRAIN EVLAUATION COMPLETED.
PWM DME ANTENNA COORDINATES: 433834.85N-0701743.12W.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 11	1, 2	2	KPWM	PORTLAND	ME (US)
IAP	ILS RWY 11 (CAT II)	1, 2	2	KPWM	PORTLAND	ME (US)
IAP	ILS RWY 11 (CAT III)	1, 2	2	KPWM	PORTLAND	ME (US)
IAP	ILS RWY 11 (SA CAT I)	1, 2	2	KPWM	PORTLAND	ME (US)
IAP	RNAV (GPS) RWY 11		1	KPWM	PORTLAND	ME (US)
IAP	RNAV (GPS) RWY 29		1	KPWM	PORTLAND	ME (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
1. CHANGED FIX NAME FROM KIFFI TO BUXTO.
2. ADDED REMARK, NAME CHANGED FROM KIFFI TO BUXTO.
3. MOVED FIX 1.98 NM EAST.
4. DELETED FAC 3, KPWM R11.
5. ADDED FAC 1 AND 2 DIST FROM FAC IN NM.
6. CHANGED FAC 1 AND 2 MRA/MAA FROM 2600/4600 TO 2300/4500.
7. ADDED REMARK, PRECIPITOUS TERRAIN EVLAUATION COMPLETED.
8. MOVED REMARK, HOLDING LIMITED TO ESTABLISHED PATTERN, TO HOLDING RESTRICTIONS.
9. CHANGED FAC 1 TRUE BRG/DME FROM 275.32/12.50 TO 275.30/10.61.
10. CHANGED FAC 2 TRUE BRG/DME FROM 005.32/14.29 TO 013.21/14.44.
11. DELETED PAT 2 DME LEG LENGTH.
12. CHANGED PAT 2 CONTROLLING OBSTRUCTION FROM 1228 FT AAO TO 863 FT AAO.
13. CHANGED PAT 2 MIN/MAX ALTITUDES FROM 2600/4600 TO 2300/4500.
14. CHANGED PAT 1 CRS INBOUND FROM 112.12 TO 112.15.
15. CHANGED PAT 1 MIN ALTITUDE FORM 2600 TO 2300.
16. CHANGED PAT 1 CONTROLLING OBSTRUCTION FROM 1259 FT AAO TO 1040 FT AAO.
17. CHANGED REMARK, PWM DME ANTENNA COORDINATES: FROM "433835.38N-0701750.91W" TO "433834.85N-0701743.12W".
18. CHANGED PAT 1 LEG LENGTH FROM 5 TO 4 DME.
19. ADDED REMARK, KENNEBUNK (FAC 2) AND PORTLAND (FAC 1) USED TO ESTABLISH FIX COORDINATES.
20. ADDED PAT 2 310K CONTROLLING OBSTRUCTION.

3/28/12: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 2/23/12.
1. DELETED PAT 1 CLIMB-IN-HOLD AND 310 KT OBSTRUCTION.

DEVELOPED BY: **DATE:** 08/11/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (DAVID SAUER)

QUALITY CHECKED 4

APPROVED BY: **DATE:** 03/16/2012 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: EST
ARTCC: ZBW
ATC FACILITY: PWM APP CON
OTHER:

QUALITY CHECKED 4

RADIO FIX AND HOLDING DATA RECORD

NAME: KENNEBUNK VORTAC **STATE:** ME **COUNTRY:** US

LATITUDE/LONGITUDE: 432532.42N/0703648.69W **TYPE:**

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	KENNEBUNK	ENE	VORTAC	H							45000

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	NE	ENE	VORTAC	062.00	242.00	L	1-1 1/2		3000	17500	4	16
2	E	ENE	VORTAC	082.00	262.00	L	1		2400	6000	4	12
3	W	ENE	VORTAC	267.54	087.54	R	1		2400	6000	4	5
4	E	ENE	VORTAC	081.00	261.00	L	1		2000	6000	4	5
5	NE	ENE	VORTAC	044.00	224.00	L	1 1/2		24000	39000	19	27
6	NE		WP	044.00	224.00	L		10	17000	45000	18	31
7	NE		WP	062.00	242.00	L		4	3000	6000	5	13

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	432218.00N/0704009.00W	578	4E
2	200	AAO	432218.00N/0704009.00W	578	4E
2	310	AAO	432303.00N/0704709.00W	1126	4E
3	200	AAO	432303.00N/0704709.00W	1126	4E
4	200	AAO	432218.00N/0704009.00W	578	4E
6	265	TOWER (23-000093)	432500.30N/0704815.20W	1165	5E
7	200	AAO	433045.01N/0703702.39W	589	2C
7	310	AAO	432330.00N/0704657.00W	929	4E

REASON FOR NONSTANDARD HOLDING:
PAT 1 ATC REQUEST
PAT 2 ATC REQUEST
PAT 5 ATC REQUEST
PAT 4 ATC REQUEST
PAT 6 ATC REQUEST
PAT 7 ATC REQUEST

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
2	ILS OR LOC RWY 7	KSFM	SANFORD	ME (US)
7	RNAV (GPS) RWY 32	KSFM	SANFORD	ME (US)
7	RNAV (GPS) RWY 6	KB19	BIDDEFORD	ME (US)
7	RNAV (GPS) RWY 7	KSFM	SANFORD	ME (US)

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
PAT 6 MAG VAR JFK 14W.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	HANSCOM			KBED	BEDFORD	MA (US)
DP	BEVERLY			KBVY	BEVERLY	MA (US)
DP	LOGAN			KBOS	BOSTON	MA (US)
DP	LAWRENCE			KLWM	LAWRENCE	MA (US)
DP	NORWOOD			KOWD	NORWOOD	MA (US)
DP	BANGOR			KBGR	BANGOR	ME (US)
DP	CASCO			KPWM	PORTLAND	ME (US)
DP	PORTLAND			KPWM	PORTLAND	ME (US)
DP	MANCHESTER			KMHT	MANCHESTER	NH (US)
DP	PEASE			KPSM	PORTSMOUTH	NH (US)
DP	TANKR			KPSM	PORTSMOUTH	NH (US)
DP	BETTE			KJFK	NEW YORK	NY (US)
DP	GREKI			KJFK	NEW YORK	NY (US)
DP	HAPIE			KJFK	NEW YORK	NY (US)
DP	MERIT			KJFK	NEW YORK	NY (US)
EN ROUTE	J121					(US)
EN ROUTE	J547					(US)
EN ROUTE	J55					(US)
EN ROUTE	J573					(US)
EN ROUTE	J581					(US)

EN ROUTE	Q480				(US)
EN ROUTE	V106				(US)
EN ROUTE	V139				(US)
EN ROUTE	V167				(US)
EN ROUTE	V496				(US)
EN ROUTE	V93	1			(US)
IAP	NDB RWY 6		KGHG	MARSHFIELD	MA (US)
IAP	ILS OR LOC RWY 4		KLEW	AUBURN/LEWISTON	ME (US)
IAP	RNAV (GPS) RWY 6	7	KB19	BIDDEFORD	ME (US)
IAP	VOR RWY 6	3	KB19	BIDDEFORD	ME (US)
IAP	ILS OR LOC/DME RWY 1R		KBXM	BRUNSWICK	ME (US)
IAP	NDB-B		KIZG	FRYEBURG	ME (US)
IAP	ILS OR LOC RWY 11	2	KPWM	PORTLAND	ME (US)
IAP	ILS OR LOC RWY 29	2	KPWM	PORTLAND	ME (US)
IAP	ILS RWY 11 (SA CAT I)	2	KPWM	PORTLAND	ME (US)
IAP	ILS RWY 11 CAT II	2	KPWM	PORTLAND	ME (US)
IAP	ILS RWY 11 CAT III	2	KPWM	PORTLAND	ME (US)
IAP	ILS RWY 29 (SA CAT I)	2	KPWM	PORTLAND	ME (US)
IAP	ILS RWY 29 (SA CAT II)	2	KPWM	PORTLAND	ME (US)
IAP	RNAV (GPS) RWY 11		KPWM	PORTLAND	ME (US)
IAP	RNAV (GPS) RWY 29		KPWM	PORTLAND	ME (US)
IAP	RNAV (GPS) RWY 36		KPWM	PORTLAND	ME (US)
IAP	ILS OR LOC RWY 13		KRKD	ROCKLAND	ME (US)
IAP	RNAV (GPS) RWY 31		KRKD	ROCKLAND	ME (US)
IAP	ILS OR LOC RWY 7	2	KSFM	SANFORD	ME (US)
IAP	RNAV (GPS) RWY 32	7	KSFM	SANFORD	ME (US)
IAP	RNAV (GPS) RWY 7	7	KSFM	SANFORD	ME (US)
IAP	VOR RWY 25	4	KSFM	SANFORD	ME (US)
IAP	VOR RWY 7	2	KSFM	SANFORD	ME (US)
IAP	RNAV (GPS) RWY 24		KMHT	MANCHESTER	NH (US)
IAP	ILS OR LOC RWY 16		KPSM	PORTSMOUTH	NH (US)
IAP	ILS OR LOC RWY 34		KPSM	PORTSMOUTH	NH (US)
IAP	VOR RWY 16		KPSM	PORTSMOUTH	NH (US)
IAP	VOR RWY 34		KPSM	PORTSMOUTH	NH (US)
IAP	NDB RWY 33		KDAW	ROCHESTER	NH (US)
IAP	NDB-B		KDAW	ROCHESTER	NH (US)
IAP	RNAV(GPS) RWY 33		KDAW	ROCHESTER	NH (US)
STAR	OOSHN (RNAV)	6	KBOS	BOSTON	MA (US)
STAR	SCUPP		KBOS	BOSTON	MA (US)
STAR	PARCH (RNAV)	6	KFRG	FARMINGDALE	NY (US)
STAR	ROBER	5	KFRG	FARMINGDALE	NY (US)
STAR	PARCH (RNAV)	6	KJFK	NEW YORK	NY (US)
STAR	ROBER	5	KJFK	NEW YORK	NY (US)

REQUIRED CHARTING: DP, STAR, MILITARY IAP, IAP, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 25 **DATE OF REVISION:** 02/09/2012

REASON FOR REVISION:
1. CHANGED PAT 1, 2, AND 4 200K CONTROLLING OBSTRUCTION FROM 545' TOWER TO 578' AAO.
2. CHANGED PAT 2 310K AND PAT 3 200K CONTROLLING OBSTRUCTION FROM 979' TREE TO 1126' AAO.
3. CHANGED PAT 2 MIN ALTITUDE FROM 2000 TO 2400.
4. CHANGED PAT 7 310K CONTROLLING OBSTRUCTION FROM 839' TREE TO 929' AAO.
5. DELETED REMARK, "CONTROLLING OBSTACLES FOR PAT 2 (310 KTS), PAT 3 (310 KTS), AND PAT 7 (310 KNTS) LIE WITHIN AAO EXEMPT AREA ADJACENT SANFORD RGNL AIRPORT (SFM). MANUAL TERRAIN EVALUATION ACCOMPLISHED DUE TO DTED INACCURACY WHEN COMPARED TO QUAD MAP".

DEVELOPED BY: **DATE:** 08/16/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (DAVID SAUER)

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

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: EST
ARTCC: ZBW
ATC FACILITY: PWM APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: MESHL **STATE:** ME **COUNTRY:** US

LATITUDE/LONGITUDE: 431912.07N/0700948.03W **TYPE:** WP, INT, 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	AUGUSTA	AUG	VOR/DME	L	213.00	195.00	62.07	62.07		3000	17500
2	KENNEBUNK	ENE	VORTAC	H	124.68	107.68		20.70		5000	17500
3	BOSTON	BOS	VOR/DME	H	048.00	032.00	68.29	68.29		5000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
AUG	VOR/DME	R-213	62	3000	18000
BOS	VOR/DME	R-048	69	5000	17500

FIX RESTRICTIONS:
MRA V268 5000

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

REMARKS:
KENNEBUNK (FAC 2) AND AUGUSTA (FAC 1) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V268	1, 2, 3				(US)
IAP	RNAV (GPS) RWY 19L			KBXM	BRUNSWICK	ME (US)
IAP	RNAV (GPS) RWY 1R			KBXM	BRUNSWICK	ME (US)
IAP	RNAV (GPS) RWY 29			KPWM	PORTLAND	ME (US)
IAP	RNAV (GPS) RWY 32			KSFM	SANFORD	ME (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4 **DATE OF REVISION:** 02/09/2012

REASON FOR REVISION:
1. ADDED REMARK, KENNEBUNK (FAC 2) AND AUGUSTA (FAC 1) USED TO ESTABLISH FIX COORDINATES.
2. UPDATED FIX USE.

DEVELOPED BY: **DATE:** 10/18/2011 **OFFICE:** AJV-352 **NAME:** DAVID SAUER

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZBW
ATC FACILITY: PWM APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: PEATT **STATE:** ME **COUNTRY:** US

LATITUDE/LONGITUDE: 433810.22N/0701101.09W **TYPE:** WP, RADAR, 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	PORTLAND	I-GCS	LOC		112.32	095.32	4.88	6.40	38885	1700	4500

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

REMARKS:
I-GCS DME COORDINATES: 433834.85N-0701743.12W.
COORDINATES ESTABLISHED USING 8260.54A FORMULA 2-16B.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 29	1		KPWM	PORTLAND	ME (US)
IAP	ILS RWY 29 (SA CAT I)	1		KPWM	PORTLAND	ME (US)
IAP	ILS RWY 29 (SA CAT II)	1		KPWM	PORTLAND	ME (US)
IAP	RNAV (GPS) RWY 29			KPWM	PORTLAND	ME (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6 **DATE OF REVISION:** 02/09/2012

REASON FOR REVISION:
1. MOVED FIX 494.40 FEET EAST.
2. DELETED FAC 2, KPWM R29.
3. ADDED FAC 1 DIST FROM FAC IN NM AND FEET.
4. CHANGED FAC 1 MAA FROM 4600 TO 4500.
5. CHANGED FAC 1 DME FROM 4.90 TO 4.88.
6. ADDED REMARK, COORDINATES ESTABLISHED USING 8260.54A FORMULA 2-16B.
7. CHANGED REMARK, I-GCS DME COORDINATES: FROM "433835.38N-0701750.91W" TO "433834.85N-0701743.12W".
8. UPDATED FIX USE.

DEVELOPED BY: **DATE:** 08/17/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (DAVID SAUER)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZBW
ATC FACILITY: PWM APP CON, PWM ATCT
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: SAPPE **STATE:** ME **COUNTRY:** US

LATITUDE/LONGITUDE: 433737.41N/0700307.20W **TYPE:** WP, RADAR, 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	FEET	MRA	MAA
1	PORTLAND	I-GCS	LOC		112.32	095.32	10.64	12.16		3000	4500
2	AUGUSTA	AUG	VOR/DME	L	213.00	195.00	43.02	43.02		3000	17500
3	KENNEBUNK	ENE	VORTAC	H	080.57	063.57		27.33		3000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
AUG	VOR/DME	R-213	44	3000	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	E	I-GCS	LOC	112.32	292.32	R	1		3000	4500	6	7
2	E		WP	112.49	292.49	R		4	3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	434209.00N/0700600.00W	368	4E
2	200	AAO	434209.00N/0700600.00W	368	4E

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
AUGUSTA (FAC 2) AND PORTLAND (FAC 1) USED TO ESTABLISH FIX COORDINATES
I-GCS DME COORDINATES: 433834.85N/0701743.12W.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V268	1, 2, 3				(US)
IAP	ILS OR LOC RWY 29	1, 2, 3	1	KPWM	PORTLAND	ME (US)
IAP	ILS RWY 29 (SA CAT I)	1, 2, 3	1	KPWM	PORTLAND	ME (US)
IAP	ILS RWY 29 (SA CAT II)	1, 2, 3	1	KPWM	PORTLAND	ME (US)
IAP	RNAV (GPS) RWY 11		2	KPWM	PORTLAND	ME (US)
IAP	RNAV (GPS) RWY 29		2	KPWM	PORTLAND	ME (US)
IAP	RNAV (GPS) RWY 25			KSFM	SANFORD	ME (US)
IAP	RNAV (GPS) RWY 7			KIWI	WISCASSET	ME (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8 **DATE OF REVISION:** 02/09/2012

REASON FOR REVISION:
1. MOVED FIX 22.07 FEET SOUTHEAST.
2. UPDATED FAC 1 AND 3 FROM HISTORY TO ACTIVE/PENDING STATUS.
3. CHANGED REMARK, I-GCS DME COORDINATES: FROM "433835.37N/0701750.92W" TO "433834.85N/0701743.12W".
4. CHANGED FAC 1 DME FROM 10.74 TO 10.64.
5. CHANGED FAC 1 AND PAT 1 MAA FROM 4600 TO 4500.
6. CHANGED FAC 3 DIST FROM FAC FROM 27.32 TO 27.33 NM.
7. CHANGED FAC 3 TRUE BRG FROM 063.56 TO 063.57.
8. DELETED 5 DME LEG LENGTH FROM PAT 1.
9. CHANGED PAT 2 CRS INBOUND FROM 292.47 TO 292.49.
10. ADDED REMARK, AUGUSTA (FAC 2) AND PORTLAND (FAC 1) USED TO ESTABLISH FIX COORDINATES.
11. UPDATED FIX USE.

DEVELOPED BY: **DATE:** 10/19/2011 **OFFICE:** AJV-352 **NAME:** DAVID SAUER

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

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: EST
ARTCC: ZBW
ATC FACILITY: PWM APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: SLAMZ **STATE:** ME **COUNTRY:** US

LATITUDE/LONGITUDE: 433331.30N/0695827.44W **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 29			KPWM	PORTLAND	ME (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 02/09/2012

DEVELOPED BY: **DATE:** 08/17/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (DAVID SAUER)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZBW
ATC FACILITY: PWM APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: TAATE **STATE:** ME **COUNTRY:** US

LATITUDE/LONGITUDE: 434052.41N/0695753.20W **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 29			KPWM	PORTLAND	ME (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 02/09/2012

DEVELOPED BY: **DATE:** 08/17/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (DAVID SAUER)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZBW
ATC FACILITY: PWM APP CON
OTHER:

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: AUGUSTA VOR/DME **STATE:** ME **COUNTRY:** US

LATITUDE/LONGITUDE: 441912.07N/0694747.63W **TYPE:**

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	FEET	MRA	MAA
1	AUGUSTA	AUG	VOR/DME	L							17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
AUG	VOR/DME	R-330	51	5800	17500

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

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	N	AUG	VOR/DME	346.00	166.00	R	1-1 1/2		2300	17500	4	16
2	SW	AUG	VOR/DME	219.88	039.88	R	1		3000	6000	4	5

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	442604.04N/0695537.29W	939	2C
2	200	AAO	441857.00N/0695000.00W	752	4E

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	CASCO			KPWM	PORTLAND	ME (US)
DP	PORTLAND			KPWM	PORTLAND	ME (US)
EN ROUTE	V268					(US)
EN ROUTE	V3					(US)
EN ROUTE	V3-39					(US)
EN ROUTE	V302					(US)
EN ROUTE	V39					(US)
IAP	ILS OR LOC RWY 4			KLEW	AUBURN/LEWISTON	ME (US)
IAP	VOR/DME-A			KLEW	AUBURN/LEWISTON	ME (US)
IAP	ILS OR LOC RWY 17			KAUG	AUGUSTA	ME (US)
IAP	VOR RWY 35		1	KAUG	AUGUSTA	ME (US)
IAP	VOR/DME RWY 17		1	KAUG	AUGUSTA	ME (US)
IAP	VOR/DME RWY 8		1	KAUG	AUGUSTA	ME (US)
IAP	VOR/DME-A		1	KAUG	AUGUSTA	ME (US)
IAP	NDB RWY 15			KBST	BELFAST	ME (US)
IAP	RNAV (GPS) RWY 33			KBST	BELFAST	ME (US)
IAP	ILS OR LOC/DME RWY 1R			KBXM	BRUNSWICK	ME (US)
IAP	RNAV (GPS) RWY 16			K1B0	DEXTER	ME (US)
IAP	GPS RWY 15			KOWK	NORRIDGEWOCK	ME (US)
IAP	GPS RWY 3			KOWK	NORRIDGEWOCK	ME (US)
IAP	VOR/DME RWY 3			KOWK	NORRIDGEWOCK	ME (US)
IAP	NDB RWY 36			K2B7	PITTSFIELD	ME (US)
IAP	RNAV (GPS) RWY 36			K2B7	PITTSFIELD	ME (US)
IAP	ILS OR LOC RWY 29			KPWM	PORTLAND	ME (US)
IAP	ILS RWY 29 (SA CAT I)			KPWM	PORTLAND	ME (US)
IAP	ILS RWY 29 (SA CAT II)			KPWM	PORTLAND	ME (US)
IAP	RNAV (GPS) RWY 29			KPWM	PORTLAND	ME (US)
IAP	NDB-A			K8B0	RANGELEY	ME (US)
IAP	RNAV (GPS) -D			K8B0	RANGELEY	ME (US)
IAP	NDB-B			KM57	RANGELEY	ME (US)
IAP	RNAV (GPS)-C			KM57	RANGELEY	ME (US)
IAP	ILS OR LOC RWY 13			KRKD	ROCKLAND	ME (US)
IAP	ILS OR LOC/DME RWY 5		1	KWVL	WATERVILLE	ME (US)
IAP	VOR/DME RWY 5		2	KWVL	WATERVILLE	ME (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 9 **DATE OF REVISION:** 07/28/2011

REASON FOR REVISION:
UPDATED FIX USE.
ADDED "PRECIPITOUS TERRAIN EVALUATION" REMARK.
MOVED "HOLDING LIMITED TO ESTABLISHED PATTERNS" REMARK TO HOLDING RESTRICTIONS.
ADDED HOLDING PATTERN 2 DATA.

DEVELOPED BY:	**DATE:** 03/29/2011	**OFFICE:** AVN-110	**NAME:** STEVE BRUMMETT
APPROVED BY:	**DATE:** 06/13/2011	**OFFICE:** AVN-110	**NAME:** DARRYEL ADAMS
	SIGNATURE:		

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZBW
ATC FACILITY: PWM APP CON
OTHER:

US Department of Transportation
Federal Aviation Administration

FLIGHT PROCEDURES STANDARDS WAIVER

DATE: 04/09/2003

1. Flight Procedure Identification:

PORTLAND, ME
PORTLAND INTL JETPORT
RNAV (GPS) RWY 29

CANCELLED
BY_____
DATE_____

2. Waiver Required and Applicable Standard:
8260.3B, VOL 1, PARA 242 b (1)"...Where the initial segment joins the intermediate segment at angles up to 90 degrees, the MINIMUM length is 5 NM for CAT A/B, and 6 NM for CAT C/D/E, (except as specified in Volume 1, chapters 9 and 10, and Volume 3, chapter 2)."

3. Reason for Waiver *(Justification for nonstandard treatment)*:

This is a new RNAV (GPS) procedure overlying an existing ILS procedure with an existing intermediate fix located on the airway. It is not possible to relocate the fix to a point where the intermediate would be 6 miles long and still be on the airway. This fix is located within the minimum length required for the ILS approach in accordance with 8260.3b Volume 3, chapter 2, para 2.3.1. The difference between the current fix and the minimum distance required by criteria is 0.16 NM/985 feet.

THIS WAIVER IS CANCELED EFFECTIVE WITH PUBLICATION OF KPWM RNAV (GPS) RWY 29 AMDT 2.

PROCEDURE REDESIGNED IAW 8260.54A PARA 2.9.2 WITH LESS THAN 45 DEGREE TURN AT INTERMEDIATE FIX.

GREG YAMAMOTO_____
MANAGER, TERMINAL PRODUCTS GROUP, AJV-35

4. Equivalent Level of Safety Provided:
Satisfactory flight inspection.

Current fix is located within the required intermediate length for ILS procedures for the degree of turn.

Descent gradient increases 5.93 ft. per NM from 216.67 ft. to 222.60 ft., well within the maximum allowable gradient.

Reduction of the required 6 NM length by 0.16 NM/985 ft. is within the fix displacement area already provided for in criteria.

Intermediate leg length of 5.84 NM is within AFS 420 turn analysis plot which requires a min leg length of 4.6 NM.

5. How Relocation or Additional Facilities Will Affect Waiver Requirement:

Additional facilities would have no impact on airway location.
Relocation of fix is not feasible due to airway location and the requirement for the ILS LOC course to intersect the airway.

6. Coordination With User Organizations *(Specify)*:
AVN-140
AVN-110 for
AVN-160 TWM

7. SUBMITTED BY

Office Identification:	Title:	Signature:
AVN-100	**MANAGER**	**RUSSELL D. JONES**

FAA FORM 8260 - 1 / February 1995 (computer generated)

8. REGIONAL ENDORSEMENT		Approval Recommended
		Not Recommended
		Not Required

Comments:

Date:	Routing Symbol:	Signature:

9. AVN ENDORSEMENT		Approval Recommended
		Not Recommended
		Not Required

Comments:

Date:	Routing Symbol:	Signature:

10. AFS ACTION	X	Approved
		Disapproved
		Not Required

Comments:

Based on the equivalent level of safety provided in Block 4

Date:	Routing Symbol:	Signature: AFS-400
10-31-03	AFS-400	John W. McGraw, Manager Flight Technologies & Procedures Division

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **PORTLAND** STATE: **ME**

AIRPORT NAME: **PORTLAND INTL JETPORT** ID: **KPWM**

PROCEDURE: **RNAV (GPS) RWY 29** AMDT: **2**

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 **3.48**
   (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 **275.40**
4. High Terrain in **FINAL** segment containing 1000' point **184**
5. Distance from **THLD** to 1500' point **5.05**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **FINAL** segment at 1500' point **2.13**
7. True Course of **FINAL** segment containing 1500' point **275.40**
8. High Terrain in **FINAL** segment containing 1500' point **184**
9. Threshold Coordinates (if straight-in) ... **433838.52N / 0701756.37W**
10. ARP Coordinates ..... **433846.20N / 0701833.40W**
11. Runway Approach End and distance furthest from ARP.....RWY **11**
    Distance **0.73** NM
12. FAF Coordinates ..... **433810.22N / 0701101.09W**
    (Click to Select)

REMARKS: Approach/Drawing attached.