Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: STAR	Date Open: 05/12/2011	Task #: 2007031308467302002	Request #: 20070313084673
Procedure: STAR CDOGG (RNAV) ONE PORTLAND ME KPWM		**Airport ID:** KPWM	**Airport:** PORTLAND INTL JETPORT		**Reimbursable #:**
City: PORTLAND	**ST:** ME	**GPS #:**		**Estimated Chart Date:** 07/26/2012	**FICO #:**
Fac ID:	**Fac. Type:** Proc D	**Specialist:** PETER GUIMOND			

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	01/13/2012	04/06/2012	DONALD SMITH	DME / DME
QA:	04/06/2012	04/06/2012	DAVID PUGLISI	
Liaison:	04/06/2012		Alfonso	DME/DME

PL

ESV REQUEST INCLUDES

Picg 4.06

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

PORTLAND, ME PORTLAND INTL JETPORT (KPWM) CDOGG ONE (RNAV) (STAR) ENROUTE-YES FC: 5.29.12 PUB: 7.26.12

ATTACHED FORMS: ESV REPORTS; 7100-4; 7100-3; 8260-2(S): BUXTO-INT, REV 7; CDOGG, ORIG; IPKAH, REV 3; KAYCC, ORIG; KEENE (EEN) VTAC, REV 16; SAPPE-INT, REV 9; YAAKK, ORIG; YOMON, ORIG; (INFO ONLY) CAMBRIDGE (CAM) VDME, REV 15.

CONTACT: DON SMITH, AJV-352 LEAD, 405.954.1036:

CDOGG ONE ARRIVAL (RNAV)

PROTOTYPE-NOT FOR NAVIGATION

NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1.
NOTE: Radar required for non-GPS equipped aircraft.

PORTLAND APP CON
119.75 381.2
PORTLAND ATIS
119.05

N

BUXTO 2300

PORTLAND INTL JETPORT

SAPPE 3000

YAAKK

YOMON

4000
111°
(32)
(094°T)

3000
063°
(4)
(048°T)

018°
(5)
(001°T)

2300
089°
(4)
(051°T)

IPKAH

(067°T)
2800
(12)
084°

KAYCC

CDOGG
11000

8000
087°
(13)
(070°T)

Expect Portland App Con to issue runway transition not less than 10 NM prior to KAYCC.

11000
068°
(65)
(051°T)

11000
090°
(101)
(073°T)

CAMBRIDGE
CAM

KEENE
EEN

BUXTO: 4339.595'/07032.266'
CAM: 4259.657'/07320.641'
CDOGG: 4327.846'/07108.463'
EEN: 4247.657'/07217.507'
IPKAH: 4336.920'/07036.812'
KAYCC: 4332.368'/07051.627'
SAPPE: 4337.624'/07003.120'
YAAKK: 4333.082'/07003.249'
YOMON: 4330.081'/07007.461'

ARRIVAL ROUTE DESCRIPTION

CAMBRIDGE TRANSITION (CAM.CDOGG1)
KEENE TRANSITION (EEN.CDOGG1)

From over CDOGG on track 087° to KAYCC thence....

Landing Rwy 11: From over KAYCC on track 080° to BUXTO.
Landing Rwy 29: From over KAYCC on track 111° to YOMON, then on track 063° to YAAKK, then on track 018° to SAPPE.

NOTE: Chart not to scale.

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : MANCHESTER	City : MANCHESTER	Ident : MHT	State : NH
Type/Class : DMER	Frequency : M1178	Reference No.: 12018538	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 780514-006	30	70	66	35	120

Requirement: MITIGATE CRITICAL DME ON CDOGG STAR, SCOGS STAR AND NUBLE SID		
Signature: COOK DAVE	Routing Symbol:	Date: 01/18/2012

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 780514-006	30	70	66	35	120	APPROVE

Requirement/Remarks: MITIGATE CRITICAL DME ON CDOGG STAR, SCOGS STAR AND NUBLE SIDAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.		
Signature: Cassella Charles	Routing Symbol:	Date: 01/23/2012

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 780514-006	30	70	66	35	120	APPROVE

Requirement/Remarks: MITIGATE CRITICAL DME ON CDOGG STAR, SCOGS STAR AND NUBLE SIDAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.		
Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 01/24/2012

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 780514-006	30	70				

Requirement/Remarks:		
Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : CONCORD	City : CONCORD	Ident : CON	State : NH
Type/Class : TACR	Frequency : M1163	Reference No.: 12018540	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 698138-005	54	105	63	40	170

Requirement: MITIGATE CRITICAL DME ON CDOGG STAR AND SCOGS STAR		
Signature: COOK DAVE	Routing Symbol:	Date: 01/18/2012

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 698138-005	54	105	63	40	170	APPROVE

Requirement/Remarks: MITIGATE CRITICAL DME ON CDOGG STAR AND SCOGS STARAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.		
Signature: Cassella Charles	Routing Symbol:	Date: 01/18/2012

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 698138-005	54	105	63	40	170	APPROVE

Requirement/Remarks: MITIGATE CRITICAL DME ON CDOGG STAR AND SCOGS STARAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.		
Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 01/19/2012

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 698138-005	54	105				

Requirement/Remarks:		
Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : LAWRENCE	City : LAWRENCE	Ident : LWM	State : MA
Type/Class : DME	Frequency : M1159	Reference No.: 12018541	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 031653-001	36	57	66	35	190

Requirement: MITIGATE CRITICAL DME ON CDOGG STAR, SCOGS STAR AND NUBLE SID		
Signature: COOK DAVE	Routing Symbol:	Date: 01/18/2012

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 031653-001	36	57	66	35	190	APPROVE

Requirement/Remarks: MITIGATE CRITICAL DME ON CDOGG STAR, SCOGS STAR AND NUBLE SIDAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.		
Signature: Cassella Charles	Routing Symbol:	Date: 01/18/2012

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 031653-001	36	57	66	35	190	APPROVE

Requirement/Remarks: MITIGATE CRITICAL DME ON CDOGG STAR, SCOGS STAR AND NUBLE SIDAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.		
Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 01/19/2012

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 031653-001	36	57				

Requirement/Remarks:		
Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : LAWRENCE	City : LAWRENCE	Ident : LWM	State : MA
Type/Class : DME	Frequency : M1159	Reference No.: 12018542	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 031653-002	20	41	70	50	190

Requirement: MITIGATE CRITICAL DME ON CDOGG STAR, SCOGS STAR AND NUBLE SID		
Signature: COOK DAVE	Routing Symbol:	Date: 01/18/2012

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 031653-002	20	41	70	50	190	APPROVE

Requirement/Remarks: MITIGATE CRITICAL DME ON CDOGG STAR, SCOGS STAR AND NUBLE SIDAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.		
Signature: Cassella Charles	Routing Symbol:	Date: 01/18/2012

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 031653-002	20	41	70	50	190	APPROVE

Requirement/Remarks: MITIGATE CRITICAL DME ON CDOGG STAR, SCOGS STAR AND NUBLE SIDAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.		
Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 01/19/2012

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 031653-002	20	41				

Requirement/Remarks:		
Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : PEASE	City : PORTSMOUTH	Ident : PSM	State : NH
Type/Class : DME	Frequency : M1199	Reference No.: 12018545	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 060982-008	36	69	51	27	120

Requirement: MITIGATE CRITICAL DME ON CDOGG STAR, SCOGS STAR AND NUBLE SID

Signature: COOK DAVE	Routing Symbol:	Date: 01/18/2012

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 060982-008	36	69	51	27	120	APPROVE

Requirement/Remarks: MITIGATE CRITICAL DME ON CDOGG STAR, SCOGS STAR AND NUBLE SIDAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: Cassella Charles	Routing Symbol:	Date: 01/18/2012

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 060982-008	36	69	51	27	120	APPROVE

Requirement/Remarks: MITIGATE CRITICAL DME ON CDOGG STAR, SCOGS STAR AND NUBLE SIDAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 01/19/2012

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 060982-008	36	69				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : PEASE	City : PORTSMOUTH	Ident : PSM	State : NH
Type/Class : DME	Frequency : M1199	Reference No.: 12018546	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 060982-009	356	41	46	40	190

Requirement: MITIGATE CRITICAL DME ON CDOGG STAR, SCOGS STAR AND NUBLE SID		
Signature: COOK DAVE	Routing Symbol:	Date: 01/18/2012

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 060982-009	356	41	46	40	190	APPROVE

Requirement/Remarks: MITIGATE CRITICAL DME ON CDOGG STAR, SCOGS STAR AND NUBLE SIDAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.		
Signature: Cassella Charles	Routing Symbol:	Date: 01/18/2012

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 060982-009	356	41	46	40	190	APPROVE

Requirement/Remarks: MITIGATE CRITICAL DME ON CDOGG STAR, SCOGS STAR AND NUBLE SIDAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.		
Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 01/19/2012

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 060982-009	356	41				

Requirement/Remarks:		
Signature:	Routing Symbol:	Date:

NM 7 14 21 28 35 42 49 56 63 70

FT 42000 84000 126000 168000 210000 252000 294000 336000 378000 420000

fpoprg | cdogg (PROD) | 17 Mar 2012 07:55:44 | 1" = 41666.7 feet (MAP)

Airport ID:	**KPWM**
Apt Name:	**PORTLAND INTL JETPORT**
City:	**PORTLAND**
State:	**ME**
Proc ID:	**CDOGG**
Amdt #:	**ONE**

FM 9

No	SEGMENT	OBSTRUCTION	ELEV
1	KAYCC TO IPKAH	TREES	1225
2	IPKAH TO BUXTO	TREES	677

EASTERN MOUNTAINOUS TERRAIN REDUCTIONS APPLIED IAW TERPS PARA 1720. ENABLES 2800 MSL MEA IN SEGMENT 1 AND 2300 MSL MEA IN SEGMENT 2

US Department of Transportation
Federal Aviation Administration

STAR - Standard Terminal Arrival

1. Bearings, headings, courses and radials are listed to the nearest hundredth (e.g. 360.00)
2. Distances are in nautical miles to nearest hundredth (e.g. 00.00)
3. Altitudes are minimum altitudes unless otherwise indicated

(1) Transition Routes

(a) Transition Name	(b) Transition Computer Codes	(c) From RNAV WP/ FIX/NAVAID	(d) To RNAV WP/ FIX/NAVAID	(e) Mag Course/ Distance	(f) MEA	(g) MOCA	(h) MAA	(i) Crossing Altitudes / Fixes
CAMBRIDGE	CAM.CDOGG1	CAM VOR/DME	CDOGG	089.99 / 100.65	8000			AT 11000
KEENE	EEN.CDOGG1	EEN VORTAC	CDOGG	068.13 / 64.58	8000			AT 11000

(2) Arrival Route Description: FROM OVER CDOGG ON TRACK 086.65/13.06 NM TO KAYCC (MEA 8000) THENCE...

...LANDING RWY 11: FROM OVER KAYCC ON TRACK 084.01/11.69 NM TO IPKAH (MEA 2800), THEN ON TRACK 67.95/4.25 NM TO CROSS BUXTO AT OR ABOVE 2300 (MEA 2300).

...LANDING RWY 29: FROM OVER KAYCC ON TRACK 110.82/32.22 NM TO YOMON (MEA 4000), THEN ON TRACK 062.58/4.29 NM TO YAAKK (MEA 3000), THEN ON TRACK 018.18/4.54 NM TO CROSS SAPPE AT OR ABOVE 3000 (MEA 3000).

(3) Procedural Data Notes:
NOTE: DME/DME/IRU OR GPS REQUIRED. **NOTE:** RNAV 1. **NOTE:** RADAR REQUIRED FOR NON-GPS EQUIPPED AIRCRAFT. **NOTE:** EXPECT PORTLAND APP CON TO ISSUE RUNWAY TRANSITION NOT LESS THAN 10 NM PRIOR TO KAYCC. **CHART:** CROSS CDOGG AT 11000.

(4) Fixes and/or Holding Patterns:

(5) Communications: CHART: PORTLAND APPROACH CONTROL: 119.75, 381.2; PORTLAND ATIS 119.05.

QUALITY CHECKED

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
CDOGG (RNAV)	ONE	CDOGG.CDOGG1	NONE		

(12) Airports Served			
Airport Name	PORTLAND INTL JETPORT	**City/State**	PORTLAND, ME
Airport Name		**City/State**	
Airport Name		**City/State**	
Airport Name		**City/State**	
Airport Name		**City/State**	
Airport Name		**City/State**	

(13) Lost Communications Procedure:

(14) Remarks: ENVIRONMENTAL IAW 1050.1E ON FILE.

(15) Additional Flight Data:
REFERENCE MAG VAR: KPWM 17W EPOCH YEAR: 95.
DME/DME ASSESSMENT: SAT (RNP 2.0)

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
CDOGG (RNAV)	ONE	CDOGG.CDOGG1	NONE		

(16) Continuation:

(17) Changes:
ORIGINAL

(18) Reasons for Changes:
EASTERN FPT REQUEST.

	Name *(Typed and Signed)*, Title and Organization		DATE
Developed By	JOHN T. HARRIS, PBN INTEGRATION GROUP, AJV-14		02/10/2012
Approved	**NFPO**	DARRYEL ADAMS, MANAGER, AJV-352	
	Reg. ATD		

QUALITY CHECKED

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
CDOGG (RNAV)	ONE	CDOGG.CDOGG1	NONE		

US Department of Transportation
Federal Aviation Administration

RNAV STAR (Data Record)

(1) FIX/NAVAID	(2) LAT/LONG	(3) C	(4) FO/FB	(5) LEG	(6) TC	(7) DIST	(8) ALTITUDE	(9) SPEED	(10) REMARKS
En Route Transition									
CAM VOR/DME	425939.44N / 0732038.47W	Y		IF					CAM.CDOGG1
CDOGG	432750.74N / 0710827.80W	Y	FB	TF	072.99	100.65	AT 11000		
En Route Transition									
EEN VORTAC	424739.40N / 0721730.40W	Y		IF					EEN.CDOGG1
CDOGG	432750.74N / 0710827.80W	Y	FB	TF	051.13	64.58	AT 11000		
Common Route									
CDOGG	432750.74N / 0710827.80W	Y		IF					CDOGG.CDOGG1
KAYCC	433222.10N / 0705137.61W	Y	FB	TF	069.65	13.06			
Runway Transition									
KAYCC	433222.10N / 0705137.61W	Y		IF					
IPKAH	433655.18N / 0703648.69W	Y	FB	TF	067.01	11.69			
BUXTO	433935.72N / 0703215.97W	Y	FB	TF	050.95	4.25	AT/ABOVE 2300		
RW11									

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
CDOGG (RNAV)	ONE	CDOGG.CDOGG1	NONE		

QUALITY CHECKED

FAA Form 7100-3 (9/02)

US Department of Transportation
Federal Aviation Administration

RNAV STAR (Data Record)

(1) FIX/NAVAID	(2) LAT/LONG	(3) C	(4) FO/FB	(5) LEG	(6) TC	(7) DIST	(8) ALTITUDE	(9) SPEED	(10) REMARKS
Runway Transition									
KAYCC	433222.10N / 0705137.61W	Y		IF					
YOMON	433004.86N / 0700727.63W	Y	FB	TF	093.82	32.22			
YAAKK	433304.91N / 0700314.94W	Y	FB	TF	045.58	4.29			
SAPPE	433737.41N / 0700307.20W	Y	FB	TF	001.18	4.54	AT/ABOVE 3000		
RW29									

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
CDOGG (RNAV)	ONE	CDOGG.CDOGG1	NONE		

FAA Form 7100-3 (9/02)

US Department of Transportation
Federal Aviation Administration

STAR (Data Record)

ARINC PACKET - 424-18 - STAR

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAD        CAM   K6011500VDLA N42593944W073203847    N42593944W073203847W0140014901     NARCAMBRIDGE
        SUSAD        EEN   K6010940VTL  N42473940W072173040    N42473940W072173040W0140013801     NARKEENE

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   BUXTO K60    C   L N43393572W070321597                    W0157     NAR          BUXTO
        SUSAEAENRT   CDOGG K60    W   B N43275074W071082780                    W0153     NAR          CDOGG
        SUSAEAENRT   IPKAH K60    W     N43365518W070364869                    W0156     NAR          IPKAH
        SUSAEAENRT   KAYCC K60    W     N43322210W070513761                    W0155     NAR          KAYCC
        SUSAEAENRT   SAPPE K60    C   L N43373741W070030720                    W0159     NAR          SAPPE
        SUSAEAENRT   YAAKK K60    W     N43330491W070031494                    W0158     NAR          YAAKK
        SUSAEAENRT   YOMON K60    W     N43300486W070072763                    W0158     NAR          YOMON

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KPWMK6APWM     0     072YHN43384620W070183340W017000076         1800018000C    MNAR    PORTLAND INTL JETPORT

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KPWMK6ECDOGG14CAM   010CAM  K6D 0V       IF                                                  18000
        SUSAP KPWMK6ECDOGG14CAM   020CDOGGK6EA0EE   010TF                    09001007      11000
        SUSAP KPWMK6ECDOGG14EEN   010EEN  K6D 0V       IF                                                  18000
        SUSAP KPWMK6ECDOGG14EEN   020CDOGGK6EA0EE   010TF                    06810646      11000
        SUSAP KPWMK6ECDOGG15      010CDOGGK6EA0E       IF                                 11000     18000
        SUSAP KPWMK6ECDOGG15      020KAYCCK6EA0EE   010TF                    08670131
        SUSAP KPWMK6ECDOGG16RW11  010KAYCCK6EA0E       IF                                             18000
        SUSAP KPWMK6ECDOGG16RW11  020IPKAHK6EA0E    010TF                    08400117
        SUSAP KPWMK6ECDOGG16RW11  030BUXTOK6EA0EE   010TF                    06800043    + 02300
        SUSAP KPWMK6ECDOGG16RW29  010KAYCCK6EA0E       IF                                             18000
        SUSAP KPWMK6ECDOGG16RW29  020YOMONK6EA0E    010TF                    11080322
        SUSAP KPWMK6ECDOGG16RW29  030YAAKKK6EA0E    010TF                    06260043
        SUSAP KPWMK6ECDOGG16RW29  040SAPPEK6EA0EE   010TF                    01820045    + 03000

                 1         2         3         4         5         6         7         8         9         0         1         2         3
```

QUALITY CHECKED

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
CDOGG (RNAV)	ONE	CDOGG.CDOGG1	NONE		

FAA Form 7100-3 (9/02)

US Department of Transportation
Federal Aviation Administration

STAR (Data Record)

```
RUNWAY  12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------
        SUSAP KPWMK6GRW11    0072001123 N43384510W070193386-0500     -0003200076000059150IIPWM3
        SUSAP KPWMK6GRW29    0072002923 N43383852W070175637+0500     -0013300042000050150IIGCS1
```

QUALITY 1 CHECKED

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
CDOGG (RNAV)	ONE	CDOGG.CDOGG1	NONE		

FAA Form 7100-3 (9/02)

US Department of Transportation
Federal Aviation Administration

STAR (Data Record)

ARINC SUMMARY - 424-18 - STAR

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	CAM	CAM	010		IF		FB					
	CAM	CDOGG	020		TF		FB	1.0	090.0()	100.7	AT 11000	
	EEN	EEN	010		IF		FB					
	EEN	CDOGG	020		TF		FB	1.0	068.1()	064.6	AT 11000	
		CDOGG	010		IF		FB				AT 11000	
		KAYCC	020		TF		FB	1.0	086.7()	013.1		
	RW11	KAYCC	010		IF		FB					
	RW11	IPKAH	020		TF		FB	1.0	084.0()	011.7		
	RW11	BUXTO	030		TF		FB	1.0	068.0()	004.3	AA 02300	
	RW29	KAYCC	010		IF		FB					
	RW29	YOMON	020		TF		FB	1.0	110.8()	032.2		
	RW29	YAAKK	030		TF		FB	1.0	062.6()	004.3		
	RW29	SAPPE	040		TF		FB	1.0	018.2()	004.5	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	CAM	N425939.44	W0732038.47	N4259.657	W07320.641
	EEN	N424739.40	W0721730.40	N4247.657	W07217.507
	BUXTO	N433935.72	W0703215.97	N4339.595	W07032.266
	CDOGG	N432750.74	W0710827.80	N4327.846	W07108.463
	IPKAH	N433655.18	W0703648.69	N4336.920	W07036.812
	KAYCC	N433222.10	W0705137.61	N4332.368	W07051.627
	SAPPE	N433737.41	W0700307.20	N4337.624	W07003.120
	YAAKK	N433304.91	W0700314.94	N4333.082	W07003.249
	YOMON	N433004.86	W0700727.63	N4330.081	W07007.461
	RW11	N433845.10	W0701933.86	N4338.752	W07019.564
	RW29	N433838.52	W0701756.37	N4338.642	W07017.940

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW11	00076	59
	RW29	00042	50

QUALITY 1 CHECKED

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
CDOGG (RNAV)	ONE	CDOGG.CDOGG1	NONE		

FAA Form 7100-3 (9/02)

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:** NO CHANGE

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
PRECIPITOUS TERRAIN EVALUATION 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)
STAR	CDOGG (RNAV)			KPWM	PORTLAND	ME (US)
STAR	SCOGS (RNAV)			KPWM	PORTLAND	ME (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
1. ADDED STAR TO REQUIRED CHARTING.
2. UPDATED FIX USE.

DEVELOPED BY: **DATE:** 02/06/2012 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

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

SIGNATURE:

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

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: CDOGG **STATE:** NH **COUNTRY:** US

LATITUDE/LONGITUDE: 432750.74N/0710827.80W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	CDOGG (RNAV)			KPWM	PORTLAND	ME (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 07/26/2012

DEVELOPED BY: **DATE:** 02/06/2012 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

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

SIGNATURE:

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

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: IPKAH **STATE:** ME **COUNTRY:** US

LATITUDE/LONGITUDE: 433655.18N/0703648.69W **TYPE:** WP

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

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 11			KPWM	PORTLAND	ME (US)
STAR	CDOGG (RNAV)			KPWM	PORTLAND	ME (US)
STAR	SCOGS (RNAV)			KPWM	PORTLAND	ME (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
1. ADDED STAR TO REQUIRED CHARTING.
2. UPDATED FIX USE.

DEVELOPED BY: **DATE:** 02/07/2012 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

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

SIGNATURE:

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

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: KAYCC **STATE:** ME **COUNTRY:** US

LATITUDE/LONGITUDE: 433222.10N/0705137.61W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	CDOGG (RNAV)			KPWM	PORTLAND	ME (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 07/26/2012

DEVELOPED BY: **DATE:** 02/06/2012 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

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

SIGNATURE:

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

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: KEENE VORTAC **STATE:** NH **COUNTRY:** US

LATITUDE/LONGITUDE: 424739.40N/0721730.40W **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	DIST FROM FAC FEET	MRA	MAA
1	KEENE	EEN	VORTAC	L							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	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	SW	EEN	VORTAC	203.80	023.80	L	1		2900	6000	4	5
2	N		WP	011.00	191.00	R		4	3000	6000	5	6
3	N	EEN	VORTAC	011.00	191.00	R	1		3000	6000	4	5

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	424721.00N/0721248.00W	1854	4E
2	200	AAO	424721.00N/0721224.00W	1989	4E
3	200	AAO	424721.00N/0721248.00W	1854	4E

REASON FOR NONSTANDARD HOLDING:
PAT 1 ATC REQUEST

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	BRADLEY			KBDL	WINDSOR LOCKS	CT (US)
DP	PORTLAND			KPWM	PORTLAND	ME (US)
DP	TAKEOFF MINIMUMS			KEEN	KEENE	NH (US)
DP	WHITE RIVER			KLEB	LEBANON	NH (US)
DP	MANCHESTER			KMHT	MANCHESTER	NH (US)
DP	BURLINGTON			KBTV	BURLINGTON	VT (US)
EN ROUTE	V151					(US)
EN ROUTE	V229					(US)
EN ROUTE	V431					(US)
EN ROUTE	V93					(US)
IAP	RNAV (GPS) RWY 14			KFIT	FITCHBURG	MA (US)
IAP	VOR OR GPS-A			K0B5	MONTAGUE	MA (US)
IAP	NDB RWY 1			KORE	ORANGE	MA (US)
IAP	NDB RWY 32			KORE	ORANGE	MA (US)
IAP	ILS OR LOC RWY 20			KBAF	WESTFIELD/SPRINGFIELD	MA (US)
IAP	VOR OR GPS-A			KAFN	JAFFREY	NH (US)
IAP	ILS OR LOC RWY 2		3	KEEN	KEENE	NH (US)
IAP	RNAV (GPS) RWY 2		2	KEEN	KEENE	NH (US)
IAP	VOR RWY 2		1	KEEN	KEENE	NH (US)
IAP	VOR/DME RWY 1			KRUT	RUTLAND	VT (US)
IAP	LOC/DME RWY 5			KVSF	SPRINGFIELD	VT (US)
IAP	RNAV (GPS) RWY 5			KVSF	SPRINGFIELD	VT (US)
STAR	CDOGG (RNAV)			KPWM	PORTLAND	ME (US)
STAR	POPPP			KMHT	MANCHESTER	NH (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 16 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
1. ADDED STAR TO REQUIRED CHARTING.
2. UPDATED FIX USE.

DEVELOPED BY: **DATE:** 02/06/2012 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

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

QUALITY CHECKED

SIGNATURE:

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

QUALITY CHECKED

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	DIST FROM FAC 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:** NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	E	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 KENNEBUNK (FAC 3) 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	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)
STAR	CDOGG (RNAV)			KPWM	PORTLAND	ME (US)
STAR	SCOGS (RNAV)			KPWM	PORTLAND	ME (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 9 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
1. ADDED STAR TO REQUIRED CHARTING.
2. UPDATED FIX USE.

DEVELOPED BY: **DATE:** 02/06/2012 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

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

SIGNATURE:

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

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: YAAKK **STATE:** ME **COUNTRY:** US

LATITUDE/LONGITUDE: 433304.91N/0700314.94W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	CDOGG (RNAV)			KPWM	PORTLAND	ME (US)
STAR	SCOGS (RNAV)			KPWM	PORTLAND	ME (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 07/26/2012

DEVELOPED BY: **DATE:** 02/06/2012 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

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

SIGNATURE:

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

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: YOMON **STATE:** ME **COUNTRY:** US

LATITUDE/LONGITUDE: 433004.86N/0700727.63W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	CDOGG (RNAV)			KPWM	PORTLAND	ME (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 07/26/2012

DEVELOPED BY: **DATE:** 02/06/2012 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

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

SIGNATURE:

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

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: CAMBRIDGE VOR/DME **STATE:** NY **COUNTRY:** US

INFO ONLY

LATITUDE/LONGITUDE: 425939.44N/0732038.47W **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	CAMBRIDGE	CAM	VOR/DME	L							17500

FIX RESTRICTIONS:
MCA V123 4500 NORTHBOUND

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

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	N	CAM	VOR/DME	016.00	196.00	R	1-1 1/2		4000	17500	4	16
2	E	CAM	VOR/DME	108.28	288.28	R	1-1 1/2		6000	17500	5	16
3	N	CAM	VOR/DME	340.19	160.19	R	1-1 1/2		3400	17500	4	16

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	430308.80N/0731340.80W	3309	6C
2	200	AAO	425830.00N/0730709.00W	3606	4E
3	200	AAO	430121.00N/0731633.00W	1962	4E
3	230	AAO	430308.80N/0731340.80W	3309	6C
3	310	AAO	430308.80N/0731340.80W	3309	6C

HOLDING RESTRICTIONS:
PATTERNS 1 AND 2 FOR ATC USE ONLY.
PATTERN 3 UTILIZES 175 KIAS RESTRICTION FOR CIH ON KDDH TAKEOFF MINIMUMS. 175 KIAS ICON NOT CHARTED ON ENROUTE LOW TO PREVENT CONFUSION WITH OTHER PROCEDURES.
HOLDING LIMITED TO ESTABLISHED PATTERNS

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
3	TAKE-OFF MINIMUMS	KDDH	BENNINGTON	VT (US)

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BANGOR			KBGR	BANGOR	ME (US)
DP	HSKEL (RNAV)			KPWM	PORTLAND	ME (US)
DP	PORTLAND			KPWM	PORTLAND	ME (US)
DP	WHITE RIVER			KLEB	LEBANON	NH (US)
DP	MANCHESTER			KMHT	MANCHESTER	NH (US)
DP	PEASE			KPSM	PORTSMOUTH	NH (US)
DP	TANKER			KPSM	PORTSMOUTH	NH (US)
DP	TAKE-OFF MINIMUMS		3	KDDH	BENNINGTON	VT (US)
DP	BURLINGTON			KBTV	BURLINGTON	VT (US)
EN ROUTE	J222					(US)
EN ROUTE	J547					(US)
EN ROUTE	V123		3			(US)
EN ROUTE	V447					(US)
EN ROUTE	V487					(US)
EN ROUTE	V490					(US)
EN ROUTE	V542					(US)
EN ROUTE	V72					(US)
IAP	LOC RWY 26			KPSF	PITTSFIELD	MA (US)
IAP	RNAV (GPS) RWY 26			KPSF	PITTSFIELD	MA (US)
IAP	ILS OR LOC RWY 1		3	KALB	ALBANY	NY (US)
IAP	ILS OR LOC RWY 19		3	KALB	ALBANY	NY (US)
IAP	ILS RWY 01 (SA CAT II)		3	KALB	ALBANY	NY (US)
IAP	RNAV (GPS) RWY 28			KALB	ALBANY	NY (US)
IAP	RNAV (GPS) Y RWY 19			KALB	ALBANY	NY (US)
IAP	ILS OR LOC RWY 1		3	KGFL	GLENS FALLS	NY (US)
IAP	RNAV (GPS) RWY 23			K5B2	SARATOGA SPRINGS	NY (US)
IAP	VOR/DME-A			K5B2	SARATOGA SPRINGS	NY (US)
IAP	RNAV (GPS) RWY 22			KSCH	SCHENECTADY	NY (US)
IAP	VOR RWY 13		3	KDDH	BENNINGTON	VT (US)
IAP	LOC Y RWY 19			KRUT	RUTLAND	VT (US)
IAP	LOC Z RWY 19			KRUT	RUTLAND	VT (US)
IAP	RNAV (GPS) RWY 1			KRUT	RUTLAND	VT (US)
IAP	VOR/DME RWY 1			KRUT	RUTLAND	VT (US)
IAP	VOR/DME RWY 19			KRUT	RUTLAND	VT (US)
IAP	NDB RWY 1			K4V8	WEST DOVER	VT (US)

QUALITY CHECKED

IAP	RNAV (GPS) RWY 1	K4V8	WEST DOVER	VT (US)
STAR	STELA	KHFD	HARTFORD	CT (US)
STAR	STELA	KBDL	WINDSOR LOCKS	CT (US)
STAR	STELA	KCEF	SPRINGFIELD/CHICOPEE	MA (US)
STAR	STELA	KBAF	WESTFIELD/SPRINGFIELD	MA (US)
STAR	STELA	KORH	WORCESTER	MA (US)
STAR	CDOGG (RNAV)	KPWM	PORTLAND	ME (US)
STAR	SCOGS (RNAV)	KPWM	PORTLAND	ME (US)
STAR	POPPP	KMHT	MANCHESTER	NH (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 15 **DATE OF REVISION:** 04/05/2012

REASON FOR REVISION:
1. CHANGED PAT 1 AND 3 (230K AND 310K) CONTROLLING OBSTRUCTION ACCURACY CODE FROM 4E/6A TO 6C.
2. DELETED REMARK, CHART PAT 3 ENROUTE LOW.
3. UPDATED FIX USE.

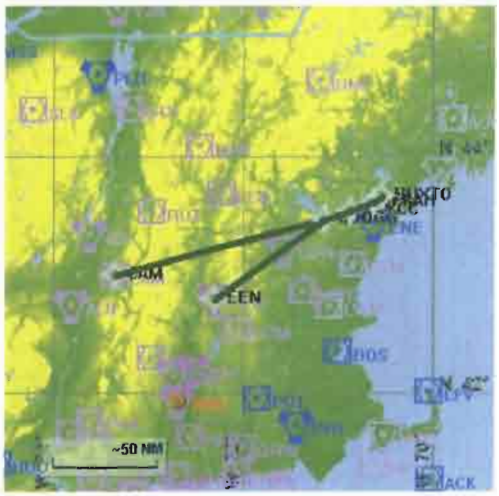
DEVELOPED BY: **DATE:** 08/23/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (DAVID SAUER)

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

SIGNATURE:

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

QUALITY CHECKED



Name:	Joe Bellabona
Project Name:	KPWM CDOGG1 STAR 20120316 RWY 11
Software:	RNAV-Pro™
Version:	2.35
Date/Time:	3/16/2012 10:25:09 PM
Input File:	CDOGG CAM RW11 20120 ..
Databases:	AVNIS Date: 08/26/2011
	NFD Date: 07/02/2009
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✓
DME/DME	✓
Radars	✓
Comms	?
TERPS	?

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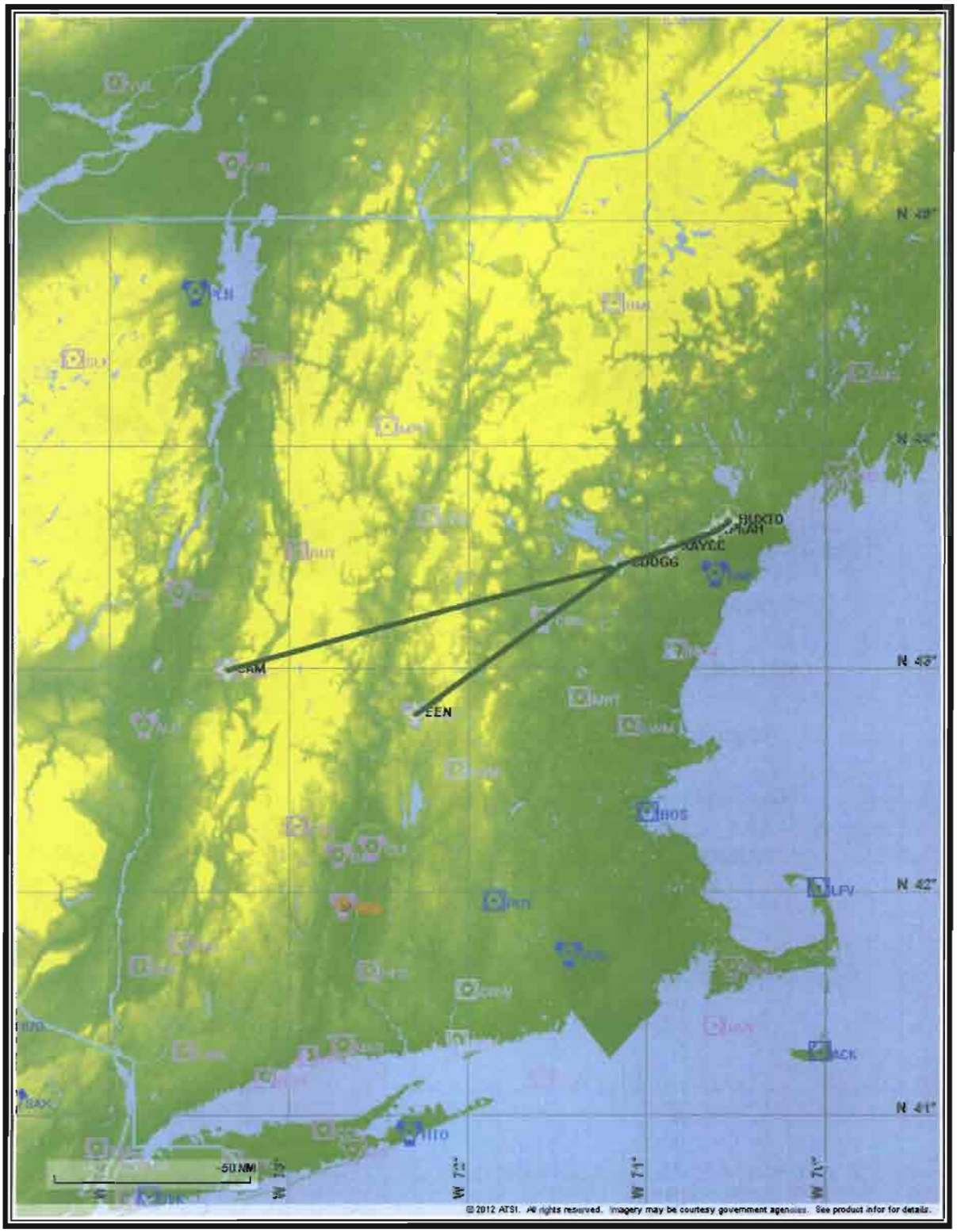
N 43°
N 42°
N 41°
W 72°
W 71°
W 70°
BUXTO
KAYCE
CDOGG
EEN
BOS
LFV
50 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
CAM	WP	N 42° 59' 39.44" W 73° 20' 38.47"	12000.0	Step	250.0	Fly By	TF
CDOGG	WP	N 43° 27' 50.74" W 71° 8' 27.80"	8000.0	Step	180.0	Fly By	TF
KAYCC	WP	N 43° 32' 22.10" W 70° 51' 37.61"	8000.0	Step	180.0	Fly By	TF
IPKAH	WP	N 43° 36' 55.18" W 70° 36' 48.69"	2800.0	Step	180.0	Fly By	TF
BUXTO	WP	N 43° 39' 35.72" W 70° 32' 15.97"	2300.0	Step	180.0	Fly Over	TF

Flyability

Return To Summary

Settings:

Flight Type: Arrival/Approach
Aircraft Category: Cat D
Climb Gradient: *None assigned*
Ground Speeds:

Table:

200.0 Kts up to **11000.0 Ft.**
240.0 Kts up to **18000.0 Ft.**
260.0 Kts up to **24000.0 Ft.**
340.0 Kts up to **99900.0 Ft.**

Wind Settings: *None assigned*
Descent During a Turn: Allowed
VNAV Mode: Flight Plan

Entire track is fly-able

DME/DME

Return To Summary

Settings:

RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.558 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: VOR/DME , VORTAC , TACAN , and User
DME Include Angles: 30 to 150
Critical DMEs: Allowed
DoD Facilities: Not included
Foreign Facilities: Not included
Low & Terminal DMEs: Included
Flight Check DMEs: Selected
Higher Altitudes: Evaluated
Near Maximum Altitude: Evaluated

Total Number of DMEs Used: 9

Maximum DME Error: 0.853 NM.

No Critical DMEs were found.

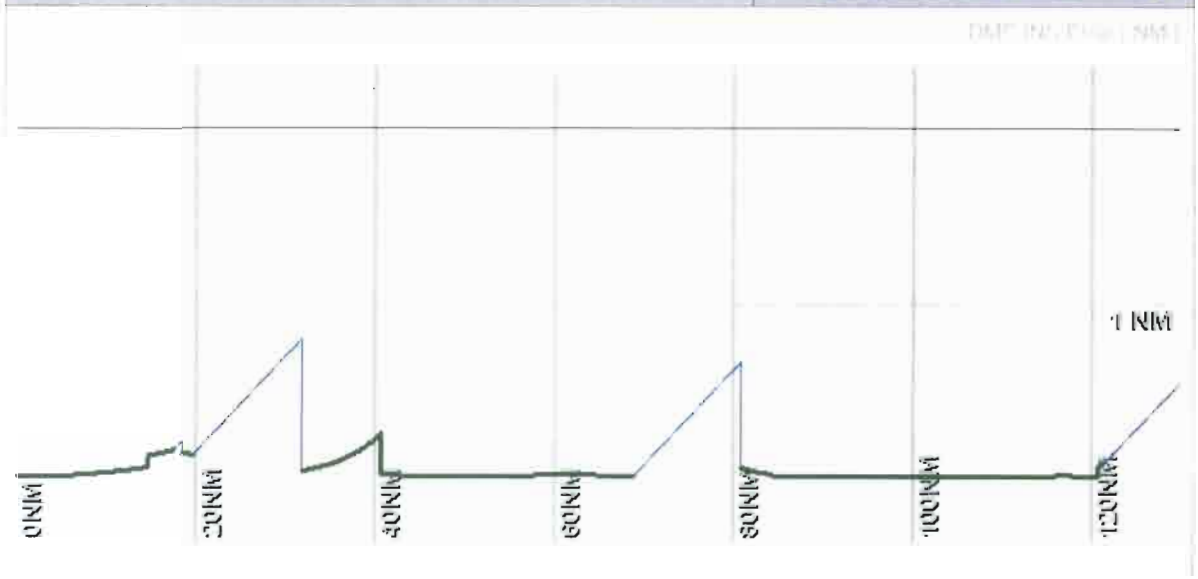
Available DMEs: ALB, GFL, CAM, EEN, LEB, CON, MHT, PSM, ENE, LWM

Disabled DMEs: BDL

Foreign DMEs within range: UTR, VLV, YCF, YJN, YOW, YQB, YSC, YUL, YXI, YQI, YFC, YSJ

DME/DME (Continued.)

Return To Summary



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	ALB	N 42° 44' 50.21" W 73° 48' 11.46"	L	Database	NO	0.853	Enabled	10.8 %	11.1 %
2	GFL	N 43° 20' 30.10" W 73° 36' 42.36"	L	Database	NO	1.069	Enabled	13.0 %	13.3 %
3	CAM	N 42° 59' 39.44" W 73° 20' 38.47"	L	Database	NO	1.008	Enabled	3.3 %	3.3 %
4	EEN	N 42° 47' 39.40" W 72° 17' 30.40"	L	Database	NO	1.244	Enabled	27.2 %	27.1 %
5	LEB	N 43° 40' 43.88" W 72° 12' 57.87"	L	Database	NO	1.206	Enabled	9.4 %	9.3 %
6	CON	N 43° 13' 11.23" W 71° 34' 31.63"	L + ESV	User	NO	1.182	Enabled	36.5 %	36.4 %
7	PSM	N 43° 5' 4.06" W 70° 49' 55.15"	L + ESV	User	NO	0.898	Enabled	11.9 %	11.8 %
8	MHT	N 42° 52' 6.70" W 71° 22' 10.31"	L + ESV	User	NO	0.853	Enabled	16.7 %	16.7 %
9	ENE	N 43° 25' 32.42" W 70° 36' 48.69"	H	Database	NO	0.853	Enabled	19.6 %	19.5 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	ALB	GFL	CAM	EEN		
24.1	MHT	LEB	CON	EEN		
68.8	MHT	LEB	CON	ENE	PSM	
100.4	MHT	LWM	CON	ENE	PSM	
113.6	MHT	LWM	CON	ENE	PSM	
124.9	ENE	PSM				

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 43° 4' 41.44" W 72° 58' 2.91"	N 43° 4' 56.81" W 72° 56' 53.22"	0.9
	VOR: CAM	Available from N 43° 4' 41.44" W 72° 58' 2.91" to N 43° 4' 56.81" W 72° 56' 53.22"	
	VOR: EEN	Available from N 43° 4' 41.44" W 72° 58' 2.91" to N 43° 4' 56.81" W 72° 56' 53.22"	
	VOR: GFL	Available from N 43° 4' 41.44" W 72° 58' 2.91" to N 43° 4' 56.81" W 72° 56' 53.22"	
	VOR: RUT	Available from N 43° 4' 41.44" W 72° 58' 2.91" to N 43° 4' 56.81" W 72° 56' 53.22"	

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments (Continued.)

#	Start Location	End Location	Length [NM]
2	N 43° 5' 21.76" W 72° 54' 59.96"	N 43° 8' 48.81" W 72° 39' 13.65"	12.1
	VOR: CAM	Available from N 43° 5' 21.76" W 72° 54' 59.96" to N 43° 8' 48.81" W 72° 39' 13.65"	
	VOR: EEN	Available from N 43° 5' 21.76" W 72° 54' 59.96" to N 43° 8' 48.81" W 72° 39' 13.65"	
	VOR: GFL	Available from N 43° 5' 21.76" W 72° 54' 59.96" to N 43° 7' 33.69" W 72° 44' 58.36"	
	VOR: RUT	Available from N 43° 5' 21.76" W 72° 54' 59.96" to N 43° 8' 48.81" W 72° 39' 13.65"	
	VOR: LEB	Available from N 43° 7' 46.07" W 72° 44' 1.65" to N 43° 8' 48.81" W 72° 39' 13.65"	
3	N 43° 19' 12.42" W 71° 50' 29.65"	N 43° 22' 27.78" W 71° 34' 49.40"	11.9
	VOR: CON	Available from N 43° 19' 12.42" W 71° 50' 29.65" to N 43° 22' 27.78" W 71° 34' 49.40"	
	VOR: EEN	Available from N 43° 19' 12.42" W 71° 50' 29.65" to N 43° 20' 11.07" W 71° 45' 48.63"	
	VOR: LEB	Available from N 43° 19' 12.42" W 71° 50' 29.65" to N 43° 22' 27.78" W 71° 34' 49.40"	
	VOR: MHT	Available from N 43° 19' 12.42" W 71° 50' 29.65" to N 43° 22' 27.78" W 71° 34' 49.40"	
	VOR: PSM	Available from N 43° 21' 25.94" W 71° 39' 48.35" to N 43° 22' 27.78" W 71° 34' 49.40"	
4	N 43° 35' 21.05" W 70° 41' 55.83"	N 43° 39' 35.63" W 70° 32' 16.11"	8.3
	VOR: ENE	Available from N 43° 35' 21.05" W 70° 41' 55.83" to N 43° 39' 35.63" W 70° 32' 16.11"	
	VOR: PSM	Available from N 43° 35' 21.05" W 70° 41' 55.83" to N 43° 39' 35.63" W 70° 32' 16.11"	

DME/DME (Continued.)

Return To Summary

User DMEs

#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	MHT	N 42° 52' 6.70" W 71° 22' 10.31"	L	470.5	114.40	MHT	Used
	ESV:	Bearing [True]: 15.0° to 55.0° Bearing [Mag]: 30.0° to 70.0°			Arc Distance: Out to 66.0 NM Altitude: 3500.0 to 12000.0 Ft.		
2	LFV	N 42° 1' 1.88" W 70° 2' 14.04"	H	150.8	114.70	LFV	Not Used
	ESV:	Bearing [True]: 330.0° to 1.0° Bearing [Mag]: 346.0° to 17.0°			Arc Distance: Out to 95.0 NM Altitude: 6000.0 to 18000.0 Ft.		
3	CON	N 43° 13' 11.23" W 71° 34' 31.63"	L	714.5	112.90	CON	Used
	Restriction:	Bearing [True]: 175.0° to 195.0° Bearing [Mag]: 190.0° to 210.0°			Distance: Beyond 12.0 NM Altitude: Below 4000.0 Ft.		
	Restriction:	Bearing [True]: 303.0° to 311.0° Bearing [Mag]: 318.0° to 326.0°			Distance: Beyond 30.0 NM Altitude: Below 12000.0 Ft.		
	ESV:	Bearing [True]: 39.0° to 90.0° Bearing [Mag]: 54.0° to 105.0°			Arc Distance: Out to 63.0 NM Altitude: 4000.0 to 17000.0 Ft.		
4	LWM	N 42° 44' 25.50" W 71° 5' 41.43"	L	302.2	112.50	LWM	Not Used
	ESV:	Bearing [True]: 21.0° to 42.0° Bearing [Mag]: 36.0° to 57.0°			Arc Distance: Out to 66.0 NM Altitude: 3500.0 to 19000.0 Ft.		
	ESV:	Bearing [True]: 5.0° to 26.0° Bearing [Mag]: 20.0° to 41.0°			Arc Distance: Out to 70.0 NM Altitude: 5000.0 to 19000.0 Ft.		
5	BOS	N 42° 21' 26.82" W 70° 59' 22.37"	H	20.0	112.70	BOS	Not Used
	Restriction:	Bearing [True]: 261.0° to 8.0° Bearing [Mag]: 277.0° to 24.0°			Distance: Beyond 35.0 NM Altitude: Below 2500.0 Ft.		
	ESV:	Bearing [True]: 12.0° to 17.0° Bearing [Mag]: 28.0° to 33.0°			Arc Distance: Out to 71.0 NM Altitude: 4800.0 to 19000.0 Ft.		
	ESV:	Bearing [True]: 20.0° to 28.0° Bearing [Mag]: 36.0° to 44.0°			Arc Distance: Out to 77.0 NM Altitude: 5300.0 to 19000.0 Ft.		

DME/DME (Continued.)

Return To Summary

User DMEs (Continued.)

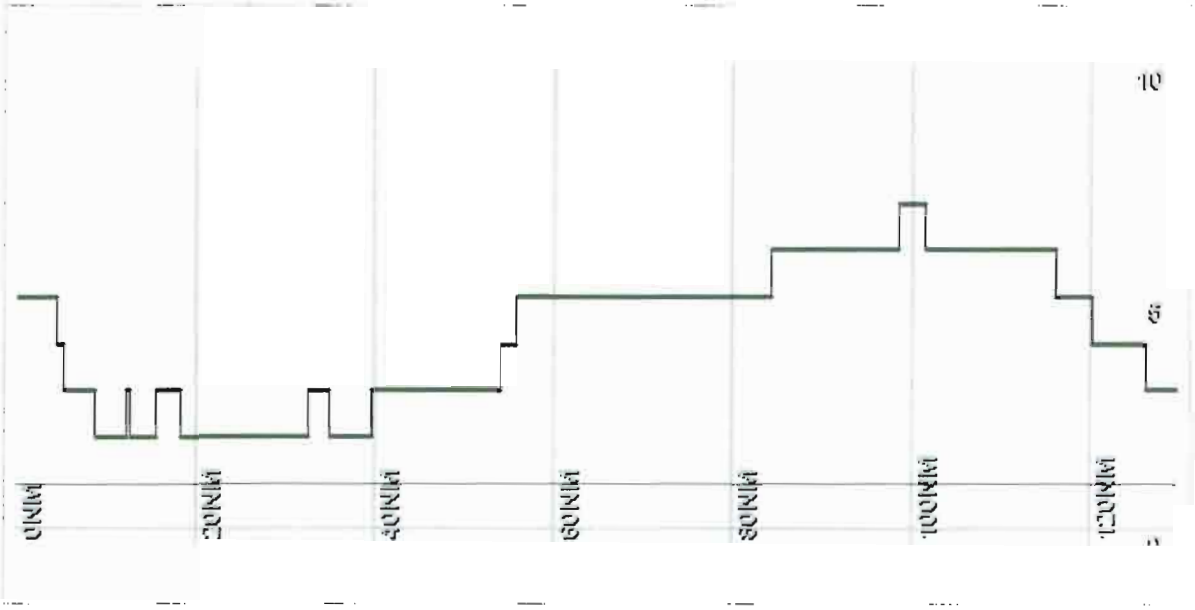
#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
6	PSM	N 43° 5' 4.06" W 70° 49' 55.15"	L	99.3	116.50	PSM	Used

Restriction:	Bearing [True]: 13.0° to 55.0° Bearing [Mag]: 29.0° to 71.0°	Distance: Beyond 35.0 NM Altitude: Below 2500.0 Ft.
Restriction:	Bearing [True]: 64.0° to 69.0° Bearing [Mag]: 80.0° to 85.0°	Distance: Beyond 35.0 NM Altitude: Below 2500.0 Ft.
Restriction:	Bearing [True]: 99.0° to 104.0° Bearing [Mag]: 115.0° to 120.0°	Distance: Beyond 37.0 NM Altitude: Below 2500.0 Ft.
Restriction:	Bearing [True]: 174.0° to 189.0° Bearing [Mag]: 190.0° to 205.0°	Distance: Beyond 35.0 NM Altitude: Below 2500.0 Ft.
Restriction:	Bearing [True]: 209.0° to 224.0° Bearing [Mag]: 225.0° to 240.0°	Distance: Beyond 35.0 NM Altitude: Below 2500.0 Ft.
ESV:	Bearing [True]: 20.0° to 53.0° Bearing [Mag]: 36.0° to 69.0°	Arc Distance: Out to 51.0 NM Altitude: 2700.0 to 12000.0 Ft.
ESV:	Bearing [True]: 340.0° to 25.0° Bearing [Mag]: 356.0° to 41.0°	Arc Distance: Out to 46.0 NM Altitude: 4000.0 to 19000.0 Ft.

Radar Analysis

Return To Summary

Settings: **Radar Types:** ARSR and ASR



Name:	JOE BELLABONA
Project Name:	KPWM CDOGG1 STAR 2012316 RWY29
Software:	RNAV-Pro™
Version:	2.35
Date/Time:	3/16/2012 5:52:15 PM
Input File:	CDOGG CAM RW29 20120...
Databases:	AVNIS Date: 08/26/2011
	NFD Date: 07/02/2009
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✓
DME/DME	✓
Radars	✓
Comms	?
TERPS	?

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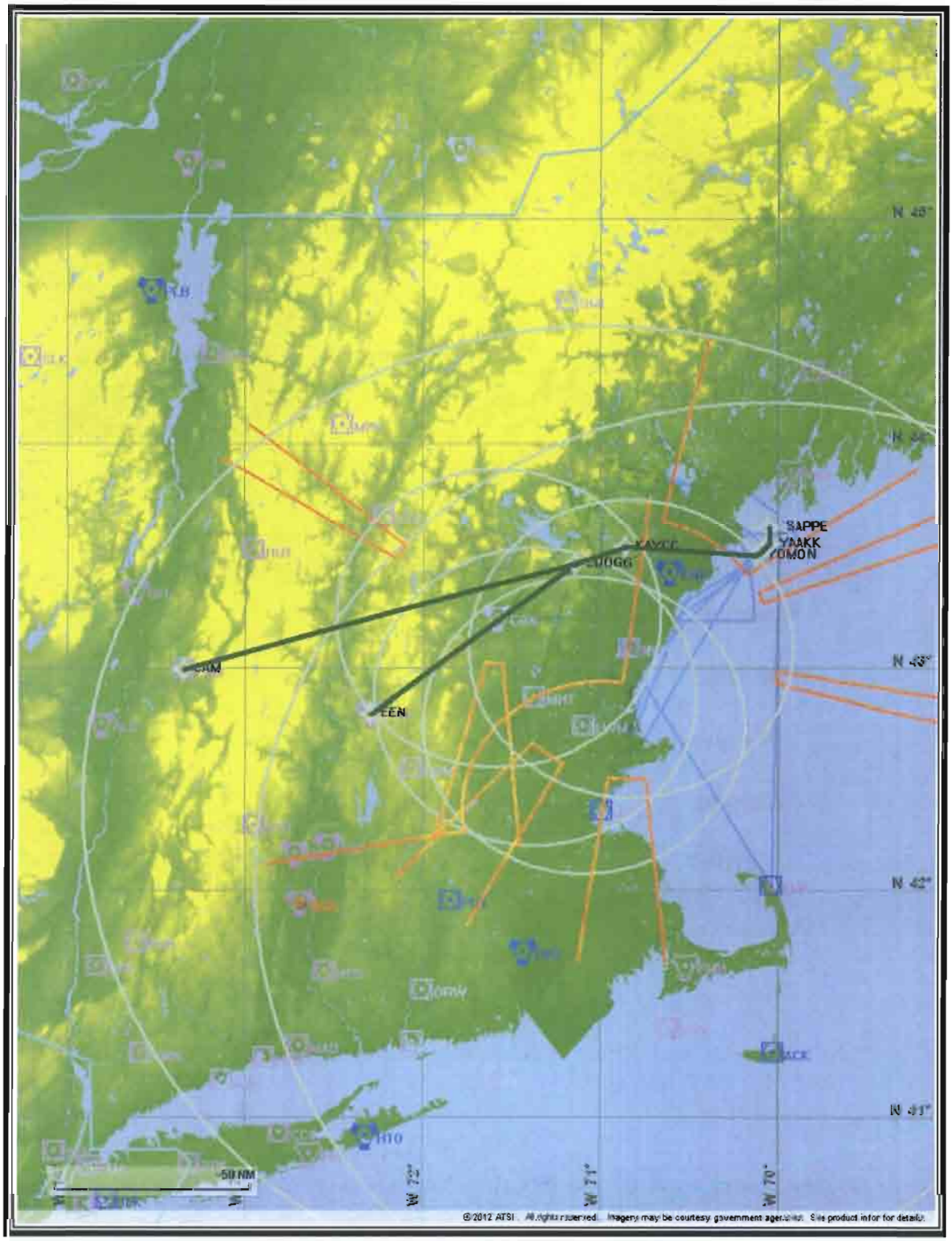
SAPPE
YAAKK
YOMON
KAYCE
CDOGG
EEN
N 45°
N 43°
N 42°
N 41°
W 72°
W 71°
W 70°
50 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
CAM	WP	N 42° 59' 39.44" W 73° 20' 38.47"	12000.0	Step	250.0	Fly By	TF
CDOGG	WP	N 43° 27' 50.74" W 71° 8' 27.80"	8000.0	Step	180.0	Fly By	TF
KAYCC	WP	N 43° 32' 22.10" W 70° 51' 37.61"	8000.0	Step	180.0	Fly By	TF
YOMON	WP	N 43° 30' 4.86" W 70° 7' 27.63"	4000.0	Step	180.0	Fly By	TF
YAAKK	WP	N 43° 33' 4.91" W 70° 3' 14.94"	3000.0	Step	180.0	Fly By	TF
_SAPPE	WP	N 43° 37' 37.41" W 70° 3' 7.20"	3000.0	Step	180.0	Fly Over	TF

Flyability

Return To Summary

Settings:

Flight Type: Arrival/Approach
Aircraft Category: Cat D
Climb Gradient: *None assigned*
Ground Speeds:

Table:

200.0 Kts up to **11000.0 Ft.**
240.0 Kts up to **18000.0 Ft.**
260.0 Kts up to **24000.0 Ft.**
340.0 Kts up to **99900.0 Ft.**

Wind Settings: *None assigned*
Descent During a Turn: Allowed
VNAV Mode: Flight Plan

Entire track is fly-able

DME/DME

Return To Summary

Settings:

RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.558 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: VOR/DME , VORTAC , TACAN , and User
DME Include Angles: 30 to 150
Critical DMEs: Allowed
DoD Facilities: Not included
Foreign Facilities: Not included
Low & Terminal DMEs: Included
Flight Check DMEs: Selected
Higher Altitudes: Evaluated
Near Maximum Altitude: Evaluated

Total Number of DMEs Used: 9

Maximum DME Error: 1.456 NM.

No Critical DMEs were found.

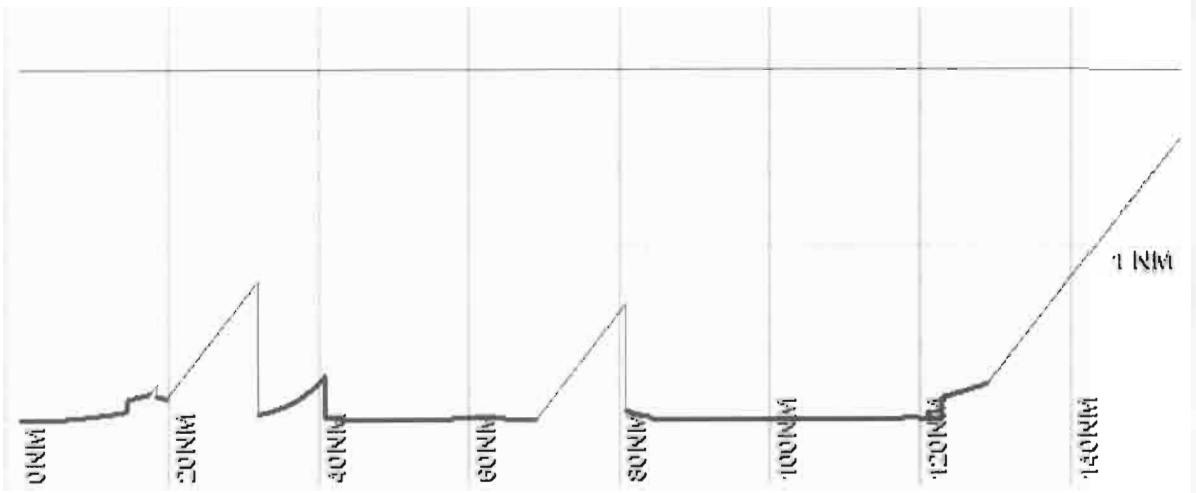
Available DMEs: ALB, GFL, CAM, EEN, LEB, CON, MHT, PSM, ENE, LWM

Disabled DMEs: BDL

Foreign DMEs within range: UTR, VLV, YCF, YJN, YOW, YQB, YSC, YUL, YXI, YQI, YFC, YSJ

DME/DME (Continued.)

Return To Summary



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	ALB	N 42° 44' 50.21" W 73° 48' 11.46"	L	Database	NO	1.456	Enabled	9.0 %	9.3 %
2	GFL	N 43° 20' 30.10" W 73° 36' 42.36"	L	Database	NO	1.456	Enabled	10.9 %	11.2 %
3	CAM	N 42° 59' 39.44" W 73° 20' 38.47"	L	Database	NO	1.456	Enabled	2.8 %	2.8 %
4	EEN	N 42° 47' 39.40" W 72° 17' 30.40"	L	Database	NO	1.456	Enabled	22.8 %	22.7 %
5	LEB	N 43° 40' 43.88" W 72° 12' 57.87"	L	Database	NO	1.456	Enabled	7.9 %	7.8 %
6	CON	N 43° 13' 11.23" W 71° 34' 31.63"	L + ESV	User	NO	1.617	Enabled	34.4 %	34.3 %
7	PSM	N 43° 5' 4.06" W 70° 49' 55.15"	L + ESV	User	NO	1.462	Enabled	13.7 %	13.7 %
8	MHT	N 42° 52' 6.70" W 71° 22' 10.31"	L + ESV	User	NO	1.456	Enabled	15.0 %	14.9 %
9	ENE	N 43° 25' 32.42" W 70° 36' 48.69"	H	Database	NO	1.456	Enabled	17.3 %	17.3 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	ALB	GFL	CAM	EEN		
24.1	MHT	LEB	CON	EEN		
68.8	MHT	LEB	CON	ENE	PSM	
100.4	MHT	LWM	CON	ENE	PSM	
113.1	MHT	LWM	CON	ENE	PSM	
145.1	ENE	PSM				
149.4	ENE	PSM				

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 43° 4' 41.44" W 72° 58' 2.91"	N 43° 4' 56.81" W 72° 56' 53.22"	0.9

VOR: CAM	Available from N 43° 4' 41.44" W 72° 58' 2.91" to N 43° 4' 56.81" W 72° 56' 53.22"
VOR: EEN	Available from N 43° 4' 41.44" W 72° 58' 2.91" to N 43° 4' 56.81" W 72° 56' 53.22"
VOR: GFL	Available from N 43° 4' 41.44" W 72° 58' 2.91" to N 43° 4' 56.81" W 72° 56' 53.22"
VOR: RUT	Available from N 43° 4' 41.44" W 72° 58' 2.91" to N 43° 4' 56.81" W 72° 56' 53.22"

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments (Continued.)

#	Start Location	End Location	Length [NM]
2	N 43° 5' 21.76" W 72° 54' 59.96"	N 43° 8' 48.81" W 72° 39' 13.65"	12.1
	VOR: CAM	Available from N 43° 5' 21.76" W 72° 54' 59.96" to N 43° 8' 48.81" W 72° 39' 13.65"	
	VOR: EEN	Available from N 43° 5' 21.76" W 72° 54' 59.96" to N 43° 8' 48.81" W 72° 39' 13.65"	
	VOR: GFL	Available from N 43° 5' 21.76" W 72° 54' 59.96" to N 43° 7' 33.69" W 72° 44' 58.36"	
	VOR: RUT	Available from N 43° 5' 21.76" W 72° 54' 59.96" to N 43° 8' 48.81" W 72° 39' 13.65"	
	VOR: LEB	Available from N 43° 7' 46.07" W 72° 44' 1.65" to N 43° 8' 48.81" W 72° 39' 13.65"	
3	N 43° 19' 12.42" W 71° 50' 29.65"	N 43° 22' 27.78" W 71° 34' 49.40"	11.9
	VOR: CON	Available from N 43° 19' 12.42" W 71° 50' 29.65" to N 43° 22' 27.78" W 71° 34' 49.40"	
	VOR: EEN	Available from N 43° 19' 12.42" W 71° 50' 29.65" to N 43° 20' 11.07" W 71° 45' 48.63"	
	VOR: LEB	Available from N 43° 19' 12.42" W 71° 50' 29.65" to N 43° 22' 27.78" W 71° 34' 49.40"	
	VOR: MHT	Available from N 43° 19' 12.42" W 71° 50' 29.65" to N 43° 22' 27.78" W 71° 34' 49.40"	
	VOR: PSM	Available from N 43° 21' 25.94" W 71° 39' 48.35" to N 43° 22' 27.78" W 71° 34' 49.40"	
4	N 43° 31' 27.25" W 70° 33' 15.71"	N 43° 31' 26.54" W 70° 33' 2.00"	0.2
	VOR: ENE	Available from N 43° 31' 27.25" W 70° 33' 15.71" to N 43° 31' 26.54" W 70° 33' 2.00"	
	VOR: PSM	Available from N 43° 31' 27.25" W 70° 33' 15.71" to N 43° 31' 26.54" W 70° 33' 2.00"	
5	N 43° 31' 19.72" W 70° 30' 49.47"	N 43° 37' 36.27" W 70° 3' 7.21"	25.7
	VOR: ENE	Available from N 43° 31' 19.72" W 70° 30' 49.47" to N 43° 37' 36.27" W 70° 3' 7.21"	
	VOR: PSM	Available from N 43° 31' 19.72" W 70° 30' 49.47" to N 43° 30' 14.99" W 70° 7' 23.64"	

DME/DME (Continued.)

Return To Summary

User DMEs

#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	MHT	N 42° 52' 6.70" W 71° 22' 10.31"	L	470.5	114.40	MHT	Used
		ESV: Bearing [True]: 15.0° to 55.0° Bearing [Mag]: 30.0° to 70.0°			Arc Distance: Out to 66.0 NM Altitude: 3500.0 to 12000.0 Ft.		
2	LFV	N 42° 1' 1.88" W 70° 2' 14.04"	H	150.8	114.70	LFV	Not Used
		ESV: Bearing [True]: 330.0° to 1.0° Bearing [Mag]: 346.0° to 17.0°			Arc Distance: Out to 95.0 NM Altitude: 6000.0 to 18000.0 Ft.		
3	CON	N 43° 13' 11.23" W 71° 34' 31.63"	L	714.5	112.90	CON	Used
		Restriction: Bearing [True]: 175.0° to 195.0° Bearing [Mag]: 190.0° to 210.0°			Distance: Beyond 12.0 NM Altitude: Below 4000.0 Ft.		
		Restriction: Bearing [True]: 303.0° to 311.0° Bearing [Mag]: 318.0° to 326.0°			Distance: Beyond 30.0 NM Altitude: Below 12000.0 Ft.		
		ESV: Bearing [True]: 39.0° to 90.0° Bearing [Mag]: 54.0° to 105.0°			Arc Distance: Out to 63.0 NM Altitude: 4000.0 to 17000.0 Ft.		
4	LWM	N 42° 44' 25.50" W 71° 5' 41.43"	L	302.2	112.50	LWM	Not Used
		ESV: Bearing [True]: 21.0° to 42.0° Bearing [Mag]: 36.0° to 57.0°			Arc Distance: Out to 66.0 NM Altitude: 3500.0 to 19000.0 Ft.		
		ESV: Bearing [True]: 5.0° to 26.0° Bearing [Mag]: 20.0° to 41.0°			Arc Distance: Out to 70.0 NM Altitude: 5000.0 to 19000.0 Ft.		
5	BOS	N 42° 21' 26.82" W 70° 59' 22.37"	H	20.0	112.70	BOS	Not Used
		Restriction: Bearing [True]: 261.0° to 8.0° Bearing [Mag]: 277.0° to 24.0°			Distance: Beyond 35.0 NM Altitude: Below 2500.0 Ft.		
		ESV: Bearing [True]: 12.0° to 17.0° Bearing [Mag]: 28.0° to 33.0°			Arc Distance: Out to 71.0 NM Altitude: 4800.0 to 19000.0 Ft.		
		ESV: Bearing [True]: 20.0° to 28.0° Bearing [Mag]: 36.0° to 44.0°			Arc Distance: Out to 77.0 NM Altitude: 5300.0 to 19000.0 Ft.		

DME/DME (Continued.)

Return To Summary

User DMEs (Continued.)

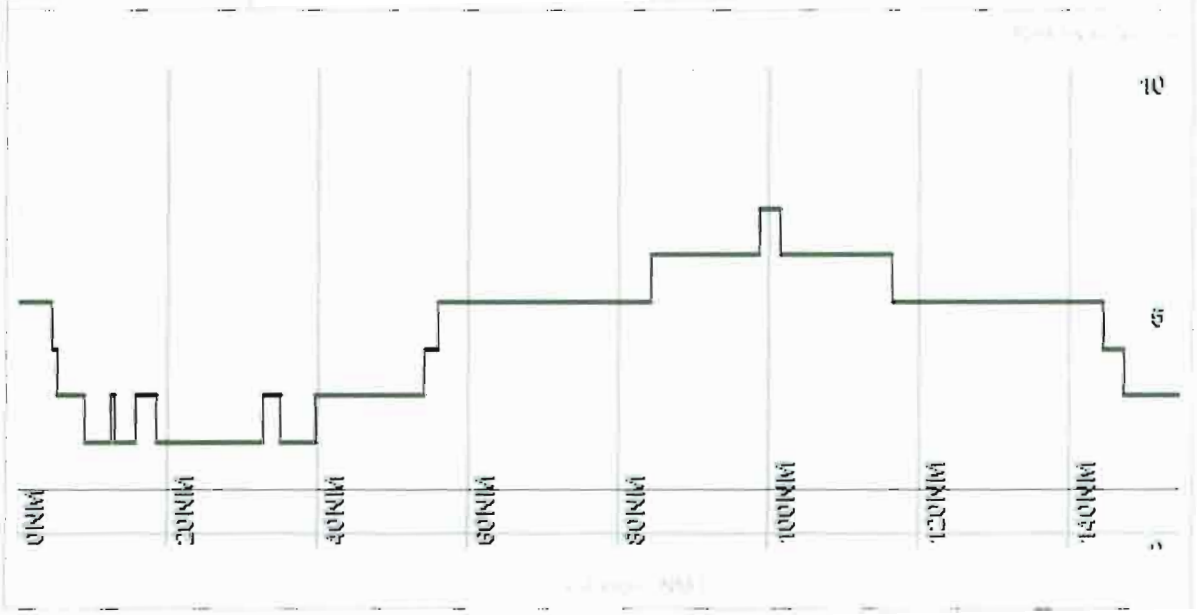
#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
6	PSM	N 43° 5' 4.06" W 70° 49' 55.15"	L	99.3	116.50	PSM	Used

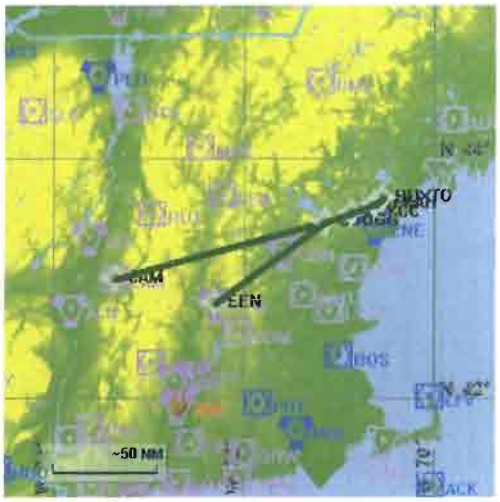
Restriction:	Bearing [True]: 13.0° to 55.0° Bearing [Mag]: 29.0° to 71.0°	Distance: Beyond 35.0 NM Altitude: Below 2500.0 Ft.
Restriction:	Bearing [True]: 64.0° to 69.0° Bearing [Mag]: 80.0° to 85.0°	Distance: Beyond 35.0 NM Altitude: Below 2500.0 Ft.
Restriction:	Bearing [True]: 99.0° to 104.0° Bearing [Mag]: 115.0° to 120.0°	Distance: Beyond 37.0 NM Altitude: Below 2500.0 Ft.
Restriction:	Bearing [True]: 174.0° to 189.0° Bearing [Mag]: 190.0° to 205.0°	Distance: Beyond 35.0 NM Altitude: Below 2500.0 Ft.
Restriction:	Bearing [True]: 209.0° to 224.0° Bearing [Mag]: 225.0° to 240.0°	Distance: Beyond 35.0 NM Altitude: Below 2500.0 Ft.
ESV:	Bearing [True]: 20.0° to 53.0° Bearing [Mag]: 36.0° to 69.0°	Arc Distance: Out to 51.0 NM Altitude: 2700.0 to 12000.0 Ft.
ESV:	Bearing [True]: 340.0° to 25.0° Bearing [Mag]: 356.0° to 41.0°	Arc Distance: Out to 46.0 NM Altitude: 4000.0 to 19000.0 Ft.

Radar Analysis

Return To Summary

Settings: **Radar Types:** ARSR and ASR





Name:	Joe Bellabona
Project Name:	KPWM CDOGG1 STAR 20120316 RWY 11
Software:	RNAV-Pro™
Version:	2.35
Date/Time:	3/16/2012 10:25:39 PM
Input File:	CDOGG EEN RW11 20120.
Databases:	AVNIS Date: 08/26/2011
	NFD Date: 07/02/2009
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✓
DME/DME	✓
Radars	✓
Comms	?
TERPS	?

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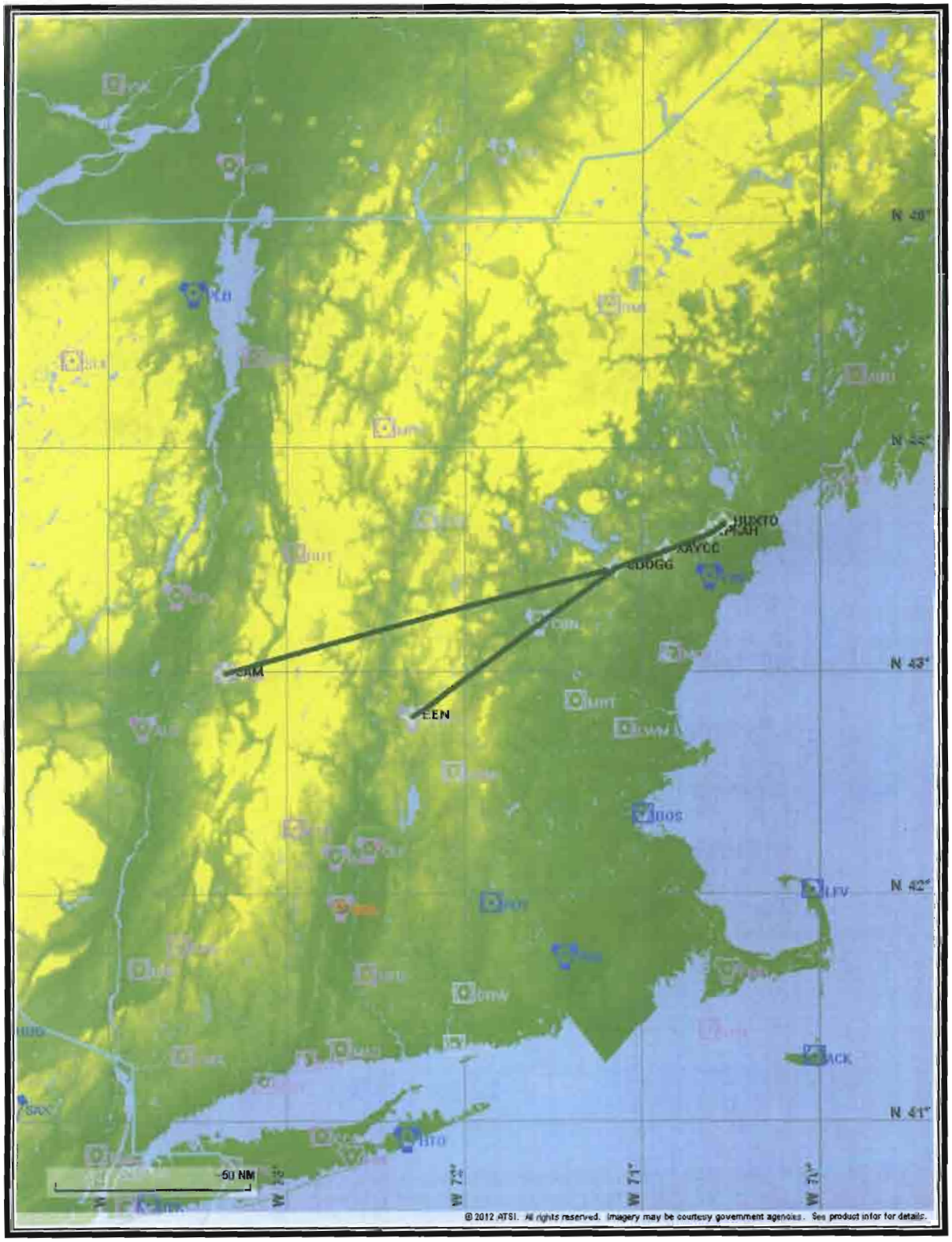
N 43°
N 42°
N 41°
W 72°
W 71°
W 71°
CDOGG
50 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
EEN	WP	N 42° 47' 39.40" W 72° 17' 30.40"	16000.0	Step	250.0	Fly By	TF
CDOGG	WP	N 43° 27' 50.74" W 71° 8' 27.80"	8000.0	Step	180.0	Fly By	TF
KAYCC	WP	N 43° 32' 22.10" W 70° 51' 37.61"	8000.0	Step	180.0	Fly By	TF
IPKAH	WP	N 43° 36' 55.18" W 70° 36' 48.69"	2800.0	Step	180.0	Fly By	TF
BUXTO	WP	N 43° 39' 35.72" W 70° 32' 15.97"	2300.0	Step	180.0	Fly Over	TF

Flyability

Return To Summary

Settings:

Flight Type: Arrival/Approach
Aircraft Category: Cat D
Climb Gradient: *None assigned*
Ground Speeds:

Table:

200.0 Kts up to **11000.0 Ft.**
240.0 Kts up to **18000.0 Ft.**
260.0 Kts up to **24000.0 Ft.**
340.0 Kts up to **99900.0 Ft.**

Wind Settings: *None assigned*
Descent During a Turn: Allowed
VNAV Mode: Flight Plan

Entire track is fly-able

DME/DME

Return To Summary

Settings:

RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.558 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: VOR/DME , VORTAC , TACAN , and User
DME Include Angles: 30 to 150
Critical DMEs: Allowed
DoD Facilities: Not included
Foreign Facilities: Not included
Low & Terminal DMEs: Included
Flight Check DMEs: Selected
Higher Altitudes: Evaluated
Near Maximum Altitude: Evaluated

Total Number of DMEs Used: 8

Maximum DME Error: 0.671 NM.

No Critical DMEs were found.

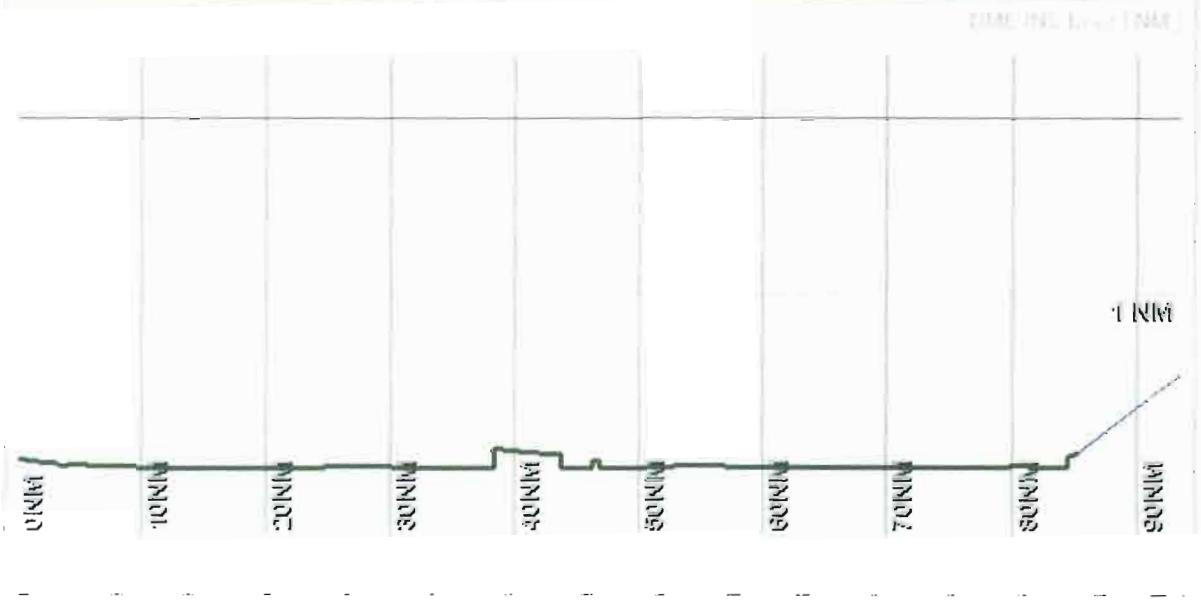
Available DMEs: BOS, ENE, GDM, PUT, PVD, CON, MHT, EEN, LWM, PSM

Disabled DMEs: BDL

Foreign DMEs within range: UTR, VLV, YJN, YOW, YQB, YSC, YUL, YQI, YFC, YSJ

DME/DME (Continued.)

Return To Summary



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	ENE	N 43° 25' 32.42" W 70° 36' 48.69"	H	Database	NO	0.727	Enabled	32.8 %	32.7 %
2	PVD	N 41° 43' 27.64" W 71° 25' 46.67"	H	Database	NO	0.671	Enabled	1.7 %	1.9 %
3	GDM	N 42° 32' 45.42" W 72° 3' 29.48"	L	Database	NO	0.671	Enabled	27.1 %	28.2 %
4	CON	N 43° 13' 11.23" W 71° 34' 31.63"	L + ESV	User	NO	0.671	Enabled	29.2 %	29.0 %
5	MHT	N 42° 52' 6.70" W 71° 22' 10.31"	L + ESV	User	NO	0.851	Enabled	65.4 %	65.3 %
6	EEN	N 42° 47' 39.40" W 72° 17' 30.40"	L	Database	NO	0.671	Enabled	2.5 %	2.4 %
7	LWM	N 42° 44' 25.50" W 71° 5' 41.43"	L + ESV	User	NO	0.671	Enabled	5.6 %	5.5 %
8	PSM	N 43° 5' 4.06" W 70° 49' 55.15"	L + ESV	User	NO	0.671	Enabled	17.6 %	17.3 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	CON	GDM	MHT	PVD	ENE	BOS
10.1	CON	GDM	MHT	EEN		
32.6	CON	LWM	MHT	EEN	PSM	
46.1	CON	ENE	MHT	PSM		
64.1	CON	ENE	MHT	PSM	LWM	
77.5	CON	ENE	MHT	PSM	LWM	
88.9	PSM	ENE				

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 43° 35' 20.36" W 70° 41' 58.06"	N 43° 39' 34.52" W 70° 32' 17.99"	8.3

VOR: ENE	Available from N 43° 35' 20.36" W 70° 41' 58.06" to N 43° 39' 34.52" W 70° 32' 17.99"
VOR: PSM	Available from N 43° 35' 20.36" W 70° 41' 58.06" to N 43° 39' 34.52" W 70° 32' 17.99"

DME/DME (Continued.)

Return To Summary

User DMEs

#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	MHT	N 42° 52' 6.70" W 71° 22' 10.31"	L	470.5	114.40	MHT	Used
		ESV: Bearing [True]: 15.0° to 55.0° Bearing [Mag]: 30.0° to 70.0°			Arc Distance: Out to 66.0 NM Altitude: 3500.0 to 12000.0 Ft.		
2	LFV	N 42° 1' 1.88" W 70° 2' 14.04"	H	150.8	114.70	LFV	Not Used
		ESV: Bearing [True]: 330.0° to 1.0° Bearing [Mag]: 346.0° to 17.0°			Arc Distance: Out to 95.0 NM Altitude: 6000.0 to 18000.0 Ft.		
3	CON	N 43° 13' 11.23" W 71° 34' 31.63"	L	714.5	112.90	CON	Used
		Restriction: Bearing [True]: 175.0° to 195.0° Bearing [Mag]: 190.0° to 210.0°			Distance: Beyond 12.0 NM Altitude: Below 4000.0 Ft.		
		Restriction: Bearing [True]: 303.0° to 311.0° Bearing [Mag]: 318.0° to 326.0°			Distance: Beyond 30.0 NM Altitude: Below 12000.0 Ft.		
		ESV: Bearing [True]: 39.0° to 90.0° Bearing [Mag]: 54.0° to 105.0°			Arc Distance: Out to 63.0 NM Altitude: 4000.0 to 17000.0 Ft.		
4	LWM	N 42° 44' 25.50" W 71° 5' 41.43"	L	302.2	112.50	LWM	Used
		ESV: Bearing [True]: 21.0° to 42.0° Bearing [Mag]: 36.0° to 57.0°			Arc Distance: Out to 66.0 NM Altitude: 3500.0 to 19000.0 Ft.		
		ESV: Bearing [True]: 5.0° to 26.0° Bearing [Mag]: 20.0° to 41.0°			Arc Distance: Out to 70.0 NM Altitude: 5000.0 to 19000.0 Ft.		
5	BOS	N 42° 21' 26.82" W 70° 59' 22.37"	H	20.0	112.70	BOS	Not Used
		Restriction: Bearing [True]: 261.0° to 8.0° Bearing [Mag]: 277.0° to 24.0°			Distance: Beyond 35.0 NM Altitude: Below 2500.0 Ft.		
		ESV: Bearing [True]: 12.0° to 17.0° Bearing [Mag]: 28.0° to 33.0°			Arc Distance: Out to 71.0 NM Altitude: 4800.0 to 19000.0 Ft.		
		ESV: Bearing [True]: 20.0° to 28.0° Bearing [Mag]: 36.0° to 44.0°			Arc Distance: Out to 77.0 NM Altitude: 5300.0 to 19000.0 Ft.		

DME/DME (Continued.)

Return To Summary

User DMEs (Continued.)

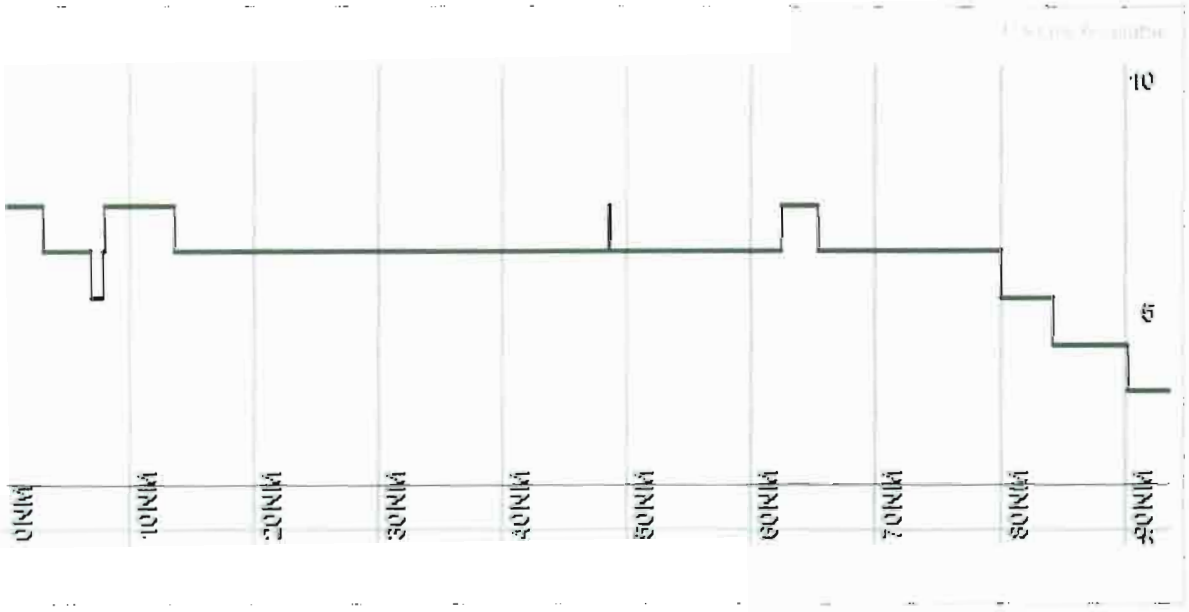
#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
6	PSM	N 43° 5' 4.06" W 70° 49' 55.15"	L	99.3	116.50	PSM	Used

Restriction:	Bearing [True]: 13.0° to 55.0° Bearing [Mag]: 29.0° to 71.0°	Distance: Beyond 35.0 NM Altitude: Below 2500.0 Ft.
Restriction:	Bearing [True]: 64.0° to 69.0° Bearing [Mag]: 80.0° to 85.0°	Distance: Beyond 35.0 NM Altitude: Below 2500.0 Ft.
Restriction:	Bearing [True]: 99.0° to 104.0° Bearing [Mag]: 115.0° to 120.0°	Distance: Beyond 37.0 NM Altitude: Below 2500.0 Ft.
Restriction:	Bearing [True]: 174.0° to 189.0° Bearing [Mag]: 190.0° to 205.0°	Distance: Beyond 35.0 NM Altitude: Below 2500.0 Ft.
Restriction:	Bearing [True]: 209.0° to 224.0° Bearing [Mag]: 225.0° to 240.0°	Distance: Beyond 35.0 NM Altitude: Below 2500.0 Ft.
ESV:	Bearing [True]: 20.0° to 53.0° Bearing [Mag]: 36.0° to 69.0°	Arc Distance: Out to 51.0 NM Altitude: 2700.0 to 12000.0 Ft.
ESV:	Bearing [True]: 340.0° to 25.0° Bearing [Mag]: 356.0° to 41.0°	Arc Distance: Out to 46.0 NM Altitude: 4000.0 to 19000.0 Ft.

Radar Analysis

Return To Summary

Settings: **Radar Types:** ARSR and ASR



Name:	JOE BELLABONA
Project Name:	KPWM CDOGG1 STAR 2012316 RWY29
Software:	RNAV-Pro™
Version:	2.35
Date/Time:	3/16/2012 5:51:41 PM
Input File:	CDOGG EEN RW29 20120...
Databases:	AVNIS Date: 08/26/2011
	NFD Date: 07/02/2009
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✓
DME/DME	✓
Radars	✓
Comms	
TERPS	?

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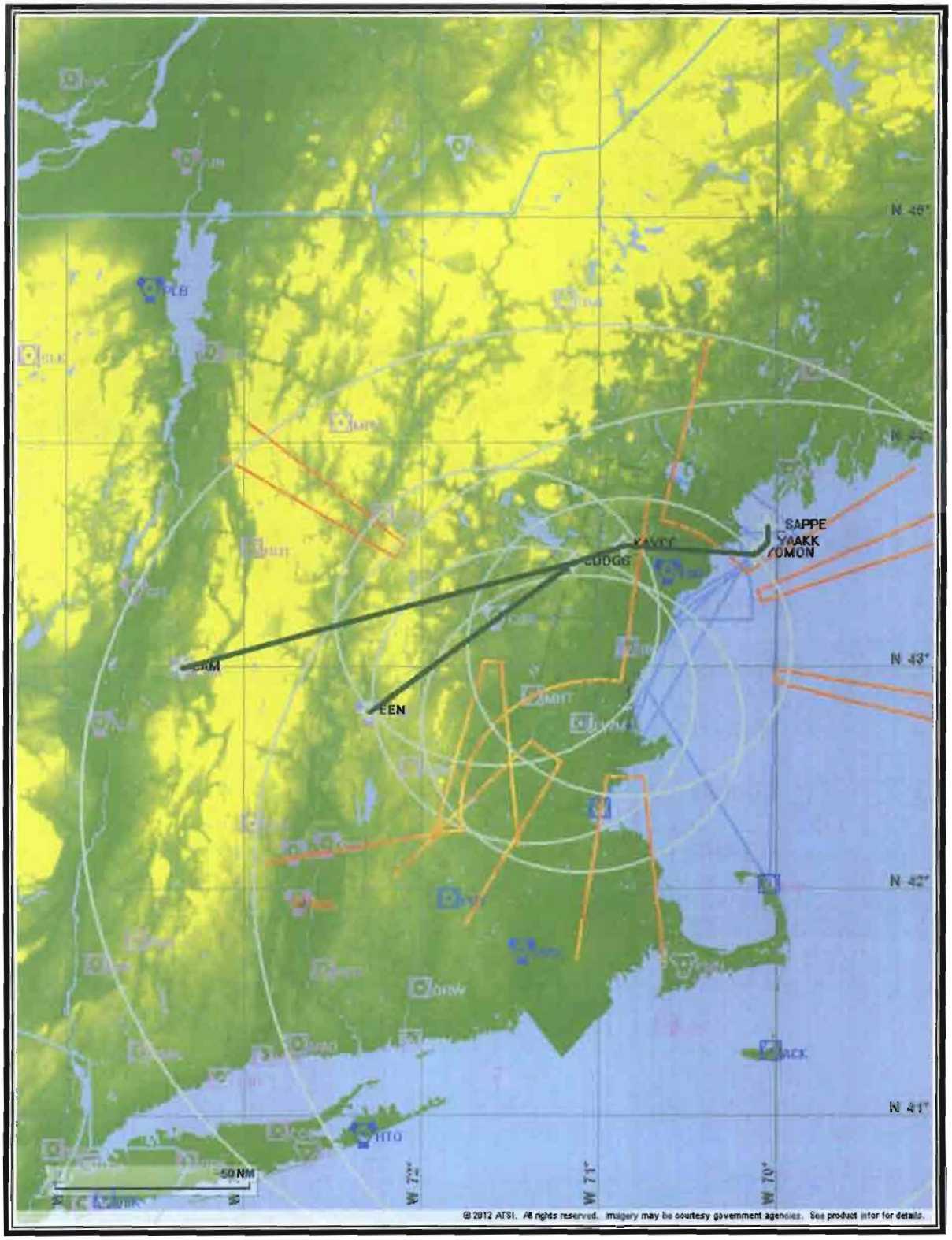
N 45°
N 44°
N 43°
N 42°
N 41°
W 72°
W 71°
W 70°
SAPPE
CDOGG
EEN
50 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
EEN	WP	N 42° 47' 39.40" W 72° 17' 30.40"	16000.0	Step	250.0	Fly By	TF
CDOGG	WP	N 43° 27' 50.74" W 71° 8' 27.80"	8000.0	Step	180.0	Fly By	TF
KAYCC	WP	N 43° 32' 22.10" W 70° 51' 37.61"	8000.0	Step	180.0	Fly By	TF
YOMON	WP	N 43° 30' 4.86" W 70° 7' 27.63"	4000.0	Step	180.0	Fly By	TF
YAAKK	WP	N 43° 33' 4.91" W 70° 3' 14.94"	3000.0	Step	180.0	Fly By	TF
_SAPPE	WP	N 43° 37' 37.41" W 70° 3' 7.20"	3000.0	Step	180.0	Fly Over	TF

Flyability

Return To Summary

Settings:

Flight Type: Arrival/Approach
Aircraft Category: Cat D
Climb Gradient: *None assigned*
Ground Speeds:

Table:

200.0 Kts up to **11000.0 Ft.**
240.0 Kts up to **18000.0 Ft.**
260.0 Kts up to **24000.0 Ft.**
340.0 Kts up to **99900.0 Ft.**

Wind Settings: *None assigned*
Descent During a Turn: Allowed
VNAV Mode: Flight Plan

Entire track is fly-able

DME/DME

Return To Summary

Settings:

RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.558 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: VOR/DME , VORTAC , TACAN , and User
DME Include Angles: 30 to 150
Critical DMEs: Allowed
DoD Facilities: Not included
Foreign Facilities: Not included
Low & Terminal DMEs: Included
Flight Check DMEs: Selected
Higher Altitudes: Evaluated
Near Maximum Altitude: Evaluated

Total Number of DMEs Used: 8

Maximum DME Error: 1.454 NM.

No Critical DMEs were found.

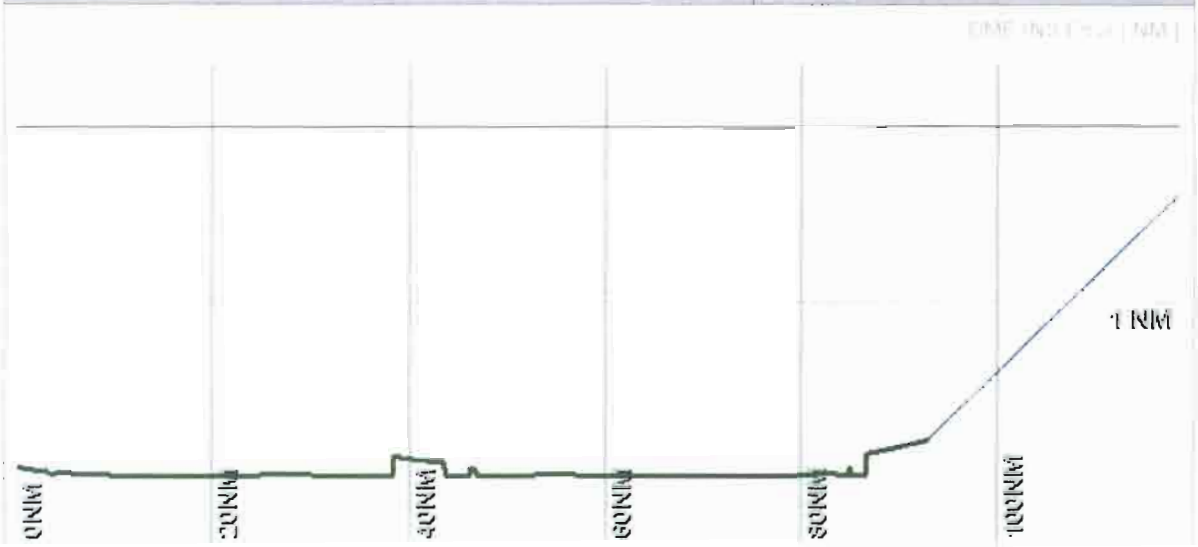
Available DMEs: BOS, ENE, GDM, PUT, PVD, CON, MHT, EEN, LWM, PSM

Disabled DMEs: BDL

Foreign DMEs within range: UTR, VLV, YJN, YOW, YQB, YSC, YUL, YQI, YFC, YSJ

DME/DME (Continued.)

Return To Summary



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	ENE	N 43° 25' 32.42" W 70° 36' 48.69"	H	Database	NO	1.454	Enabled	27.0 %	27.0 %
2	PVD	N 41° 43' 27.64" W 71° 25' 46.67"	H	Database	NO	1.454	Enabled	1.3 %	1.5 %
3	GDM	N 42° 32' 45.42" W 72° 3' 29.48"	L	Database	NO	1.454	Enabled	21.3 %	22.2 %
4	CON	N 43° 13' 11.23" W 71° 34' 31.63"	L + ESV	User	NO	1.616	Enabled	28.1 %	27.9 %
5	MHT	N 42° 52' 6.70" W 71° 22' 10.31"	L + ESV	User	NO	1.454	Enabled	52.6 %	52.7 %
6	EEN	N 42° 47' 39.40" W 72° 17' 30.40"	L	Database	NO	1.454	Enabled	2.0 %	1.9 %
7	LWM	N 42° 44' 25.50" W 71° 5' 41.43"	L + ESV	User	NO	1.454	Enabled	4.4 %	4.3 %
8	PSM	N 43° 5' 4.06" W 70° 49' 55.15"	L + ESV	User	NO	1.460	Enabled	18.9 %	18.7 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	CON	GDM	MHT	PVD	ENE	BOS
10.1	CON	GDM	MHT	EEN		
32.6	CON	LWM	MHT	EEN	PSM	
46.1	CON	ENE	MHT	PSM		
64.1	CON	ENE	MHT	PSM	LWM	
77.1	CON	ENE	MHT	PSM	LWM	
109.1	PSM	ENE				
113.4	PSM	ENE				

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 43° 31' 27.14" W 70° 33' 13.56"	N 43° 31' 26.67" W 70° 33' 4.42"	0.1
	VOR: ENE	Available from N 43° 31' 27.14" W 70° 33' 13.56" to N 43° 31' 26.67" W 70° 33' 4.42"	
	VOR: PSM	Available from N 43° 31' 27.14" W 70° 33' 13.56" to N 43° 31' 26.67" W 70° 33' 4.42"	
2	N 43° 31' 19.60" W 70° 30' 47.32"	N 43° 37' 34.51" W 70° 3' 7.25"	25.7
	VOR: ENE	Available from N 43° 31' 19.60" W 70° 30' 47.32" to N 43° 37' 34.51" W 70° 3' 7.25"	
	VOR: PSM	Available from N 43° 31' 19.60" W 70° 30' 47.32" to N 43° 30' 14.30" W 70° 7' 25.87"	

DME/DME (Continued.)

Return To Summary

User DMEs

#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	MHT	N 42° 52' 6.70" W 71° 22' 10.31"	L	470.5	114.40	MHT	Used
		ESV: Bearing [True]: 15.0° to 55.0° Bearing [Mag]: 30.0° to 70.0°			Arc Distance: Out to 66.0 NM Altitude: 3500.0 to 12000.0 Ft.		
2	LFV	N 42° 1' 1.88" W 70° 2' 14.04"	H	150.8	114.70	LFV	Not Used
		ESV: Bearing [True]: 330.0° to 1.0° Bearing [Mag]: 346.0° to 17.0°			Arc Distance: Out to 95.0 NM Altitude: 6000.0 to 18000.0 Ft.		
3	CON	N 43° 13' 11.23" W 71° 34' 31.63"	L	714.5	112.90	CON	Used
		Restriction: Bearing [True]: 175.0° to 195.0° Bearing [Mag]: 190.0° to 210.0°			Distance: Beyond 12.0 NM Altitude: Below 4000.0 Ft.		
		Restriction: Bearing [True]: 303.0° to 311.0° Bearing [Mag]: 318.0° to 326.0°			Distance: Beyond 30.0 NM Altitude: Below 12000.0 Ft.		
		ESV: Bearing [True]: 39.0° to 90.0° Bearing [Mag]: 54.0° to 105.0°			Arc Distance: Out to 63.0 NM Altitude: 4000.0 to 17000.0 Ft.		
4	LWM	N 42° 44' 25.50" W 71° 5' 41.43"	L	302.2	112.50	LWM	Used
		ESV: Bearing [True]: 21.0° to 42.0° Bearing [Mag]: 36.0° to 57.0°			Arc Distance: Out to 66.0 NM Altitude: 3500.0 to 19000.0 Ft.		
		ESV: Bearing [True]: 5.0° to 26.0° Bearing [Mag]: 20.0° to 41.0°			Arc Distance: Out to 70.0 NM Altitude: 5000.0 to 19000.0 Ft.		
5	BOS	N 42° 21' 26.82" W 70° 59' 22.37"	H	20.0	112.70	BOS	Not Used
		Restriction: Bearing [True]: 261.0° to 8.0° Bearing [Mag]: 277.0° to 24.0°			Distance: Beyond 35.0 NM Altitude: Below 2500.0 Ft.		
		ESV: Bearing [True]: 12.0° to 17.0° Bearing [Mag]: 28.0° to 33.0°			Arc Distance: Out to 71.0 NM Altitude: 4800.0 to 19000.0 Ft.		
		ESV: Bearing [True]: 20.0° to 28.0° Bearing [Mag]: 36.0° to 44.0°			Arc Distance: Out to 77.0 NM Altitude: 5300.0 to 19000.0 Ft.		

DME/DME (Continued.)

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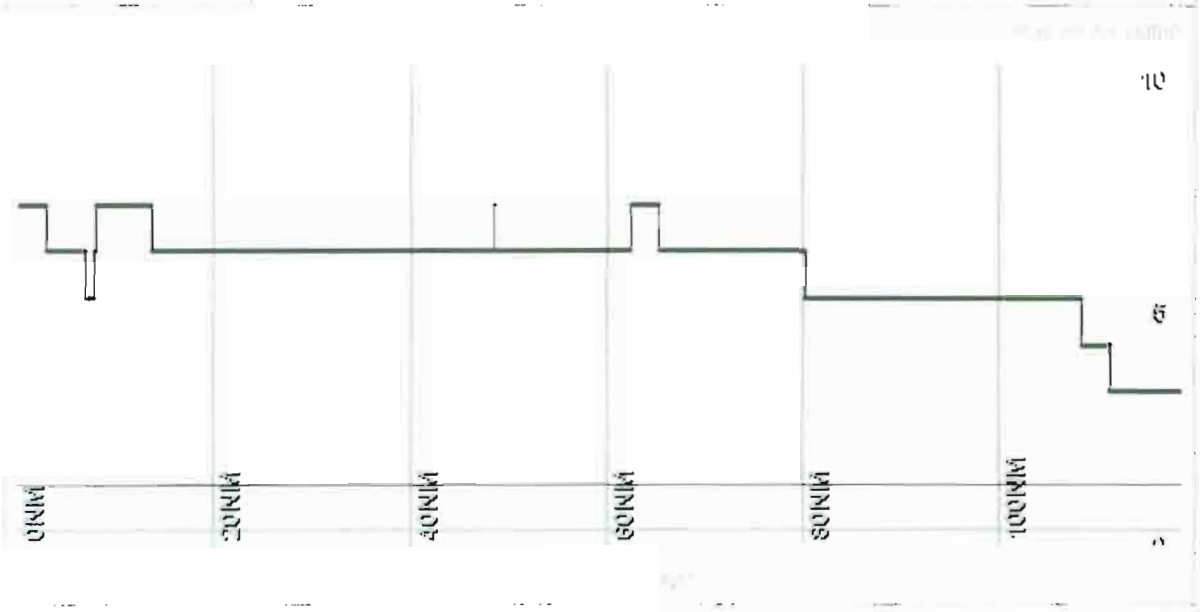
User DMEs (Continued.)

#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
6	PSM	N 43° 5' 4.06" W 70° 49' 55.15"	L	99.3	116.50	PSM	Used

Restriction:	Bearing [True]: 13.0° to 55.0° Bearing [Mag]: 29.0° to 71.0°	Distance: Beyond 35.0 NM Altitude: Below 2500.0 Ft.
Restriction:	Bearing [True]: 64.0° to 69.0° Bearing [Mag]: 80.0° to 85.0°	Distance: Beyond 35.0 NM Altitude: Below 2500.0 Ft.
Restriction:	Bearing [True]: 99.0° to 104.0° Bearing [Mag]: 115.0° to 120.0°	Distance: Beyond 37.0 NM Altitude: Below 2500.0 Ft.
Restriction:	Bearing [True]: 174.0° to 189.0° Bearing [Mag]: 190.0° to 205.0°	Distance: Beyond 35.0 NM Altitude: Below 2500.0 Ft.
Restriction:	Bearing [True]: 209.0° to 224.0° Bearing [Mag]: 225.0° to 240.0°	Distance: Beyond 35.0 NM Altitude: Below 2500.0 Ft.
ESV:	Bearing [True]: 20.0° to 53.0° Bearing [Mag]: 36.0° to 69.0°	Arc Distance: Out to 51.0 NM Altitude: 2700.0 to 12000.0 Ft.
ESV:	Bearing [True]: 340.0° to 25.0° Bearing [Mag]: 356.0° to 41.0°	Arc Distance: Out to 46.0 NM Altitude: 4000.0 to 19000.0 Ft.

Radar Analysis

Return To Summary

Settings: **Radar Types:** ARSR and ASR