U.S. DEPARTMENT of TRANSPORTATION – FEDERAL AVIATION ADMINISTRATION

GRAPHIC DEPARTURE PROCEDURE (DP)

Bearings, headings, courses, tracks, and radials are magnetic. Elevation and altitudes are in feet MSL. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated. Graphic depictions attached.

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
NUBLE	**ONE**	**NUBLE1.NUBLE**	**NONE**		26 JUL 2012

TYPE: RNAV SID

DP ROUTE DESCRIPTION:

TAKEOFF RWY 11: CLIMB HEADING 112.30 TO INTERCEPT COURSE 069.97 TO AHRON, THEN ON TRACK 123.68 TO PEAAK, THEN ON TRACK 202.90 TO WHYOO, THEN ON TRACK 246.27 TO CROSS ORCHD AT OR ABOVE 10000, THEN ON DEPICTED ROUTE TO NUBLE, THENCE...

TAKEOFF RWY 29: CLIMB HEADING 292.32 TO INTERCEPT COURSE 230.08 TO GORHM, THEN ON DEPICTED ROUTE TO NUBLE, THENCE...

...MAINTAIN 3000 OR AS ASSIGNED BY ATC (5000 WHEN TOWER CLOSED, CONTACT BOSTON CENTER). EXPECT CLEARANCE TO FILED ALTITUDE FIVE (5) MINUTES AFTER DEPARTURE.

TRANSITION ROUTES (GRAPHIC DEPICTION ONLY):

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	Crossing Altitudes/Fixes
BARNES	NUBLE1.BAF	NUBLE	RBELA	TRACK 224.78	22.59	7000	1700	
		RBELA	COTEE	TRACK 216.76	21.52	11000	1700	
		COTEE	BAF VORTAC	TRACK 271.84	73.84	17000	3100	
CALVERTON	NUBLE1.CCC	NUBLE	RBELA	TRACK 224.78	22.59	7000	1700	
		RBELA	JJIMY	TRACK 216.79	26.44	11000	1700	
		JJIMY	ORW VOR/DME	TRACK 233.42	63.96	17000	2500	
		ORW VOR/DME	CCC VOR/DME	TRACK 241.18	52.17	17000	2600	
NELIE	NUBLE1.NELIE	NUBLE	RBELA	TRACK 224.78	22.59	7000	1700	
		RBELA	JJIMY	TRACK 216.79	26.44	11000	1700	
		JJIMY	NELIE	TRACK 264.81	74.09	17000	2600	

PROCEDURAL DATA NOTES/TAKEOFF MINIMUMS:

NOTE: FOR TURBOJETS ONLY.
NOTE: DME/DME/IRU OR GPS REQUIRED.
NOTE: RNAV 1.
NOTE: RADAR REQUIRED FOR NON-GPS EQUIPPED AIRCRAFT.

TAKEOFF MINIMUMS:
RWY 11, STANDARD WITH MINIMUM CLIMB OF 460 FT PER NM TO 3000. ATC CLIMB OF 460 FT PER NM TO 10000.
RWY 29, STANDARD WITH MINIMUM CLIMB OF 250 FT PER NM TO 3000.

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GRAPHIC DEPARTURE PROCEDURE (DP)

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DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
NUBLE	**ONE**	**NUBLE1.NUBLE**	**NONE**		26 JUL 2012

TAKEOFF OBSTACLES NOTES:

NOTE: RWY 11, TREES BEGINNING 983 FT FROM DER, 418 FT LEFT OF CENTERLINE, UP TO 59 FT AGL/73 FT MSL. TREES BEGINNING 428 FT FROM DER, 280 FT RIGHT OF CENTERLINE, UP TO 32 FT AGL/69 FT MSL. TREES 6037 FT FROM DER, 1744 FT LEFT OF CENTERLINE, UP TO 79 FT AGL/248 FT MSL. TREES 1.0 NM FROM DER, 1778 FT LEFT OF CENTERLINE, UP TO 75 FT AGL/242 FT MSL.
NOTE: RWY 29, TREES BEGINNING 2952 FT FROM DER, 1066 FT LEFT OF CENTERLINE, UP TO 85 FT AGL/200 FT MSL. TREES BEGINNING 1319 FT FROM DER, 509 FT RIGHT OF CENTERLINE, UP TO 81 FT AGL/178 FT MSL.

CONTROLLING OBSTACLES:

RWY 11: 248 FT MSL TREES 433850.16N/0701632.42W. 242 FT MSL TREES 433850.27N/0701629.07W.

LOST COMMUNICATIONS PROCEDURES:

IF RADIO CONTACT NOT ESTABLISHED WITHIN 2 MINUTES AFTER DEPARTURE, PROCEED ON COURSE VIA NUBLE RNAV ROUTE TO REQUESTED ALTITUDE OR 10000, WHICHEVER IS LOWER.

ADDITIONAL FLIGHT DATA:

REFERENCE MAG VAR: KPWM 17W EPOCH YEAR: 95. DME/DME ASSESSMENT: SAT (RNP 2.0).
RECOMMENDED NAVAID: ENE VORTAC (17W).

AIRPORTS SERVED:

PORTLAND INTL JETPORT PORTLAND, ME

COMMUNICATIONS:

ATIS, CLEARANCE DELIVERY, GROUND CONTROL, TOWER, PWM DEP CON, ZBW

FIXES AND/OR NAVAIDS:

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
NUBLE	ONE	NUBLE1.NUBLE	NONE		26 JUL 2012

FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
RW11 (AER)	433845.10N/0701933.86W	N	-	-	-	-			
	433829.88N/0701548.85W	-	-	VI	095.30	2.73			CG 460 FT/NM TO 3000. ATC CG 460 FT/NM TO 10000.
AHRON	434024.11N/0701220.12W	Y	FB	CF	052.97	3.16			RECOMMENDED NAVAID: ENE VORTAC
PEAAK	433902.02N/0700603.67W	Y	FB	TF	106.68	4.76			
WHYOO	433425.08N/0700643.02W	Y	FB	TF	185.90	4.64			
ORCHD	432515.59N/0702116.99W	Y	FB	TF	229.27	14.01	AT/ABOVE 10000		
FOSCO	431615.56N/0703527.32W	Y	FB	TF	229.05	13.71			
NUBLE	430958.36N/0704259.47W	Y	FB	TF	221.28	8.36			
RW29 (AER)	433838.52N/0701756.37W	N	-	-	-	-			
	433915.99N0702716.35W	-	-	VI	275.32	6.80			CG 250 FT/NM TO 3000
GORHM	433131.56N/0703411.86W	Y	FB	CF	213.08	9.23			RECOMMENDED NAVAID: ENE VORTAC
NUBLE	430958.36N/0704259.47W	Y	FB	TF	196.63	22.48			
NUBLE	430958.36N/0704259.47W	Y	-	IF	-	-			NUBLE1.BAF
RBELA	424957.99N/0705717.96W	Y	FB	TF	207.78	22.59			
COTEE	422942.23N/0710707.92W	Y	FB	TF	199.76	21.52			
BAF VORTAC	420943.06N/0724258.31W	Y	FB	TF	254.84	73.84			
NUBLE	430958.36N/0704259.47W	Y	-	IF	-	-			NUBLE1.CCC
RBELA	424957.99N/0705717.96W	Y	FB	TF	207.78	22.59			
JJIMY	422504.09N/0710923.06W	Y	FB	TF	199.79	26.44			
ORW VOR/DME	413323.05N/0715957.67W	Y	FB	TF	216.42	63.96			
CCC VOR/DME	405546.62N/0724755.89W	Y	FB	TF	224.18	52.17			
NUBLE	430958.36N/0704259.47W	Y	-	IF	-	-			NUBLE1.NELIE
RBELA	424957.99N/0705717.96W	Y	FB	TF	207.78	22.59			
JJIMY	422504.09N/0710923.06W	Y	FB	TF	199.79	26.44			
NELIE	415627.64N/0724118.88W	Y	FB	TF	247.81	74.09			

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
NUBLE (RNAV)	ONE	NUBLE1.NUBLE	NONE		26 JUL 2012

ARINC PACKET - 424-18 - SID

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                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        BAF   K6011300VTL  N42094305W072425832    N42094305W072425832W0140002671     NARBARNES
        SUSAD        CCC   K6011720VDLW N40554662W072475589    N40554662W072475589W0130000851     NARCALVERTON
        SUSAD        ENE   K6011710VTH  N43253242W070364869    N43253242W070364869W0170001922     NARKENNEBUNK
        SUSAD        ORW   K6011000VDL  N41332305W071595767    N41332305W071595767W0140003101     NARNORWICH

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   AHRON K60    W     N43402411W070122012                      W0158     NAR           AHRON
        SUSAEAENRT   COTEE K60    C   B N42294223W071070792                      W0150     NAR           COTEE
        SUSAEAENRT   FOSCO K60    W     N43161556W070352732                      W0155     NAR           FOSCO
        SUSAEAENRT   GORHM K60    W     N43313156W070341186                      W0156     NAR           GORHM
        SUSAEAENRT   JJIMY K60    C   B N42250409W071092306                      W0150     NAR           JJIMY
        SUSAEAENRT   NELIE K60    C   H N41562764W072411888                      W0141     NAR           NELIE
        SUSAEAENRT   NUBLE K60    W     N43095836W070425947                      W0154     NAR           NUBLE
        SUSAEAENRT   ORCHD K60    W     N43251559W070211699                      W0157     NAR           ORCHD
        SUSAEAENRT   PEAAK K60    W     N43390202W070060367                      W0158     NAR           PEAAK
        SUSAEAENRT   RBELA K60    W   H N42495799W070571796                      W0152     NAR           RBELA
        SUSAEAENRT   WHYOO K60    W     N43342508W070064302                      W0158     NAR           WHYOO

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KPWMK6APWM     0     072YHN43384620W070183340W017000076         1800018000C    MNAR    PORTLAND INTL JETPORT

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KPWMK6DNUBLE14RW11  010         0        VI                     1123                    18000
        SUSAP KPWMK6DNUBLE14RW11  020AHRONK6EA0E    010CF ENE K6      0670023207000032D
        SUSAP KPWMK6DNUBLE14RW11  030PEAAKK6EA0E    010TF                     12370048
        SUSAP KPWMK6DNUBLE14RW11  040WHYOOK6EA0E    010TF                     20290046
        SUSAP KPWMK6DNUBLE14RW11  050ORCHDK6EA0E    010TF                     24630140    + 10000
        SUSAP KPWMK6DNUBLE14RW11  060FOSCOK6EA0E    010TF                     24610137
        SUSAP KPWMK6DNUBLE14RW11  070NUBLEK6EA0EE   010TF                     23830084
        SUSAP KPWMK6DNUBLE14RW29  010         0        VI                     2923                    18000
        SUSAP KPWMK6DNUBLE14RW29  020GORHMK6EA0E    010CF ENE K6      0346006323010092D
        SUSAP KPWMK6DNUBLE14RW29  030NUBLEK6EA0EE   010TF                     21360225
        SUSAP KPWMK6DNUBLE16BAF   010NUBLEK6EA0E       IF                                             18000
        SUSAP KPWMK6DNUBLE16BAF   020RBELAK6EA0E    010TF                     22480226
        SUSAP KPWMK6DNUBLE16BAF   030COTEEK6EA0E    010TF                     21680215
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QUALITY CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
NUBLE (RNAV)	ONE	NUBLE1.NUBLE	NONE		26 JUL 2012

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        SUSAP KPWMK6DNUBLE16BAF   040BAF  K6D 0VE   010TF                    27180738
        SUSAP KPWMK6DNUBLE16CCC   010NUBLEK6EA0E       IF                                        18000
        SUSAP KPWMK6DNUBLE16CCC   020RBELAK6EA0E    010TF                    22480226
        SUSAP KPWMK6DNUBLE16CCC   030JJIMYK6EA0E    010TF                    21680264
        SUSAP KPWMK6DNUBLE16CCC   040ORW  K6D 0V    010TF                    23340640
        SUSAP KPWMK6DNUBLE16CCC   050CCC  K6D 0VE   010TF                    24120522
        SUSAP KPWMK6DNUBLE16NELIE 010NUBLEK6EA0E       IF                                        18000
        SUSAP KPWMK6DNUBLE16NELIE 020RBELAK6EA0E    010TF                    22480226
        SUSAP KPWMK6DNUBLE16NELIE 030JJIMYK6EA0E    010TF                    21680264
        SUSAP KPWMK6DNUBLE16NELIE 040NELIEK6EA0EE   010TF                    26480741
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                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KPWMK6GRW11    0072001123 N43384510W070193386-0500    -0003200076000059150IIPWM3
        SUSAP KPWMK6GRW29    0072002923 N43383852W070175637+0500    -0013300042000050150IIGCS1
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QUALITY CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
NUBLE (RNAV)	ONE	NUBLE1.NUBLE	NONE		26 JUL 2012

ARINC SUMMARY - 424-18 - SID

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	RW11		010		VI		FB		112.3()			
	RW11	AHRON	020		CF		FB	1.0	070.0()	003.2		
	RW11	PEAAK	030		TF		FB	1.0	123.7()	004.8		
	RW11	WHYOO	040		TF		FB	1.0	202.9()	004.6		
	RW11	ORCHD	050		TF		FB	1.0	246.3()	014.0	AA 10000	
	RW11	FOSCO	060		TF		FB	1.0	246.1()	013.7		
	RW11	NUBLE	070		TF		FB	1.0	238.3()	008.4		
	RW29		010		VI		FB		292.3()			
	RW29	GORHM	020		CF		FB	1.0	230.1()	009.2		
	RW29	NUBLE	030		TF		FB	1.0	213.6()	022.5		
	BAF	NUBLE	010		IF		FB					
	BAF	RBELA	020		TF		FB	1.0	224.8()	022.6		
	BAF	COTEE	030		TF		FB	1.0	216.8()	021.5		
	BAF	BAF	040		TF		FB	1.0	271.8()	073.8		
	CCC	NUBLE	010		IF		FB					
	CCC	RBELA	020		TF		FB	1.0	224.8()	022.6		
	CCC	JJIMY	030		TF		FB	1.0	216.8()	026.4		
	CCC	ORW	040		TF		FB	1.0	233.4()	064.0		
	CCC	CCC	050		TF		FB	1.0	241.2()	052.2		
	NELIE	NUBLE	010		IF		FB					
	NELIE	RBELA	020		TF		FB	1.0	224.8()	022.6		
	NELIE	JJIMY	030		TF		FB	1.0	216.8()	026.4		
	NELIE	NELIE	040		TF		FB	1.0	264.8()	074.1		

POINT DATA

WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
BAF	N420943.05	W0724258.32	N4209.718	W07242.972
CCC	N405546.62	W0724755.89	N4055.777	W07247.932
ENE	N432532.42	W0703648.69	N4325.540	W07036.812
ORW	N413323.05	W0715957.67	N4133.384	W07159.961
AHRON	N434024.11	W0701220.12	N4340.402	W07012.335
COTEE	N422942.23	W0710707.92	N4229.704	W07107.132
FOSCO	N431615.56	W0703527.32	N4316.259	W07035.455
GORHM	N433131.56	W0703411.86	N4331.526	W07034.198
JJIMY	N422504.09	W0710923.06	N4225.068	W07109.384
NELIE	N415627.64	W0724118.88	N4156.461	W07241.315
NUBLE	N430958.36	W0704259.47	N4309.973	W07042.991
ORCHD	N432515.59	W0702116.99	N4325.260	W07021.283
PEAAK	N433902.02	W0700603.67	N4339.034	W07006.061
RBELA	N424957.99	W0705717.96	N4249.967	W07057.299
WHYOO	N433425.08	W0700643.02	N4334.418	W07006.717
RW11	N433845.10	W0701933.86	N4338.752	W07019.564

QUALITY CHECKED

DEPARTURE (DATA RECORD)

DP Name	Number	DP Computer Code	Superseded Number	Dated	Effective Date
NUBLE (RNAV)	ONE	NUBLE1.NUBLE	NONE		26 JUL 2012

RW29	N433838.52	W0701756.37	N4338.642	W07017.940

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW11	00076	59
RW29	00042	50

QUALITY CHECKED