Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: STAR	Date Open: 04/16/2012	Task #: 2012041624163501001	Request #: 20120416241635
Procedure: STAR WIPOR (RNAV) TWO PROVIDENCE RI KPVD		Airport ID: KPVD	Airport: THEODORE FRANCIS GREEN STATE		Reimbursable #:
City: PROVIDENCE	ST: RI	GPS #:		Estimated Chart Date: 09/20/2012	FICO #:
Fac ID:	Fac. Type: Proc D	Specialist: DAVID SAUER			

Procedure Review

P2

	Rec'd	Rel'd	Full Name	Comments
Lead:	04/17/2012	05/29/2012	DONALD SMITH	
QA:	05/29/2012	05/29/2012	STEVEN SZUKALA	
Liaison:	05/29/2012		Alfonso	DME/DME

DME / DME

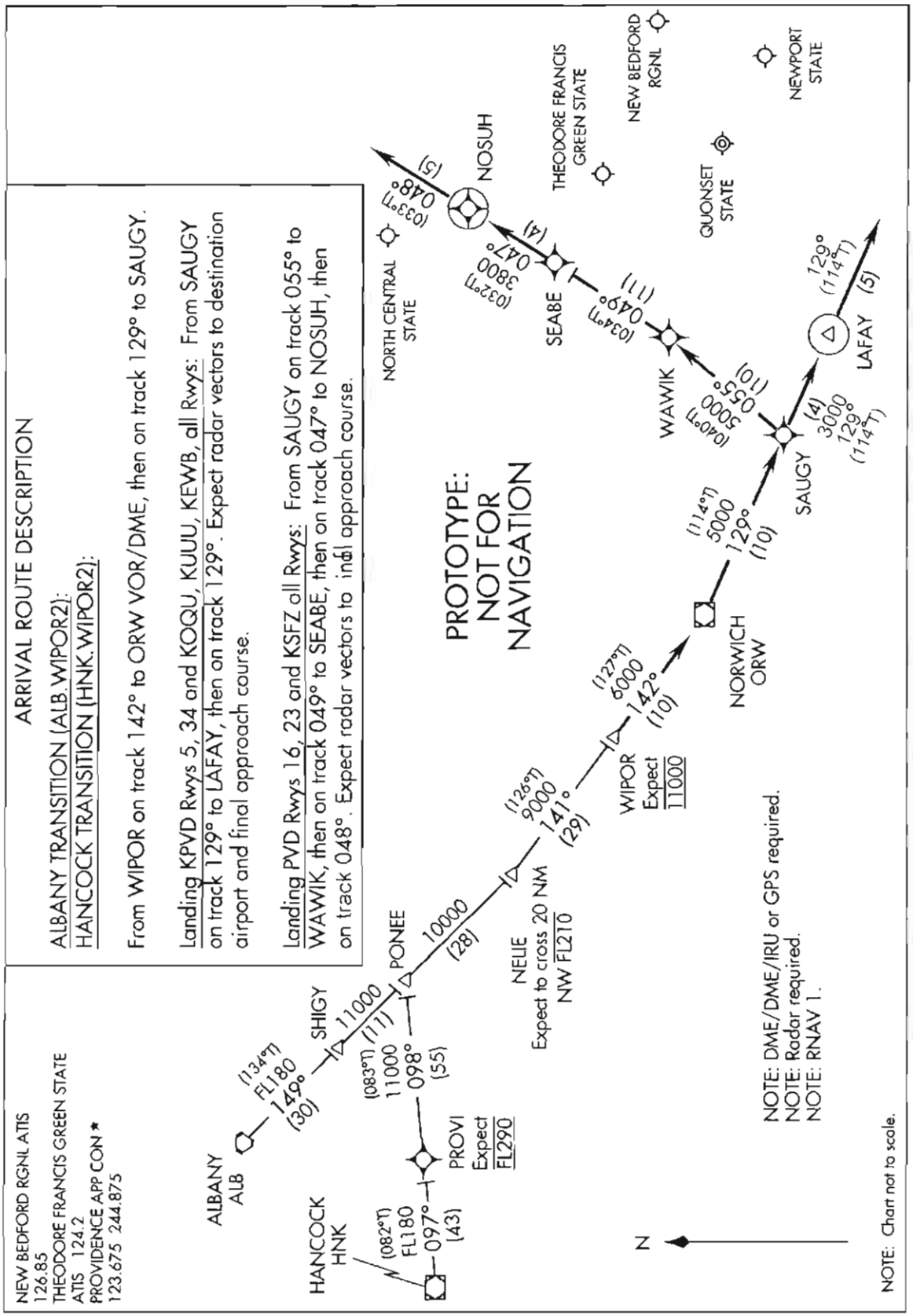
Procedure Comments: ENROUTE **Remark Type:** INFORMATION

pkg 1 of 1

PROVIDENCE, RI THEODORE FRANCIS GREEN STATE (KPVD) WIPOR TWO (RNAV) (STAR) ENROUTE-YES FC: 7.24.12 PUB: 9.20.12

ATTACHED FORMS: 7100-4; 7100-3; 8260-2(S): NOSUH, REV 1; SEABE, REV 1; ; (INFO ONLY) ALBANY (ALB) VTAC, REV 11; HANCOCK (HNK) VDME, REV 6; LAFAY-INT, REV 10; NELIE-INT, REV 6; NORWICH (ORW) VDME, REV 15; PONEE-INT, REV 2; PROVI, ORIG; SAUGY, ORIG; SHIGY-INT, REV 2; WAWIK, ORIG; WIPOR-INT, REV 3

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


ARRIVAL ROUTE DESCRIPTION
ALBANY TRANSITION (ALB.WIPOR2):
HANCOCK TRANSITION (HNK.WIPOR2):
From WIPOR on track 142° to ORW VOR/DME, then on track 129° to SAUGY.
Landing KPVD Rwys 5, 34 and KOQU, KUUU, KEWB, all Rwys: From SAUGY on track 129° to LAFAY, then on track 129°. Expect radar vectors to destination airport and final approach course.
Landing PVD Rwys 16, 23 and KSFZ all Rwys: From SAUGY on track 055° to WAWIK, then on track 049° to SEABE, then on track 047° to NOSUH, then on track 048°. Expect radar vectors to final approach course.
PROTOTYPE: NOT FOR NAVIGATION
NEW BEDFORD RGNL ATIS 126.85
THEODORE FRANCIS GREEN STATE ATIS 124.2
PROVIDENCE APP CON * 123.675 244.875
HANCOCK HNK
(082°T) FL180 097° (43)
PROVI Expect FL290
ALBANY ALB
(134°T) FL180 149° (30)
SHIGY
(083°T) 11000 11000 098° (55)
PONEE
11000 (11)
10000 (28)
NELIE Expect to cross 20 NM NW FL210
(126°T) 9000 141° (29)
WIPOR Expect 11000
(127°T) 6000 142° (10)
NORWICH ORW
(114°T) 5000 129° (10)
SAUGY
(4) 3000 129° (114°T)
LAFAY
129° (114°T) (5)
WAWIK
(040°T) 5000 055° (10)
SEABE
(034°T) 049° (11)
(032°T) 3800 047° (4)
NOSUH
(033°T) 048° (5)
NORTH CENTRAL STATE
THEODORE FRANCIS GREEN STATE
NEW BEDFORD RGNL
QUONSET STATE
NEWPORT STATE
N
NOTE: DME/DME/IRU or GPS required.
NOTE: Radar required.
NOTE: RNAV 1.
NOTE: Chart not to scale.

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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
ALBANY	ALB.WIPOR 2	ALB VORTAC	SHIGY	148.90/30.00	18000			
			PONEE	149.22/11.14	11000			
			NELIE	149.36/28.13	10000			
			WIPOR	141.47/28.60	9000			
HANCOCK	HNK.WIPOR 2	HNK VOR/DME	HINGZ	97.00/42.99	18000			
			PONEE	97.64/55.00	11000			
			NELIE	149.36/28.13	10000			
			WIPOR	141.47/28.60	9000			

(2) Arrival Route Description: FROM WIPOR ON TRACK 141.79/10.00 TO ORW VOR/DME (MEA 6000), THEN ON TRACK 129.07/9.82 TO SAUGY (MEA 5000).

LANDING KPVD RWYS 5, 34 AND KOQU, KUUU, KEWB, ALL RWYS: FROM SAUGY ON TRACK 129.24/3.92 TO LAFAY (MEA 3000), THEN ON TRACK 129.18. EXPECT RADAR VECTORS TO DESTINATION AIRPORT AND FINAL APPROACH COURSE.

LANDING PVD RWY 16 AND 23, AND KSFZ ALL RWYS: FROM SAUGY ON TRACK 055.38/10.28 TO WAWIK (MEA 5000), THEN ON TRACK 048.52/11.45 TO SEABE (MEA 5000), THEN ON TRACK 047.16/3.80 TO NOSUH (MEA 3800) THEN ON TRACK 048.47. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

(3) Procedural Data Notes: NOTE: DME/DME/IRU OR GPS REQUIRED.
NOTE: RADAR REQUIRED.
NOTE: RNAV 1.
NOTE: EXPECT TO CROSS HINGZ AT FL 290.
NOTE: EXPECT TO CROSS 20NM NW OF NELIE AT OR BELOW FL210.
NOTE: EXPECT TO CROSS WIPOR AT 11000.

(4) Fixes and/or Holding Patterns:

QUALITY CHECKED

(5) Communications: NEW BEDFORD ATIS, PROVIDENCE ATIS, PROVIDENCE APPROACH

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
WIPOR RNAV	TWO	WIPOR.WIPOR 2	ONE	5/31/12	

(12) Airports Served			
Airport Name	THEODORE FRANCIS GREEN STATE AIRPORT	City/State	PROVIDENCE, RHODE ISLAND
Airport Name	QUONSET STATE AIRPORT	City/State	NORTH KINGSTOWN, RHODE ISLAND
Airport Name	NEWPORT STATE AIRPORT	City/State	NEWPORT, RHODE ISLAND
Airport Name	NEW BEDFORD REGIONAL AIRPORT	City/State	NEW BEDFORD, MASSACHUSETTS
Airport Name	NORTH CENTRAL STATE AIRPORT	City/State	PAWTUCKET, RHODE ISLAND
Airport Name		City/State	

(13) Lost Communications Procedure:

(14) Remarks: ENVIRONMENTAL REVIEW ON FILE AT THE ATC FACILITY AND COMPLETED IAW FAAO 1050.1E

(15) Additional Flight Data:
REFERENCE MAGNETIC VARIATION = KPVD 15W/1985
DME/DME ASSESSMENT:SAT (RNP 2.0)

QUALITY CHECKED

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
WIPOR RNAV	TWO	WIPOR.WIPOR 2	ONE	5/31/12	

(16) Continuation:

(17) Changes:

1. MOVED SEABE ON THE 216.16 MAG BEARING 0.35NM OR 2108.40 FEET.
2. MOVED NOSUH ON THE 104 DEGREE MAG BEARING 21.95 FEET.
3. RAISED MEA AT SAUGY, WAWIK, AND SEABE FROM 3000 TO 5000, RAISED MEA AT NOSUH FROM 2100 TO 3800.

(18) Reasons for Changes:

1. MOVED WP TO ALIGN RWY 23 TRANSITION WITH PVD RWY 23 RNP AR.
2. MOVED WP TO ALIGN RWY 23 TRANSITION WITH PVD RWY 23 RNP AR.
3. MATCH STAR FIX ALTITUDES WITH RNP APPROACH ALTITUDES IAW AJV-1 MEMO DATED 6/20/11, PARA 1B.

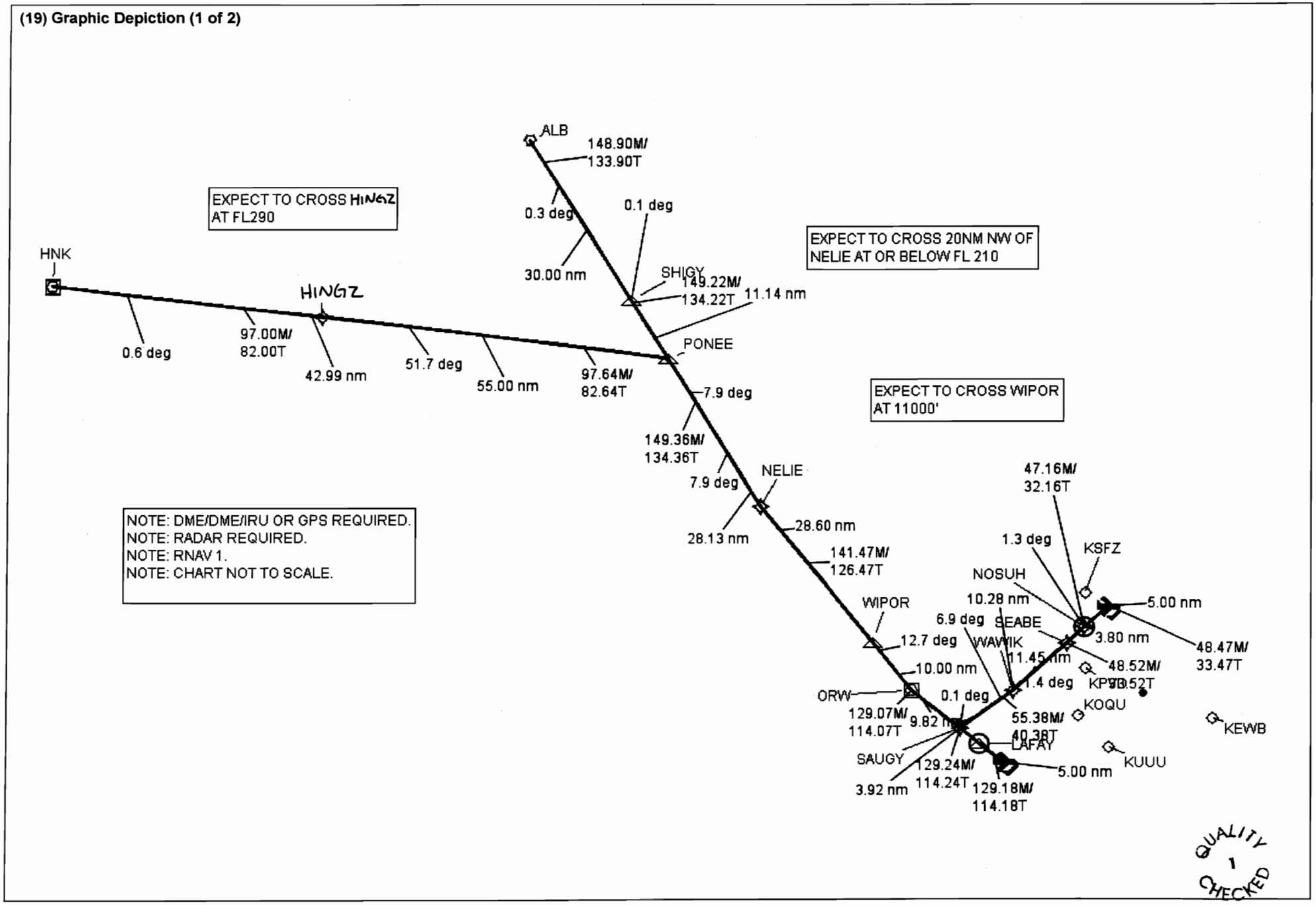
7/16/2012: THIS IS AN UPDATED COPY OF THE FORM
FIX NAME CHANGED FROM PROVI TO HINGZ

	Name (Typed and Signed), Title and Organization		DATE
Developed By	JOSEPH A. BELLABONA, Senior RNAV CTR Spc, Performance Based Navigation Grp, AJV-14		
Approved	**NFPG**		
	Reg. ATD		

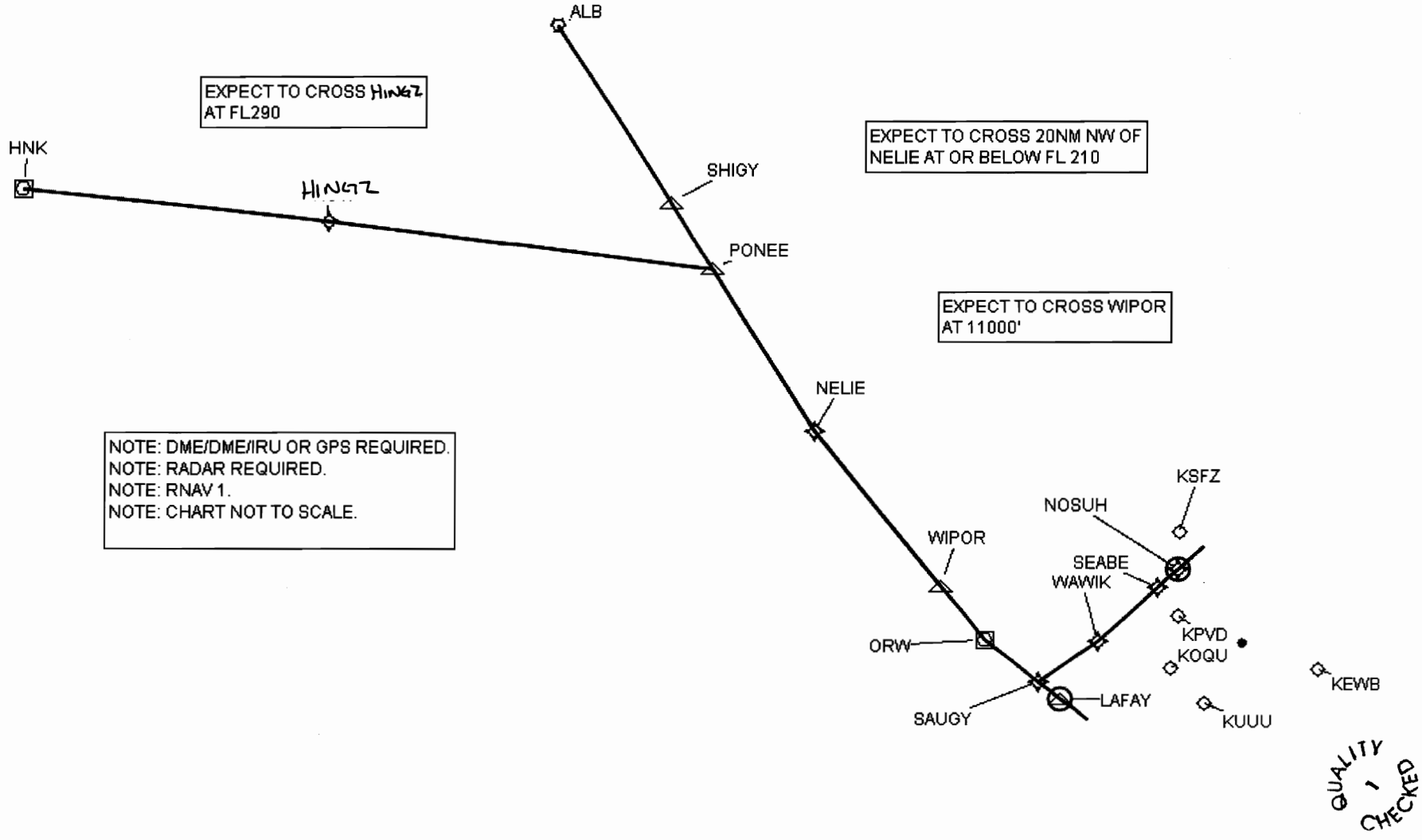
QUALITY 1 CHECKED

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
WIPOR RNAV	TWO	WIPOR.WIPOR 2	ONE	5/31/12	

(19) Graphic Depiction (1 of 2)



(19) Graphic Depiction (2 of 2)



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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									
ALB VORTAC	424450.21N / 0734811.46W	Y		IF					ALB.WIPOR1
SHIGY WP	422357.95N / 0731900.98W	Y	FB	TF	133.90	30.00			
PONEE WP	421611.14N / 0730815.74W	Y	FB	TF	134.22	11.14			
NELIE WP	415627.64N / 0724118.88W	Y	FB	TF	134.36	28.13			EXPECT TO CROSS 20NM NW OF NELIE WP AT OR BELOW FL210
WIPOR WP	413923.07N / 0721037.67W	Y	FB	TF	126.47	28.60			
En Route Transition									
HNK VOR/DME	420347.01N / 0751858.62W	Y		IF					HNK.WIPOR1
HINGZ WP	420931.81N / 0742144.08W	Y	FB	TF	082.00	42.99			EXPECT TO CROSS HINGZ WP AT FL290
PONEE WP	421611.14N / 0730815.74W	Y	FB	TF	082.64	55.00			EXPECT TO CROSS AT 11000
NELIE WP	415627.64N / 0724118.88W	Y	FB	TF	134.36	28.13			EXPECT TO CROSS 20NM NW OF NELIE WP AT OR BELOW FL210
WIPOR WP	413923.07N / 0721037.67W	Y	FB	TF	126.47	28.60			
Common Route									
WIPOR WP	413923.07N / 0721037.67W	Y		IF					

QUALITY CHECKED

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
WIPOR RNAV	TWO	WIPOR.WIPOR 2	ONE	5/31/12	

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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
ORW VOR/DME	413323.05N / 0715957.67W	Y	FB	TF	126.79	10.00			
SAUGY WP	412922.03N / 0714801.95W	Y	FB	TF	114.07	09.82			
Runway Transition									
SAUGY WP	412922.03N / 0714801.95W	Y		IF					
LAFAY WP	412745.22N / 0714316.43W	Y	FO	TF	114.24	03.92			
				FM	114.18	05.00			
Runway Transition									
SAUGY WP	412922.03N / 0714801.95W	Y		IF					
WAWIK WP	413711.58N / 0713909.45W	Y	FB	TF	040.38	10.28			
SEABE WP	414644.52N / 0713042.26W	Y	FB	TF	033.52	11.45			
NOSUH WP	414957.59N / 0712759.91W	Y	FO	TF	032.16	03.80			
RWY23				FM	033.47	05.00			

QUALITY CHECKED

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
WIPOR RNAV	TWO	WIPOR.WIPOR 2	ONE	5/31/12	

FAA Form 7100-3 (9/02)

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Federal Aviation Administration

STAR (Data Record)

ARINC PACKET - 424-18 - STAR

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NAVAID  12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
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        SUSAD        ALB   K6011530VTL  N42445021W073481146    N42445021W073481146W0130002741     NARALBANY
        SUSAD        HNK   K6011680VDHA N42034701W075185862    N42034701W075185862W0110020702     NARHANCOCK
        SUSAD        ORW   K6011000VDL  N41332305W071595767    N41332305W071595767W0140003101     NARNORWICH
        SUSAD        SEY   K6011780VDLW N41100277W071343391    N41100277W071343391W0150001001     NARSANDY POINT

                1         2         3         4         5         6         7         8         9         0         1         2         3
WP      12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   HINGZ K60    W      N42093181W074214408                    W0133     NAR          HINGZ
        SUSAEAENRT   LAFAY K60    C    L N41274522W071431643                    W0144     NAR          LAFAY
        SUSAEAENRT   NELIE K60    C    B N41562764W072411888                    W0141     NAR          NELIE
        SUSAEAENRT   PONEE K60    C    H N42161114W073081574                    W0140     NAR          PONEE
        SUSAEAENRT   SAUGY K60    W      N41292203W071480195                    W0144     NAR          SAUGY
        SUSAEAENRT   SHIGY K60    C    B N42235795W073190098                    W0139     NAR          SHIGY
        SUSAEAENRT   WIPOR K60    C    L N41392307W072103767                    W0143     NAR          WIPOR

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AIRPORT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
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        SUSAP KEWBK6AEWB     0     050YHN41403560W070572810W016000079         1800018000C    MNAR    NEW BEDFORD RGNL

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SEGMENT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
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        SUSAP KEWBK6EWIPOR24ALB   010ALB  K6D 0V      IF                                          18000
        SUSAP KEWBK6EWIPOR24ALB   020SHIGYK6EA0E    010TF                  14890300
        SUSAP KEWBK6EWIPOR24ALB   030PONEEK6EA0E    010TF                  14920111
        SUSAP KEWBK6EWIPOR24ALB   040NELIEK6EA0E    010TF                  14940281
        SUSAP KEWBK6EWIPOR24ALB   050WIPORK6EA0EE   010TF                  14150286
        SUSAP KEWBK6EWIPOR24HNK   010HNK  K6D 0V      IF                                          18000
        SUSAP KEWBK6EWIPOR24HNK   020HINGZK6EA0E    010TF                  09700430
        SUSAP KEWBK6EWIPOR24HNK   030PONEEK6EA0E    010TF                  09760550
        SUSAP KEWBK6EWIPOR24HNK   040NELIEK6EA0E    010TF                  14940281
        SUSAP KEWBK6EWIPOR24HNK   050WIPORK6EA0EE   010TF                  14150286
        SUSAP KEWBK6EWIPOR25ALL   010WIPORK6EA0E      IF                                          18000
        SUSAP KEWBK6EWIPOR25ALL   020ORW  K6D 0V    010TF                  14180100
        SUSAP KEWBK6EWIPOR25ALL   030SAUGYK6EA0E    010TF                  12910098
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(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
WIPOR RNAV	TWO	WIPOR.WIPOR2	ONE	5/31/12	

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SUSAP KEWBK6EWIPOR25ALL   040LAFAYK6EA0EY   010TF                    12920039
SUSAP KEWBK6EWIPOR25ALL   050LAFAYK6EA0EE      FM SEY K6      354701891292    D

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RUNWAY  12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
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        SUSAP KEWBK6GRW14    0050001445 N41404908W070575016-0200    -0006000076000045150R
        SUSAP KEWBK6GRW23    0049972345 N41405356W070571469-0300    -0005600077041351150R
        SUSAP KEWBK6GRW32    0050003245 N41401833W070565859+0200    -0009100066000052150R
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(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
WIPOR RNAV	TWO	WIPOR.WIPOR2	ONE	5/31/12	

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STAR (Data Record)

ARINC SUMMARY - 424-18 - STAR

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	ALB	ALB	010		IF		FB					
	ALB	SHIGY	020		TF		FB	1.0	148.9()	030.0		
	ALB	PONEE	030		TF		FB	1.0	149.2()	011.1		
	ALB	NELIE	040		TF		FB	1.0	149.4()	028.1		
	ALB	WIPOR	050		TF		FB	1.0	141.5()	028.6		
	HNK	HNK	010		IF		FB					
	HNK	HINGZ	020		TF		FB	1.0	097.0()	043.0		
	HNK	PONEE	030		TF		FB	1.0	097.6()	055.0		
	HNK	NELIE	040		TF		FB	1.0	149.4()	028.1		
	HNK	WIPOR	050		TF		FB	1.0	141.5()	028.6		
	ALL	WIPOR	010		IF		FB					
	ALL	ORW	020		TF		FB	1.0	141.8()	010.0		
	ALL	SAUGY	030		TF		FB	1.0	129.1()	009.8		
	ALL	LAFAY	040		TF		FO	1.0	129.2()	003.9		
	ALL	LAFAY	050		FM		FB		129.2()			

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	ALB	N424450.21	W0734811.46	N4244.837	W07348.191
	HNK	N420347.01	W0751858.62	N4203.784	W07518.977
	ORW	N413323.05	W0715957.67	N4133.384	W07159.961
	SEY	N411002.77	W0713433.91	N4110.046	W07134.565
	HINGZ	N420931.81	W0742144.08	N4209.530	W07421.735
	LAFAY	N412745.22	W0714316.43	N4127.754	W07143.274
	NELIE	N415627.64	W0724118.88	N4156.461	W07241.315
	PONEE	N421611.14	W0730815.74	N4216.186	W07308.262
	SAUGY	N412922.03	W0714801.95	N4129.367	W07148.033
	SHIGY	N422357.95	W0731900.98	N4223.966	W07319.016
	WIPOR	N413923.07	W0721037.67	N4139.385	W07210.628
	RW05	N414018.09	W0705752.25	N4140.302	W07057.871
	RW14	N414049.08	W0705750.16	N4140.818	W07057.836
	RW23	N414053.56	W0705714.69	N4140.893	W07057.245
	RW32	N414018.33	W0705658.59	N4140.306	W07056.977

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW05	00065	38

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
WIPOR RNAV	TWO	WIPOR.WIPOR2	ONE	5/31/12	

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RW14	00076	45
RW23	00077	51
RW32	00066	52

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
WIPOR RNAV	TWO	WIPOR.WIPOR2	ONE	5/31/12	

US Department of Transportation
Federal Aviation Administration

STAR (Data Record)

ARINC PACKET - 424-18 - STAR

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NAVAID  12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
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        SUSAD        HNK   K6011680VDHA N42034701W075185862    N42034701W075185862W0110020702     NARHANCOCK
        SUSAD        ORW   K6011000VDL  N41332305W071595767    N41332305W071595767W0140003101     NARNORWICH
        SUSAD        SEY   K6011780VDLW N41100277W071343391    N41100277W071343391W0150001001     NARSANDY POINT

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
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        SUSAEAENRT   HINGZ K60    W     N42093181W074214408                    W0133     NAR          HINGZ
        SUSAEAENRT   LAFAY K60    C   L N41274522W071431643                    W0144     NAR          LAFAY
        SUSAEAENRT   NELIE K60    C   B N41562764W072411888                    W0141     NAR          NELIE
        SUSAEAENRT   PONEE K60    C   H N42161114W073081574                    W0140     NAR          PONEE
        SUSAEAENRT   SAUGY K60    W     N41292203W071480195                    W0144     NAR          SAUGY
        SUSAEAENRT   SHIGY K60    C   B N42235795W073190098                    W0139     NAR          SHIGY
        SUSAEAENRT   WIPOR K60    C   L N41392307W072103767                    W0143     NAR          WIPOR

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AIRPORT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
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SEGMENT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
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        SUSAP KOQUK6EWIPOR24ALB   030PONEEK6EA0E    010TF                  14920111
        SUSAP KOQUK6EWIPOR24ALB   040NELIEK6EA0E    010TF                  14940281
        SUSAP KOQUK6EWIPOR24ALB   050WIPORK6EA0EE   010TF                  14150286
        SUSAP KOQUK6EWIPOR24HNK   010HNK  K6D 0V      IF                                          18000
        SUSAP KOQUK6EWIPOR24HNK   020HINGZK6EA0E    010TF                  09700430
        SUSAP KOQUK6EWIPOR24HNK   030PONEEK6EA0E    010TF                  09760550
        SUSAP KOQUK6EWIPOR24HNK   040NELIEK6EA0E    010TF                  14940281
        SUSAP KOQUK6EWIPOR24HNK   050WIPORK6EA0EE   010TF                  14150286
        SUSAP KOQUK6EWIPOR25ALL   010WIPORK6EA0E      IF                                          18000
        SUSAP KOQUK6EWIPOR25ALL   020ORW  K6D 0V    010TF                  14180100
        SUSAP KOQUK6EWIPOR25ALL   030SAUGYK6EA0E    010TF                  12910098
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(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
WIPOR RNAV	TWO	WIPOR.WIPOR2	ONE	5/31/12	

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US Department of Transportation
Federal Aviation Administration

STAR (Data Record)

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SUSAP KOQUK6EWIPOR25ALL   040LAFAYK6EA0EY   010TF                    12920039
SUSAP KOQUK6EWIPOR25ALL   050LAFAYK6EA0EE      FM SEY K6      354701891292    D

                1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
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        SUSAP KOQUK6GRW05    0040000495 N41351894W071244747+0000    -00267000110000040075V
        SUSAP KOQUK6GRW16    0075041600 N41362781W071251801-0100    -00244000180000050150IIOQU1
        SUSAP KOQUK6GRW23    0040002295 N41355152W071241767+0000    -00271000090000040075V
        SUSAP KOQUK6GRW34    0075043400 N41353034W071242441+0100    -00269000100403501 50R
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(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
WIPOR RNAV	TWO	WIPOR.WIPOR2	ONE	5/31/12	

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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
	ALB	ALB	010		IF		FB					
	ALB	SHIGY	020		TF		FB	1.0	148.9()	030.0		
	ALB	PONEE	030		TF		FB	1.0	149.2()	011.1		
	ALB	NELIE	040		TF		FB	1.0	149.4()	028.1		
	ALB	WIPOR	050		TF		FB	1.0	141.5()	028.6		
	HNK	HNK	010		IF		FB					
	HNK	HINGZ	020		TF		FB	1.0	097.0()	043.0		
	HNK	PONEE	030		TF		FB	1.0	097.6()	055.0		
	HNK	NELIE	040		TF		FB	1.0	149.4()	028.1		
	HNK	WIPOR	050		TF		FB	1.0	141.5()	028.6		
	ALL	WIPOR	010		IF		FB					
	ALL	ORW	020		TF		FB	1.0	141.8()	010.0		
	ALL	SAUGY	030		TF		FB	1.0	129.1()	009.8		
	ALL	LAFAY	040		TF		FO	1.0	129.2()	003.9		
	ALL	LAFAY	050		FM		FB		129.2()			

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	ALB	N424450.21	W0734811.46	N4244.837	W07348.191
	HNK	N420347.01	W0751858.62	N4203.784	W07518.977
	ORW	N413323.05	W0715957.67	N4133.384	W07159.961
	SEY	N411002.77	W0713433.91	N4110.046	W07134.565
	HINGZ	N420931.81	W0742144.08	N4209.530	W07421.735
	LAFAY	N412745.22	W0714316.43	N4127.754	W07143.274
	NELIE	N415627.64	W0724118.88	N4156.461	W07241.315
	PONEE	N421611.14	W0730815.74	N4216.186	W07308.262
	SAUGY	N412922.03	W0714801.95	N4129.367	W07148.033
	SHIGY	N422357.95	W0731900.98	N4223.966	W07319.016
	WIPOR	N413923.07	W0721037.67	N4139.385	W07210.628
	RW05	N413518.94	W0712447.47	N4135.316	W07124.791
	RW16	N413627.81	W0712518.01	N4136.464	W07125.300
	RW23	N413551.52	W0712417.67	N4135.859	W07124.295
	RW34	N413530.34	W0712424.41	N4135.506	W07124.407

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW05	00011	40

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
WIPOR RNAV	TWO	WIPOR.WIPOR2	ONE	5/31/12	

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RW16	00018	50
RW23	00009	40
RW34	00010	50

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
WIPOR RNAV	TWO	WIPOR.WIPOR2	ONE	5/31/12	

US Department of Transportation
Federal Aviation Administration

STAR (Data Record)

ARINC PACKET - 424-18 - STAR

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NAVAID  12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAD        ALB   K6011530VTL  N42445021W073481146    N42445021W073481146W0130002741     NARALBANY
        SUSAD        HNK   K6011680VDHA N42034701W075185862    N42034701W075185862W0110020702     NARHANCOCK
        SUSAD        ORW   K6011000VDL  N41332305W071595767    N41332305W071595767W0140003101     NARNORWICH
        SUSAD        SEY   K6011780VDLW N41100277W071343391    N41100277W071343391W0150001001     NARSANDY POINT

                1         2         3         4         5         6         7         8         9         0         1         2         3
WP      12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   HINGZ K60    W     N42093181W074214408                    W0133     NAR          HINGZ
        SUSAEAENRT   LAFAY K60    C   L N41274522W071431643                    W0144     NAR          LAFAY
        SUSAEAENRT   NELIE K60    C   B N41562764W072411888                    W0141     NAR          NELIE
        SUSAEAENRT   NOSUH K60    W     N41495759W071275991                    W0147     NAR          NOSUH
        SUSAEAENRT   PONEE K60    C   H N42161114W073081574                    W0140     NAR          PONEE
        SUSAEAENRT   SAUGY K60    W     N41292203W071480195                    W0144     NAR          SAUGY
        SUSAEAENRT   SEABE K60    W     N41464452W071304226                    W0146     NAR          SEABE
        SUSAEAENRT   SHIGY K60    C   B N42235795W073190098                    W0139     NAR          SHIGY
        SUSAEAENRT   WAWIK K60    W     N41371158W071390945                    W0145     NAR          WAWIK
        SUSAEAENRT   WIPOR K60    C   L N41392307W072103767                    W0143     NAR          WIPOR

                1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KPVDK6APVD     0     071YHN41432640W071254160W015000055        1800018000C    MNAR    THEODORE FRANCIS GREEN STATE

                1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KPVDK6EWIPOR24ALB   010ALB  K6D 0V      IF                                                  18000
        SUSAP KPVDK6EWIPOR24ALB   020SHIGYK6EA0E    010TF                    14890300
        SUSAP KPVDK6EWIPOR24ALB   030PONEEK6EA0E    010TF                    14920111
        SUSAP KPVDK6EWIPOR24ALB   040NELIEK6EA0E    010TF                    14940281
        SUSAP KPVDK6EWIPOR24ALB   050WIPORK6EA0EE   010TF                    14150286
        SUSAP KPVDK6EWIPOR24HNK   010HNK  K6D 0V      IF                                                  18000
        SUSAP KPVDK6EWIPOR24HNK   020HINGZK6EA0E    010TF                    09700430
        SUSAP KPVDK6EWIPOR24HNK   030PONEEK6EA0E    010TF                    09760550
        SUSAP KPVDK6EWIPOR24HNK   040NELIEK6EA0E    010TF                    14940281
        SUSAP KPVDK6EWIPOR24HNK   050WIPORK6EA0EE   010TF                    14150286
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(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
WIPOR RNAV	TWO	WIPOR.WIPOR2	ONE	5/31/12	

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SUSAP KPVDK6EWIPOR25      010WIPORK6EA0E      IF                                          18000
SUSAP KPVDK6EWIPOR25      020ORW  K6D 0V   010TF                  14180100
SUSAP KPVDK6EWIPOR25      030SAUGYK6EA0EE  010TF                  12910098
SUSAP KPVDK6EWIPOR26RW05  010SAUGYK6EA0E      IF                                          18000
SUSAP KPVDK6EWIPOR26RW05  020LAFAYK6EA0EY   010TF                  12920039
SUSAP KPVDK6EWIPOR26RW05  030LAFAYK6EA0EE     FM SEY K6      354701891292    D
SUSAP KPVDK6EWIPOR26RW16  010SAUGYK6EA0E      IF                                          18000
SUSAP KPVDK6EWIPOR26RW16  020WAWIKK6EA0E    010TF                  05540103
SUSAP KPVDK6EWIPOR26RW16  030SEABEK6EA0E    010TF                  04850115
SUSAP KPVDK6EWIPOR26RW16  040NOSUHK6EA0EY   010TF                  04720038
SUSAP KPVDK6EWIPOR26RW16  050NOSUHK6EA0EE     FM SEY K6      022004020485    D
SUSAP KPVDK6EWIPOR26RW23  010SAUGYK6EA0E      IF                                          18000
SUSAP KPVDK6EWIPOR26RW23  020WAWIKK6EA0E    010TF                  05540103
SUSAP KPVDK6EWIPOR26RW23  030SEABEK6EA0E    010TF                  04850115
SUSAP KPVDK6EWIPOR26RW23  040NOSUHK6EA0EY   010TF                  04720038
SUSAP KPVDK6EWIPOR26RW23  050NOSUHK6EA0EE     FM SEY K6      022004020485    D
SUSAP KPVDK6EWIPOR26RW34  010SAUGYK6EA0E      IF                                          18000
SUSAP KPVDK6EWIPOR26RW34  020LAFAYK6EA0EY   010TF                  12920039
SUSAP KPVDK6EWIPOR26RW34  030LAFAYK6EA0EE     FM SEY K6      354701891292    D
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            1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  1234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------------------
SUSAP KPVDK6GRW05    0071660472 N41424977W071260585-0100    -0014300051000059150IIPVD3
SUSAP KPVDK6GRW16    0060811566 N41434958W071255120-0400    -0013300054056550150R
SUSAP KPVDK6GRW23    0071662272 N41434970W071251554+0100    -0016200044000051150IIARJ1
SUSAP KPVDK6GRW34    0060813366 N41430688W071250599+0400    -0020800030000055150IIUNQ1
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(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
WIPOR RNAV	TWO	WIPOR.WIPOR2	ONE	5/31/12	

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
	ALB	ALB	010		IF		FB					
	ALB	SHIGY	020		TF		FB	1.0	148.9()	030.0		
	ALB	PONEE	030		TF		FB	1.0	149.2()	011.1		
	ALB	NELIE	040		TF		FB	1.0	149.4()	028.1		
	ALB	WIPOR	050		TF		FB	1.0	141.5()	028.6		
	HNK	HNK	010		IF		FB					
	HNK	HINGZ	020		TF		FB	1.0	097.0()	043.0		
	HNK	PONEE	030		TF		FB	1.0	097.6()	055.0		
	HNK	NELIE	040		TF		FB	1.0	149.4()	028.1		
	HNK	WIPOR	050		TF		FB	1.0	141.5()	028.6		
		WIPOR	010		IF		FB					
		ORW	020		TF		FB	1.0	141.8()	010.0		
		SAUGY	030		TF		FB	1.0	129.1()	009.8		
	RW05	SAUGY	010		IF		FB					
	RW05	LAFAY	020		TF		FO	1.0	129.2()	003.9		
	RW05	LAFAY	030		FM		FB		129.2()			
	RW16	SAUGY	010		IF		FB					
	RW16	WAWIK	020		TF		FB	1.0	055.4()	010.3		
	RW16	SEABE	030		TF		FB	1.0	048.5()	011.5		
	RW16	NOSUH	040		TF		FO	1.0	047.2()	003.8		
	RW16	NOSUH	050		FM		FB		048.5()			
	RW23	SAUGY	010		IF		FB					
	RW23	WAWIK	020		TF		FB	1.0	055.4()	010.3		
	RW23	SEABE	030		TF		FB	1.0	048.5()	011.5		
	RW23	NOSUH	040		TF		FO	1.0	047.2()	003.8		
	RW23	NOSUH	050		FM		FB		048.5()			
	RW34	SAUGY	010		IF		FB					
	RW34	LAFAY	020		TF		FO	1.0	129.2()	003.9		
	RW34	LAFAY	030		FM		FB		129.2()			

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	ALB	N424450.21	W0734811.46	N4244.837	W07348.191
	HNK	N420347.01	W0751858.62	N4203.784	W07518.977
	ORW	N413323.05	W0715957.67	N4133.384	W07159.961
	SEY	N411002.77	W0713433.91	N4110.046	W07134.565
	HINGZ	N420931.81	W0742144.08	N4209.530	W07421.735
	LAFAY	N412745.22	W0714316.43	N4127.754	W07143.274

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
WIPOR RNAV	TWO	WIPOR.WIPOR2	ONE	5/31/12	

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NELIE	N415627.64	W0724118.88	N4156.461	W07241.315
NOSUH	N414957.59	W0712759.91	N4149.960	W07127.999
PONEE	N421611.14	W0730815.74	N4216.186	W07308.262
SAUGY	N412922.03	W0714801.95	N4129.367	W07148.033
SEABE	N414644.52	W0713042.26	N4146.742	W07130.704
SHIGY	N422357.95	W0731900.98	N4223.966	W07319.016
WAWIK	N413711.58	W0713909.45	N4137.193	W07139.158
WIPOR	N413923.07	W0721037.67	N4139.385	W07210.628
RW05	N414249.77	W0712605.85	N4142.830	W07126.098
RW16	N414349.58	W0712551.20	N4143.826	W07125.853
RW23	N414349.70	W0712515.54	N4143.828	W07125.259
RW34	N414306.88	W0712505.99	N4143.115	W07125.100

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW05	00051	59
RW16	00054	50
RW23	00044	51
RW34	00030	55

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
WIPOR RNAV	TWO	WIPOR.WIPOR2	ONE	5/31/12	

US Department of Transportation
Federal Aviation Administration

STAR (Data Record)

ARINC PACKET - 424-18 - STAR

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NAVAID  12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
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        SUSAD        HNK   K6011680VDHA N42034701W075185862    N42034701W075185862W0110020702     NARHANCOCK
        SUSAD        ORW   K6011000VDL  N41332305W071595767    N41332305W071595767W0140003101     NARNORWICH
        SUSAD        SEY   K6011780VDLW N41100277W071343391    N41100277W071343391W0150001001     NARSANDY POINT

                1         2         3         4         5         6         7         8         9         0         1         2         3
WP      12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   HINGZ K60    W     N42093181W074214408                    W0133     NAR          HINGZ
        SUSAEAENRT   NELIE K60    C   B N41562764W072411888                    W0141     NAR          NELIE
        SUSAEAENRT   NOSUH K60    W     N41495759W071275991                    W0147     NAR          NOSUH
        SUSAEAENRT   PONEE K60    C   H N42161114W073081574                    W0140     NAR          PONEE
        SUSAEAENRT   SAUGY K60    W     N41292203W071480195                    W0144     NAR          SAUGY
        SUSAEAENRT   SEABE K60    W     N41464452W071304226                    W0146     NAR          SEABE
        SUSAEAENRT   SHIGY K60    C   B N42235795W073190098                    W0139     NAR          SHIGY
        SUSAEAENRT   WAWIK K60    W     N41371158W071390945                    W0145     NAR          WAWIK
        SUSAEAENRT   WIPOR K60    C   L N41392307W072103767                    W0143     NAR          WIPOR

                1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
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                1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KSFZK6EWIPOR24ALB   010ALB  K6D 0V      IF                                                  18000
        SUSAP KSFZK6EWIPOR24ALB   020SHIGYK6EA0E    010TF                   14890300
        SUSAP KSFZK6EWIPOR24ALB   030PONEEK6EA0E    010TF                   14920111
        SUSAP KSFZK6EWIPOR24ALB   040NELIEK6EA0E    010TF                   14940281
        SUSAP KSFZK6EWIPOR24ALB   050WIPORK6EA0EE   010TF                   14150286
        SUSAP KSFZK6EWIPOR24HNK   010HNK  K6D 0V      IF                                                  18000
        SUSAP KSFZK6EWIPOR24HNK   020HINGZK6EA0E    010TF                   09700430
        SUSAP KSFZK6EWIPOR24HNK   030PONEEK6EA0E    010TF                   09760550
        SUSAP KSFZK6EWIPOR24HNK   040NELIEK6EA0E    010TF                   14940281
        SUSAP KSFZK6EWIPOR24HNK   050WIPORK6EA0EE   010TF                   14150286
        SUSAP KSFZK6EWIPOR25ALL   010WIPORK6EA0E      IF                                                  18000
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(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
WIPOR RNAV	TWO	WIPOR.WIPOR2	ONE	5/31/12	

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```
        SUSAP KSFZK6EWIPOR25ALL   020ORW  K6D 0V    010TF                   14180100
        SUSAP KSFZK6EWIPOR25ALL   030SAUGYK6EA0E    010TF                   12910098
        SUSAP KSFZK6EWIPOR25ALL   040WAWIKK6EA0E    010TF                   05540103
        SUSAP KSFZK6EWIPOR25ALL   050SEABEK6EA0E    010TF                   04850115
        SUSAP KSFZK6EWIPOR25ALL   060NOSUHK6EA0EY   010TF                   04720038
        SUSAP KSFZK6EWIPOR25ALL   070NOSUHK6EA0EE      FM SEY K6      022004020485    D

                  1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
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        SUSAP KSFZK6GRW15     0032111545 N41551720W071294544+0500     +010030042600003507 5V
        SUSAP KSFZK6GRW23     0050002271 N41554175W071290985+0000     +009830041900003510 0R
        SUSAP KSFZK6GRW33     0032113345 N41545308W071291786-0500     +010480044000005007 5D
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(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
WIPOR RNAV	TWO	WIPOR.WIPOR2	ONE	5/31/12	

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
	ALB	ALB	010		IF		FB					
	ALB	SHIGY	020		TF		FB	1.0	148.9()	030.0		
	ALB	PONEE	030		TF		FB	1.0	149.2()	011.1		
	ALB	NELIE	040		TF		FB	1.0	149.4()	028.1		
	ALB	WIPOR	050		TF		FB	1.0	141.5()	028.6		
	HNK	HNK	010		IF		FB					
	HNK	HINGZ	020		TF		FB	1.0	097.0()	043.0		
	HNK	PONEE	030		TF		FB	1.0	097.6()	055.0		
	HNK	NELIE	040		TF		FB	1.0	149.4()	028.1		
	HNK	WIPOR	050		TF		FB	1.0	141.5()	028.6		
	ALL	WIPOR	010		IF		FB					
	ALL	ORW	020		TF		FB	1.0	141.8()	010.0		
	ALL	SAUGY	030		TF		FB	1.0	129.1()	009.8		
	ALL	WAWIK	040		TF		FB	1.0	055.4()	010.3		
	ALL	SEABE	050		TF		FB	1.0	048.5()	011.5		
	ALL	NOSUH	060		TF		FO	1.0	047.2()	003.8		
	ALL	NOSUH	070		FM		FB		048.5()			

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	ALB	N424450.21	W0734811.46	N4244.837	W07348.191
	HNK	N420347.01	W0751858.62	N4203.784	W07518.977
	ORW	N413323.05	W0715957.67	N4133.384	W07159.961
	SEY	N411002.77	W0713433.91	N4110.046	W07134.565
	HINGZ	N420931.81	W0742144.08	N4209.530	W07421.735
	NELIE	N415627.64	W0724118.88	N4156.461	W07241.315
	NOSUH	N414957.59	W0712759.91	N4149.960	W07127.999
	PONEE	N421611.14	W0730815.74	N4216.186	W07308.262
	SAUGY	N412922.03	W0714801.95	N4129.367	W07148.033
	SEABE	N414644.52	W0713042.26	N4146.742	W07130.704
	SHIGY	N422357.95	W0731900.98	N4223.966	W07319.016
	WAWIK	N413711.58	W0713909.45	N4137.193	W07139.158
	WIPOR	N413923.07	W0721037.67	N4139.385	W07210.628
	RW05	N415459.88	W0712944.97	N4154.998	W07129.750
	RW15	N415517.20	W0712945.44	N4155.287	W07129.757
	RW23	N415541.75	W0712909.85	N4155.696	W07129.164
	RW33	N415453.08	W0712917.86	N4154.885	W07129.298

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
WIPOR RNAV	TWO	WIPOR.WIPOR2	ONE	5/31/12	

FAA Form 7100-3 (9/02)

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW05	00419	52
RW15	00426	35
RW23	00419	35
RW33	00440	50

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
WIPOR RNAV	TWO	WIPOR.WIPOR2	ONE	5/31/12	

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        ALB   K6011530VTL  N42445021W073481146    N42445021W073481146W0130002741     NARALBANY
        SUSAD        HNK   K6011680VDHA N42034701W075185862    N42034701W075185862W0110020702     NARHANCOCK
        SUSAD        ORW   K6011000VDL  N41332305W071595767    N41332305W071595767W0140003101     NARNORWICH
        SUSAD        SEY   K6011780VDLW N41100277W071343391    N41100277W071343391W0150001001     NARSANDY POINT

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   HINGZ K60    W      N42093181W074214408                    W0133     NAR          HINGZ
        SUSAEAENRT   LAFAY K60    C    L N41274522W071431643                    W0144     NAR          LAFAY
        SUSAEAENRT   NELIE K60    C    B N41562764W072411888                    W0141     NAR          NELIE
        SUSAEAENRT   PONEE K60    C    H N42161114W073081574                    W0140     NAR          PONEE
        SUSAEAENRT   SAUGY K60    W      N41292203W071480195                    W0144     NAR          SAUGY
        SUSAEAENRT   SHIGY K60    C    B N42235795W073190098                    W0139     NAR          SHIGY
        SUSAEAENRT   WIPOR K60    C    L N41392307W072103767                    W0143     NAR          WIPOR

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KUUUK6AUUU     0     029YHN41315678W071165356W015000172          1800018000C    MNAR    NEWPORT STATE

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KUUUK6EWIPOR24ALB   010ALB  K6D 0V      IF                                                  18000
        SUSAP KUUUK6EWIPOR24ALB   020SHIGYK6EA0E    010TF                    14890300
        SUSAP KUUUK6EWIPOR24ALB   030PONEEK6EA0E    010TF                    14920111
        SUSAP KUUUK6EWIPOR24ALB   040NELIEK6EA0E    010TF                    14940281
        SUSAP KUUUK6EWIPOR24ALB   050WIPORK6EA0EE   010TF                    14150286
        SUSAP KUUUK6EWIPOR24HNK   010HNK  K6D 0V      IF                                                  18000
        SUSAP KUUUK6EWIPOR24HNK   020HINGZK6EA0E    010TF                    09700430
        SUSAP KUUUK6EWIPOR24HNK   030PONEEK6EA0E    010TF                    09760550
        SUSAP KUUUK6EWIPOR24HNK   040NELIEK6EA0E    010TF                    14940281
        SUSAP KUUUK6EWIPOR24HNK   050WIPORK6EA0EE   010TF                    14150286
        SUSAP KUUUK6EWIPOR25ALL   010WIPORK6EA0E      IF                                                  18000
        SUSAP KUUUK6EWIPOR25ALL   020ORW  K6D 0V    010TF                    14180100
        SUSAP KUUUK6EWIPOR25ALL   030SAUGYK6EA0E    010TF                    12910098
```

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
WIPOR RNAV	TWO	WIPOR.WIPOR2	ONE	5/31/12	

FAA Form 7100-3 (9/02)

US Department of Transportation
Federal Aviation Administration

STAR (Data Record)

```
SUSAP KUUUK6EWIPOR25ALL   040LAFAYK6EA0EY   010TF                    12920039
SUSAP KUUUK6EWIPOR25ALL   050LAFAYK6EA0EE      FM SEY K6      354701891292    D

                1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KUUUK6GRW04    0029990388 N41313930W071165900+0800    +00151001480000051075V
        SUSAP KUUUK6GRW16    0026231585 N41321170W071170669+0600    +00144001460000040075R
        SUSAP KUUUK6GRW22    0029992188 N41320640W071164308-0800    +00223001720000030075VIOTI0
        SUSAP KUUUK6GRW34    0026233385 N41315086W071164619-0600    +00193001620000050075D
```

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
WIPOR RNAV	TWO	WIPOR.WIPOR2	ONE	5/31/12	

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
	ALB	ALB	010		IF		FB					
	ALB	SHIGY	020		TF		FB	1.0	148.9()	030.0		
	ALB	PONEE	030		TF		FB	1.0	149.2()	011.1		
	ALB	NELIE	040		TF		FB	1.0	149.4()	028.1		
	ALB	WIPOR	050		TF		FB	1.0	141.5()	028.6		
	HNK	HNK	010		IF		FB					
	HNK	HINGZ	020		TF		FB	1.0	097.0()	043.0		
	HNK	PONEE	030		TF		FB	1.0	097.6()	055.0		
	HNK	NELIE	040		TF		FB	1.0	149.4()	028.1		
	HNK	WIPOR	050		TF		FB	1.0	141.5()	028.6		
	ALL	WIPOR	010		IF		FB					
	ALL	ORW	020		TF		FB	1.0	141.8()	010.0		
	ALL	SAUGY	030		TF		FB	1.0	129.1()	009.8		
	ALL	LAFAY	040		TF		FO	1.0	129.2()	003.9		
	ALL	LAFAY	050		FM		FB		129.2()			

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	ALB	N424450.21	W0734811.46	N4244.837	W07348.191
	HNK	N420347.01	W0751858.62	N4203.784	W07518.977
	ORW	N413323.05	W0715957.67	N4133.384	W07159.961
	SEY	N411002.77	W0713433.91	N4110.046	W07134.565
	HINGZ	N420931.81	W0742144.08	N4209.530	W07421.735
	LAFAY	N412745.22	W0714316.43	N4127.754	W07143.274
	NELIE	N415627.64	W0724118.88	N4156.461	W07241.315
	PONEE	N421611.14	W0730815.74	N4216.186	W07308.262
	SAUGY	N412922.03	W0714801.95	N4129.367	W07148.033
	SHIGY	N422357.95	W0731900.98	N4223.966	W07319.016
	WIPOR	N413923.07	W0721037.67	N4139.385	W07210.628
	RW04	N413139.30	W0711659.00	N4131.655	W07116.983
	RW16	N413211.70	W0711706.69	N4132.195	W07117.112
	RW22	N413206.40	W0711643.08	N4132.107	W07116.718
	RW34	N413150.86	W0711646.19	N4131.848	W07116.770

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW04	00148	51

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
WIPOR RNAV	TWO	WIPOR.WIPOR2	ONE	5/31/12	

FAA Form 7100-3 (9/02)

RW16	00146	40
RW22	00172	30
RW34	00162	50

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
WIPOR RNAV	TWO	WIPOR.WIPOR2	ONE	5/31/12	

RADIO FIX AND HOLDING DATA RECORD

NAME: NOSUH **STATE:** RI **COUNTRY:** US

LATITUDE/LONGITUDE: 414957.59N/0712759.91W **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 (RNP) Y RWY 23			KPVD	PROVIDENCE	RI (US)
STAR	WIPOR (RNAV)			KEWB	NEW BEDFORD	MA (US)
STAR	WIPOR (RNAV)			KUUU	NEWPORT	RI (US)
STAR	WIPOR (RNAV)			KOQU	NORTH KINGSTOWN	RI (US)
STAR	WIPOR (RNAV)			KSFZ	PAWTUCKET	RI (US)
STAR	WIPOR (RNAV)			KPVD	PROVIDENCE	RI (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
FIX MOVED 22 FT WEST FOR RNP PLACEMENT ON THE 2.5 NM ARC.

DEVELOPED BY: **DATE:** 04/12/2012 **OFFICE:** AJV-352 **NAME:** RONALD SALPINO

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

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: SEABE **STATE:** RI **COUNTRY:** US

LATITUDE/LONGITUDE: 414644.52N/0713042.26W **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 (RNP) Y RWY 23			KPVD	PROVIDENCE	RI (US)
STAR	WIPOR (RNAV)			KEWB	NEW BEDFORD	MA (US)
STAR	WIPOR (RNAV)			KUUU	NEWPORT	RI (US)
STAR	WIPOR (RNAV)			KOQU	NORTH KINGSTOWN	RI (US)
STAR	WIPOR (RNAV)			KSFZ	PAWTUCKET	RI (US)
STAR	WIPOR (RNAV)			KPVD	PROVIDENCE	RI (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
1. FIX MOVED 0.2 NM SOUTHWEST TO ACHIEVE DESCENT GRADIENT.
2. ADDED IAP TO CHART/PUB

DEVELOPED BY: **DATE:** 04/12/2012 **OFFICE:** AJV-352 **NAME:** RONALD SALPINO

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

SIGNATURE:

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

QUALITY 3 CHECKED

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: ALBANY VORTAC **STATE:** NY **COUNTRY:** US

LATITUDE/LONGITUDE: 424450.21N/0734811.46W **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	ALBANY	ALB	VORTAC	L							45000

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	ALB	VORTAC	283.00	103.00	R	1		4000	6000	4	5

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	310	TOWER (36-002290)	423731.00N/0740037.00W	2280	5E
1	200	AAO	424330.00N/0740115.00W	821	4E

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 3400.
(MINIMUM ALTITUDE CHOSEN REFERENCE AIRSPACE EVALUATION).

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ALL APPLICABLE ESV'S ON FILE IN ESVMS. NOT LISTED DUE TO IFP LIMITATIONS.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BANGOR			KBGR	BANGOR	ME (US)
DP	ALBANY			KALB	ALBANY	NY (US)
DP	BURLINGTON			KBTV	BURLINGTON	VT (US)
EN ROUTE	J16					(US)
EN ROUTE	J190					(US)
EN ROUTE	J37					(US)
EN ROUTE	J49					(US)
EN ROUTE	J563					(US)
EN ROUTE	J570					(US)
EN ROUTE	J6					(US)
EN ROUTE	J82					(US)
EN ROUTE	J94					(US)
EN ROUTE	T300					(US)
EN ROUTE	V123					(US)
EN ROUTE	V130					(US)
EN ROUTE	V14					(US)
EN ROUTE	V146					(US)
EN ROUTE	V157					(US)
EN ROUTE	V2					(US)
EN ROUTE	V203					(US)
EN ROUTE	V213					(US)
EN ROUTE	V44					(US)
EN ROUTE	V449					(US)
EN ROUTE	V489					(US)
EN ROUTE	V542					(US)
EN ROUTE	V91					(US)
IAP	ILS OR LOC RWY 01			KALB	ALBANY	NY (US)
IAP	ILS OR LOC RWY 19			KALB	ALBANY	NY (US)
IAP	ILS RWY 01 (SA CAT II)			KALB	ALBANY	NY (US)
IAP	VOR RWY 28		1	KALB	ALBANY	NY (US)
IAP	RNAV (GPS) RWY 05			K5B2	SARATOGA SPRINGS	NY (US)
IAP	ILS OR LOC RWY 4			KSCH	SCHENECTADY	NY (US)
IAP	NDB RWY 22			KSCH	SCHENECTADY	NY (US)
IAP	RNAV (GPS) RWY 04			KSCH	SCHENECTADY	NY (US)
IAP	RNAV (GPS) RWY 28			KSCH	SCHENECTADY	NY (US)
STAR	BRIDGEPORT			KBDR	BRIDGEPORT	CT (US)
STAR	DENNA			KBDR	BRIDGEPORT	CT (US)
STAR	VALRE			KDXR	DANBURY	CT (US)
STAR	STELA			KHFD	HARTFORD	CT (US)
STAR	STELA			KBDL	WINDSOR LOCKS	CT (US)
STAR	HYPER (RNAV)			KIAD	WASHINGTON	DC (US)
STAR	GARDNER			KBOS	BOSTON	MA (US)
STAR	QUABN (RNAV)			KBOS	BOSTON	MA (US)
STAR	WIPOR (RNAV)			KEWB	NEW BEDFORD	MA (US)
STAR	STELA			KCEF	SPRINGFIELD/CHICOPEE	MA (US)
STAR	STELA			KBAF	WESTFIELD/SPRINGFIELD	MA (US)
STAR	STELA			KORH	WORCESTER	MA (US)
STAR	POPPP			KMHT	MANCHESTER	NH (US)
STAR	FLOSI (RNAV)			KEWR	NEWARK	NJ (US)

QUALITY CHECKED

STAR	SHAFF	KEWR	NEWARK	NJ (US)
STAR	LOVES	KISP	NEW YORK	NY (US)
STAR	NELIE (RNAV)	KISP	NEW YORK	NY (US)
STAR	PAWLING	KJFK	NEW YORK	NY (US)
STAR	HAARP	KLGA	NEW YORK	NY (US)
STAR	NOBBI	KLGA	NEW YORK	NY (US)
STAR	NELIE (RNAV)	KFOK	WESTHAMPTON BEACH	NY (US)
STAR	VALRE	KHPN	WHITE PLAINS	NY (US)
STAR	WIPOR (RNAV)	KUUU	NEWPORT	RI (US)
STAR	WIPOR (RNAV)	KOQU	NORTH KINGSTOWN	RI (US)
STAR	WIPOR (RNAV)	KSFZ	PAWTUCKET	RI (US)
STAR	WIPOR (RNAV)	KPVD	PROVIDENCE	RI (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 11 **DATE OF REVISION:** 06/30/2011

REASON FOR REVISION:
UPDATED FACILITY COORDINATES, NEW SURVEY INFORMATION CAUSED LOCATION CHANGE OF 3.15 FEET.
UPDATED FIX USE.
UPDATED HOLDING PATTERN OBSTACLE INFORMATION.
UPDATED UNPLANNED HOLDING DOCUMENTATION.
UPDATED FORMAT TO CURRENT CRITERIA.

DEVELOPED BY: **DATE:** 02/10/2011 **OFFICE:** AVN-110 **NAME:** ANDI LAU

APPROVED BY: **DATE:** 05/04/2011 **OFFICE:** AVN-110 **NAME:** DARRYEL ADAMS

SIGNATURE:

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

QUALITY CHECKED

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

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

LATITUDE/LONGITUDE: 420347.01N/0751858.62W **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	HANCOCK	HNK	VOR/DME	H							45000

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	NW	HNK	VOR/DME	313.06	133.06	R	1 1/2		18000	41000	16	28

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	265	AAO	420630.00N/0750857.00W	2714	4E

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
HOLD PAT 1 USED FOR ATC FLOW CONTROL/DO NOT PUBLISH ON HIGH ENROUTE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ALBANY			KALB	ALBANY	NY (US)
DP	STEWART			KSWF	NEWBURGH	NY (US)
DP	DUTCHESS			KPOU	POUGHKEEPSIE	NY (US)
DP	XEROX			KROC	ROCHESTER	NY (US)
EN ROUTE	J217					(US)
EN ROUTE	J49					(US)
EN ROUTE	J522		1			(US)
EN ROUTE	J63					(US)
EN ROUTE	J68					(US)
EN ROUTE	V167					(US)
EN ROUTE	V273					(US)
EN ROUTE	V34					(US)
EN ROUTE	V34-292					(US)
EN ROUTE	V576					(US)
IAP	ILS OR LOC RWY 34			KBGM	BINGHAMTON	NY (US)
IAP	RNAV (GPS) RWY 28			KBGM	BINGHAMTON	NY (US)
IAP	VOR/DME RWY 28			KBGM	BINGHAMTON	NY (US)
IAP	ILS OR LOC RWY 15			KMSV	MONTICELLO	NY (US)
IAP	RNAV (GPS) RWY 7			KN23	SIDNEY	NY (US)
STAR	STELA			KHFD	HARTFORD	CT (US)
STAR	STELA			KBDL	WINDSOR LOCKS	CT (US)
STAR	WIPOR (RNAV)			KEWB	NEW BEDFORD	MA (US)
STAR	STELA			KCEF	SPRINGFIELD/CHICOPEE	MA (US)
STAR	STELA			KBAF	WESTFIELD/SPRINGFIELD	MA (US)
STAR	STELA			KORH	WORCESTER	MA (US)
STAR	FLOSI (RNAV)			KEWR	NEWARK	NJ (US)
STAR	SHAFF			KEWR	NEWARK	NJ (US)
STAR	NELIE (RNAV)			KISP	ISLIP	NY (US)
STAR	NELIE (RNAV)			KFOK	WESTHAMPTON BEACH	NY (US)
STAR	SLATT			KPHL	PHILADELPHIA	PA (US)
STAR	WIPOR (RNAV)			KUUU	NEWPORT	RI (US)
STAR	WIPOR (RNAV)			KOQU	NORTH KINGSTOWN	RI (US)
STAR	WIPOR (RNAV)			KSFZ	PAWTUCKET	RI (US)
STAR	WIPOR (RNAV)			KPVD	PROVIDENCE	RI (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6 **DATE OF REVISION:** 03/11/2010

REASON FOR REVISION:
UPDATED FIX USE.
UPDATED TO CURRENT DOCUMENTATION REQUIREMENTS.

DEVELOPED BY: **DATE:** 06/08/2009 **OFFICE:** AVN-110 **NAME:** ANDI LAU

QUALITY CHECKED

APPROVED BY: **DATE:** 01/14/2010 **OFFICE:** AVN-110 **NAME:** PETER GETZ

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZBW, ZNY
ATC FACILITY: BGM APP CON
OTHER: NY APP CON

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: HINGZ **STATE:** NY **COUNTRY:** US

LATITUDE/LONGITUDE: 420931.81N/0742144.08W **TYPE:** WP

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

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

REMARKS:
FIX NAMED CHANGED FROM PROVI TO HINGZ

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	WIPOR (RNAV)			KEWB	NEW BEDFORD	MA (US)
STAR	NELIE (RNAV)			KISP	NEW YORK	NY (US)
STAR	NELIE (RNAV)			KFOK	WESTHAMPTON BEACH	NY (US)
STAR	WIPOR (RNAV)			KUUU	NEWPORT	RI (US)
STAR	WIPOR (RNAV)			KOQU	NORTH KINGSTOWN	RI (US)
STAR	WIPOR (RNAV)			KSFZ	PAWTUCKET	RI (US)
STAR	WIPOR (RNAV)			KPVD	PROVIDENCE	RI (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 01/10/2013

REASON FOR REVISION:
FIX NAME CHANGED FROM PROVI TO HINGZ PER ATC REQUEST.

DEVELOPED BY: **DATE:** 07/16/2012 **OFFICE:** AJV-351 **NAME:** STEVEN SZUKALA

APPROVED BY: **DATE:** **OFFICE:** AJV-351 **NAME:** SUE CRUMB

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZBW
ATC FACILITY:
OTHER:

QUALITY CHECKED

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: LAFAY **STATE:** RI **COUNTRY:** US

LATITUDE/LONGITUDE: 412745.22N/0714316.43W **TYPE:** WP, 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	NORWICH	ORW	VOR/DME	L	128.08	114.08	13.74	13.74		2000	17500
2	PROVIDENCE	PVD	VORTAC	H	234.00	220.00	20.46	20.46		2000	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	PVD	VORTAC	234.00	054.00	R	1		2100	14000	5	11
2	SW		WP	235.00	055.00	R		5	2100	10000	5	10

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (44-000122)	412941.77N/0714704.70W	1049	5D
2	200	TOWER (44-000122)	412941.77N/0714704.70W	1049	5D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
NORWICH (FAC 1) AND PROVIDENCE (FAC 2) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	T300					(US)
EN ROUTE	V130	1, 2				(US)
EN ROUTE	V139	1, 2	1			(US)
IAP	RNAV (GPS) RWY 23			KGON	GROTON (NEW LONDON)	CT (US)
IAP	ILS OR LOC RWY 5	1, 2		KPVD	PROVIDENCE	RI (US)
IAP	ILS RWY 5 (CAT II, III)	1, 2		KPVD	PROVIDENCE	RI (US)
IAP	RNAV (GPS) RWY 5			KPVD	PROVIDENCE	RI (US)
IAP	VOR RWY 5	1, 2		KPVD	PROVIDENCE	RI (US)
IAP	RNAV (GPS) RWY 7		2	KWST	WESTERLY	RI (US)
STAR	WIPOR (RNAV)			KEWB	NEW BEDFORD	MA (US)
STAR	WIPOR (RNAV)			KUUU	NEWPORT	RI (US)
STAR	WIPOR (RNAV)			KOQU	NORTH KINGSTOWN	RI (US)
STAR	WIPOR (RNAV)			KSFZ	PAWTUCKET	RI (US)
STAR	WIPOR (RNAV)			KPVD	PROVIDENCE	RI (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 10 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
DELETED FAC 3.
ADDED DIST FROM FACILITES ON FAC 1 AND 2.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 11/28/2011 **OFFICE:** AJV-351 **NAME:** TERENCE SHARP (SAMER MASSARUEH)

APPROVED BY: **DATE:** 05/07/2012 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

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

QUALITY CHECK

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: NELIE **STATE:** CT **COUNTRY:** US

LATITUDE/LONGITUDE: 415627.64N/0724118.88W **TYPE:** WP, 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	BOSTON	BOS	VOR/DME	H	268.34	252.34	79.84	79.84		18000	45000
2	CARMEL	CMK	VOR/DME	L	057.09	045.09		56.44		18000	45000
3	HAMPTON	HTO	VORTAC	H	357.81	344.81		63.55		18000	45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
CMK	VOR/DME	R-057	57	18000	45000

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

REMARKS:
BOSTON (FAC 1) AND CARMEL (FAC 2) AND HAMPTON (FAC 3) USED TO ESTABLISH FIX COORDINATES
FIX MOVED MORE THAN 1 NM.
NAME RETAINED PER ATC REQUEST DUE TO OPERATIONAL ADVANTAGE.

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	PATSS (RNAV)			KBOS	BOSTON	MA (US)
DP	WYLYY (RNAV)			KBOS	BOSTON	MA (US)
DP	LAWRENCE			KLWM	LAWRENCE	MA (US)
DP	NORWOOD			KOWD	NORWOOD	MA (US)
DP	NUBLE (RNAV)			KPWM	PORTLAND	ME (US)
DP	PPORT (RNAV)			KMHT	MANCHESTER	NH (US)
EN ROUTE	J75	1, 2, 3				(US)
EN ROUTE	T212					(US)
EN ROUTE	T255					(US)
EN ROUTE	T300					(US)
STAR	WIPOR (RNAV)			KEWB	NEW BEDFORD	MA (US)
STAR	FLOSI (RNAV)			KEWR	NEWARK	NJ (US)
STAR	NELIE (RNAV)			KISP	NEW YORK	NY (US)
STAR	NELIE (RNAV)			KFOK	WESTHAMPTON BEACH	NY (US)
STAR	WIPOR (RNAV)			KUUU	NEWPORT	RI (US)
STAR	WIPOR (RNAV)			KOQU	NORTH KINGSTOWN	RI (US)
STAR	WIPOR (RNAV)			KSFZ	PAWTUCKET	RI (US)
STAR	WIPOR (RNAV)			KPVD	PROVIDENCE	RI (US)

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

COMPULSORY REPORTING POINT: NO

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

REASON FOR REVISION:
ADDED DME TO FIX TYPE.
FIX MOVED 1.11NM NE.
UPDATED FAC 1, FAC 2, AND FAC 3 VALUES.
UPDATED CMK ESV.
UPDATED FIX USE AND REMARKS.
ADDED STAR TO REQUIRED CHARTING.

04/09/2012: THIS IS A CORRECTED COPY OF THE FORM DEVELOPED ON 11/28/2011.
1. ADDED ENROUTE LOW TO REQUIRED CHARTING.

DEVELOPED BY: **DATE:** 11/28/2011 **OFFICE:** AJV-352 **NAME:** KELLY DEAN

APPROVED BY: **DATE:** 05/07/2012 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

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

QUALITY CHECK

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: NORWICH VOR/DME **STATE:** CT **COUNTRY:** US

LATITUDE/LONGITUDE: 413323.05N/0715957.67W **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	NORWICH	ORW	VOR/DME	L							17500

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	S	ORW	VOR/DME	158.00	338.00	R	1		2600	6000	4	5
2	SW	ORW	VOR/DME	238.00	058.00	L	1-1 1/2		2500	17500	4	16
3	S		WP	158.00	338.00	R		4	2600	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (09-000114)	412739.00N/0715544.00W	793	1D
2	200	TOWER (09-000073)	413113.00N/0721001.00W	1000	2D
3	200	TOWER (09-000114)	412739.00N/0715544.00W	793	1D

REASON FOR NONSTANDARD HOLDING:
PAT 2 ATC REQUEST

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS
PAT 2 USED FOR KGON ILS OR LOC RWY 5 ALTERNATE MISSED APPROACH

REMARKS:
ORW VOR/DME CHARTED ON HIGH ENROUTE FOR REFERENCE ONLY.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BRADLEY			KBDL	WINDSOR LOCKS	CT (US)
DP	NUBLE (RNAV)			KPWM	PORTLAND	ME (US)
DP	PPORT (RNAV)			KMHT	MANCHESTER	NH (US)
EN ROUTE	T300					(US)
EN ROUTE	V130					(US)
EN ROUTE	V14					(US)
EN ROUTE	V16		2			(US)
EN ROUTE	V308					(US)
EN ROUTE	V475					(US)
IAP	ILS OR LOC RWY 5		2	KGON	GROTON/NEW LONDON	CT (US)
IAP	RNAV (GPS) RWY 23			KGON	GROTON/NEW LONDON	CT (US)
IAP	VOR RWY 23			KGON	GROTON/NEW LONDON	CT (US)
IAP	VOR RWY 5			KGON	GROTON/NEW LONDON	CT (US)
IAP	LDA RWY 2			KHFD	HARTFORD	CT (US)
IAP	VOR OR GPS-A			KHFD	HARTFORD	CT (US)
IAP	RNAV (GPS) RWY 27		3	KIJD	WILLIMANTIC	CT (US)
IAP	RNAV (GPS) RWY 9			KIJD	WILLIMANTIC	CT (US)
IAP	VOR-A		1	KIJD	WILLIMANTIC	CT (US)
IAP	ILS OR LOC RWY 33			KBDL	WINDSOR LOCKS	CT (US)
IAP	RNAV (GPS) RWY 33			KBDL	WINDSOR LOCKS	CT (US)
IAP	ILS OR LOC RWY 16			KOQU	NORTH KINGSTOWN	RI (US)
IAP	VOR RWY 34			KOQU	NORTH KINGSTOWN	RI (US)
IAP	LOC RWY 5			KSFZ	PAWTUCKET	RI (US)
IAP	RNAV (GPS) RWY 5			KSFZ	PAWTUCKET	RI (US)
IAP	VOR-A			KSFZ	PAWTUCKET	RI (US)
IAP	VOR-B			KSFZ	PAWTUCKET	RI (US)
IAP	ILS OR LOC RWY 23			KPVD	PROVIDENCE	RI (US)
IAP	ILS OR LOC RWY 5			KPVD	PROVIDENCE	RI (US)
IAP	ILS OR LOC/DME RWY 34			KPVD	PROVIDENCE	RI (US)
IAP	ILS RWY 5 (CAT II)			KPVD	PROVIDENCE	RI (US)
IAP	ILS RWY 5 (CAT III)			KPVD	PROVIDENCE	RI (US)
IAP	RNAV (GPS) RWY 5			KPVD	PROVIDENCE	RI (US)
IAP	VOR RWY 34			KPVD	PROVIDENCE	RI (US)
IAP	VOR RWY 5			KPVD	PROVIDENCE	RI (US)
IAP	VOR/DME RWY 16			KPVD	PROVIDENCE	RI (US)
IAP	VOR/DME RWY 23			KPVD	PROVIDENCE	RI (US)
IAP	VOR/DME RWY 34			KPVD	PROVIDENCE	RI (US)
IAP	LOC RWY 07			KWST	WESTERLY	RI (US)
STAR	DREEM (RNAV)			KBED	BEDFORD	MA (US)
STAR	GRAYM			KBED	BEDFORD	MA (US)
STAR	DREEM (RNAV)			KBVY	BEVERLY	MA (US)
STAR	GRAYM			KBVY	BEVERLY	MA (US)

QUALITY

STAR	KRANN (RNAV)		KBOS	BOSTON	MA (US)
STAR	NORWICH		KBOS	BOSTON	MA (US)
STAR	OOSHN (RNAV)		KBOS	BOSTON	MA (US)
STAR	SCUPP		KBOS	BOSTON	MA (US)
STAR	WOONS	2	KBOS	BOSTON	MA (US)
STAR	GRAYM		KFIT	FITCHBURG	MA (US)
STAR	DREEM (RNAV)		KLWM	LAWRENCE	MA (US)
STAR	GRAYM		KLWM	LAWRENCE	MA (US)
STAR	WOONS		K1B9	MANSFIELD	MA (US)
STAR	WOONS		KGHG	MARSHFIELD	MA (US)
STAR	DEEPO (RNAV)		KACK	NANTUCKET	MA (US)
STAR	NEWBE		KACK	NANTUCKET	MA (US)
STAR	WIPOR (RNAV)		KEWB	NEW BEDFORD	MA (US)
STAR	WOONS		KOWD	NORWOOD	MA (US)
STAR	NELIE (RNAV)		KISP	ISLIP	NY (US)
STAR	NELIE (RNAV)		KFOK	WESTHAMPTON BEACH	NY (US)
STAR	WIPOR (RNAV)		KUUU	NEWPORT	RI (US)
STAR	WIPOR (RNAV)		KOQU	NORTH KINGSTOWN	RI (US)
STAR	WIPOR (RNAV)		KSFZ	PAWTUCKET	RI (US)
STAR	WIPOR (RNAV)		KPVD	PROVIDENCE	RI (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 15 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
1. DELETED PAT 4.
2. CHANGED FAC 1 MAA FROM 45000 TO 17500.
3. UPDATED FIX USE.

DEVELOPED BY: **DATE:** 11/29/2011 **OFFICE:** AJV-352 **NAME:** DAVID SAUER

APPROVED BY: **DATE:** 04/02/2012 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZBW, ZNY
ATC FACILITY: PVD & NYC APP CON
OTHER:

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: PONEE **STATE:** MA **COUNTRY:** US

LATITUDE/LONGITUDE: 421611.14N/0730815.74W **TYPE:** WP, 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	HANCOCK	HNK	VOR/DME	H	093.00	082.00	97.99	97.99		18000	45000
2	ALBANY	ALB	VORTAC	L	146.90	133.90	41.14	41.14		18000	45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
ALB	VORTAC	R-147	42	18000	45000

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

REMARKS:
ALBANY (FAC 2) AND HANCOCK (FAC 1) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	J68	1, 2				(US)
STAR	WIPOR (RNAV)			KEWB	NEW BEDFORD	MA (US)
STAR	NELIE (RNAV)			KISP	ISLIP	NY (US)
STAR	NELIE (RNAV)			KFOK	WESTHAMPTON BEACH	NY (US)
STAR	WIPOR (RNAV)			KUUU	NEWPORT	RI (US)
STAR	WIPOR (RNAV)			KOQU	NORTH KINGSTOWN	RI (US)
STAR	WIPOR (RNAV)			KSFZ	PAWTUCKET	RI (US)
STAR	WIPOR (RNAV)			KPVD	PROVIDENCE	RI (US)

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
ADDED WP TO FIX TYPE.
ADDED DIST FROM FAC VALUES TO FAC 1 AND FAC 2.
ADDED ESV.
UPDATED FIX USE AND REMARKS.

DEVELOPED BY: **DATE:** 11/28/2011 **OFFICE:** AJV-352 **NAME:** KELLY DEAN

APPROVED BY: **DATE:** 05/07/2012 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZBW
ATC FACILITY:
OTHER:

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: SAUGY **STATE:** CT **COUNTRY:** US

LATITUDE/LONGITUDE: 412922.03N/0714801.95W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	WIPOR (RNAV)			KEWB	NEW BEDFORD	MA (US)
STAR	WIPOR (RNAV)			KUUU	NEWPORT	RI (US)
STAR	WIPOR (RNAV)			KOQU	NORTH KINGSTOWN	RI (US)
STAR	WIPOR (RNAV)			KSFZ	PAWTUCKET	RI (US)
STAR	WIPOR (RNAV)			KPVD	PROVIDENCE	RI (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 12/01/2011 **OFFICE:** AJV-352 **NAME:** DAVID SAUER

APPROVED BY: **DATE:** 04/02/2012 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

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

QUALITY CHECKED

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: SHIGY **STATE:** MA **COUNTRY:** US

LATITUDE/LONGITUDE: 422357.95N/0731900.98W **TYPE:** WP, 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	ALBANY	ALB	VORTAC	L	146.90	133.90	30.00	30.00		6000	39000
2	PAWLING	PWL	VOR/DME	L	030.45	018.45		39.83		6000	39000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
ALB	VORTAC	R-147	30	10000	39000
PWL	VOR/DME	R-030	40	18000	39000

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

REMARKS:
ALBANY (FAC 1) AND PAWLING (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	T300					(US)
EN ROUTE	V203	1, 2				(US)
STAR	STELA	1, 2		KHFD	HARTFORD	CT (US)
STAR	STELA	1, 2		KBDL	WINDSOR LOCKS	CT (US)
STAR	WIPOR (RNAV)			KEWB	NEW BEDFORD	MA (US)
STAR	STELA	1, 2		KCEF	SPRINGFIELD/CHICOPEE	MA (US)
STAR	STELA	1, 2		KBAF	WESTFIELD/SPRINGFIELD	MA (US)
STAR	STELA	1, 2		KORH	WORCESTER	MA (US)
STAR	NELIE (RNAV)			KISP	NEW YORK	NY (US)
STAR	NELIE (RNAV)			KFOK	WESTHAMPTON BEACH	NY (US)
STAR	WIPOR (RNAV)			KUUU	NEWPORT	RI (US)
STAR	WIPOR (RNAV)			KOQU	NORTH KINGSTOWN	RI (US)
STAR	WIPOR (RNAV)			KSFZ	PAWTUCKET	RI (US)
STAR	WIPOR (RNAV)			KPVD	PROVIDENCE	RI (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
1. ADDED FAC 1 AND 2 DIST FROM FAC IN NM.
2. ADDED ALB AND PWL ESV DATA.
3. UPDATED FIX USE.

03/16/2012: THIS IS AN YPDATED COPY OF THE FORM DEVELOPED ON 08/23/2011.
1. ADDED WP TO FIX TYPE.
2. ADDED TO REMARKS ALBANY (FAC 1) AND PAWLING (FAC 2) USED TO ESTABLISHED FIX COORDINATES.
3. UPDATED FIX USE.

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

APPROVED BY: **DATE:** 05/07/2012 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZBW
ATC FACILITY:
OTHER:

QUALITY CHECKED

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: WAWIK **STATE:** RI **COUNTRY:** US

LATITUDE/LONGITUDE: 413711.58N/0713909.45W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	WIPOR (RNAV)			KEWB	NEW BEDFORD	MA (US)
STAR	WIPOR (RNAV)			KUUU	NEWPORT	RI (US)
STAR	WIPOR (RNAV)			KOQU	NORTH KINGSTOWN	RI (US)
STAR	WIPOR (RNAV)			KSFZ	PAWTUCKET	RI (US)
STAR	WIPOR (RNAV)			KPVD	PROVIDENCE	RI (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 12/01/2011 **OFFICE:** AJV-352 **NAME:** DAVID SAUER

APPROVED BY: **DATE:** 04/02/2012 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

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

QUALITY CHECKED

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: WIPOR **STATE:** CT **COUNTRY:** US

LATITUDE/LONGITUDE: 413923.07N/0721037.67W **TYPE:** WP, 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	NORWICH	ORW	VOR/DME	L	320.91	306.91	10.00	10.00		2600	17500
2	HARTFORD	HFD	VOR/DME	L	099.72	086.72		16.68		2600	17500

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

REMARKS:
NORWICH (FAC 1) AND HARTFORD (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	T300					(US)
STAR	DREEM (RNAV)			KBED	BEDFORD	MA (US)
STAR	GRAYM			KBED	BEDFORD	MA (US)
STAR	DREEM (RNAV)			KBVY	BEVERLY	MA (US)
STAR	GRAYM			KBVY	BEVERLY	MA (US)
STAR	GRAYM			KFIT	FITCHBURG	MA (US)
STAR	DREEM (RNAV)			KLWM	LAWRENCE	MA (US)
STAR	GRAYM			KLWM	LAWRENCE	MA (US)
STAR	WIPOR (RNAV)			KEWB	NEW BEDFORD	MA (US)
STAR	NELIE (RNAV)			KISP	NEW YORK	NY (US)
STAR	PONEE	1		KISP	NEW YORK	NY (US)
STAR	NELIE (RNAV)			KFOK	WESTHAMPTON BEACH	NY (US)
STAR	WIPOR (RNAV)			KUUU	NEWPORT	RI (US)
STAR	WIPOR (RNAV)			KOQU	NORTH KINGSTOWN	RI (US)
STAR	WIPOR (RNAV)			KSFZ	PAWTUCKET	RI (US)
STAR	WIPOR (RNAV)			KPVD	PROVIDENCE	RI (US)

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 **DATE OF REVISION:** 12/15/2011

REASON FOR REVISION:
1. ADDED WP TO FIX TYPE.
2. ADDED FAC 1 AND 2 DIST FROM FAC IN NM.
3. LOWERED FAC 1 AND 2 MRA FROM 5000 TO 2600.
4. ADDED REMARK, NORWICH (FAC 1) AND HARTFORD (FAC 2) USED TO ESTABLISH FIX COORDINATES.
5. UPDATED FIX USE.

DEVELOPED BY: **DATE:** 06/24/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (DAVID SAUER)

APPROVED BY: **DATE:** 10/26/2011 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

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

QUALITY CHECKED

Name:	Joe Bellabona
Project Name:	Tie in fix RWY23
Output File:	STAR ALB LAFAY 20120413_0309
Software:	RNAV-Pro™
Version:	2.36
Date/Time:	4/13/2012 3:09:56 AM
Input File:	KWST WIPOR STAR ALB LAFAY 20120412_0153.txt
Databases:	AVNIS Date: 02/07/2012
	Obstacle Date: 08/26/2011
	NFD Date: 09/30/2010
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✓ **Please Check Flyability Results**
DME/DME	✓
Radars	✓
Comms	
TERPS	

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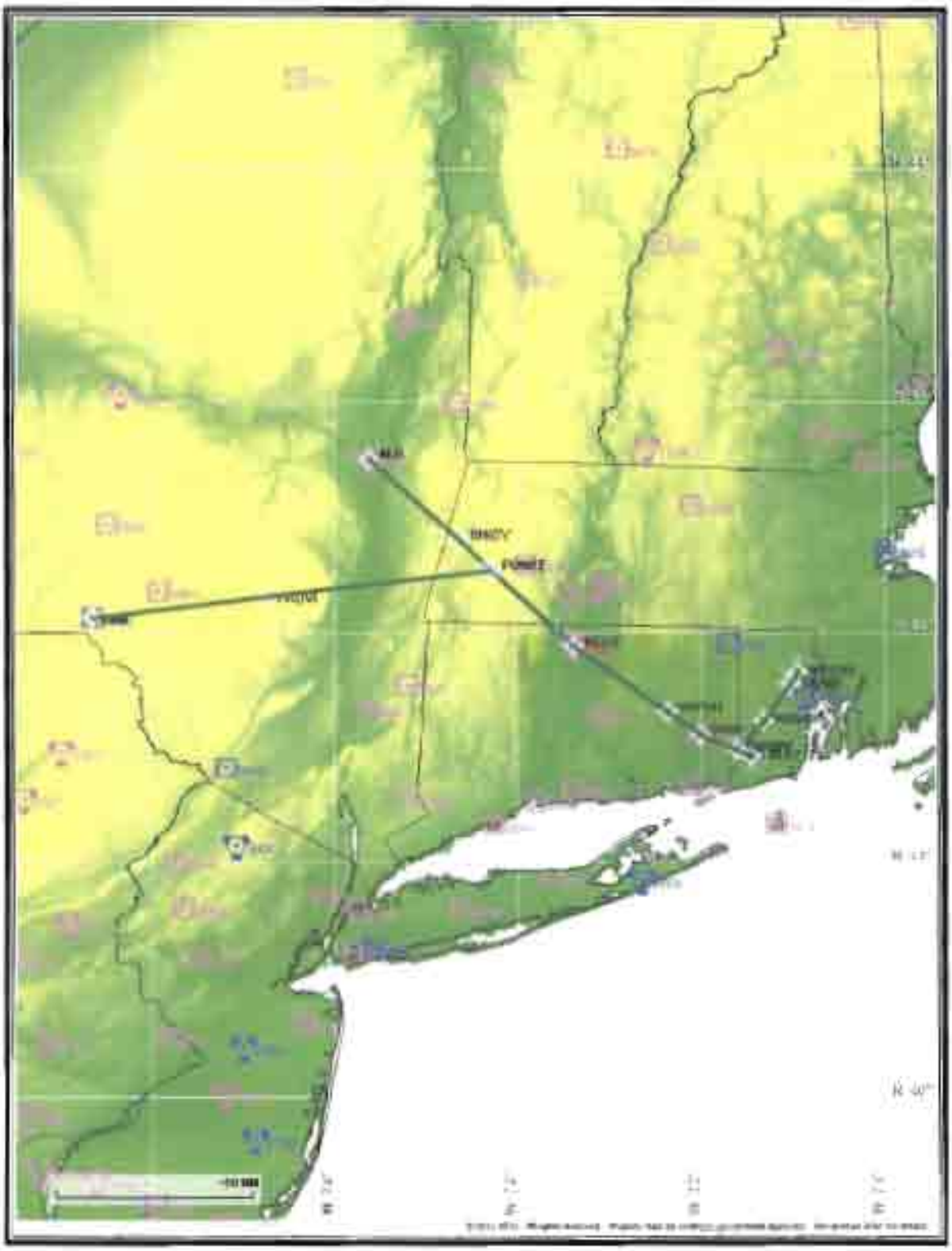


Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
ALB	WP	N 42° 44' 50.21" W 73° 48' 11.46"	18000.0	Step	275.0	Fly By	TF
SHIGY	WP	N 42° 23' 57.95" W 73° 19' 0.98"	18000.0	Step	275.0	Fly By	TF
PONEE	WP	N 42° 16' 11.14" W 73° 8' 15.74"	11000.0	Step	265.0	Fly By	TF
NELIE	WP	N 41° 56' 27.64" W 72° 41' 18.88"	10000.0	Step	250.0	Fly By	TF
WIPOR	WP	N 41° 39' 23.07" W 72° 10' 37.67"	9000.0	Step	250.0	Fly By	TF
ORW	WP	N 41° 33' 23.05" W 71° 59' 57.67"	6000.0	Step	220.0	Fly By	TF
SAUGY	WP	N 41° 29' 22.03" W 71° 48' 1.95"	3000.0	Step	220.0	Fly By	TF
LAFAY	WP	N 41° 27' 45.22" W 71° 43' 16.43"	3000.0	Step	220.0	Fly Over	TF

Flyability

Return To Summary

Settings:

Flight Type: Arrival
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

Aircraft ALTITUDE at Fly-By WP PONEE too high.

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: 15

Maximum DME Error: 0.574 NM

No Critical DMEs were found

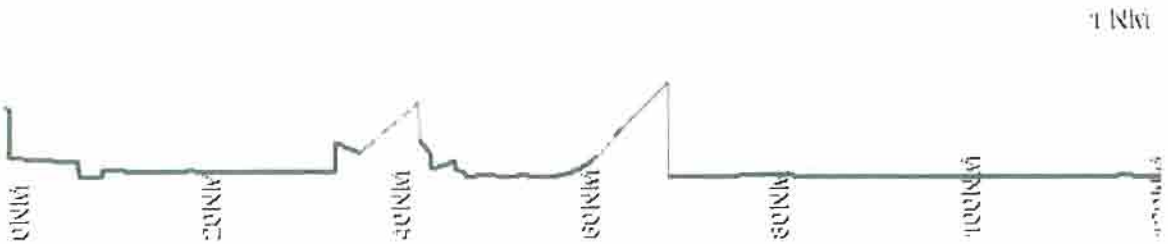
Available DMEs: CAM, HNK, HUO, PUT, ALB, CTR, BAF, PVD, HTO, PWL, HFD, ORW, MAD, GON, SEY

Disabled DMEs: BDL

Foreign DMEs within range: UTR, VLV, YCF, YJN, YOW, YSC, YUL, YXI

DME/DME (Continued.)

Return To Summary



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	HNK	N 42° 3' 47.01" W 75° 18' 58.62" W 11	H	Database	NO	0.674	Enabled	0.3 %	0.4 %
2	HUO	N 41° 24' 34.87" W 74° 35' 29.74" W 11	H	Database	NO	0.674	Enabled	21.8 %	25.8 %
3	PUT	N 41° 57' 19.66" W 71° 50' 38.74" W 14	H	Database	NO	0.780	Enabled	22.0 %	21.9 %
4	CAM	N 42° 59' 39.44" W 73° 20' 38.47" W 14	L	Database	NO	0.674	Enabled	2.3 %	2.7 %
5	CTR	N 42° 17' 28.75" W 72° 56' 57.82" W 13	L	Database	NO	0.735	Enabled	16.4 %	17.8 %
6	ALB	N 42° 44' 50.21" W 73° 48' 11.46" W 13	L	Database	NO	0.674	Enabled	10.6 %	12.5 %
7	HTO	N 40° 55' 8.38" W 72° 19' 0.14" W 13	H	Database	NO	0.674	Enabled	1.9 %	2.1 %
8	BAF	N 42° 9' 43.06" W 72° 42' 58.31" W 14	L	Database	NO	1.094	Enabled	21.4 %	20.0 %
9	PWL	N 41° 46' 11.18" W 73° 36' 1.99" W 12	L	Database	NO	0.674	Enabled	3.3 %	3.0 %
10	HFD	N 41° 38' 27.98" W 72° 32' 50.70" W 13	L	Database	NO	0.674	Enabled	22.9 %	21.1 %
11	MAD	N 41° 18' 49.81" W 72° 41' 31.89" W 13	L	Database	NO	0.674	Enabled	10.5 %	9.7 %
12	ORW	N 41° 33' 23.05" W 71° 59' 57.67" W 14	L	Database	NO	0.872	Enabled	13.2 %	12.2 %
13	GON	N 41° 19' 49.45" W 72° 3' 7.14" W 14	T	Database	NO	0.674	Enabled	12.1 %	11.1 %
14	PVD	N 41° 43' 27.64" W 71° 25' 46.67" W 14	H	Database	NO	0.674	Enabled	9.1 %	8.4 %
15	SEY	N 41° 10' 2.77" W 71° 34' 33.91" W 15	L	Database	NO	0.674	Enabled	9.8 %	9.0 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	HNK	HUO	PUT	CAM	CTR	ALB
10.1	ALB	HUO	PUT	CAM	CTR	BAF
30.0	ALB	HUO	HTO	BAF	CTR	PVD
41.2	HFD	ORW	PWL	BAF	CTR	
68.9	HFD	ORW	PUT	BAF	MAD	CTR
97.9	HFD	GON	PVD	SEY	MAD	PUT

DME/DME (Continued.)

Return To Summary

Flight Check DME Selection (Continued.)

Distance [NM]	Selected DMEs					Alternate
117.7	HFD	GON	ORW	SEY	PUT	PVD

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 42° 18' 49.87" W 73° 11' 54.64"	N 42° 14' 29.77" W 73° 5' 56.27"	6.2
	VOR: ALB	Available from N 42° 18' 49.87" W 73° 11' 54.64" to N 42° 17' 0.85" W 73° 9' 24.23"	
	VOR: BAF	Available from N 42° 18' 49.87" W 73° 11' 54.64" to N 42° 14' 29.77" W 73° 5' 56.27"	
	VOR: BDL	Available from N 42° 18' 49.87" W 73° 11' 54.64" to N 42° 14' 29.77" W 73° 5' 56.27"	
	VOR: CEF	Available from N 42° 18' 49.87" W 73° 11' 54.64" to N 42° 14' 29.77" W 73° 5' 56.27"	
	VOR: CTR	Available from N 42° 18' 49.87" W 73° 11' 54.64" to N 42° 14' 29.77" W 73° 5' 56.27"	
	VOR: PWL	Available from N 42° 18' 49.87" W 73° 11' 54.64" to N 42° 14' 29.77" W 73° 5' 56.27"	
2	N 42° 1' 29.48" W 72° 48' 8.75"	N 41° 59' 58.17" W 72° 46' 4.57"	2.2
	VOR: BAF	Available from N 42° 1' 29.48" W 72° 48' 8.75" to N 41° 59' 58.17" W 72° 46' 4.57"	
	VOR: BDL	Available from N 42° 1' 29.48" W 72° 48' 8.75" to N 41° 59' 58.17" W 72° 46' 4.57"	
	VOR: CEF	Available from N 42° 1' 29.48" W 72° 48' 8.75" to N 41° 59' 58.17" W 72° 46' 4.57"	
	VOR: CTR	Available from N 42° 1' 29.48" W 72° 48' 8.75" to N 41° 59' 58.17" W 72° 46' 4.57"	
	VOR: HFD	Available from N 42° 1' 29.48" W 72° 48' 8.75" to N 41° 59' 58.17" W 72° 46' 4.57"	
	VOR: PWL	Available from N 42° 1' 29.48" W 72° 48' 8.75" to N 41° 59' 58.17" W 72° 46' 4.57"	

DME/DME (Continued.)

Return To Summary

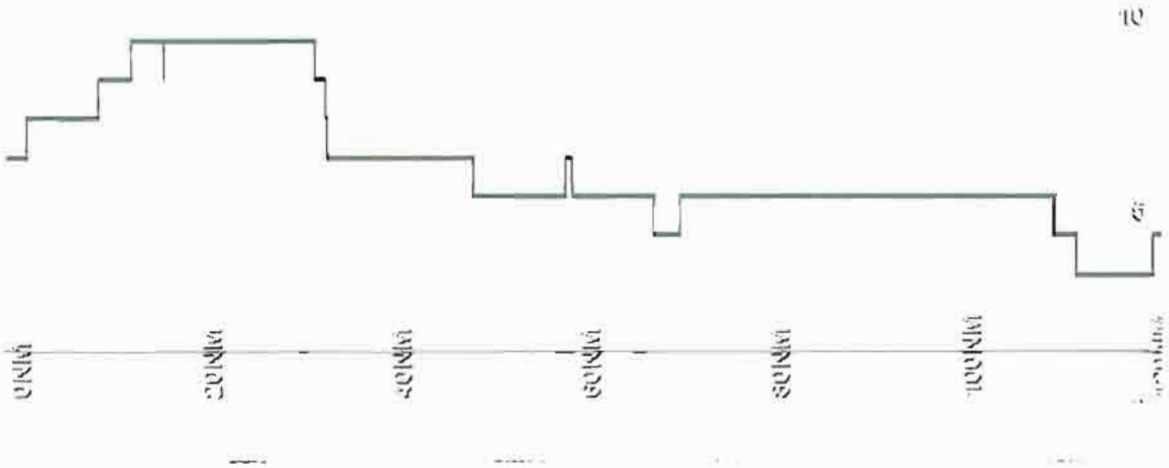
Inertial Drift Segments (Continued.)

#	Start Location	End Location	Length [NM]
3	N 41° 59' 34.75" W 72° 45' 32.75"	N 41° 56' 7.12" W 72° 40' 42.74"	5.0
	VOR: BAF	Available from N 41° 59' 34.75" W 72° 45' 32.75" to N 41° 56' 7.12" W 72° 40' 42.74"	
	VOR: BDL	Available from N 41° 59' 34.75" W 72° 45' 32.75" to N 41° 56' 7.12" W 72° 40' 42.74"	
	VOR: CEF	Available from N 41° 59' 34.75" W 72° 45' 32.75" to N 41° 56' 7.12" W 72° 40' 42.74"	
	VOR: CTR	Available from N 41° 59' 34.75" W 72° 45' 32.75" to N 41° 56' 7.12" W 72° 40' 42.74"	
	VOR: HFD	Available from N 41° 59' 34.75" W 72° 45' 32.75" to N 41° 56' 7.12" W 72° 40' 42.74"	
	VOR: MAD	Available from N 41° 58' 45.56" W 72° 44' 25.94" to N 41° 56' 7.12" W 72° 40' 42.74"	
	VOR: PUT	Available from N 41° 58' 36.19" W 72° 44' 13.22" to N 41° 56' 7.12" W 72° 40' 42.74"	
	VOR: ORW	Available from N 41° 57' 25.90" W 72° 42' 37.83" to N 41° 56' 7.12" W 72° 40' 42.74"	

Radar Analysis

Return To Summary

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



Name:	Joe Bellabona
Project Name:	Tie in fix RWY23
Output File:	STAR HNK LAFAY 20120413_0310
Software:	RNAV-Pro™
Version:	2.36
Date/Time:	4/13/2012 3:10:24 AM
Input File:	KWST WPOR STAR HNK LAFAY 20120413_0154.txt
Databases:	AVNIS Date: 02/07/2012
	Obstacle Date: 08/26/2011
	NFD Date: 09/30/2010
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✓
DME/DME	✓
Radars	✓
Comms	
TERPS	

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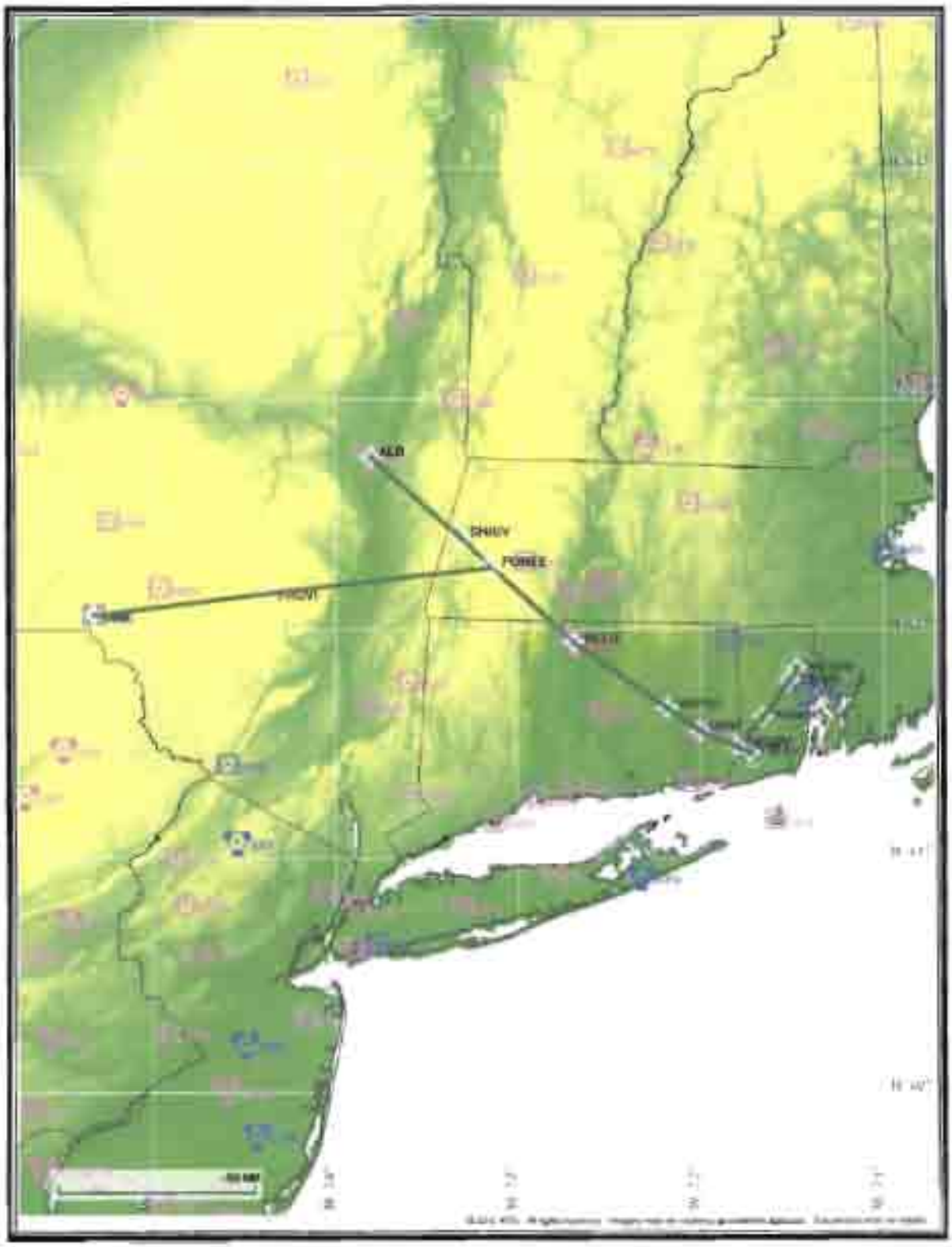

ALB
SNIDY
FORES

Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
HNK	WP	N 42° 3' 47.01" W 75° 18' 58.62"	18000.0	Step	275.0	Fly By	TF
PROVI	WP	N 42° 9' 31.81" W 74° 21' 44.08"	18000.0	Step	275.0	Fly By	TF
PONEE	WP	N 42° 16' 11.14" W 73° 8' 15.74"	11000.0	Step	260.0	Fly By	TF
NELIE	WP	N 41° 56' 27.64" W 72° 41' 18.88"	10000.0	Step	250.0	Fly By	TF
WIPOR	WP	N 41° 39' 23.07" W 72° 10' 37.67"	9000.0	Step	250.0	Fly By	TF
ORW	WP	N 41° 33' 23.05" W 71° 59' 57.67"	6000.0	Step	220.0	Fly By	TF
SAUGY	WP	N 41° 29' 22.03" W 71° 48' 1.95"	3000.0	Step	220.0	Fly By	TF
LAFAY	WP	N 41° 27' 45.22" W 71° 43' 16.43"	3000.0	Step	220.0	Fly Over	TF

Flyability

Return To Summary

Settings:

Flight Type: Arrival
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: 20

Maximum DME Error: 0.675 NM.

No Critical DMEs were found.

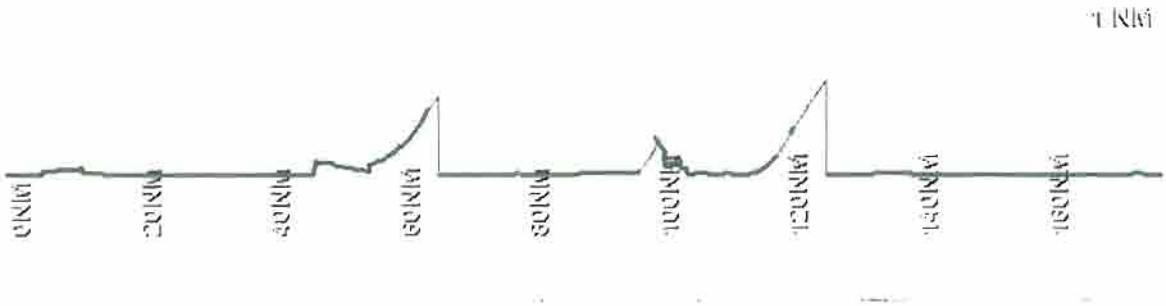
Available DMEs: CFB, DNY, HUO, LHY, RKA, SAX, SYR, HNK, JFK, IGN, PWL, ALB, CTR, BAF, HFD, ORW, PUT, MAD, PVD, GON, SEY

Disabled DMEs: BDL

Foreign DMEs within range: UTR, YCF, YJN, YOW, YUL, YWT, YXI, YYZ, YSC, VLV

DME/DME (Continued.)

Return To Summary



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	CFB	N 42° 9' 26.95" W 76° 8' 11.30" W 10	L	Database	NO	0.675	Enabled	0.8 %	0.9 %
2	RKA	N 42° 27' 58.91" W 75° 14' 21.51" W 11	L	Database	NO	0.675	Enabled	1.0 %	1.2 %
3	DNY	N 42° 10' 41.81" W 74° 57' 24.99" W 11	L	Database	NO	0.744	Enabled	16.0 %	18.0 %
4	SAX	N 41° 4' 3.16" W 74° 32' 17.93" W 11	H	Database	NO	0.675	Enabled	16.7 %	19.2 %
5	SYR	N 43° 9' 37.90" W 76° 12' 16.44" W 11	H	Database	NO	0.675	Enabled	3.0 %	3.4 %
6	HNK	N 42° 3' 47.01" W 75° 18' 58.62" W 11	H	Database	NO	0.675	Enabled	10.7 %	12.4 %
7	HUO	N 41° 24' 34.87" W 74° 35' 29.74" W 11	H	Database	NO	0.675	Enabled	2.4 %	2.8 %
8	JFK	N 40° 37' 58.40" W 73° 46' 17.00" W 12	H	Database	NO	0.675	Enabled	1.5 %	1.6 %
9	IGN	N 41° 39' 55.61" W 73° 49' 20.00" W 12	L	Database	NO	0.675	Enabled	3.0 %	3.3 %
10	ALB	N 42° 44' 50.21" W 73° 48' 11.46" W 13	L	Database	NO	0.675	Enabled	8.0 %	8.5 %
11	PWL	N 41° 46' 11.18" W 73° 36' 1.99" W 12	L	Database	NO	0.809	Enabled	19.8 %	20.8 %
12	CTR	N 42° 17' 28.75" W 72° 56' 57.82" W 13	L	Database	NO	0.940	Enabled	11.7 %	11.6 %
13	BAF	N 42° 9' 43.06" W 72° 42' 58.31" W 14	L	Database	NO	1.096	Enabled	25.0 %	24.0 %
14	HFD	N 41° 38' 27.98" W 72° 32' 50.70" W 13	L	Database	NO	0.675	Enabled	16.1 %	14.4 %
15	PUT	N 41° 57' 19.66" W 71° 50' 38.74" W 14	H	Database	NO	0.719	Enabled	11.6 %	10.3 %

DME/DME (Continued.)

Return To Summary

DMEs Used (Continued.)

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
16	MAD	N 41° 18' 49.81" W 72° 41' 31.89" W 13	L	Database	NO	0.675	Enabled	7.4 %	6.6 %
17	ORW	N 41° 33' 23.05" W 71° 59' 57.67" W 14	L	Database	NO	0.873	Enabled	9.3 %	8.3 %
18	GON	N 41° 19' 49.45" W 72° 3' 7.14" W 14	T	Database	NO	0.675	Enabled	8.6 %	7.6 %
19	PVD	N 41° 43' 27.64" W 71° 25' 46.67" W 14	H	Database	NO	0.675	Enabled	6.4 %	5.7 %
20	SEY	N 41° 10' 2.77" W 71° 34' 33.91" W 15	L	Database	NO	0.675	Enabled	6.8 %	6.1 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	DNY	SYR	SAX	CFB	RKA	HUO
10.1	DNY	SYR	SAX	HNK	RKA	HUO
20.2	DNY	SYR	SAX	HNK	HUO	RKA
43.0	DNY	IGN	SAX	ALB	JFK	HUO
56.0	CTR	IGN	PWL	ALB	BAF	
96.9	CTR	ORW	PWL	HFD	BAF	
125.7	MAD	ORW	PUT	HFD	BAF	CTR
154.6	MAD	SEY	GON	HFD	PVD	PUT
164.2	PUT	SEY	GON	HFD	PVD	ORW
174.4	PUT	SEY	GON	HFD	ORW	PVD

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 42° 12' 17.55" W 73° 52' 20.21"	N 42° 12' 29.77" W 73° 50' 6.66"	1.7
	VOR: ALB	Available from N 42° 12' 17.55" W 73° 52' 20.21" to N 42° 12' 29.77" W 73° 50' 6.66"	
	VOR: IGN	Available from N 42° 12' 17.55" W 73° 52' 20.21" to N 42° 12' 29.77" W 73° 50' 6.66"	
	VOR: PWL	Available from N 42° 12' 17.55" W 73° 52' 20.21" to N 42° 12' 29.77" W 73° 50' 6.66"	
	VOR: CTR	Available from N 42° 12' 28.30" W 73° 50' 22.69" to N 42° 12' 29.77" W 73° 50' 6.66"	
2	N 42° 16' 3.35" W 73° 8' 45.43"	N 42° 14' 31.89" W 73° 5' 58.31"	2.6
	VOR: BAF	Available from N 42° 16' 3.35" W 73° 8' 45.43" to N 42° 14' 31.89" W 73° 5' 58.31"	
	VOR: BDL	Available from N 42° 16' 3.35" W 73° 8' 45.43" to N 42° 14' 31.89" W 73° 5' 58.31"	
	VOR: CEF	Available from N 42° 16' 3.35" W 73° 8' 45.43" to N 42° 14' 31.89" W 73° 5' 58.31"	
	VOR: CTR	Available from N 42° 16' 3.35" W 73° 8' 45.43" to N 42° 14' 31.89" W 73° 5' 58.31"	
	VOR: PWL	Available from N 42° 16' 3.35" W 73° 8' 45.43" to N 42° 14' 31.89" W 73° 5' 58.31"	

DME/DME (Continued.)

Return To Summary

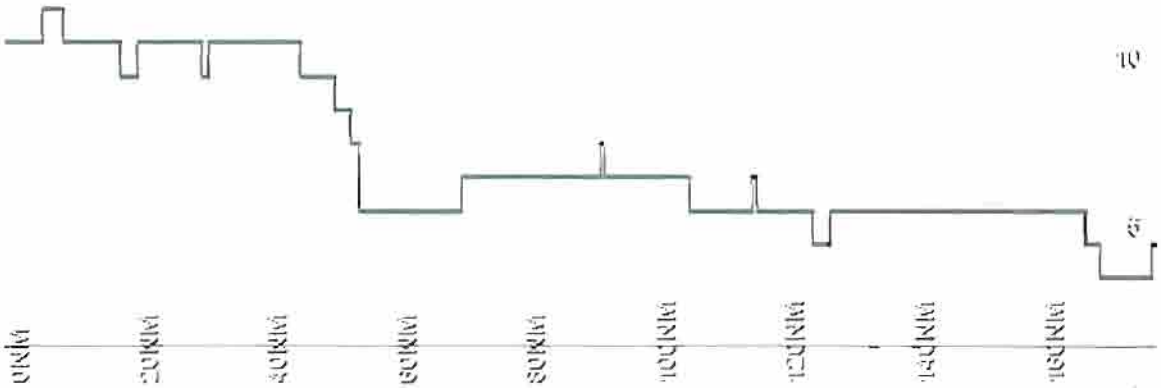
Inertial Drift Segments (Continued.)

#	Start Location	End Location	Length [NM]
3	N 42° 1' 31.22" W 72° 48' 11.06"	N 41° 59' 59.90" W 72° 46' 6.89"	2.2
	VOR: BAF	Available from N 42° 1' 31.22" W 72° 48' 11.06" to N 41° 59' 59.90" W 72° 46' 6.89"	
	VOR: BDL	Available from N 42° 1' 31.22" W 72° 48' 11.06" to N 41° 59' 59.90" W 72° 46' 6.89"	
	VOR: CEF	Available from N 42° 1' 31.22" W 72° 48' 11.06" to N 41° 59' 59.90" W 72° 46' 6.89"	
	VOR: CTR	Available from N 42° 1' 31.22" W 72° 48' 11.06" to N 41° 59' 59.90" W 72° 46' 6.89"	
	VOR: HFD	Available from N 42° 1' 31.22" W 72° 48' 11.06" to N 41° 59' 59.90" W 72° 46' 6.89"	
	VOR: PWL	Available from N 42° 1' 31.22" W 72° 48' 11.06" to N 41° 59' 59.90" W 72° 46' 6.89"	
4	N 41° 59' 34.14" W 72° 45' 31.88"	N 41° 56' 6.58" W 72° 40' 41.79"	5.0
	VOR: BAF	Available from N 41° 59' 34.14" W 72° 45' 31.88" to N 41° 56' 6.58" W 72° 40' 41.79"	
	VOR: BDL	Available from N 41° 59' 34.14" W 72° 45' 31.88" to N 41° 56' 6.58" W 72° 40' 41.79"	
	VOR: CEF	Available from N 41° 59' 34.14" W 72° 45' 31.88" to N 41° 56' 6.58" W 72° 40' 41.79"	
	VOR: CTR	Available from N 41° 59' 34.14" W 72° 45' 31.88" to N 41° 56' 6.58" W 72° 40' 41.79"	
	VOR: HFD	Available from N 41° 59' 34.14" W 72° 45' 31.88" to N 41° 56' 6.58" W 72° 40' 41.79"	
	VOR: MAD	Available from N 41° 58' 47.29" W 72° 44' 28.26" to N 41° 56' 6.58" W 72° 40' 41.79"	
	VOR: PUT	Available from N 41° 58' 35.57" W 72° 44' 12.36" to N 41° 56' 6.58" W 72° 40' 41.79"	
	VOR: ORW	Available from N 41° 57' 25.27" W 72° 42' 36.98" to N 41° 56' 6.58" W 72° 40' 41.79"	

Radar Analysis

Return To Summary

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



Name:	Joe Bellabona
Project Name:	Tie in fix RWY23
Output File:	STAR HNK NOSUH 20120413_0309
Software:	RNAV-Pro™
Version:	2.36
Date/Time:	4/13/2012 3:09:27 AM
Input File:	KSFZ WIPOR STAR HNK NOSUH 20120413_0148.txt
Databases:	AVNIS Date: 02/07/2012
	Obstacle Date: 08/26/2011
	NFD Date: 09/30/2010
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✓
DME/DME	✓
Radars	✓
Comms	
TERPS	

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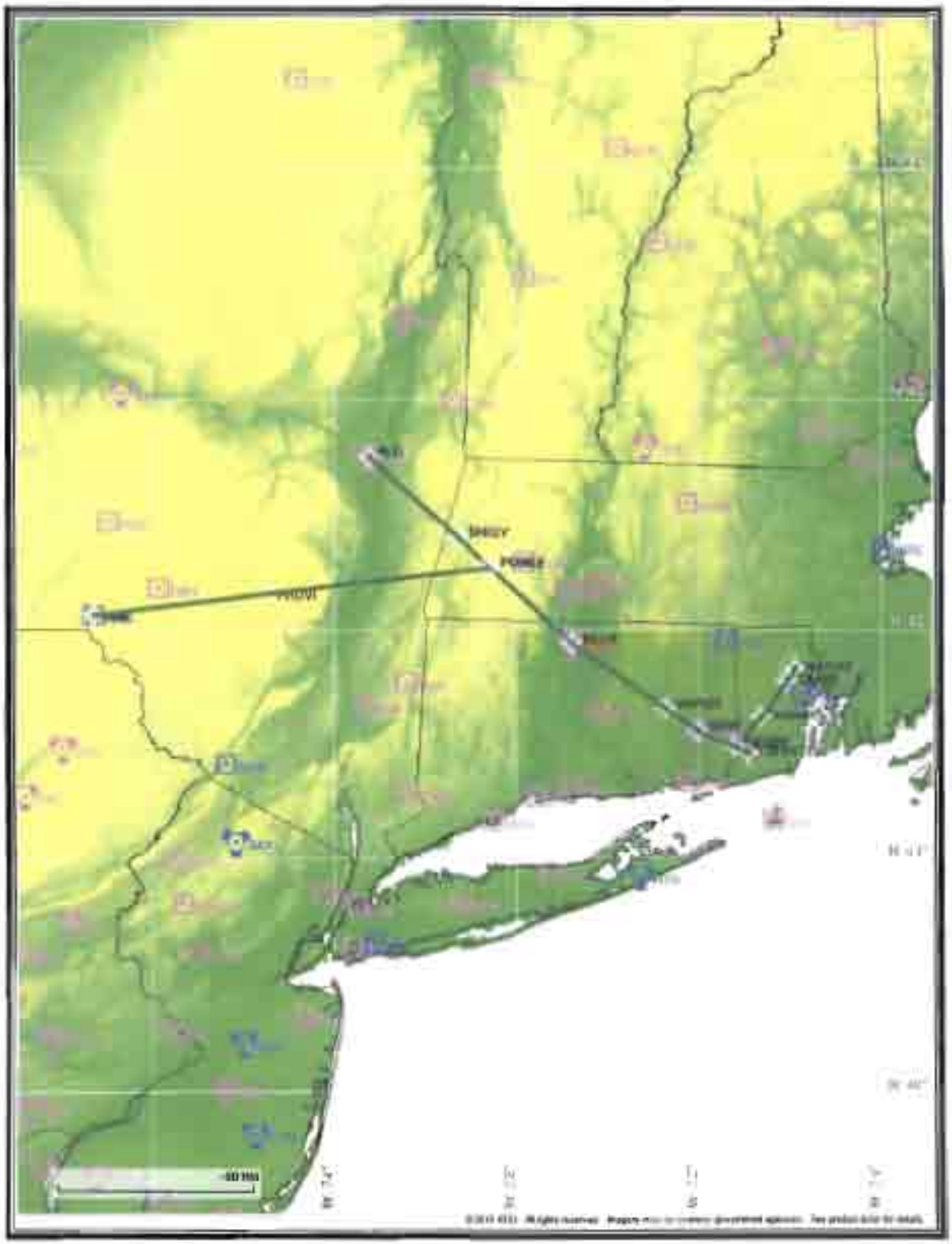


Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
HNK	WP	N 42° 3' 47.01" W 75° 18' 58.62"	18000.0	Step	250.0	Fly By	TF
PROVI	WP	N 42° 9' 31.81" W 74° 21' 44.08"	18000.0	Step	240.0	Fly By	TF
PONEE	WP	N 42° 16' 11.14" W 73° 8' 15.74"	11000.0	Step	210.0	Fly By	TF
NELIE	WP	N 41° 56' 27.64" W 72° 41' 18.88"	10000.0	Step	180.0	Fly By	TF
WIPOR	WP	N 41° 39' 23.07" W 72° 10' 37.67"	9000.0	Step	180.0	Fly By	TF
ORW	WP	N 41° 33' 23.05" W 71° 59' 57.67"	6000.0	Step	180.0	Fly By	TF
SAUGY	WP	N 41° 29' 22.03" W 71° 48' 1.95"	3000.0	Step	180.0	Fly By	TF
WAWIK	WP	N 41° 37' 11.58" W 71° 39' 9.45"	3000.0	Step	180.0	Fly By	TF
SEABE	WP	N 41° 46' 44.52" W 71° 30' 42.26"	3000.0	Step	180.0	Fly By	TF
NOSUH	WP	N 41° 49' 57.59" W 71° 27' 59.51"	2000.0	Step	180.0	Fly Over	TF

Flyability

Return To Summary

Settings:

Flight Type: Arrival
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: 20

Maximum DME Error: 0.675 NM.

No Critical DMEs were found.

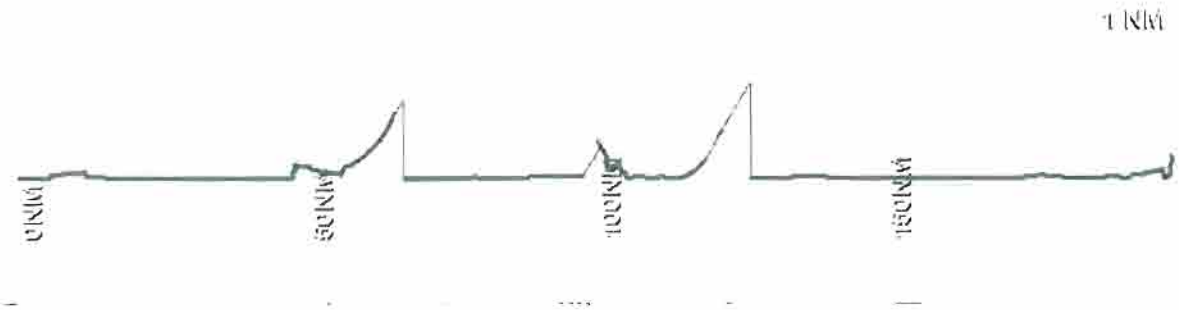
Available DMEs: CFB, DNY, HUO, LHY, RKA, SAX, SYR, HNK, JFK, IGN, PWL, ALB, CTR, BAF, HFD, ORW, PUT, MAD, PVD, GON, SEY

Disabled DMEs: BDL

Foreign DMEs within range: UTR, YCF, YJN, YOW, YUL, YWT, YXI, YYZ, YSC, VLV

DME/DME (Continued.)

Return To Summary



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	CFB	N 42° 9' 26.95" W 76° 8' 11.30" W 10	L	Database	NO	0.675	Enabled	0.7 %	0.8 %
2	RKA	N 42° 27' 58.91" W 75° 14' 21.51" W 11	L	Database	NO	0.675	Enabled	0.9 %	1.0 %
3	DNY	N 42° 10' 41.81" W 74° 57' 24.99" W 11	L	Database	NO	0.744	Enabled	14.1 %	16.1 %
4	SAX	N 41° 4' 3.16" W 74° 32' 17.93" W 11	H	Database	NO	0.675	Enabled	14.7 %	17.1 %
5	SYR	N 43° 9' 37.90" W 76° 12' 16.44" W 11	H	Database	NO	0.675	Enabled	2.6 %	3.1 %
6	HNK	N 42° 3' 47.01" W 75° 18' 58.62" W 11	H	Database	NO	0.675	Enabled	9.4 %	11.1 %
7	HUO	N 41° 24' 34.87" W 74° 35' 29.74" W 11	H	Database	NO	0.675	Enabled	2.2 %	2.5 %
8	JFK	N 40° 37' 58.40" W 73° 46' 17.00" W 12	H	Database	NO	0.675	Enabled	1.3 %	1.4 %
9	IGN	N 41° 39' 55.61" W 73° 49' 20.00" W 12	L	Database	NO	0.675	Enabled	2.7 %	2.9 %
10	ALB	N 42° 44' 50.21" W 73° 48' 11.46" W 13	L	Database	NO	0.675	Enabled	7.0 %	7.6 %
11	PWL	N 41° 46' 11.18" W 73° 36' 1.99" W 12	L	Database	NO	0.809	Enabled	17.5 %	18.6 %
12	CTR	N 42° 17' 28.75" W 72° 56' 57.82" W 13	L	Database	NO	0.940	Enabled	10.3 %	10.4 %
13	BAF	N 42° 9' 43.06" W 72° 42' 58.31" W 14	L	Database	NO	1.096	Enabled	22.0 %	21.4 %
14	HFD	N 41° 38' 27.98" W 72° 32' 50.70" W 13	L	Database	NO	0.675	Enabled	14.2 %	12.8 %
15	PUT	N 41° 57' 19.66" W 71° 50' 38.74" W 14	H	Database	NO	0.719	Enabled	18.3 %	16.5 %

DME/DME (Continued.)

Return To Summary

DMEs Used (Continued.)

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
16	MAD	N 41° 18' 49.81" W 72° 41' 31.89" W 13	L	Database	NO	0.675	Enabled	6.5 %	5.9 %
17	ORW	N 41° 33' 23.05" W 71° 59' 57.67" W 14	L	Database	NO	0.873	Enabled	17.2 %	15.5 %
18	GON	N 41° 19' 49.45" W 72° 3' 7.14" W 14	T	Database	NO	0.675	Enabled	5.4 %	4.8 %
19	PVD	N 41° 43' 27.64" W 71° 25' 46.67" W 14	H	Database	NO	0.675	Enabled	11.4 %	10.3 %
20	SEY	N 41° 10' 2.77" W 71° 34' 33.91" W 15	L	Database	NO	0.675	Enabled	9.1 %	8.3 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	DNY	SYR	SAX	CFB	RKA	HUO
10.1	DNY	SYR	SAX	HNK	RKA	HUO
20.2	DNY	SYR	SAX	HNK	HUO	RKA
43.0	DNY	IGN	SAX	ALB	JFK	HUO
56.0	CTR	IGN	PWL	ALB	BAF	
96.9	CTR	ORW	PWL	HFD	BAF	
125.7	MAD	ORW	PUT	HFD	BAF	CTR
154.6	MAD	SEY	GON	HFD	PVD	PUT
164.2	PUT	SEY	GON	HFD	PVD	ORW
173.2	PUT	SEY	GON	ORW	PVD	HFD
184.1	PUT	SEY	PVD	ORW		
195.7	PUT	SEY	PVD	ORW		

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 42° 12' 17.55" W 73° 52' 20.23"	N 42° 12' 29.77" W 73° 50' 6.68"	1.7
	VOR: ALB	Available from N 42° 12' 17.55" W 73° 52' 20.23" to N 42° 12' 29.77" W 73° 50' 6.68"	
	VOR: IGN	Available from N 42° 12' 17.55" W 73° 52' 20.23" to N 42° 12' 29.77" W 73° 50' 6.68"	
	VOR: PWL	Available from N 42° 12' 17.55" W 73° 52' 20.23" to N 42° 12' 29.77" W 73° 50' 6.68"	
	VOR: CTR	Available from N 42° 12' 28.30" W 73° 50' 22.71" to N 42° 12' 29.77" W 73° 50' 6.68"	
2	N 42° 16' 3.34" W 73° 8' 45.45"	N 42° 14' 31.89" W 73° 5' 58.32"	2.6
	VOR: BAF	Available from N 42° 16' 3.34" W 73° 8' 45.45" to N 42° 14' 31.89" W 73° 5' 58.32"	
	VOR: BDL	Available from N 42° 16' 3.34" W 73° 8' 45.45" to N 42° 14' 31.89" W 73° 5' 58.32"	
	VOR: CEF	Available from N 42° 16' 3.34" W 73° 8' 45.45" to N 42° 14' 31.89" W 73° 5' 58.32"	
	VOR: CTR	Available from N 42° 16' 3.34" W 73° 8' 45.45" to N 42° 14' 31.89" W 73° 5' 58.32"	
	VOR: PWL	Available from N 42° 16' 3.34" W 73° 8' 45.45" to N 42° 14' 31.89" W 73° 5' 58.32"	

DME/DME (Continued.)

Return To Summary

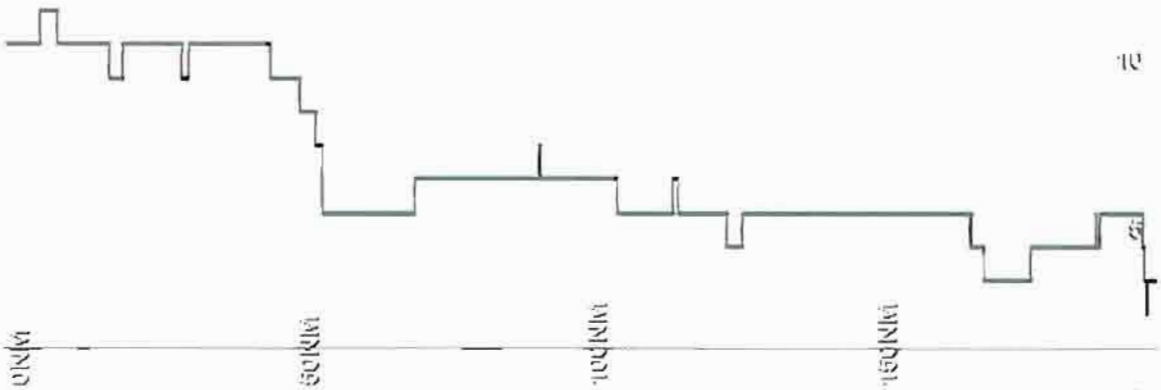
Inertial Drift Segments (Continued.)

#	Start Location	End Location	Length [NM]
3	N 42° 1' 31.23" W 72° 48' 11.07"	N 41° 59' 59.91" W 72° 46' 6.90"	2.2
	VOR: BAF	Available from N 42° 1' 31.23" W 72° 48' 11.07" to N 41° 59' 59.91" W 72° 46' 6.90"	
	VOR: BDL	Available from N 42° 1' 31.23" W 72° 48' 11.07" to N 41° 59' 59.91" W 72° 46' 6.90"	
	VOR: CEF	Available from N 42° 1' 31.23" W 72° 48' 11.07" to N 41° 59' 59.91" W 72° 46' 6.90"	
	VOR: CTR	Available from N 42° 1' 31.23" W 72° 48' 11.07" to N 41° 59' 59.91" W 72° 46' 6.90"	
	VOR: HFD	Available from N 42° 1' 31.23" W 72° 48' 11.07" to N 41° 59' 59.91" W 72° 46' 6.90"	
	VOR: PWL	Available from N 42° 1' 31.23" W 72° 48' 11.07" to N 41° 59' 59.91" W 72° 46' 6.90"	
4	N 41° 59' 34.14" W 72° 45' 31.89"	N 41° 56' 6.59" W 72° 40' 41.80"	5.0
	VOR: BAF	Available from N 41° 59' 34.14" W 72° 45' 31.89" to N 41° 56' 6.59" W 72° 40' 41.80"	
	VOR: BDL	Available from N 41° 59' 34.14" W 72° 45' 31.89" to N 41° 56' 6.59" W 72° 40' 41.80"	
	VOR: CEF	Available from N 41° 59' 34.14" W 72° 45' 31.89" to N 41° 56' 6.59" W 72° 40' 41.80"	
	VOR: CTR	Available from N 41° 59' 34.14" W 72° 45' 31.89" to N 41° 56' 6.59" W 72° 40' 41.80"	
	VOR: HFD	Available from N 41° 59' 34.14" W 72° 45' 31.89" to N 41° 56' 6.59" W 72° 40' 41.80"	
	VOR: MAD	Available from N 41° 58' 47.29" W 72° 44' 28.27" to N 41° 56' 6.59" W 72° 40' 41.80"	
	VOR: PUT	Available from N 41° 58' 35.58" W 72° 44' 12.37" to N 41° 56' 6.59" W 72° 40' 41.80"	
	VOR: ORW	Available from N 41° 57' 25.28" W 72° 42' 36.99" to N 41° 56' 6.59" W 72° 40' 41.80"	

Radar Analysis

Return To Summary

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



Name:	Joe Bellabona
Project Name:	Tie in fix RWY23
Output File:	STAR ALB NOSUH 20120413_0308
Software:	RNAV-Pro™
Version:	2.36
Date/Time:	4/13/2012 3:08:56 AM
Input File:	KSFZ WIPOR STAR ALB NOSUH 20120413_0143.txt
Databases:	AVNIS Date: 02/07/2012
	Obstacle Date: 08/26/2011
	NFD Date: 09/30/2010
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✓ **Please Check Flyability Results**
DME/DME	✓
Radars	✓
Comms	
TERPS	

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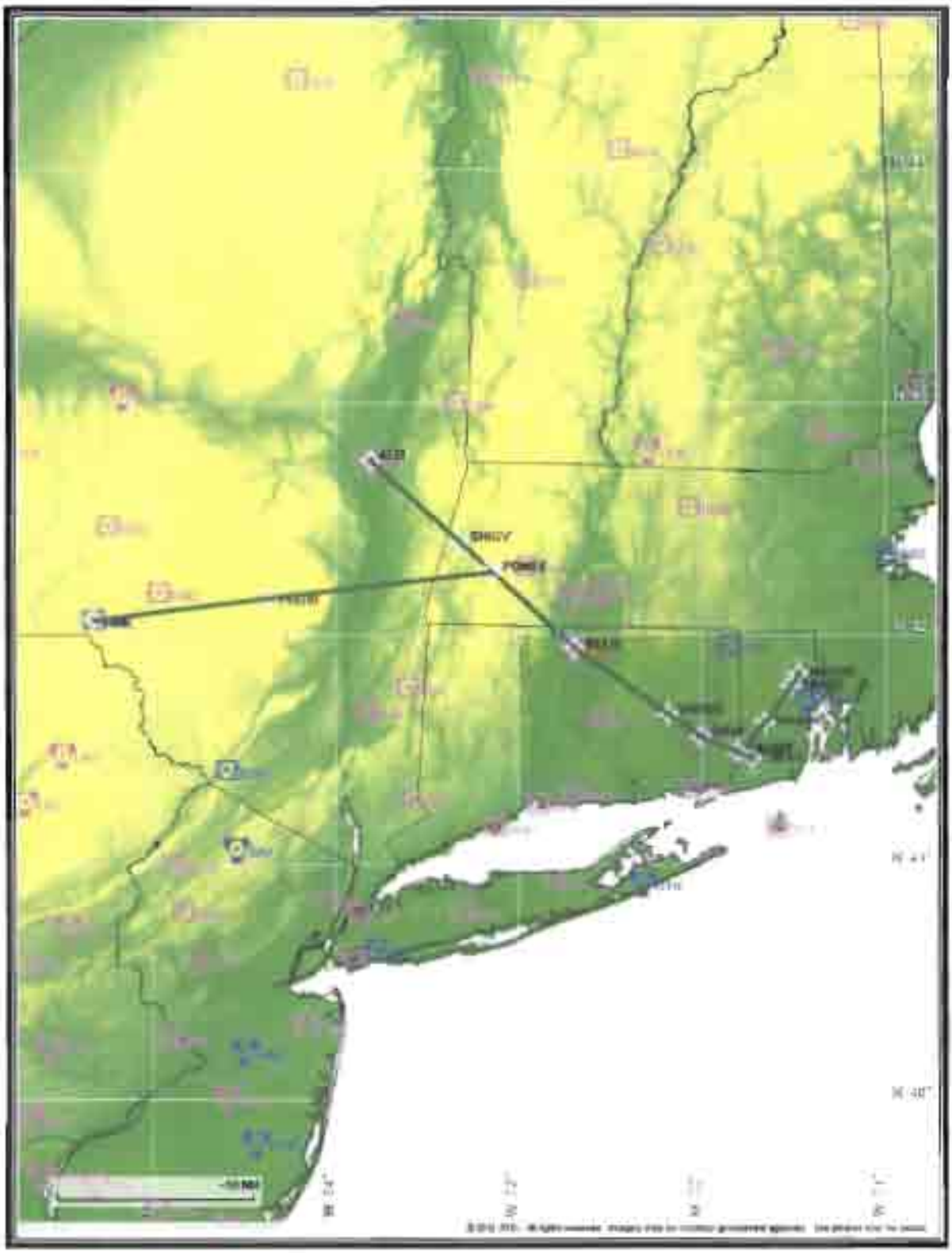


Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
ALB	WP	N 42° 44' 50.21" W 73° 48' 11.46"	18000.0	Step	250.0	Fly By	TF
SHIGY	WP	N 42° 23' 57.95" W 73° 19' 0.98"	18000.0	Step	240.0	Fly By	TF
PONEE	WP	N 42° 16' 11.14" W 73° 8' 15.74"	11000.0	Step	210.0	Fly By	TF
NELIE	WP	N 41° 56' 27.64" W 72° 41' 18.88"	10000.0	Step	180.0	Fly By	TF
WIPOR	WP	N 41° 39' 23.07" W 72° 10' 37.67"	9000.0	Step	180.0	Fly By	TF
ORW	WP	N 41° 33' 23.05" W 71° 59' 57.67"	6000.0	Step	180.0	Fly By	TF
SAUGY	WP	N 41° 29' 22.03" W 71° 48' 1.95"	3000.0	Step	180.0	Fly By	TF
WAWIK	WP	N 41° 37' 11.58" W 71° 39' 9.45"	3000.0	Step	180.0	Fly By	TF
SEABE	WP	N 41° 46' 44.52" W 71° 30' 42.26"	3000.0	Step	180.0	Fly By	TF
NOSUH	WP	N 41° 49' 57.59" W 71° 27' 59.51"	2000.0	Step	180.0	Fly Over	TF

Flyability

Return To Summary

Settings:

Flight Type: Arrival
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

Aircraft ALTITUDE at Fly-By WP PONEE too high.

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: 15

Maximum DME Error: 0.674 NM

No Critical DMEs were found.

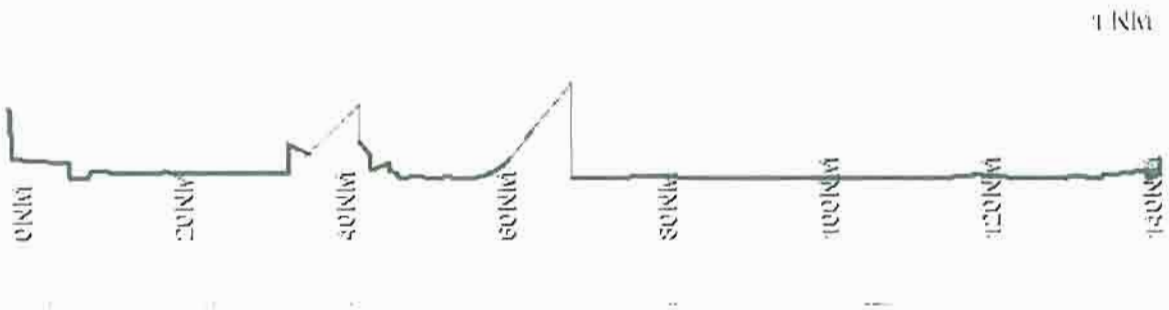
Available DMEs: CAM, HNK, HUO, PUT, ALB, CTR, BAF, PVD, HTO, PWL, HFD, ORW, MAD, GON, SEY

Disabled DMEs: BDL

Foreign DMEs within range: UTR, VLV, YCF, YJN, YOW, YSC, YUL, YXI

DME/DME (Continued.)

Return To Summary



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	HNK	N 42° 3' 47.01" W 75° 18' 58.62" W 11	H	Database	NO	0.674	Enabled	0.3 %	0.3 %
2	HUO	N 41° 24' 34.87" W 74° 35' 29.74" W 11	H	Database	NO	0.674	Enabled	18.3 %	21.9 %
3	PUT	N 41° 57' 19.66" W 71° 50' 38.74" W 14	H	Database	NO	0.780	Enabled	29.2 %	28.6 %
4	CAM	N 42° 59' 39.44" W 73° 20' 38.47" W 14	L	Database	NO	0.674	Enabled	1.9 %	2.3 %
5	CTR	N 42° 17' 28.75" W 72° 56' 57.82" W 13	L	Database	NO	0.735	Enabled	13.8 %	15.1 %
6	ALB	N 42° 44' 50.21" W 73° 48' 11.46" W 13	L	Database	NO	0.674	Enabled	8.9 %	10.6 %
7	HTO	N 40° 55' 8.38" W 72° 19' 0.14" W 13	H	Database	NO	0.674	Enabled	1.6 %	1.8 %
8	BAF	N 42° 9' 43.06" W 72° 42' 58.31" W 14	L	Database	NO	1.094	Enabled	18.0 %	17.0 %
9	PWL	N 41° 46' 11.18" W 73° 36' 1.99" W 12	L	Database	NO	0.674	Enabled	2.7 %	2.6 %
10	HFD	N 41° 38' 27.98" W 72° 32' 50.70" W 13	L	Database	NO	0.674	Enabled	19.2 %	18.0 %
11	MAD	N 41° 18' 49.81" W 72° 41' 31.89" W 13	L	Database	NO	0.674	Enabled	8.9 %	8.3 %
12	ORW	N 41° 33' 23.05" W 71° 59' 57.67" W 14	L	Database	NO	0.872	Enabled	23.3 %	21.8 %
13	GON	N 41° 19' 49.45" W 72° 3' 7.14" W 14	T	Database	NO	0.674	Enabled	7.2 %	6.7 %
14	PVD	N 41° 43' 27.64" W 71° 25' 46.67" W 14	H	Database	NO	0.674	Enabled	15.3 %	14.3 %
15	SEY	N 41° 10' 2.77" W 71° 34' 33.91" W 15	L	Database	NO	0.674	Enabled	12.5 %	11.7 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	HNK	HUO	PUT	CAM	CTR	ALB
10.1	ALB	HUO	PUT	CAM	CTR	BAF
30.0	ALB	HUO	HTO	BAF	CTR	PVD
41.2	HFD	ORW	PWL	BAF	CTR	
68.9	HFD	ORW	PUT	BAF	MAD	CTR
97.9	HFD	GON	PVD	SEY	MAD	PUT

DME/DME (Continued.)

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Flight Check DME Selection (Continued.)

Distance [NM]	Selected DMEs					Alternate
116.5	ORW	GON	PVD	SEY	PUT	HFD
127.4	ORW	PUT	PVD	SEY		
139.1	ORW	PUT	PVD	SEY		

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 42° 18' 49.88" W 73° 11' 54.65"	N 42° 14' 29.78" W 73° 5' 56.28"	6.2
	VOR: ALB	Available from N 42° 18' 49.88" W 73° 11' 54.65" to N 42° 17' 0.86" W 73° 9' 24.24"	
	VOR: BAF	Available from N 42° 18' 49.88" W 73° 11' 54.65" to N 42° 14' 29.78" W 73° 5' 56.28"	
	VOR: BDL	Available from N 42° 18' 49.88" W 73° 11' 54.65" to N 42° 14' 29.78" W 73° 5' 56.28"	
	VOR: CEF	Available from N 42° 18' 49.88" W 73° 11' 54.65" to N 42° 14' 29.78" W 73° 5' 56.28"	
	VOR: CTR	Available from N 42° 18' 49.88" W 73° 11' 54.65" to N 42° 14' 29.78" W 73° 5' 56.28"	
	VOR: PWL	Available from N 42° 18' 49.88" W 73° 11' 54.65" to N 42° 14' 29.78" W 73° 5' 56.28"	
2	N 42° 1' 29.49" W 72° 48' 8.76"	N 41° 59' 58.18" W 72° 46' 4.58"	2.2
	VOR: BAF	Available from N 42° 1' 29.49" W 72° 48' 8.76" to N 41° 59' 58.18" W 72° 46' 4.58"	
	VOR: BDL	Available from N 42° 1' 29.49" W 72° 48' 8.76" to N 41° 59' 58.18" W 72° 46' 4.58"	
	VOR: CEF	Available from N 42° 1' 29.49" W 72° 48' 8.76" to N 41° 59' 58.18" W 72° 46' 4.58"	
	VOR: CTR	Available from N 42° 1' 29.49" W 72° 48' 8.76" to N 41° 59' 58.18" W 72° 46' 4.58"	
	VOR: HFD	Available from N 42° 1' 29.49" W 72° 48' 8.76" to N 41° 59' 58.18" W 72° 46' 4.58"	
	VOR: PWL	Available from N 42° 1' 29.49" W 72° 48' 8.76" to N 41° 59' 58.18" W 72° 46' 4.58"	

DME/DME (Continued.)

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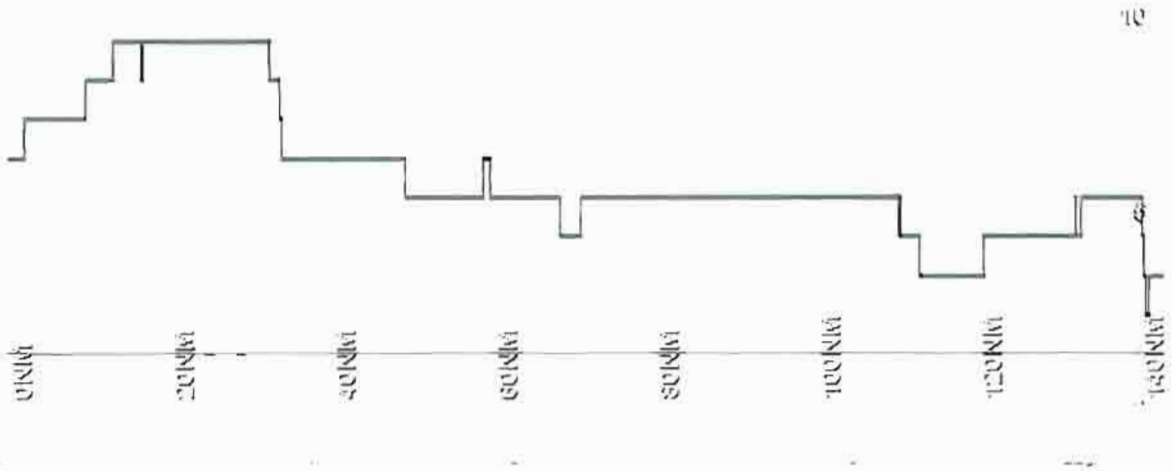
Inertial Drift Segments (Continued.)

#	Start Location	End Location	Length [NM]
3	N 41° 59' 34.76" W 72° 45' 32.76"	N 41° 56' 7.12" W 72° 40' 42.76"	5.0
	VOR: BAF	Available from N 41° 59' 34.76" W 72° 45' 32.76" to N 41° 56' 7.12" W 72° 40' 42.76"	
	VOR: BDL	Available from N 41° 59' 34.76" W 72° 45' 32.76" to N 41° 56' 7.12" W 72° 40' 42.76"	
	VOR: CEF	Available from N 41° 59' 34.76" W 72° 45' 32.76" to N 41° 56' 7.12" W 72° 40' 42.76"	
	VOR: CTR	Available from N 41° 59' 34.76" W 72° 45' 32.76" to N 41° 56' 7.12" W 72° 40' 42.76"	
	VOR: HFD	Available from N 41° 59' 34.76" W 72° 45' 32.76" to N 41° 56' 7.12" W 72° 40' 42.76"	
	VOR: MAD	Available from N 41° 58' 45.57" W 72° 44' 25.95" to N 41° 56' 7.12" W 72° 40' 42.76"	
	VOR: PUT	Available from N 41° 58' 36.20" W 72° 44' 13.23" to N 41° 56' 7.12" W 72° 40' 42.76"	
	VOR: ORW	Available from N 41° 57' 25.90" W 72° 42' 37.85" to N 41° 56' 7.12" W 72° 40' 42.76"	

Radar Analysis

Return To Summary

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