Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: STAR	Date Open: 11/18/2011	Task #: 2011111828640801001	Request #: 20111118286408
Procedure: STAR FLOSI (RNAV) TWO NEWARK NJ KEWR		**Airport ID:** KEWR	**Airport:** NEWARK LIBERTY INTL		**Reimbursable #:**
City: NEWARK	**ST:** NJ	**GPS #:**		**Estimated Chart Date:** 05/31/2012	**FICO #:**
Fac ID:	**Fac. Type:** Proc O	**Specialist:** DAVID SAUER			

Procedure Review

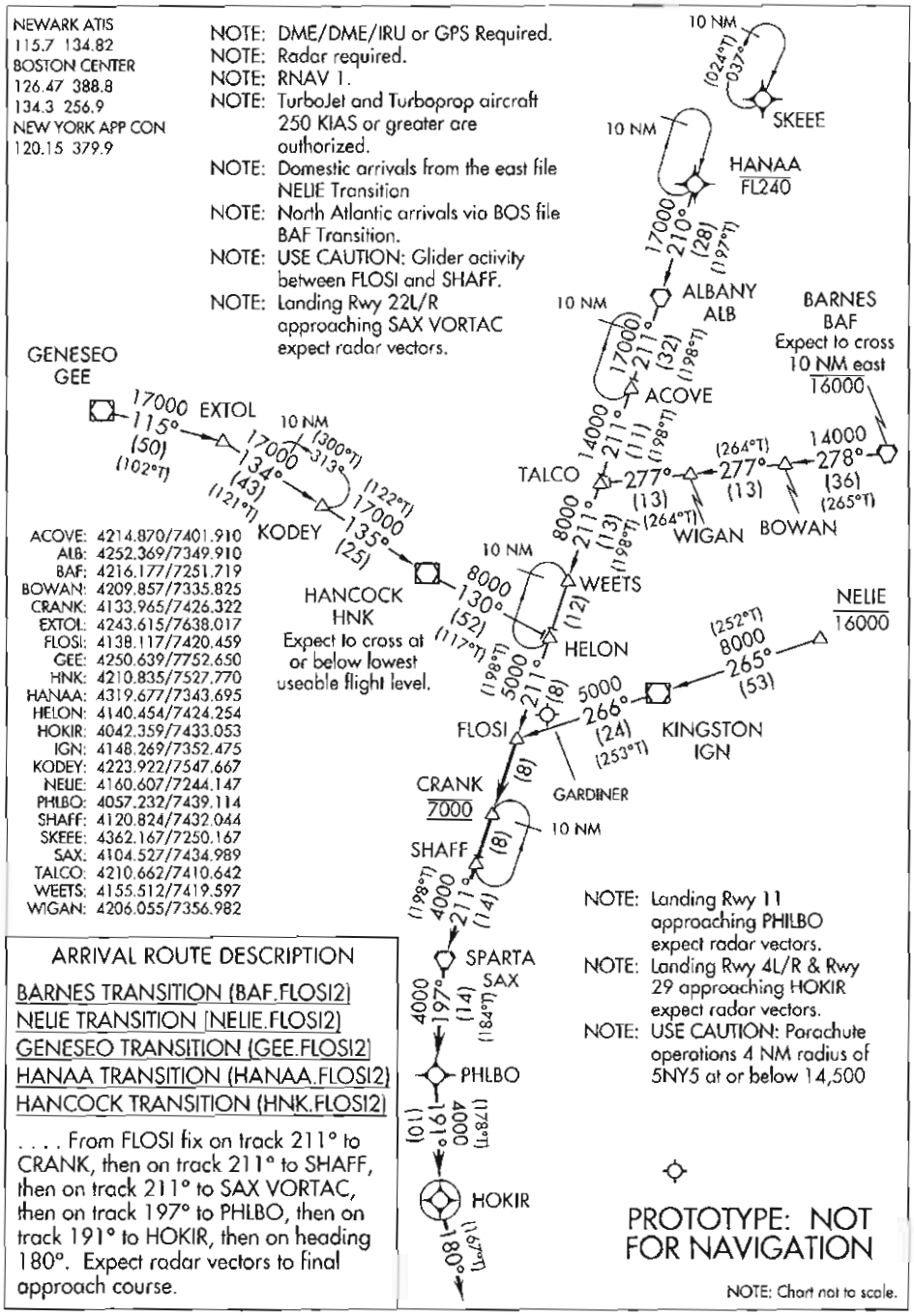
	Rec'd	Rel'd	Full Name	Comments
Lead:	12/01/2011	02/15/2012	DONALD SMITH	DME / DME P1
QA:	02/15/2012	02/16/2012	STEVEN SZUKALA	
Liaison:	02/16/2012		Terrell	DME/DME ESV REQUEST INCLUDED

Procedure Comments: ENROUTE **Remark Type:** INFORMATION pkg 1.pf

NEWARK, NJ NEWARK LIBERTY INTL (KEWR) FLOSI TWO (RNAV) (STAR) ENROUTE-YES FC: 4.3.12 PUB: 5.31.12

ATTACHED FORMS: ESV REPORTS; 7100-4; 7100-3; 8260-2(S): ACOVE-INT, REV 12; BARNES (BAF) VTAC, REV 11; BOWAN-INT, REV 4; CRANK-INT, REV 6; EXTOL-INT, REV 8; FLOSI-INT, REV 4; HANAA, REV 3; HELON-INT, REV 9; HOKIR, REV 3; KODEY-INT, REV 6; NELIE-INT, REV 6; PHLBO, REV 2; SAHFF-INT, REV 5; SKEEE, REV 2; TALCO-INT, REV 3; WEETS-INT, REV 8; WIGAN-INT, REV 6; (INFO ONLY) ALBANY (ALB) VTAC, REV 11; GENESEO (GEE) VDME, REV 10; HANCOCK (HNK) VDME, REV 6; KINGSTON (IGN) VDME, REV 20; SPARTA (SAX) VTAC, REV 12.
CONTACT: DON SMITH, AJV-352 LEAD, 405.954.1036:

FLOSI TWO ARRIVAL (RNAV)



ARRIVAL ROUTE DESCRIPTION

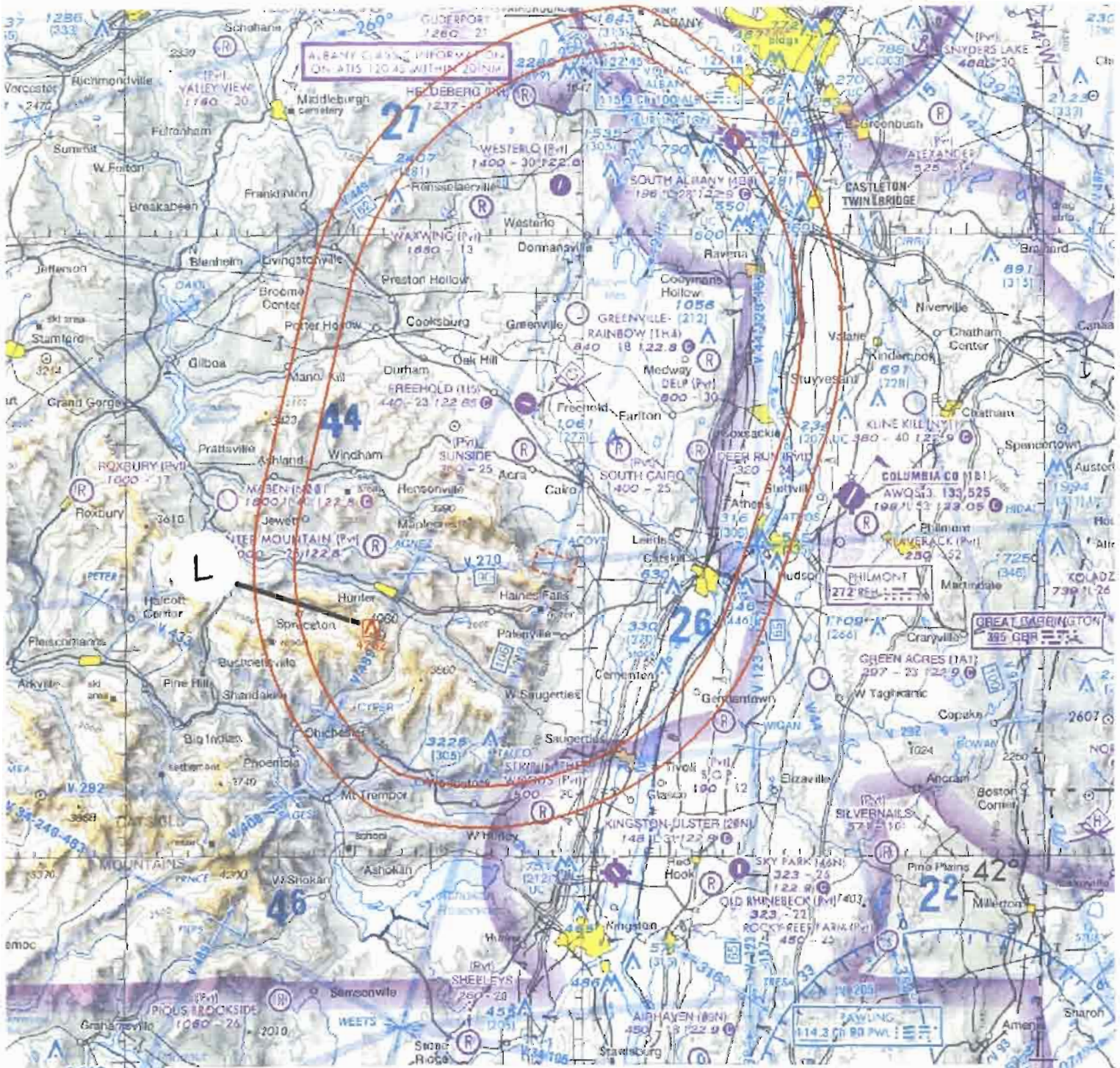
BARNES TRANSITION (BAF.FLOSI2)
NELIE TRANSITION (NELIE.FLOSI2)
GENESEO TRANSITION (GEE.FLOSI2)
HANAA TRANSITION (HANAA.FLOSI2)
HANCOCK TRANSITION (HNK.FLOSI2)

. . . . From FLOSI fix on track 211° to CRANK, then on track 211° to SHAFF, then on track 211° to SAX VORTAC, then on track 197° to PHLBO, then on track 191° to HOKIR, then on heading 180°. Expect radar vectors to final approach course.

NM 7 14 21 28 35 42 49

FT 42000 84000 126000 168000 210000 252000 294000

fpodws | ewr_acove (PROD) | 28 Dec 2011 13:34:31 | 1" = 41666.7 feet (MAP)

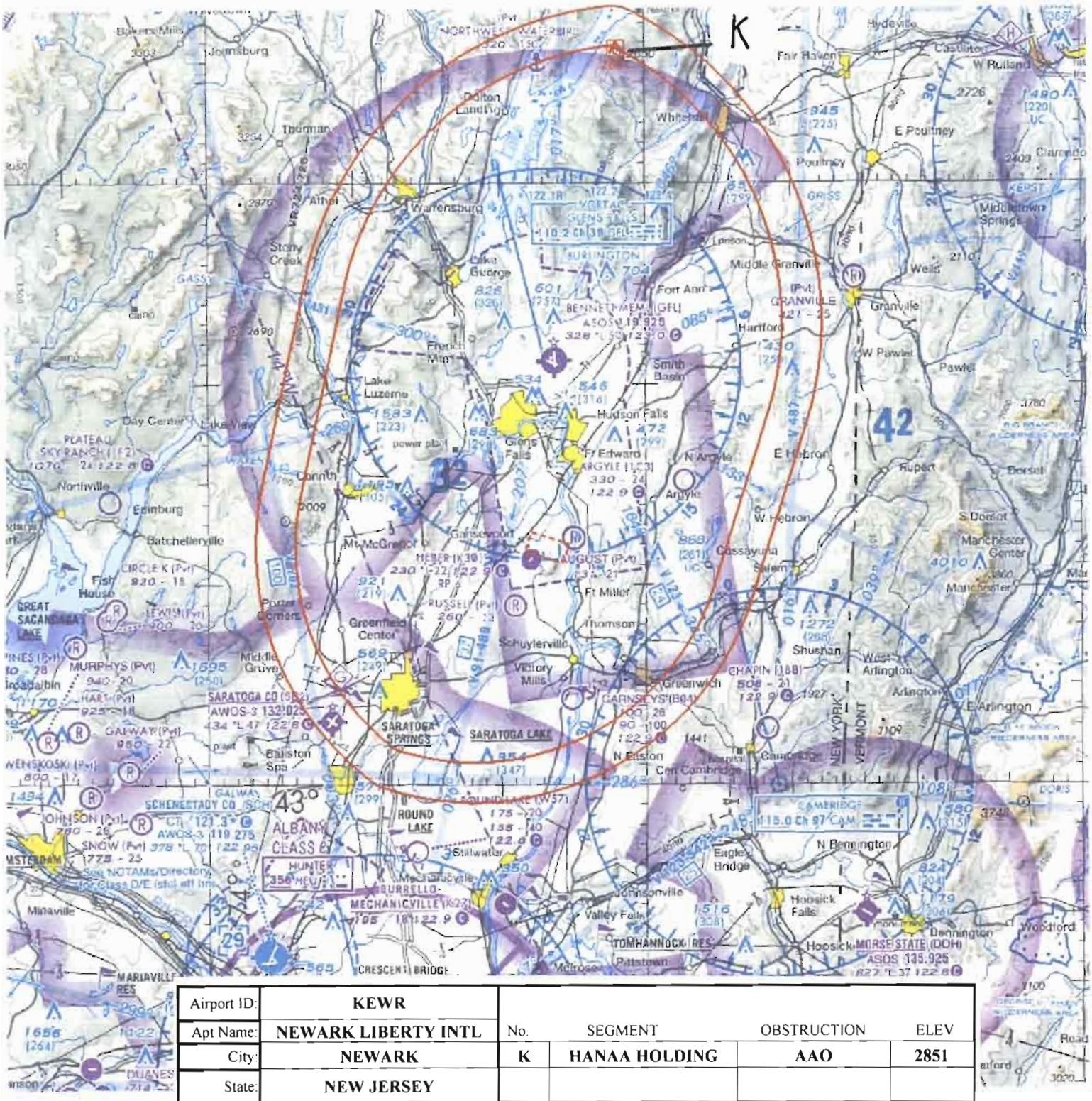


Airport ID:	KEWR				
Apt Name:	NEWARK LIBERTY INTL	No.	SEGMENT	OBSTRUCTION	ELEV
City:	NEWARK	L	ACOVE HOLDING	AAO	4262
State:	NEW JERSEY				
Proc ID:	FLOSI (RNAV) ARR				
Amdt #:	2				
Scale:	1: 500,000				

NM 7 14 21 28 35 42 49

FT 42000 84000 126000 168000 210000 252000 294000

fpodws | ewr_hanaa (PROD) | 28 Dec 2011 13:36:19 | 1" = 41666.7 feet (MAP)

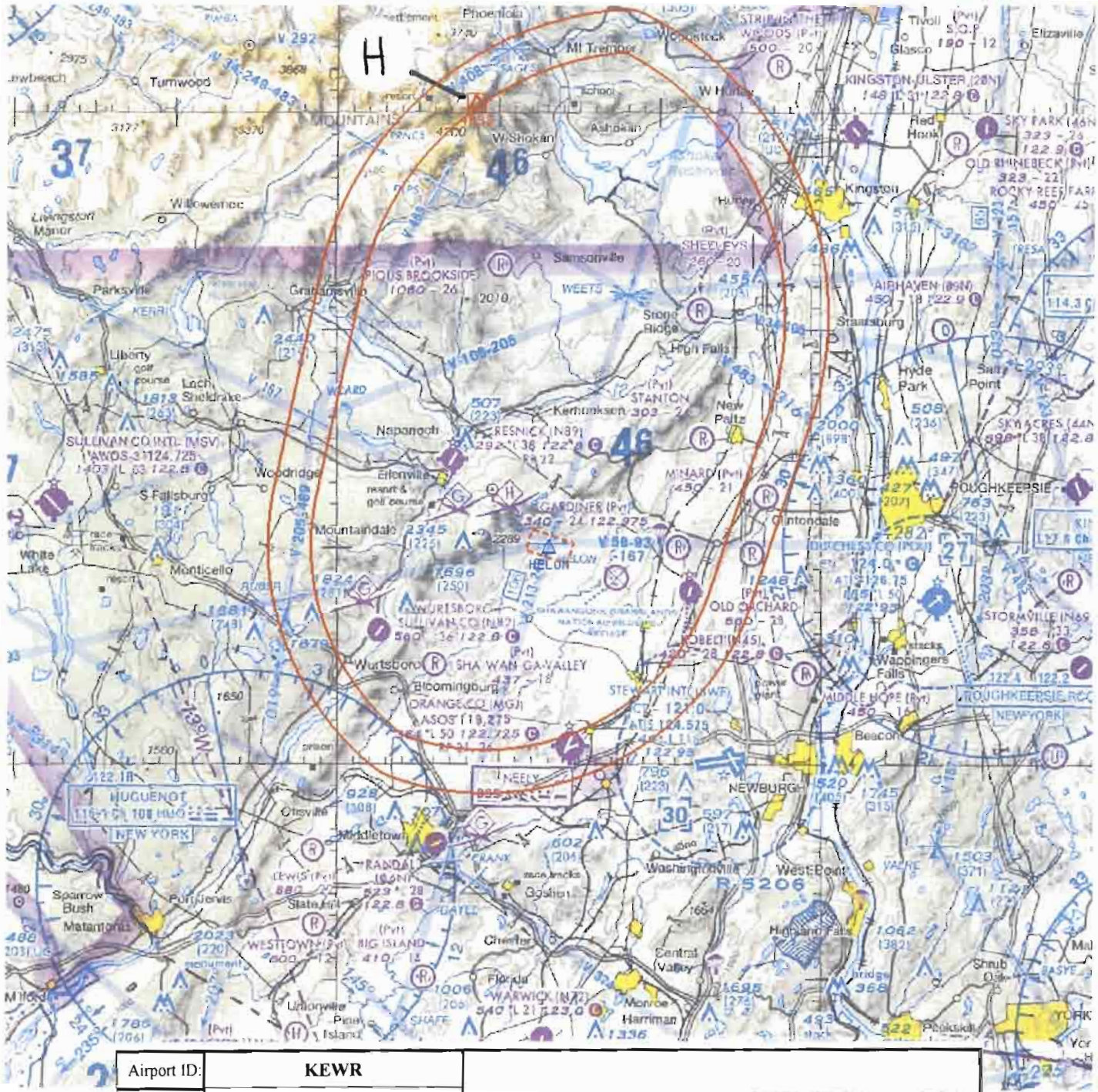


Airport ID:	KEWR				
Apt Name:	NEWARK LIBERTY INTL	No.	SEGMENT	OBSTRUCTION	ELEV
City:	NEWARK	K	HANAA HOLDING	AAO	2851
State:	NEW JERSEY				
Proc ID:	FLOSI (RNAV) ARR				
Amdt #:	2				
Scale:	1: 500,000				

NM 7 14 21 28 35 42 49

FT 42000 84000 126000 168000 210000 252000 294000

fpodws | ewr_helon (PROD) | 20 Dec 2011 12:39:25 | 1" = 41666.7 feet (MAP)



Airport ID:	KEWR				
Apt Name:	NEWARK LIBERTY INTL	No.	SEGMENT	OBSTRUCTION	ELEV
City:	NEWARK	H	HELON HOLDING	AAO	4033
State:	NEW JERSEY				
Proc ID:	FLOSI (RNAV) ARR				
Amdt #:	2				
Scale:	1: 500,000				

NM 7 14 21 28 35 42 49

FT 42000 84000 126000 168000 210000 252000 294000

fpodws | ewr_kodey (PROD) | 21 Dec 2011 09:12:48 | 1" = 41666.7 feet (MAP)

Airport ID:	KEWR				
Apt Name:	NEWARK LIBERTY INTL	No.	SEGMENT	OBSTRUCTION	ELEV
City:	NEWARK	1	KODEY HOLDING	AAO	2366
State:	NEW JERSEY				
Proc ID:	FLOSI (RNAV) ARR				
Amdt #:	2				
Scale:	1: 500,000				

NM 7 14 21 28 35 42 49

FT 42000 84000 126000 168000 210000 252000 294000

fpodws | ewr_shaff (PROD) | 27 Dec 2011 10:37:50 | 1" = 41666.7 feet (MAP)

Airport ID:	**KEWR**
Apt Name:	**NEWARK LIBERTY INTL**
City:	**NEWARK**
State:	**NEW JERSEY**
Proc ID:	**FLOSI (RNAV) ARR**
Amdt #:	**2**
Scale:	**1: 500,000**

No.	SEGMENT	OBSTRUCTION	ELEV
J	**SHAFF HOLDING**	**AAO**	**1900**

BOWAN

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : ALBANY	City : ALBANY	Ident : ALB	State : NY
Type/Class : TACR	Frequency : M1187	Reference No.: 11128151	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 901866-031	175	0	41	52	175

Requirement: GRANDFATHERED: FIX BOWAN, KEWR SHAFF ARRIVAL.		
Signature: Sauer David	Routing Symbol:	Date: 12/19/2011

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 901866-031	175	0	41	52	175	APPROVE

Requirement/Remarks: GRANDFATHERED: FIX BOWAN, KEWR SHAFF ARRIVAL.APPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.		
Signature: Cassella Charles	Routing Symbol:	Date: 12/22/2011

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 901866-031	175	0	41	52	175	APPROVE

Requirement/Remarks: GRANDFATHERED: FIX BOWAN, KEWR SHAFF ARRIVAL.APPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.		
Signature: Hughes Dennis	Routing Symbol:	Date: 12/22/2011

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 901866-031	175	0				

Requirement/Remarks:		
Signature:	Routing Symbol:	Date:

BOWAN

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : ALBANY	City : ALBANY	Ident : ALB	State : NY
Type/Class : L-VOR	Frequency : M115.3	Reference No.: 11128150	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 901865-062	175	0	41	52	175

Requirement: GRANDFATHERED: FIX BOWAN, KEWR SHAFF ARRIVAL.		
Signature: Sauer David	Routing Symbol:	Date: 12/19/2011

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 901865-062	175	0	41	52	175	APPROVE

Requirement/Remarks: GRANDFATHERED: FIX BOWAN, KEWR SHAFF ARRIVAL.APPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.		
Signature: Cassella Charles	Routing Symbol:	Date: 12/22/2011

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 901865-062	175	0	41	52	175	APPROVE

Requirement/Remarks: GRANDFATHERED: FIX BOWAN, KEWR SHAFF ARRIVAL.APPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.		
Signature: Hughes Dennis	Routing Symbol:	Date: 12/22/2011

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 901865-062	175	0				

Requirement/Remarks:		
Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : BINGHAMTON	City : BINGHAMTON	Ident : CFB	State : NY
Type/Class : TACR	Frequency : M1020	Reference No.: 11117389	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 870140-016	129	0	91	100	175

Requirement: CRANK V374		
Signature: Brody Abraham	Routing Symbol: AJV-311	Date: 11/10/2011

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 870140-016	129	0	91	100	175	APPROVE

Requirement/Remarks: CRANK V374Approved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.		
Signature: Cassella Charles	Routing Symbol:	Date: 11/14/2011

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 870140-016	129	0	91	100	175	APPROVE

Requirement/Remarks: CRANK V374Approved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.		
Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 11/14/2011

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 870140-016	129	0				

Requirement/Remarks:		
Signature:	Routing Symbol:	Date:

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : BINGHAMTON	City : BINGHAMTON	Ident : CFB	State : NY
Type/Class : L-VOR	Frequency : M112.2	Reference No.: 11117388	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 870139-028	129	0	91	100	175

Requirement: CRANK V374		
Signature: Brody Abraham	Routing Symbol: AJV-311	Date: 11/10/2011

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 870139-028	129	0	91	100	175	APPROVE

Requirement/Remarks: CRANK V374Approved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.		
Signature: Cassella Charles	Routing Symbol:	Date: 11/14/2011

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 870139-028	129	0	91	100	175	APPROVE

Requirement/Remarks: CRANK V374Approved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.		
Signature: CHRISTEIN THOMAS	Routing Symbol:	Date: 11/14/2011

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 870139-028	129	0				

Requirement/Remarks:		
Signature:	Routing Symbol:	Date:

EXTOL

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : HANCOCK	City : HANCOCK	Ident : HNK	State : NY
Type/Class : H-VOR	Frequency : M116.8	Reference No.: 11128146	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 683249-010	313	0	69	110	166

Requirement: FIX EXTOL, KEWR SHAFF ARRIVAL.		
Signature: Sauer David	Routing Symbol:	Date: 12/19/2011

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 683249-010	313	0	69	110	166	APPROVE

Requirement/Remarks: FIX EXTOL, KEWR SHAFF ARRIVAL.APPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.		
Signature: Cassella Charles	Routing Symbol:	Date: 12/22/2011

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 683249-010	313	0	69	110	166	APPROVE

Requirement/Remarks: FIX EXTOL, KEWR SHAFF ARRIVAL.APPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.		
Signature: Hughes Dennis	Routing Symbol:	Date: 12/22/2011

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 683249-010	313	0				

Requirement/Remarks:		
Signature:	Routing Symbol:	Date:

EXTOL

ESV Details

Originating Office :	Airspace Docket Number :	Request Type : Establish	
Facility Data			
Chart Name : HANCOCK	City : HANCOCK	Ident : HNK	State : NY
Type/Class : DMER	Frequency : M1202	Reference No.: 11128147	

Expanded Service Volume Data: (Requesting Officer)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude
FAA 683250-005	313	0	69	110	166

Requirement: FIX EXTOL, KEWR SHAFF ARRIVAL.

Signature: Sauer David	Routing Symbol:	Date: 12/19/2011

Expanded Service Volume Data: (FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 683250-005	313	0	69	110	166	APPROVE

Requirement/Remarks: FIX EXTOL, KEWR SHAFF ARRIVAL.APPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: Cassella Charles	Routing Symbol:	Date: 12/22/2011

Expanded Service Volume Data: (Super FMO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 683250-005	313	0	69	110	166	APPROVE

Requirement/Remarks: FIX EXTOL, KEWR SHAFF ARRIVAL.APPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT.

Signature: Hughes Dennis	Routing Symbol:	Date: 12/22/2011

Expanded Service Volume Data: (FIFO)

ESV ID	Radial 1	Radial 2	Distance	Minimum Altitude	Maximum Altitude	Action Type
FAA 683250-005	313	0				

Requirement/Remarks:

Signature:	Routing Symbol:	Date:

FLOSI

ESV ID	Radial 1	Radial 2	Distance	Alt Min	Alt Max	Fight Check Date
FAA 700558-018	315	0	35	180	390	

Requirement : 060803E PRNCE INT/SUPPORTS KINGSTON STAR INTO JFK AIRPORT 061004 GRANDFATHER RULE/POLICY... ALSO, PLEASE PROVIDE THE SIGNAL STRENG080828 AVN-150 FC SAT 11/14/06, ELLIOTT, N77

Ident - IGN City - KINGSTON, NY **Frequency - 1210-MHz** **Facility - DMER**

ESV ID	Radial 1	Radial 2	Distance	Alt Min	Alt Max	Fight Check Date
FAA 712439-013	225	0	46	180	250	08/21/2011

Requirement : 110524E DOORE INT FOR KINGSTON STAR 110524 Approved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT. APPROVED ESV EXISTS

FAA 712439-004	315	0	35	180	410	

Requirement : 060803E PRNCE INT/SUPPORTS KINGSTON STAR INTO JFK AIRPORT 0704191Restricted. Due to INTERFERENCE MAX ALT=FL410 070502 AVN - 150

FAA 712439-003	302	0	10	180	450	

Requirement : 060728E YODAA INT/ON J59 & J522/EXISTING ESV: IGN VOR/DME R-30070321 Approved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT. 070406 AVN - 150

Ident - IGN City - KINGSTON, NY **Frequency - 117.6-MHz** **Facility - L-VOR**

ESV ID	Radial 1	Radial 2	Distance	Alt Min	Alt Max	Fight Check Date
FAA 700558-017	302	0	10	180	450	

Requirement : 060728E YODAA INT/ON J59 & J522/EXISTING ESV: IGN VOR/DME R-30070321 Approved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT. 070406

Ident - IGN City - KINGSTON, NY **Frequency - 1210-MHz** **Facility - DMER**

ESV ID	Radial 1	Radial 2	Distance	Alt Min	Alt Max	Fight Check Date
FAA 712439-005	265	0	25	185	450	

Requirement : 070712E GRANDFATHERED: FLOSI INT/V213-249/J6/UNABLE TO FIND ES070723 Approved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT. 071001 AVN-150

Ident - IGN City - KINGSTON, NY **Frequency - 117.6-MHz** **Facility - L-VOR**

ESV ID	Radial 1	Radial 2	Distance	Alt Min	Alt Max	Fight Check Date
FAA 700558-019	265	0	25	185	450	

Requirement : 070712E GRANDFATHERED: FLOSI INT/V213-249/J6/UNABLE TO FIND ES070718 Approved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT. 071001 AVN-150

Ident - IGN City - KINGSTON, NY **Frequency - 1210-MHz** **Facility - DMER**

ESV ID	Radial 1	Radial 2	Distance	Alt Min	Alt Max	Fight Check Date
FAA 712439-010	128	0	26	180	450	01/14/2010

Requirement : 091214E GRANDFATHERED: SUPPORT GREKI DEPICTION ON H10/H12 ENRO091218 Approved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT. EXISTING ON FILE

FAA 712439-012	225	0	20	180	450	08/21/2011

Requirement : 110524E LOLLY INT FOR KINGSTON STAR 110524 Approved. Pend. Flight Chk/Inspect @ the

BOWAN

Approved ESVs Report

Region - EA

Ident - CAM City - CAMBRIDGE, NY **Frequency - 115-MHz** **Facility - L-VOR**

ESV ID	Radial 1	Radial 2	Distance	Alt Min	Alt Max	Fight Check Date
FAA 711533-002	16	0	41	40	175	
Requirement : 900101E V487 900101A 900101A						
FAA 711533-007	203	0	75	180	370	
Requirement : 900101E TRSN 900101A 900101A						
FAA 711533-010	118	0	48	90	250	
Requirement : 900101E BOS ARR 900101A 900101A						
FAA 711533-011	203	0	54	38	180	
Requirement : 900101E SUPPORT B487 900101A 900101A						
FAA 711533-012	10	0	55	180	450	
Requirement : 900101E J222 900101A 900101A						
FAA 711533-013	193	0	93	180	310	
Requirement : 900101E J222 900101A 900101A						
FAA 711533-014	91	0	63	180	450	
Requirement : 900101E J547 900101A 900101A						
FAA 711533-015	290	0	63	180	450	
Requirement : 900101E J547 900101A 900101A						
FAA 711533-017	34	0	53	57	70	
Requirement : 970814AFEEDER ROUTE TO RUTLAND STATE. VT						
FAA 711533-019	33	0	51	57	175	
Requirement : 990624AFEEDER RTE FOR RWY 19 RUTLAND STATE RUTLAND VT						
FAA 711533-020	304	0	46	180	450	
Requirement : 010710AARNII NAT'L CHOKE POINT RELIEF						
FAA 711533-021	16	0	42	40	180	
Requirement : V487						
FAA 711533-022	39	0	51	60	180	
Requirement : V447 MUDDI Int						
FAA 711533-023	187	0	83	80	175	
Requirement : MARTN Int						

FAA 711533-024	187	0	70	60	175	

Requirement : New Requirement

FAA 711533-025	203	0	45	38	175	

Requirement : HIDAL Int.

Ident - CAM City - CAMBRIDGE, NY **Frequency - 1184-MHz** **Facility - DMER**

ESV ID	Radial 1	Radial 2	Distance	Alt Min	Alt Max	Fight Check Date
FAA 704191-003	16	0	42	40	180	

Requirement : V487

FAA 704191-004	39	0	51	60	180	

Requirement : V447 MUDDI Int

FAA 704191-005	187	0	83	80	175	

Requirement : MARTN Int

FAA 704191-006	187	0	70	60	175	

Requirement : New Requirement

FAA 704191-007	203	0	45	38	175	

Requirement : HIDAL Int.

FAA 704191-001	33	0	52	57	175	

Requirement : 070319E KOPVE FIX 070411 Approved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT. 071218 AVN-150 SEE COMMENTS ON VOR ESV

FAA 704191-002	203	0	54	38	175	

Requirement : 070711E GRANDFATHERED: BOWAN INT/V487/UNABLE TO FIND ESV HARD 070717 Approved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT. 071001 AVN-150

FAA 704191-010	220	0	16	194	390	06/14/2010

Requirement : 100831E GRANDFATHERED: WOBLY INT,POPPP STAR,FC 6/14/10,PRESSLE100831 Approved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Ident - CAM City - CAMBRIDGE, NY **Frequency - 115-MHz** **Facility - L-VOR**

ESV ID	Radial 1	Radial 2	Distance	Alt Min	Alt Max	Fight Check Date
FAA 711533-029	220	0	16	194	390	06/14/2010

Requirement : 100831E GRANDFATHERED: WOBLY INT,POPPP STAR,FC 6/14/10,PRESSLE100831 Approved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT.

Get (100 Records) **Next >>**

EXTOL

Requirement : BULGE Int

Ident - GEE City - GENESEO, NY **Frequency - 108.2-MHz** **Facility - L-VOR**

ESV ID	Radial 1	Radial 2	Distance	Alt Min	Alt Max	Fight Check Date
FAA 690548-012	314	0	41	40	175	

Requirement : 040719E AIRCO INT, FEEDER FIX FOR IAG TACAN RWY 28R 040805 ESV APPROVED 080624 AVN-150 FC SAT MARINO N74 02/23/2005

Ident - GEE City - GENESEO, NY **Frequency - 980-MHz** **Facility - DME**

ESV ID	Radial 1	Radial 2	Distance	Alt Min	Alt Max	Fight Check Date
FAA 694046-004	314	0	41	40	175	

Requirement : 040708E AIRCO INT, FEEDER FIX FOR IAG TACAN RWY 28R 040719 ESV APPROVED 080624 AVN-150 FC SAT MARINO N74 02/23/2005

FAA 694046-005	111	0	51	110	210	

Requirement : 060726E EXTOL INT/J59 & J522/EXISTING ESV: GEE R-111, 50NM, 11061019 071001 AVN-150

Ident - GEE City - GENESEO, NY **Frequency - 108.2-MHz** **Facility - L-VOR**

ESV ID	Radial 1	Radial 2	Distance	Alt Min	Alt Max	Fight Check Date
FAA 690548-011	314	0	41	40	175	

Requirement : 040708E AIRCO INT, FEEDER FIX FOR IAG TACAN RWY 28R 040719 ESV APPROVED 070326 AVN - 150

FAA 690548-013	111	0	51	110	210	

Requirement : 060726E EXTOL INT/J59 & J522/EXISTING ESV: GEE R-111, 50NM, 11061019 071001 AVN-150

FAA 690548-015	287	0	41	40	175	

Requirement : 080312E GRANDFATHERED: V14-84 SUB RTE, GEE TO BUF/COP BUF 080313 Approved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT. 080414 AVN-150

Get (100 Records) **Next >>**

EXTOL

Approved ESVs Report

Region - EA

Ident - ROC City - ROCHESTER, NY **Frequency - 110-MHz** **Facility - L-VOR**

ESV ID	Radial 1	Radial 2	Distance	Alt Min	Alt Max	Fight Check Date
FAA 711341-019	291	0	75	80	175	

Requirement : 090206E GRANDFATHERED: N81 FLIGHT CHECK VERIFIED MEA OF 8000 F090210 Approved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT. 090527 AJW-326 ,APPROVED

ESV ID	Radial 1	Radial 2	Distance	Alt Min	Alt Max	Fight Check Date
FAA 711341-018	132	0	55	180	400	

Requirement : 090202E J522 @ EXTOL / COP. 0902031Restricted. INTERFERENCE MAX ALT=FL400 090527 AJW-326 ,APPROVED

Ident - ROC City - ROCHESTER, NY **Frequency - 998-MHz** **Facility - DMER**

ESV ID	Radial 1	Radial 2	Distance	Alt Min	Alt Max	Fight Check Date
FAA 703981-009	268	0	45	28	175	

Requirement : 090128E GRANDFATHERED: V2 SUB ROUTE/ COP BUF VOR/DME, FLT CHK 090128 Approved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT. 090528 AJW-326 ,APPROVED

Ident - ROC City - ROCHESTER, NY **Frequency - 110-MHz** **Facility - L-VOR**

ESV ID	Radial 1	Radial 2	Distance	Alt Min	Alt Max	Fight Check Date
FAA 711341-017	268	0	45	28	175	

Requirement : 090128E GRANDFATHERED: V2 SUB ROUTE/ COP BUF VOR/DME, FLT CHK 090128 Approved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT. 090528 AJW-326 ,APPROVED

Ident - ROC City - ROCHESTER, NY **Frequency - 998-MHz** **Facility - DMER**

ESV ID	Radial 1	Radial 2	Distance	Alt Min	Alt Max	Fight Check Date
FAA 703981-007	313	0	57	180	350	

Requirement : 080819E GRANDFATHERED: KLOPS ON J-522. NEW FACILITY TYPE (VDME080825 Approved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT. 090527 AJW-326 ,APPROVED

Ident - ROC City - ROCHESTER, NY **Frequency - 110-MHz** **Facility - L-VOR**

ESV ID	Radial 1	Radial 2	Distance	Alt Min	Alt Max	Fight Check Date
FAA 711341-014	313	0	57	180	350	

Requirement : 080819E GRANDFATHERED: KLOPS ON J-522. NEW FACILITY TYPE (VDME080825 Approved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT. 090527 AJW-326 ,APPROVED

Ident - ROC City - ROCHESTER, NY **Frequency - 998-MHz** **Facility - DMER**

ESV ID	Radial 1	Radial 2	Distance	Alt Min	Alt Max	Fight Check Date
FAA 703981-010	132	0	55	180	400	

Requirement : 090202E J522 @ EXTOL / COP. 0902021Restricted. INTERFERENCE MAX ALT=FL400 090211

KODEY

Approved ESVs Report

Region - EA

Ident - RKA City - ROCKDALE, NY **Frequency - 112.6-MHz** **Facility - L-VOR**

ESV ID	Radial 1	Radial 2	Distance	Alt Min	Alt Max	Fight Check Date
FAA 711465-022	313	313	40	180	450	

Requirement : 060724E HOLDING 070404 Approved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT. 080529 AVN-150 2ND RADIAL NOT NEEDED, FC SAT 11/14/06, N77 ELLIOTT

FAA 711465-037	127	0	49	100	350	

Requirement : 080603E GRANDFATHERED: CYPER INT V433, V489, BRIDGEPORT, NOBBI080603 Approved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT. 080611 AVN-150 127/48/10,000 SAT, WILSON, N70, 4/25/07

Ident - RKA City - ROCKDALE, NY **Frequency - 1160-MHz** **Facility - DMER**

ESV ID	Radial 1	Radial 2	Distance	Alt Min	Alt Max	Fight Check Date
FAA 704112-018	127	0	49	100	350	

Requirement : 080603E GRANDFATHERED: CYPER INT V433, V489, BRIDGEPORT, NOBBI080611 Approved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT. 080611 AVN-150 SAT, PAYNE, 6/3/08; R-127/49/100

Ident - RKA City - ROCKDALE, NY **Frequency - 112.6-MHz** **Facility - L-VOR**

ESV ID	Radial 1	Radial 2	Distance	Alt Min	Alt Max	Fight Check Date
FAA 711465-013	198	0	25	180	330	

Requirement : 900101E ESTABL TEMP INTXN 900101A 900101A

FAA 711465-017	256	0	27	180	450	

Requirement : 960701EAVN-110 SUPPORT J190 TO KODEY INT 960711AHEPSEN AEA-472 960625AACY FISO

FAA 711465-018	112	0	66	110	170	

Requirement : 961105EZBW SUPPORT NEW ARRIVAL ROUTE TO JFK (RKA DIRECT ATHOS) 961203AJOHN HEPSEN AEA-472

FAA 711465-002	198	0	25	50	240	

Requirement : 900101E TRSN HNK 900101A 900101A

FAA 711465-005	256	0	23	35	220	

Requirement : 900101E HLDG 900101A 900101A

FAA 711465-010	336	0	48	34	175	

Requirement : 900101E SUPPORT STODA INT 900101A 900101A

FAA 711465-012	86	0	33	180	390	

Requirement : 900101E HIGH ALT RTE 900101A 900101A

Ident - RKA City - ROCKDALE, NY **Frequency - 1160-MHz** **Facility - DMER**

ESV ID	Radial 1	Radial 2	Distance	Alt Min	Alt Max	Fight Check Date
FAA 704112-001	103	0	86	100	290	

Requirement : 050419E CHECK DME FOR SHIGY 0504281ESV APPROVED 050814

Ident - RKA City - ROCKDALE, NY **Frequency - 112.6-MHz** **Facility - L-VOR**

ESV ID	Radial 1	Radial 2	Distance	Alt Min	Alt Max	Fight Check Date
FAA 711465-019	103	0	86	100	290	

Requirement : 050419E CHECK COURSE RADIAL FOR SHIGY 0504281ESV APPROVED 050814

FAA 711465-028	292	0	62	180	450	

Requirement : Support EXTOL Intxn-STAR

FAA 711465-029	256	0	44	35	170	

Requirement : Sub Route to BGM Airport

FAA 711465-030	99	0	80	100	390	

Requirement : STAR

FAA 711465-031	292	0	29	180	350	

Requirement : STAR

FAA 711465-032	306	0	59	180	450	

Requirement : STAR

FAA 711465-033	313	0	40	190	350	

Requirement : Holding EXTOL

FAA 711465-034	256	0	68	180	390	

Requirement : Jet Route J-190

FAA 711465-036	86	0	66	43	450	

Requirement : Sub Route to ALB

Ident - RKA City - ROCKDALE, NY **Frequency - 1160-MHz** **Facility - DMER**

ESV ID	Radial 1	Radial 2	Distance	Alt Min	Alt Max	Fight Check Date
FAA 704112-009	292	0	62	180	450	

Requirement : Support EXTOL Intxn-STAR

FAA 704112-010	256	0	44	35	170	

Requirement : Sub Route to BGM Airport

FAA 704112-011	99	0	80	100	390	

Requirement : STAR

FAA 704112-012	292	0	29	180	350	

Requirement : STAR

FAA 704112-013	306	0	59	180	450
Requirement : STAR					
FAA 704112-014	313	0	40	190	350
Requirement : Holding EXTOL					
FAA 704112-015	256	0	68	180	390
Requirement : Jet Route J-190					
FAA 704112-017	86	0	66	43	450
Requirement : Sub Route to ALB					
FAA 704112-008	256	0	27	180	450
Requirement : 070711E GRANDFATHERED: KODEY INT/J190/J522/SHAFF STAR 070717 Approved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT. 071001 AVN-150					

Get (100 Records) **Next >>**

TALCO

Approved ESVs Report

Region - EA

Ident - ALB City - ALBANY, NY **Frequency - 115.3-MHz** **Facility - L-VOR**

ESV ID	Radial 1	Radial 2	Distance	Alt Min	Alt Max	Fight Check Date
FAA 901865-044	211	0	44	80	175	

Requirement : 070712E GRANDFATHERED: TALCO INT/V213/V292 070717 Approved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT. 080522 AVN-150 FC SAT, N70, PRESSLER, 8/29-31/07

Ident - ALB City - ALBANY, NY **Frequency - 1187-MHz** **Facility - TACR**

ESV ID	Radial 1	Radial 2	Distance	Alt Min	Alt Max	Fight Check Date
FAA 901866-011	211	0	33	180	450	

Requirement : 070711E GRANDFATHERED: ACOVE INT/V270/V213/J6/UNABLE TO FIND E070717 Approved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT. 080522 AVN-150 FC SAT, N70, PRESSLER, 8/29-31/07

Ident - ALB City - ALBANY, NY **Frequency - 115.3-MHz** **Facility - L-VOR**

ESV ID	Radial 1	Radial 2	Distance	Alt Min	Alt Max	Fight Check Date
FAA 901865-035	194	0	52	80	175	

Requirement : 060714E TRESA INT/NOBBI STAR/EXISTING ESV: ALB-65 NM, R-194, 6061031 080522 AVN-150 REVISED FC SAT @8000, MORTON, N58

Ident - ALB City - ALBANY, NY **Frequency - 1187-MHz** **Facility - TACR**

ESV ID	Radial 1	Radial 2	Distance	Alt Min	Alt Max	Fight Check Date
FAA 901866-002	194	0	30	180	450	

Requirement : 060605E ATHOS FIX/ALB RNAV (GPS) RWY 1 060714 GRANDFATHER RULE/POLICY... 080523 AVN-150 PRE FC SAT PUB PARNELL, 5/23/08

Ident - ALB City - ALBANY, NY **Frequency - 115.3-MHz** **Facility - L-VOR**

ESV ID	Radial 1	Radial 2	Distance	Alt Min	Alt Max	Fight Check Date
FAA 901865-034	194	0	30	180	450	

Requirement : 060605E ATHOS FIX/ALB RNAV (GPS) RWY 1 080523 AVN-150 PRE FC SAT PUB PARNELL, 5/23/08

Ident - ALB City - ALBANY, NY **Frequency - 1187-MHz** **Facility - TACR**

ESV ID	Radial 1	Radial 2	Distance	Alt Min	Alt Max	Fight Check Date
FAA 901866-010	211	0	57	100	175	

Requirement : 070711E GRANDFATHERED: WEETS INT/V213/UNABLE TO FIND ESV HARD 070711 Approved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT. 080522 AVN-150 8000 OT, SAT @ 10000, N70, PRESSLER 8/29/07

Ident - ALB City - ALBANY, NY **Frequency - 115.3-MHz** **Facility - L-VOR**

- 150 FC SAT R-147/47/180/450, DURLEY FELDER 9/9/02, WILL CO

FAA 901866-008	222	0	44	100	175

Requirement : 070320E GRANDFATHERED: CYPER INT/EXISTING FIX ON V489 & V433/U070404 Approved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT. 070427 AVN - 150 FC UNSATISFACTORY AT 6000', SATISFACTORY AT 10,000'.

Ident - ALB City - ALBANY, NY **Frequency - 115.3-MHz** **Facility - L-VOR**

ESV ID	Radial 1	Radial 2	Distance	Alt Min	Alt Max	Fight Check Date
FAA 901865-041	222	0	44	100	175	

Requirement : 070320E GRANDFATHERED: CYPER INT/EXISTING FIX ON V489 & V433/U070404 Approved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT. 070427 AVN - 150 FC UNSATISFACTORY AT 6000', SATISFACTORY AT 10,000'.

FAA 901865-040	147	0	42	180	450

Requirement : 061219E PONEE INT/ON J68/TEDDY STAR FOR KPVD/PRE-EXISTING ESV:070301 070531 AVN - 150 FC SAT R-147/47/180/450, DURLEY FELDER 9/9/02, WILL CO

FAA 901865-038	238	0	46	60	175

Requirement : 060810E PETER INT/FIX ON V433 & V270/SUPPORTS NOBBI STAR FOR K070226 070406 AVN - 150

Ident - ALB City - ALBANY, NY **Frequency - 1187-MHz** **Facility - TACR**

ESV ID	Radial 1	Radial 2	Distance	Alt Min	Alt Max	Fight Check Date
FAA 901866-004	222	0	44	180	350	

Requirement : 060726E CYPER INT/ATC REQUEST FOR HAARP STAR (KLGA) 070226 070404 AVN - 150

Ident - ALB City - ALBANY, NY **Frequency - 115.3-MHz** **Facility - L-VOR**

ESV ID	Radial 1	Radial 2	Distance	Alt Min	Alt Max	Fight Check Date
FAA 901865-037	222	0	44	180	350	

Requirement : 060726E CYPER INT/ATC REQUEST FOR HAARP STAR (KLGA) 070222 070427 AVN - 150

Ident - ALB City - ALBANY, NY **Frequency - 1187-MHz** **Facility - TACR**

ESV ID	Radial 1	Radial 2	Distance	Alt Min	Alt Max	Fight Check Date
FAA 901866-012	211	0	44	80	175	

Requirement : 070712E GRANDFATHERED: TALCO INT/V213/V292 070717 Approved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT. 071001 AVN-150

Ident - ALB City - ALBANY, NY **Frequency - 115.3-MHz** **Facility - L-VOR**

ESV ID	Radial 1	Radial 2	Distance	Alt Min	Alt Max	Fight Check Date
FAA 901865-043	211	0	33	180	450	

Requirement : 070711E GRANDFATHERED: ACOVE INT/V270/V213/J6/UNABLE TO FIND E070717 Approved. Pend. Flight Chk/Inspect @ the req. dist. and MIN ALT. 071001 AVN-150

Ident - ALB City - ALBANY, NY **Frequency - 1187-MHz** **Facility - TACR**

US Department of Transportation
Federal Aviation Administration

STAR - Standard Terminal Arrival

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

(1) Transition Routes

(a) Transition Name	(b) Transition Computer Codes	(c) From RNAV WP / FIX / NAVAID	(d) To RNAV WP / FIX / NAVAID	(e) Mag Course / Distance	(f) MEA	(g) MOCA	(h) MAA	(i) Crossing Altitudes / Fixes
BARNES	BAF.FLOSI2	BAF VORTAC	BOWAN	278.00/36.25	14000			
			WIGAN	277.46/13.03	14000			
			TALCO	277.25/13.15	14000			
			WEETS	211.14/12.95	8000			
			HELON	211.08/11.99	8000			
			FLOSI	211.03/07.81	5000			
GENESEO	GEE.FLOSI2	GEE VOR/DME	EXTOL	114.76/50.39	17000			
			KODEY	134.18/43.41	17000			
			HNK VOR/DME	134.75/24.60	17000			
			HELON	129.72/52.15	8000			
			FLOSI	211.03/07.81	5000			

(2) Arrival Route Description: FROM FLOSI FIX ON TRACK 211.00/8.00 TO CRANK (MEA 5000), THEN ON TRACK 210.96/8.00 TO SHAFF (MEA 5000), THEN ON TRACK 210.92/14.00 TO SAX VORTAC (MEA 4000), THEN ON TRACK 197.01/14.26 TO PHLBO (MEA 4000), THEN ON TRACK 190.68/10.49 TO HOKIR (MEA 4000), THEN ON HEADING 180.00. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

(3) Procedural Data Notes:
CHART NOTE: DME/DME/IRU OR GPS REQUIRED.
CHART NOTE: RADAR REQUIRED.
CHART NOTE: RNAV 1.
CHART NOTE: TURBOJET AND TURBOPROP AIRCRAFT 250 KIAS OR GREATER ARE AUTHORIZED.
CHART NOTE: DOMESTIC ARRIVALS FROM THE EAST FILE NELIE TRANSITION.
CHART NOTE: NORTH ATLANTIC ARRIVALS VIA BOS FILE BAF TRANSITION.
CHART NOTE: USE CAUTION: GLIDER ACTIVITY BETWEEN FLOSI AND SHAFF.
CHART NOTE: LANDING RWY 22L/R APPROACHING SAX VORTAC EXPECT RADAR VECTORS.
CHART NOTE: LANDING RWY 11 APPROACHING PHILBO EXPECT RADAR VECTORS.
CHART NOTE: LANDING RWY 4L/R & RWY 29 APPROACHING HOKIR EXPECT RADAR VECTORS.
CHART NOTE AT HANAA: EXPECT TO CROSS AT OR BELOW FL 240.
CHART NOTE AT BAF VORTAC: EXPECT TO CROSS 10NM EAST OF BAF AT OR BELOW 16000.
CHART NOTE AT CRANK: EXPECT TO CROSS AT 7000.
CHART NOTE AT NELIE: EXPECT TO CROSS AT OR BELOW 16000.
CHART NOTE AT HNK VORTAC: EXPECT TO CROSS AT OR BELOW LOWEST USABLE FLIGHT LEVEL.
CHART NOTE: USE CAUTION: PARACHUTE OPERATIONS 4NM RADIUS OF 5NY5 AT OR BELOW 14,500.

(4) Fixes and/or Holding Patterns: CHART: SKEEE (HOLD NE, RT, 217.00 INBOUND, 10NM), HANAA (HOLD NE, RT 210.30 INBOUND, 10NM), KODEY (HOLD NW, LT 133.00 INBOUND, 10NM), HELON (HOLD NE, RT, 211.03 INBOUND, 10NM), SHAFF (HOLD NE, LT, 210.92 INBOUND, 10NM), ACOVE (HOLD NE, RT, 211.20 INBOUND, 10NM). CHART 5NY5

QUALITY CHECKED

(5) Communications: NEWARK ATIS 115.7/134.82; BOSTON ARTCC 126.47/388.8 134.3/256.9; NEW YORK APP CON 120.15/379.9

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
FLOSI (RNAV)	TWO	FLOSI.FLOSI2	ONE	JUNE 27, 2008	

(12) Airports Served	
Airport Name NEWARK LIBERTY INTL	City/State NEWARK, NJ
Airport Name	City/State
Airport Name	City/State
Airport Name	City/State
Airport Name	City/State
Airport Name	City/State

(13) Lost Communications Procedure:

(14) Remarks: ENVIRONMENTAL DOCUMENTATION ON FILE AT NY TRACON. MEAs ARE MINIMUM NAVIGATION ALTITUDE USED FOR RNAV DME EVALUATION.

(15) Additional Flight Data:
REFERENCE MAGNETIC VARIATION = KEWR 13W/1985
DME/DME/IRU ASSESSMENT: SAT RNP 2.0

QUALITY CHECKED

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
FLOSI (RNAV)	TWO	FLOSI.FLOSI2	ONE	JUNE 27, 2008	

(16) Continuation:

(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
HANAA	HANAA.FLOSI2	HANAA	ALB VORTAC	210.30/28.29	17000			
			ACOVE	211.35/32.37	17000			
			TALCO	211.20/10.86	14000			
			WEETS	211.14/12.95	8000			
			HELON	211.08/11.99	8000			
			FLOSI	211.03/07.81	5000			
HANCOCK	HNK.FLOSI2	HNK VOR/DME	HELON	129.72/52.15	8000			
			FLOSI	211.03/07.81	5000			
NELIE	NELIE.FLOSI2	NELIE	IGN VOR/DME	265.38/53.49	8000			
			FLOSI	265.56/24.17	5000			

(17) Changes:

1) CHANGED NOTE: DOMESTIC ARRIVALS FROM THE EAST EXPECT "BDL TRANSITION" TO "NELIE TRANSITION".
2) REMOVED NOTES: "FLOSI RNAV STAR IS FOR ALL RWYS", "AIRCRAFT CAN EXPECT TO BE ASSIGNED RWY 11", AND "CHECK AIRCRAFT LANDING PERFORMANCE..."
3) ADDED NOTE "CHART NOTE: USE CAUTION: PARACHUTE OPERATIONS 4NM RADIUS OF 5NY5 AT OR BELOW 14,500".
4) REPLACED ALB TRANSITION WITH HANAA TRANSITON AND CORRECTED COMPUTER CODE HANAA.FLOSI2.
5) REPLACED BDL TRANSITION WITH NELIE TRANSITION.
6) CHANGED GLIDER ACTIVITY NOTE "...HELON WP AND CRANK WP" TO "...FLOSI AND SHAFF".
7) CHANGED NOTE HNK VOR/DME FROM "EXPECT TO CROSS AT FL180 OR LOWEST USEABLE FL" TO "EXPECT TO CROSS AT OR BELOW LOWEST USABLE FLIGHT LEVEL"
8) CHANGED NOTE "APPROACHING SAX VORTAC FOR LANDING RWY 22L/R EXPECT..." TO "LANDING RWY 22L/R APPROACHING SAX VORTAC EXPECT..."
9) CHANGED NOTE "APPROACHING PHLBO WP LDG RWY 11 EXPECT..." TO "LANDING RWY 11 APPROACHING PHILBO EXPECT..."

CONTINUED ON (16) CONTINUATION ON PAGE 6.

(18) Reasons for Changes:

1) BDL DECOMMISSIONED, NEW TRANSITION FROM NELIE.
2) ATC REQUEST.
3) ATC REQUEST.
4) CODE WAS WRONG BEFORE, AND ATC REQUEST.
5) BDL DECOMMISSIONED, NEW TRANSITION FROM NELIE.
6) ATC REQUEST.
7) ATC REQUEST.
8) ATC REQUEST.
9) ATC REQUEST.

CONCURRENT WITH KEWR SHAFF SEVEN ARRIVAL.

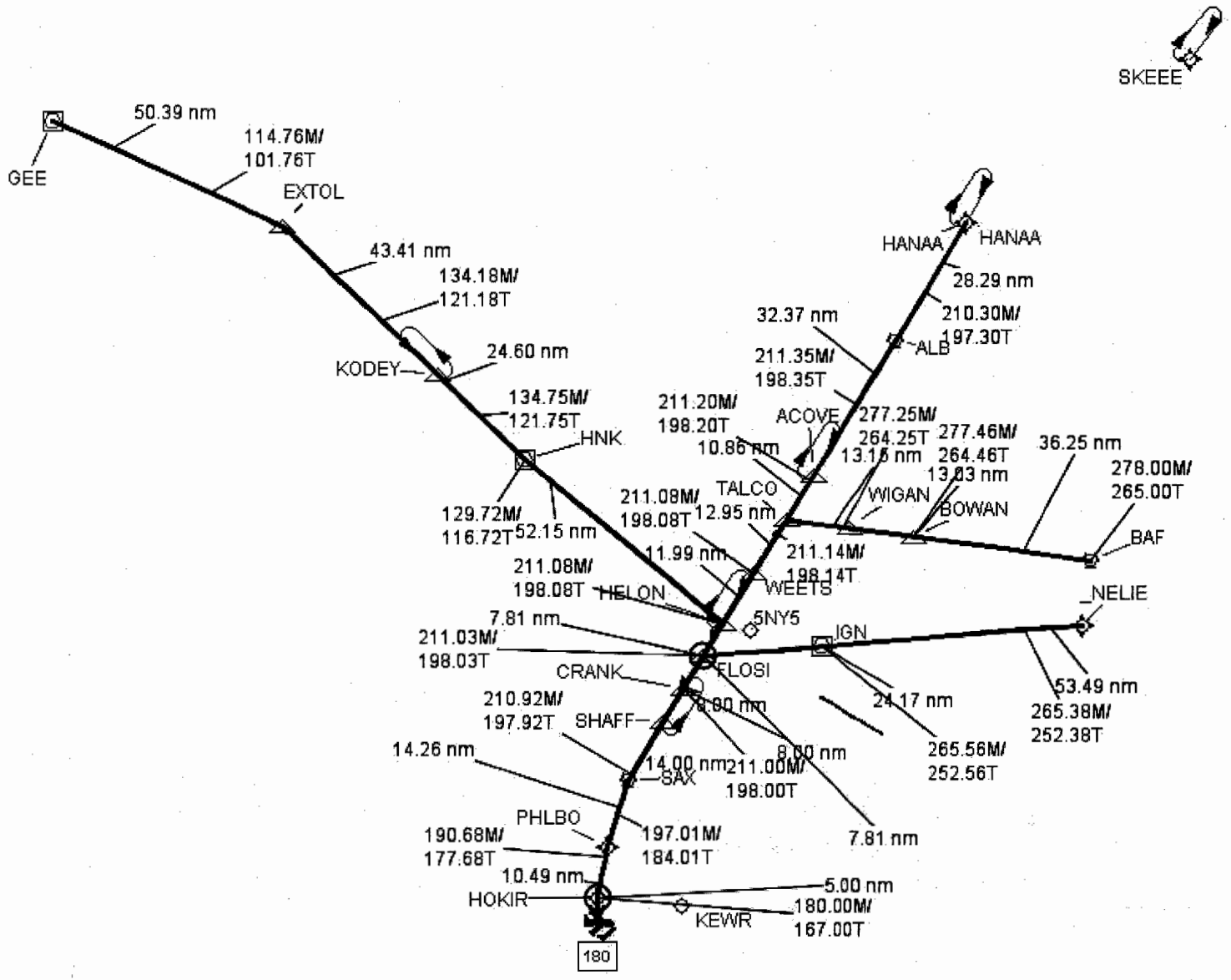
CONTINUED ON (16) CONTINUATION ON PAGE 6.

	Name (Typed and Signed), Title and Organization		DATE
Developed By	JOSEPH A. BELLABONA, SR CTR RNAV SPC, AJV-14		
Approved	**NFPG**		
	Reg. ATD		

QUALITY CHECKED

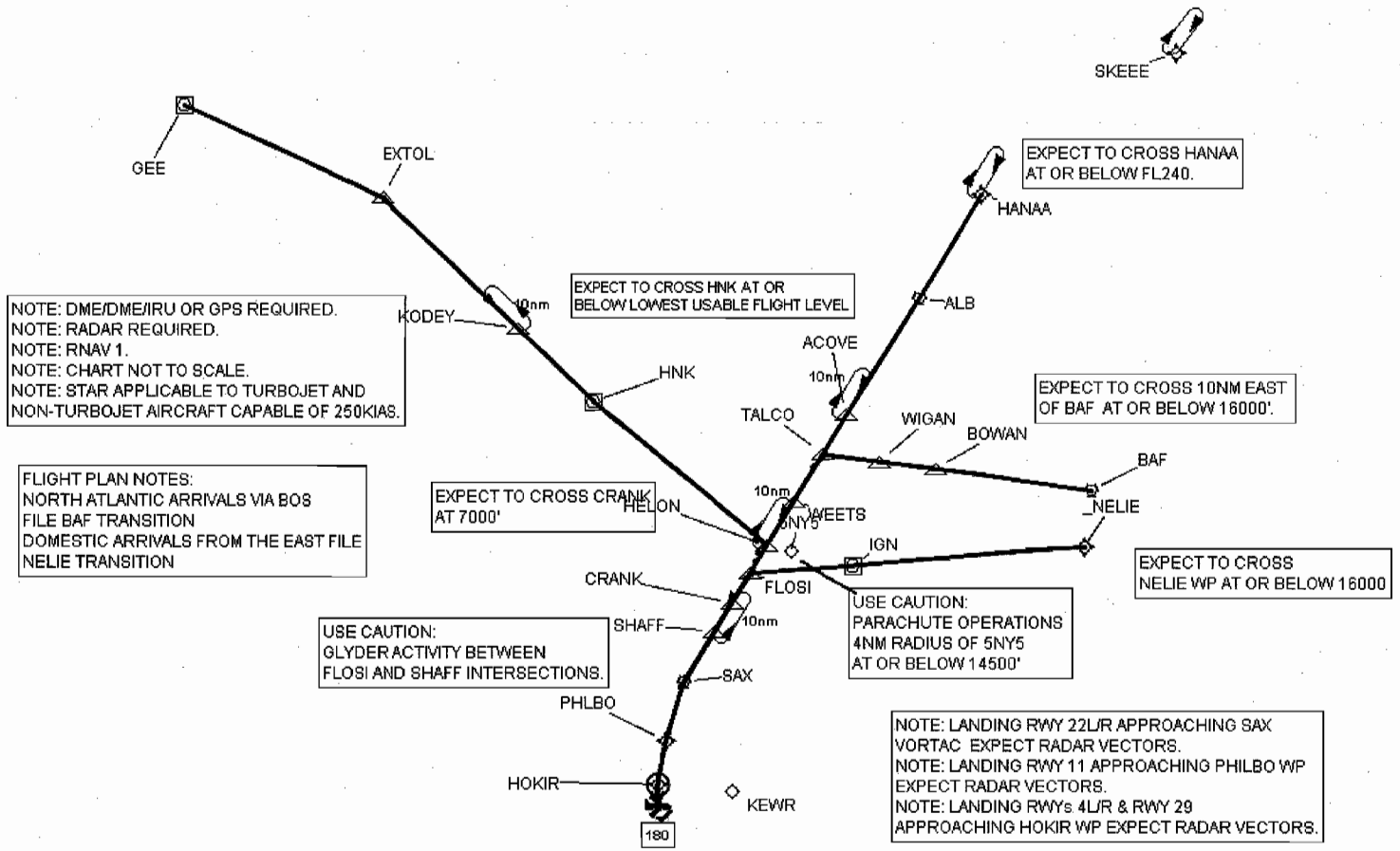
(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
FLOSI (RNAV)	TWO	FLOSI.FLOSI2	ONE	JUNE 27, 2008	

(19) Graphic Depiction (1 of 2)



QUALITY CHECKED

(19) Graphic Depiction (2 of 2)



QUALITY CHECKED

(16) Continuation (2 of 2):

(17) Changes Continued:

10) CHANGED NOTE "APPROACHING HOKIR WP LDG RWYS 4L/R & RWY 29 EXPECT..." TO "LANDING RWY 4L/R & RWY 29 APPROACHING HOKIR EXPECT..."
11) CHANGED NOTE AT HANAA FROM "EXPECT TO CROSS AT FL240" TO "EXPECT TO CROSS AT OR BELOW FL 240".
12) CHANGED NOTE AT BAF VORTAC FROM "EXPECT TO CROSS 10 NM EAST AT 16000" TO "EXPECT TO CROSS 10NM EAST OF BAF AT OR BELOW 16000".
13) CHANGED NOTE AT CRANK FROM "EXPECT TO CROSS AT OR BELOW 8000 DESCENDING TO 7000" TO "EXPECT TO CROSS AT 7000".
14) CHANGED NOTE AT BDL VORTAC TO NELIE FROM "EXPECT TO CROSS AT 16000" TO "EXPECT TO CROSS AT OR BELOW 16000".
15) CHANGED MEA BETWEEN OLD BDL VORTACT TO NEW NELIE FROM 14000 TO 8000.
16) CHANGED ALL HOLDING LEG LENGTH TO 10 NM.
17) CHANGED ALL ROUTE DESCRIPTION "VIA" TO "ON".
18) CHANGED HOLDING COURSE INBOUND AT KODEY FROM 134.75 TO 133.00.

(18) Reasons for Changes Continued:

10) ATC REQUEST.
11) ATC REQUEST.
12) ATC REQUEST.
13) ATC REQUEST.
14) ATC REQUEST.
15) ATC REQUEST.
16) ATC REQUEST.
17) APPLYING ROUTE VERBIAGE FROM 8260.19E.
18) ATC REQUEST TO HAVE SAME HOLDING COURSE AS SHAFF ARRIVAL HOLDING.

US Department of Transportation
Federal Aviation Administration

RNAV STAR (Data Record)

(1) FIX/NAVAID	(2) LAT/LONG	(3) C	(4) FO/FB	(5) LEG	(6) TC	(7) DIST	(8) ALTITUDE	(9) SPEED	(10) REMARKS
En Route Transition									
BAF VORTAC	420943.06N / 0724258.31W	Y		IF					BAF.FLOSI2, EXPECT TO CROSS 10NM EAST AT OR BELOW 16000
BOWAN	420623.14N / 0733128.95W	Y	FB	TF	265.00	36.25			
WIGAN	420506.33N / 0734853.89W	Y	FB	TF	264.46	13.03			
TALCO	420345.97N / 0740627.85W	Y	FB	TF	264.25	13.15			
WEETS	415127.07N / 0741151.58W	Y	FB	TF	198.14	12.95			
HELON	414002.72N / 0741649.52W	Y	FB	TF	198.08	11.99			
FLOSI	413236.70N / 0742002.75W	Y	FB	TF	198.03	07.81			
En Route Transition									
GEE VOR/DME	425003.83N / 0774357.90W	Y		IF					GEE.FLOSI2
EXTOL	423927.69N / 0763706.10W	Y	FB	TF	101.76	50.39			
KODEY	421647.53N / 0754704.00W	Y	FB	TF	121.18	43.41			
HNK VOR/DME	420347.01N / 0751858.62W	Y	FB	TF	121.75	24.60			EXPECT TO CROSS AT OR BELOW LOWEST USEABLE FL
HELON	414002.72N / 0741649.52W	Y	FB	TF	116.72	52.15			
FLOSI	413236.70N / 0742002.75W	Y	FB	TF	198.03	07.81			

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
FLOSI (RNAV)	TWO	FLOSI.FLOSI2	ONE	JUNE 27, 2008	

QUALITY CHECKED

US Department of Transportation
Federal Aviation Administration

RNAV STAR (Data Record)

(1) FIX/NAVAID	(2) LAT/LONG	(3) C	(4) FO/FB	(5) LEG	(6) TC	(7) DIST	(8) ALTITUDE	(9) SPEED	(10) REMARKS
En Route Transition									
HANAA	431152.06N / 0733646.17W	Y		IF					HANAA.FLOSI2, EXPECT TO CROSS AT OR BELOW FL 240
ALB VORTAC	424450.21N / 0734811.46W	Y	FB	TF	197.30	28.29			
ACOVE	421405.22N / 0740154.59W	Y	FB	TF	198.35	32.37			
TALCO	420345.97N / 0740627.85W	Y	FB	TF	198.20	10.86			
WEETS	415127.07N / 0741151.58W	Y	FB	TF	198.14	12.95			
HELON	414002.72N / 0741649.52W	Y	FB	TF	198.08	11.99			
FLOSI	413236.70N / 0742002.75W	Y	FB	TF	198.03	07.81			
En Route Transition									
HNK VOR/DME	420347.01N / 0751858.62W	Y		IF					HNK.FLOSI 2
HELON	414002.72N / 0741649.52W	Y	FB	TF	116.72	52.15			
FLOSI	413236.70N / 0742002.75W	Y	FB	TF	198.03	07.81			
En Route Transition									

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
FLOSI (RNAV)	TWO	FLOSI.FLOSI2	ONE	JUNE 27, 2008	

QUALITY CHECKED

FAA Form 7100-3 (9/02)

US Department of Transportation
Federal Aviation Administration

RNAV STAR (Data Record)

(1) FIX/NAVAID	(2) LAT/LONG	(3) C	(4) FO/FB	(5) LEG	(6) TC	(7) DIST	(8) ALTITUDE	(9) SPEED	(10) REMARKS
NELIE	415627.64N / 0724118.88W	Y		IF					NELIE.FLOSI2, EXPECT TO CROSS AT OR BELOW 16000
IGN VOR/DME	413955.61N / 0734920.00W	Y	FB	TF	252.38	53.49			
FLOSI	413236.70N / 0742002.75W	Y	FB	TF	252.56	24.17			
Common Route									
FLOSI	413236.70N / 0742002.75W	Y		IF					
CRANK	412459.79N / 0742319.93W	Y	FB	TF	198.00	08.00			EXPECT TO CROSS AT 7000
SHAFF	411722.94N / 0742636.26W	Y	FB	TF	197.96	08.00			
SAX VORTAC	410403.16N / 0743217.93W	Y	FB	TF	197.92	14.00			
PHLBO	404949.39N / 0743336.68W	Y	FB	TF	184.01	14.26			
HOKIR	403920.15N / 0743303.17W	Y	FO	TF	177.68	10.49			
KEWR		Y		VM	167.00	05.00			

QUALITY CHECKED

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
FLOSI (RNAV)	TWO	FLOSI.FLOSI2	ONE	JUNE 27, 2008	

FAA Form 7100-3 (9/02)

US Department of Transportation
Federal Aviation Administration

STAR (Data Record)

ARINC PACKET - 424-18 - STAR

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                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAD        ALB   K6011530VTL  N42445021W073481146    N42445021W073481146W0130002741     NARALBANY
        SUSAD        BAF   K6011300VTL  N42094306W072425831    N42094306W072425831W0140002681     NARBARNES
        SUSAD        GEE   K6010820VDL  N42500383W077435790    N42500383W077435790W0090009901     NARGENESEO
        SUSAD        HNK   K6011680VDHA N42034701W075185862    N42034701W075185862W0110020702     NARHANCOCK
        SUSAD        IGN   K6011760VDLA N41395562W073492007    N41395562W073492007W0120005811     NARKINGSTON
        SUSAD        SAX   K6011570VTHA N41040316W074321793    N41040316W074321793W0110014002     NARSPARTA

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   ACOVE K60    C   B N42140522W074015459                    W0135     NAR          ACOVE
        SUSAEAENRT   BOWAN K60    C   L N42062314W073312895                    W0137     NAR          BOWAN
        SUSAEAENRT   CRANK K60    C   L N41245979W074231993                    W0131     NAR          CRANK
        SUSAEAENRT   EXTOL K60    C   H N42392769W076370610                    W0121     NAR          EXTOL
        SUSAEAENRT   FLOSI K60    C   B N41323670W074200275                    W0131     NAR          FLOSI
        SUSAEAENRT   HANAA K60    W   B N43115206W073364617                    W0140     NAR          HANAA
        SUSAEAENRT   HELON K60    C   L N41400272W074164952                    W0132     NAR          HELON
        SUSAEAENRT   HOKIR K60    W     N40392015W074330317                    W0128     NAR          HOKIR
        SUSAEAENRT   KODEY K60    C   H N42164753W075470400                    W0125     NAR          KODEY
        SUSAEAENRT   NELIE K60    C   H N41562764W072411888                    W0141     NAR          NELIE
        SUSAEAENRT   PHLBO K60    W     N40494939W074333668                    W0128     NAR          PHLBO
        SUSAEAENRT   SHAFF K60    C   L N41172294W074263626                    W0130     NAR          SHAFF
        SUSAEAENRT   TALCO K60    C   L N42034597W074062785                    W0134     NAR          TALCO
        SUSAEAENRT   WEETS K60    C   B N41512707W074115158                    W0133     NAR          WEETS
        SUSAEAENRT   WIGAN K60    C   L N42050633W073485389                    W0136     NAR          WIGAN

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KEWRK6AEWR     0     110YHN40413300W074100720W013000018          1800018000C    MNAR    NEWARK LIBERTY INTL

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KEWRK6EFLOSI24BAF   010BAF  K6D 0V      IF                                                  18000
        SUSAP KEWRK6EFLOSI24BAF   020BOWANK6EA0E    010TF                    27800363
        SUSAP KEWRK6EFLOSI24BAF   030WIGANK6EA0E    010TF                    27750130
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QUALITY 1 CHECKED

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
FLOSI RNAV	TWO	FLOSI.FLOSI2	ONE	JUNE 27, 2008	

FAA Form 7100-3 (9/02)

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SUSAP KEWRK6EFLOSI24BAF   040TALCOK6EA0E    010TF                  27730132
SUSAP KEWRK6EFLOSI24BAF   050WEETSK6EA0E    010TF                  21110130
SUSAP KEWRK6EFLOSI24BAF   060HELONK6EA0E  H 010TF                  21110120
SUSAP KEWRK6EFLOSI24BAF   070FLOSIK6EA0EE   010TF                  21100078
SUSAP KEWRK6EFLOSI24GEE   010GEE  K6D 0V      IF                                        18000
SUSAP KEWRK6EFLOSI24GEE   020EXTOLK6EA0E    010TF                  11480504
SUSAP KEWRK6EFLOSI24GEE   030KODEYK6EA0E  H 010TF                  13420434
SUSAP KEWRK6EFLOSI24GEE   040HNK  K6D 0V    010TF                  13480246
SUSAP KEWRK6EFLOSI24GEE   050HELONK6EA0E  H 010TF                  12970522
SUSAP KEWRK6EFLOSI24GEE   060FLOSIK6EA0EE   010TF                  21100078
SUSAP KEWRK6EFLOSI24HANAA 010HANAAK6EA0E  H    IF                                        18000
SUSAP KEWRK6EFLOSI24HANAA 020ALB  K6D 0V    010TF                  21030283
SUSAP KEWRK6EFLOSI24HANAA 030ACOVEK6EA0E  H 010TF                  21140324
SUSAP KEWRK6EFLOSI24HANAA 040TALCOK6EA0E    010TF                  21120109
SUSAP KEWRK6EFLOSI24HANAA 050WEETSK6EA0E    010TF                  21110130
SUSAP KEWRK6EFLOSI24HANAA 060HELONK6EA0E  H 010TF                  21110120
SUSAP KEWRK6EFLOSI24HANAA 070FLOSIK6EA0EE   010TF                  21100078
SUSAP KEWRK6EFLOSI24HNK   010HNK  K6D 0V      IF                                        18000
SUSAP KEWRK6EFLOSI24HNK   020HELONK6EA0E  H 010TF                  12970522
SUSAP KEWRK6EFLOSI24HNK   030FLOSIK6EA0EE   010TF                  21100078
SUSAP KEWRK6EFLOSI24NELIE 010NELIEK6EA0E      IF                                        18000
SUSAP KEWRK6EFLOSI24NELIE 020IGN  K6D 0V    010TF                  26540535
SUSAP KEWRK6EFLOSI24NELIE 030FLOSIK6EA0EE   010TF                  26560242
SUSAP KEWRK6EFLOSI25ALL   010FLOSIK6EA0E      IF                                        18000
SUSAP KEWRK6EFLOSI25ALL   020CRANKK6EA0E    010TF                  21100080
SUSAP KEWRK6EFLOSI25ALL   030SHAFFK6EA0E  H 010TF                  21100080
SUSAP KEWRK6EFLOSI25ALL   040SAX  K6D 0V    010TF                  21090140
SUSAP KEWRK6EFLOSI25ALL   050PHLBOK6EA0E    010TF                  19700143
SUSAP KEWRK6EFLOSI25ALL   060HOKIRK6EA0EY   010TF                  19070105
SUSAP KEWRK6EFLOSI25ALL   070KEWR K6PA0AE     VM                   1800

                1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
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SUSAP KEWRK6GRW04L   0110000388 N40405396W074103166+0000    -0029300010254052150IIEWR1
SUSAP KEWRK6GRW04R   0100000388 N40404989W074102055+0000    -0029100011119055150IIEZA3
SUSAP KEWRK6GRW11    0068001080 N40421010W074105055-0100    -0027000018000057150IIGPR1
SUSAP KEWRK6GRW22L   0100002188 N40415230W074094087+0000    -0029200010179340150IILSQ1
SUSAP KEWRK6GRW22R   0110002188 N40415640W074095197+0000    -0029300010144046150IIJNN1
SUSAP KEWRK6GRW29    0068002880 N40420451W074092645+0100    -0029400010029860150R
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QUALITY 1 CHECKED

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
FLOSI RNAV	TWO	FLOSI.FLOSI2	ONE	JUNE 27, 2008	

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
	BAF	BAF	010		IF		FB					
	BAF	BOWAN	020		TF		FB	1.0	278.0()	036.3		
	BAF	WIGAN	030		TF		FB	1.0	277.5()	013.0		
	BAF	TALCO	040		TF		FB	1.0	277.3()	013.2		
	BAF	WEETS	050		TF		FB	1.0	211.1()	013.0		
	BAF	HELON	060		TF		FB	1.0	211.1()	012.0		
	BAF	FLOSI	070		TF		FB	1.0	211.0()	007.8		
	GEE	GEE	010		IF		FB					
	GEE	EXTOL	020		TF		FB	1.0	114.8()	050.4		
	GEE	KODEY	030		TF		FB	1.0	134.2()	043.4		
	GEE	HNK	040		TF		FB	1.0	134.8()	024.6		
	GEE	HELON	050		TF		FB	1.0	129.7()	052.2		
	GEE	FLOSI	060		TF		FB	1.0	211.0()	007.8		
	HANAA	HANAA	010		IF		FB					
	HANAA	ALB	020		TF		FB	1.0	210.3()	028.3		
	HANAA	ACOVE	030		TF		FB	1.0	211.4()	032.4		
	HANAA	TALCO	040		TF		FB	1.0	211.2()	010.9		
	HANAA	WEETS	050		TF		FB	1.0	211.1()	013.0		
	HANAA	HELON	060		TF		FB	1.0	211.1()	012.0		
	HANAA	FLOSI	070		TF		FB	1.0	211.0()	007.8		
	HNK	HNK	010		IF		FB					
	HNK	HELON	020		TF		FB	1.0	129.7()	052.2		
	HNK	FLOSI	030		TF		FB	1.0	211.0()	007.8		
	NELIE	NELIE	010		IF		FB					
	NELIE	IGN	020		TF		FB	1.0	265.4()	053.5		
	NELIE	FLOSI	030		TF		FB	1.0	265.6()	024.2		
	ALL	FLOSI	010		IF		FB					
	ALL	CRANK	020		TF		FB	1.0	211.0()	008.0		
	ALL	SHAFF	030		TF		FB	1.0	211.0()	008.0		
	ALL	SAX	040		TF		FB	1.0	210.9()	014.0		
	ALL	PHLBO	050		TF		FB	1.0	197.0()	014.3		
	ALL	HOKIR	060		TF		FO	1.0	190.7()	010.5		
	ALL	KEWR	070		VM		FB		180.0()			

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	ALB	N424450.21	W0734811.46	N4244.837	W07348.191
	BAF	N420943.06	W0724258.31	N4209.718	W07242.972

QUALITY 1 CHECKED

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
FLOSI RNAV	TWO	FLOSI.FLOSI2	ONE	JUNE 27, 2008	

FAA Form 7100-3 (9/02)

GEE	N425003.83	W0774357.90	N4250.064	W07743.965
HNK	N420347.01	W0751858.62	N4203.784	W07518.977
IGN	N413955.62	W0734920.07	N4139.927	W07349.335
SAX	N410403.16	W0743217.93	N4104.053	W07432.299
ACOVE	N421405.22	W0740154.59	N4214.087	W07401.910
BOWAN	N420623.14	W0733128.95	N4206.386	W07331.483
CRANK	N412459.79	W0742319.93	N4124.997	W07423.332
EXTOL	N423927.69	W0763706.10	N4239.462	W07637.102
FLOSI	N413236.70	W0742002.75	N4132.612	W07420.046
HANAA	N431152.06	W0733646.17	N4311.868	W07336.770
HELON	N414002.72	W0741649.52	N4140.045	W07416.825
HOKIR	N403920.15	W0743303.17	N4039.336	W07433.053
KODEY	N421647.53	W0754704.00	N4216.792	W07547.067
NELIE	N415627.64	W0724118.88	N4156.461	W07241.315
PHLBO	N404949.39	W0743336.68	N4049.823	W07433.611
SHAFF	N411722.94	W0742636.26	N4117.382	W07426.604
TALCO	N420345.97	W0740627.85	N4203.766	W07406.464
WEETS	N415127.07	W0741151.58	N4151.451	W07411.860
WIGAN	N420506.33	W0734853.89	N4205.106	W07348.898
RW04L	N404053.96	W0741031.66	N4040.899	W07410.528
RW04R	N404049.89	W0741020.55	N4040.832	W07410.343
RW11	N404210.10	W0741050.55	N4042.168	W07410.843
RW22L	N404152.30	W0740940.87	N4041.872	W07409.681
RW22R	N404156.40	W0740951.97	N4041.940	W07409.866
RW29	N404204.51	W0740926.45	N4042.075	W07409.441

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW04L	00010	52
RW04R	00011	55
RW11	00018	57
RW22L	00010	40
RW22R	00010	46
RW29	00010	60

QUALITY 1 CHECKED

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
FLOSI RNAV	TWO	FLOSI.FLOSI2	ONE	JUNE 27, 2008	

RADIO FIX AND HOLDING DATA RECORD

NAME: ACOVE **STATE:** NY **COUNTRY:** US

LATITUDE/LONGITUDE: 421405.22N/0740154.59W **TYPE:** WP, INT, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	DE LANCEY	DNY	VOR/DME	L	095.99	084.99	41.39	41.39		6300	17500
2	ALBANY	ALB	VORTAC	L	211.35	198.35	32.37	32.37		8000	45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
ALB	VORTAC	R-211	33	18000	45000
DNY	VOR/DME	R-096	42	6000	18000

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	NE	ALB	VORTAC	211.35	211.35	R	1-1 1/2		8000	23000	10	21
2	NE		WP	031.20	211.20	R		10	17000	38000	17	27
3	NE	ALB	VORTAC	211.35	211.35	R		10	8000	17000	14	21

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	421618.30N/0740714.10W	4190	6C
2	265	AAO	421039.00N/0741351.00W	4262	4E
3	230	AAO	421039.00N/0741351.00W	4262	4E

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
ALBANY (FAC 2) AND DE LANCEY (FAC 1) USED TO ESTABLISH FIX COORDINATES
PRECIPITIOUS TERRAIN EVALUATION COMPLETED.
PAT 3: ATC REQUESTED 10 NM LEG LENGTH, MIN TEMPLATE 14 CHOSEN TO EMCOMPASS LEG LENGTH.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	J6	2	1			(US)
EN ROUTE	V213	1, 2	1			(US)
EN ROUTE	V270	1, 2				(US)
STAR	HYPER (RNAV)		2	KIAD	WASHINGTON	DC (US)
STAR	FLOSI (RNAV)		2	KEWR	NEWARK	NJ (US)
STAR	SHAFF	1, 2	3	KEWR	NEWARK	NJ (US)
STAR	HYPER (RNAV)		2	KCJR	CULPEPER	VA (US)
STAR	HYPER (RNAV)		2	KEZF	FREDERICKSBURG	VA (US)
STAR	HYPER (RNAV)		2	KFRR	FRONT ROYAL	VA (US)
STAR	HYPER (RNAV)		2	KJYO	LEESBURG	VA (US)
STAR	HYPER (RNAV)		2	KHEF	MANASSAS	VA (US)
STAR	HYPER (RNAV)		2	KNYG	QUANTICO	VA (US)
STAR	HYPER (RNAV)		2	KRMN	STAFFORD	VA (US)
STAR	HYPER (RNAV)		2	KHWY	WARRENTON	VA (US)
STAR	HYPER (RNAV)		2	KOKV	WINCHESTER	VA (US)
STAR	HYPER (RNAV)		2	KMRB	MARTINSBURG	WV (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 12 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
1. ADDED PAT 3.
2. CHANGED PAT 1 CONTROLLING OBSTRUCTION ACCURACY CODE FROM 6A TO 6C.
3. ADDED REMARK, PAT 3: ATC REQUESTED 10 NM LEG LENGTH, MIN TEMPLATE 14 CHOSEN TO EMCOMPASS LEG LENGTH.
4. RAISED FAC 1 MRA FROM 6000 TO 6300.
5. RAISED GAC 2 MRA FROM 6000 TO 8000.
6. ADDED REMARK, ALBANY (FAC 2) AND DE LANCEY (FAC 1) USED TO ESTABLISH FIX COORDINATES.

DEVELOPED BY: **DATE:** 12/27/2011 **OFFICE:** AJV-352 **NAME:** DAVID SAUER

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

QUALITY CHECKED

SIGNATURE:

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

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: BARNES VORTAC **STATE:** MA **COUNTRY:** US

LATITUDE/LONGITUDE: 420943.06N/0724258.31W **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	BARNES	BAF	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	E	BAF	VORTAC	094.75	274.75	L	1-1 1/2		4000	45000	4	29

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	265	AAO	421309.00N/0730339.00W	2051	4E
1	200	AAO	421110.00N/0724741.50W	1341	2C

REASON FOR NONSTANDARD HOLDING:
PAT 1 AIR TRAFFIC CONTROL SECTOR BOUNDARIES

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 3400.
PAT 1 FOR ALTERNATE MISSED APPROACH HOLDING.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	ILS OR LOC RWY 24	KBDL	WINDSOR LOCKS	CT (US)
1	ILS RWY 24 (SA CAT II)	KBDL	WINDSOR LOCKS	CT (US)
1	ILS RWY 24 (SA CAT I)	KBDL	WINDSOR LOCKS	CT (US)

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BRADLEY			KBDL	WINDSOR LOCKS	CT (US)
DP	HANSCOM			KBED	BEDFORD	MA (US)
DP	BEVERLY			KBVY	BEVERLY	MA (US)
DP	BLZZR (RNAV)			KBOS	BOSTON	MA (US)
DP	LOGAN			KBOS	BOSTON	MA (US)
DP	REVSS (RNAV)			KBOS	BOSTON	MA (US)
DP	WYLYY (RNAV)			KBOS	BOSTON	MA (US)
DP	LAWRENCE			KLWM	LAWRENCE	MA (US)
DP	STEWY			KACK	NANTUCKET	MA (US)
DP	NORWOOD			KOWD	NORWOOD	MA (US)
DP	COTEE (RNAV)			KMHT	MANCHESTER	NH (US)
EN ROUTE	J77		1			(US)
EN ROUTE	J80					(US)
EN ROUTE	Q406					(US)
EN ROUTE	Q448					(US)
EN ROUTE	Q480					(US)
EN ROUTE	V106					(US)
EN ROUTE	V146					(US)
EN ROUTE	V292					(US)
EN ROUTE	V405					(US)
IAP	COPTER ILS OR LOC RWY 6		1	KBDL	WINDSOR LOCKS	CT (US)
IAP	ILS OR LOC RWY 24		1	KBDL	WINDSOR LOCKS	CT (US)
IAP	ILS OR LOC RWY 33		1	KBDL	WINDSOR LOCKS	CT (US)
IAP	ILS RWY 24 (SA CAT I)		1	KBDL	WINDSOR LOCKS	CT (US)
IAP	ILS RWY 24 (SA CAT II)		1	KBDL	WINDSOR LOCKS	CT (US)
IAP	ILS RWY 6 (CAT II)		1	KBDL	WINDSOR LOCKS	CT (US)
IAP	ILS RWY 6 (CAT III)		1	KBDL	WINDSOR LOCKS	CT (US)
IAP	RNAV (RNP) Z RWY 6			KBDL	WINDSOR LOCKS	CT (US)
IAP	VOR-A			K7B2	NORTHAMPTON	MA (US)
IAP	VOR/DME-B			K7B2	NORTHAMPTON	MA (US)
IAP	ILS OR LOC RWY 5			KCEF	SPRINGFIELD/CHICOPEE	MA (US)
IAP	ILS OR LOC RWY 20			KBAF	WESTFIELD/SPRINGFIELD	MA (US)
IAP	VOR OR TACAN RWY 2			KBAF	WESTFIELD/SPRINGFIELD	MA (US)
IAP	VOR RWY 20			KBAF	WESTFIELD/SPRINGFIELD	MA (US)
IAP	RNAV (GPS) RWY 11			KORH	WORCESTER	MA (US)
STAR	NOBBI			KDXR	DANBURY	CT (US)
STAR	VALRE			KDXR	DANBURY	CT (US)
STAR	STELA			KHFD	HARTFORD	CT (US)
STAR	STELA			KBDL	WINDSOR LOCKS	CT (US)
STAR	SWEDE			KBDL	WINDSOR LOCKS	CT (US)

QUALITY CHECKED

STAR	HYPER (RNAV)	KIAD	WASHINGTON	DC (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)
STAR	SHAFF	KEWR	NEWARK	NJ (US)
STAR	NOBBI	KLGA	NEW YORK	NY (US)
STAR	NOBBI	KHPN	WHITE PLAINS	NY (US)
STAR	VALRE	KHPN	WHITE PLAINS	NY (US)
STAR	HYPER (RNAV)	KCJR	CULPEPER	VA (US)
STAR	HYPER (RNAV)	KEZF	FREDERICKSBURG	VA (US)
STAR	HYPER (RNAV)	KFRR	FRONT ROYAL	VA (US)
STAR	HYPER (RNAV)	KJYO	LEESBURG	VA (US)
STAR	HYPER (RNAV)	KHEF	MANASSAS	VA (US)
STAR	HYPER (RNAV)	KNYG	QUANTICO	VA (US)
STAR	HYPER (RNAV)	KRMN	STAFFORD	VA (US)
STAR	HYPER (RNAV)	KHWY	WARRENTON	VA (US)
STAR	HYPER (RNAV)	KOKV	WINCHESTER	VA (US)
STAR	HYPER (RNAV)	KMRB	MARTINSBURG	WV (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 11 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 01/09/2012 **OFFICE:** AJV-311 **NAME:** ERIC POWELL

APPROVED BY: **DATE:** **OFFICE:** AJV-311 **NAME:** RAY NUSSEAR

SIGNATURE:

QUALITY CHECKED

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZBW
ATC FACILITY: BDL APP CON
OTHER: BAF ATCT, HQ AFRC/DOVA

RADIO FIX AND HOLDING DATA RECORD

NAME: BOWAN **STATE:** NY **COUNTRY:** US

LATITUDE/LONGITUDE: 420623.14N/0733128.95W **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	CAMBRIDGE	CAM	VOR/DME	L	202.62	188.62	53.85	53.85		6000	17500
2	BARNES	BAF	VORTAC	L	279.00	265.00	36.25	36.25		6000	17500
3	ALBANY	ALB	VORTAC	L	175.06	162.06		40.38		6000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
CAM	VOR/DME	R-203	54	3800	17500
ALB	VORTAC	R-175	41	5200	17500

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

REMARKS:
CAMBRIDGE (FAC 1) AND BARNES (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V292	1, 2, 3				(US)
EN ROUTE	V487	1, 2, 3				(US)
EN ROUTE	V91	1, 2, 3				(US)
IAP	RNAV (GPS) RWY 11			KGBR	GREAT BARRINGTON	MA (US)
STAR	FLOSI (RNAV)			KEWR	NEWARK	NJ (US)
STAR	SHAFF	2, 3		KEWR	NEWARK	NJ (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
1. ADDED REMARK, CAMBRIDGE (FAC 1) AND BARNES (FAC 2) USED TO ESTABLISH FIX COORDINATES.
2. RAISED FAC 1 MRA FROM 5000 TO 6000.
3. RAISED FAC 2 MRA FROM 5200 TO 6000.
4. ADDED FAC 3, ALB VORTAC.
5. ADDED ESV FOR ALB VORTAC.

DEVELOPED BY: **DATE:** 12/19/2011 **OFFICE:** AJV-352 **NAME:** DAVID SAUER

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

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: CRANK **STATE:** NY **COUNTRY:** US

LATITUDE/LONGITUDE: 412459.79N/0742319.93W **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	SPARTA	SAX	VORTAC	H	028.86	017.86	22.00	22.00		4000	17500
2	HUGUENOT	HUO	VOR/DME	H	098.34	087.34		9.16		4000	17500
3	BINGHAMTON	CFB	VORTAC	L	128.95	118.95	90.15	90.15		10000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
CFB	VORTAC	R-129	91	10000	17500

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

REMARKS:
HUGUENOT (FAC 2) AND SPARTA (FAC 1) USED TO ESTABLISH FIX COORDINATES
DO NOT CHART FIX ON V374. FIX LOCATION NOT ON CENTERLINE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V213	1, 2				(US)
EN ROUTE	V249	1, 2				(US)
IAP	GPS RWY 4			KN89	ELLENVILLE	NY (US)
IAP	RNAV (GPS) RWY 34			KSWF	NEWBURGH	NY (US)
STAR	FLOSI (RNAV)			KEWR	NEWARK	NJ (US)
STAR	SHAFF	1, 2		KEWR	NEWARK	NJ (US)

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

COMPULSORY REPORTING POINT: NO

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

REASON FOR REVISION:
ADD FAC 1.
ADD ESV CFB.
ADDED REMARK FOR COORDINATE MAKE-UP

DEVELOPED BY: **DATE:** 01/20/2012 **OFFICE:** AJV-311 **NAME:** ABRAHAM BRODY

APPROVED BY: **DATE:** **OFFICE:** AJV-311 **NAME:** RAY NUSSEAR

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZNY
ATC FACILITY: N90
OTHER:

QUALITY CHECKED 1

RADIO FIX AND HOLDING DATA RECORD

NAME: EXTOL **STATE:** NY **COUNTRY:** US

LATITUDE/LONGITUDE: 423927.69N/0763706.10W **TYPE:** WP, INT, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	HANCOCK	HNK	VOR/DME	H	313.06	302.06	68.02	68.02		11000	45000
2	SYRACUSE	SYR	VORTAC	H	222.31	211.31	35.25	35.25		11000	45000
3	ROCHESTER	ROC	VOR/DME	L	132.33	120.33		54.09		18000	35000
4	GENESEO	GEE	VOR/DME	L	110.76	101.76		50.39		11000	21000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
HNK	VOR/DME	R-313	69	11000	16600
GEE	VOR/DME	R-111	51	11000	21000
ROC	VOR/DME	R-132	55	18000	40000

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

REMARKS:
SYRACUSE (FAC 2) AND HANCOCK (FAC 1) USED TO ESTABLISH FIX COORDINATES
AIR/GROUND COMMUNICATIONS ALSO WITH NEW YORK APPROACH CONTROL.

FIX USE:

USE TYPE	USE TITLE	FAC PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	J522	1, 2, 3, 4			(US)
EN ROUTE	J59	1, 2, 3, 4			(US)
STAR	FLOSI (RNAV)		KEWR	NEWARK	NJ (US)
STAR	SHAFF	1, 2, 3, 4	KEWR	NEWARK	NJ (US)

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
1. ADDED FAC 1, 2, 3, AND 4 DIST FROM FAC IN NM.
2. ADDED REMARK, SYRACUSE (FAC 2) AND HANCOCK (FAC 1) USED TO ESTABLISH FIX COORDINATES.
3. ADDED ESV FOR HNK, ROC, GEE.

DEVELOPED BY: **DATE:** 12/19/2011 **OFFICE:** AJV-352 **NAME:** DAVID SAUER

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

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: FLOSI **STATE:** NY **COUNTRY:** US

LATITUDE/LONGITUDE: 413236.70N/0742002.75W **TYPE:** WP, INT, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	SPARTA	SAX	VORTAC	H	028.86	017.86	30.00	30.00		4000	45000
2	KINGSTON	IGN	VOR/DME	L	264.56	252.56	24.17	24.17		4000	45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
IGN	VOR/DME	R-265	25	18500	45000

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

REMARKS:
SPARTA (FAC 1) AND KINGSTON (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	J6	1, 2				(US)
EN ROUTE	V213	1, 2				(US)
EN ROUTE	V249	1, 2				(US)
STAR	FLOSI (RNAV)			KEWR	NEWARK	NJ (US)
STAR	SHAFF	1, 2		KEWR	NEWARK	NJ (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
1. ADDED FAC 1 AND 2 DIST FROM FAC IN NM.
2. ADDED REMARK, SPARTA (FAC 1) AND KINGSTON (FAC 2) USED TO ESTABLISH FIX COORDINATES.
3. ADDED IGN VOR/DME ESV INFORMATION.

DEVELOPED BY: **DATE:** 12/19/2011 **OFFICE:** AJV-352 **NAME:** DAVID SAUER

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

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: HANAA **STATE:** NY **COUNTRY:** US

LATITUDE/LONGITUDE: 431152.06N/0733646.17W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	NE		WP	047.00	227.00	R		10	18000	38000	17	27
2	NE		WP	030.30	210.30	R		10	17000	38000	17	27

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
2	265	AAO	433624.00N/0733154.00W	2851	4E

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	NATIONAL CHOKE POINT RELIEF POINT		1			(US)
STAR	FLOSI (RNAV)		2	KEWR	NEWARK	NJ (US)
STAR	SHAFF		2	KEWR	NEWARK	NJ (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
1. ADDED STAR TO REQUIRED CHARTING.
2. ADDED REMARK, PRECIPITOUS TERRAIN EVALUATION COMPLETED.
3. MOVED REMARK, HOLDING LIMITED TO ESTABLISHED PATTERNS, TO HOLDING RESTRICTION.
4. ADDED PAT 1 MIN TEMPLATE 17.
5. CHANGED PAT 1 AND 2 LEG LENGTH FROM 11 TO 10 NM.
6. CHANGED PAT 2 MIN TEMPLATE FROM 18 TO 17.

DEVELOPED BY: **DATE:** 12/19/2011 **OFFICE:** AJV-352 **NAME:** DAVID SAUER

APPROVED BY: **DATE:** **OFFICE:** **NAME:** DARRYEL ADAMS

SIGNATURE:

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

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: HELON **STATE:** NY **COUNTRY:** US

LATITUDE/LONGITUDE: 414002.72N/0741649.52W **TYPE:** WP, INT, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	SPARTA	SAX	VORTAC	H	028.86	017.86	37.81	37.81		4000	17500
2	KINGSTON	IGN	VOR/DME	L	282.48	270.48	20.60	20.60		4000	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	NE	SAX	VORTAC	028.86	208.86	R	1-1 1/2		6000	17500	9	18
2	NE		WP	028.86	208.86	R		4	4000	6000	5	14
3	NE		WP	031.03	211.03	R		10	6000	14000	15	15
4	NE	SAX	VORTAC	028.86	208.86	R		10	6000	17500	14	18

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	415536.00N/0741718.00W	3304	4E
2	200	AAO	414047.20N/0742119.40W	2489	6C
2	310	AAO	415654.00N/0742403.00W	3813	4E
3	230	AAO	420006.00N/0742124.00W	4033	4E
4	230	AAO	415709.00N/0742354.00W	3957	4E

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
2	RNAV (GPS) RWY 3	KMGJ	MONTGOMERY	NY (US)
2	RNAV (GPS) RWY 8	KMGJ	MONTGOMERY	NY (US)

REMARKS:
SPARTA (FAC 1) AND KINGSTON (FAC 2) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATIONS COMPLETED.
PAT 3 LEG LENGTH 10 NM REQUESTED BY ATC.
PAT 4: ATC REQUESTED 10 NM LEG LENGTH, MIN TEMPLATE 14 CHOSEN TO EMCOMPASS LEG LENGTH.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V167	1, 2				(US)
EN ROUTE	V213	1, 2	1			(US)
EN ROUTE	V249	1, 2	1			(US)
EN ROUTE	V58	1, 2				(US)
EN ROUTE	V93	1, 2				(US)
IAP	RNAV (GPS) RWY 26			K06N	MIDDLETOWN	NY (US)
IAP	RNAV (GPS) RWY 21		2	KMGJ	MONTGOMERY	NY (US)
IAP	RNAV (GPS) RWY 26		2	KMGJ	MONTGOMERY	NY (US)
IAP	RNAV (GPS) RWY 3		2	KMGJ	MONTGOMERY	NY (US)
IAP	RNAV (GPS) RWY 8		2	KMGJ	MONTGOMERY	NY (US)
IAP	RNAV (GPS) RWY 33			KMSV	MONTICELLO	NY (US)
IAP	RNAV (GPS) RWY 9			KSWF	NEWBURGH	NY (US)
STAR	FLOSI (RNAV)		3	KEWR	NEWARK	NJ (US)
STAR	SHAFF		4	KEWR	NEWARK	NJ (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 9 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:

QUALITY CHECKED

1. LOWERED PAT 1 MAX ALTITUDE/TEMPLATE FROM 20000/19 TO 17500/18.
2. CHANGED PAT 2 (200K), AND 4 CONTROLLING OBSTRUCTION ACCURACY CODE FROM 6A TO 6C.
3. ADDED REMARK, SPARTA (FAC 1) AND KINGSTON (FAC 2) USED TO ESTABLISH FIX COORDINATES.
4. CHANGED PAT 3 LEG LENGTH FROM 6 TO 10 NM.
5. CHANGED PAT 3 MIN/MAX TEMPLATE FROM 7/12 TO 15/15, MIN HOLDING ALTITUDE FROM 5000 TO 6000.
6. CHANGED PAT 3 AIRSPEED FROM 200 TO 230.
7. CHANGED PAT 3 CONTROLLING OBSTRUCTION FROM 2489' AAO TO 4033' AAO, ACCURACY CODE FROM 6A TO 4E.
8. ADDED REMARK, PAT 3 LEG LENGTH 10 NM REQUESTED BY ATC.
9. CHANGED PAT 2 MAX TEMPLATE FROM 6 TO 14.
10. DELETED WP PAT 4.
11. ADDED SAX PAT 4.
12. ADDED REMARK, PAT 4: ATC REQUESTED 10 NM LEG LENGTH, MIN TEMPLATE 14 CHOSEN TO EMCOMPASS LEG LENGTH.
13. CHANGED PAT 2 MIN HOLDING/TEMPLATE FROM 4900/6 TO 4000/5.

DEVELOPED BY:	**DATE:** 12/19/2011	**OFFICE:** AJV-352	**NAME:** DAVID SAUER
APPROVED BY:	**DATE:**	**OFFICE:** AJV-352	**NAME:** DARRYEL ADAMS
	SIGNATURE:		

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

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: HOKIR **STATE:** NJ **COUNTRY:** US

LATITUDE/LONGITUDE: 403920.15N/0743303.17W **TYPE:** WP

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

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 5			KMMU	MORRISTOWN	NJ (US)
STAR	FLOSI (RNAV)			KEWR	NEWARK	NJ (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
1. DELETED FAC 1, KMMU R05.

DEVELOPED BY: **DATE:** 12/19/2011 **OFFICE:** AJV-352 **NAME:** DAVID SAUER

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZNY
ATC FACILITY: NY TRACON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: KODEY **STATE:** NY **COUNTRY:** US

LATITUDE/LONGITUDE: 421647.53N/0754704.00W **TYPE:** WP, INT, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	ROCKDALE	RKA	VOR/DME	L	256.42	245.42	26.70	26.70		6000	45000
2	HANCOCK	HNK	VOR/DME	H	313.06	302.06	24.60	24.60		6000	45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
RKA	VOR/DME	R-256	27	18000	45000

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	NW	HNK	VOR/DME	313.06	133.06	L	1 1/2		18000	28000	17	22
2	NW		WP	313.00	133.00	L		10	17000	38000	17	27
3	NW	HNK	VOR/DME	313.06	133.06	L		10	6000	28000	14	22

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	265	AAO	422933.00N/0760824.00W	2366	4E
2	265	AAO	422933.00N/0760824.00W	2366	4E
3	230	AAO	422933.00N/0760824.00W	2366	4E

REASON FOR NONSTANDARD HOLDING:
PAT 2 AIR TRAFFIC REQUEST
PAT 1 AIR TRAFFIC REQUEST
PAT 3 AIR TRAFFIC REQUEST

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
HANCOCK (FAC 2) AND ROCKDALE (FAC 1) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
PAT 3: ATC REQUESTED 10 NM LEG LENGTH, MIN TEMPLATE 14 CHOSEN TO ENCOMPASS LEG LENGTH.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	J190	1, 2				(US)
EN ROUTE	J522	1, 2	1			(US)
STAR	FLOSI (RNAV)		2	KEWR	NEWARK	NJ (US)
STAR	SHAFF	1, 2	3	KEWR	NEWARK	NJ (US)

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

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

REASON FOR REVISION:
1. ADDED FAC 1 AND 2 DIST FROM FAC IN NM.
2. ADDED REMARK, HANCOCK (FAC 2) AND ROCKDALE (FAC 1) USED TO ESTABLISH FIX COORDINATES.
3. ADDED REMARK, PRECIPITOUS TERRAIN EVALUATION COMPLETED.
4. MOVED REMARK, HOLDING LIMITED TO ESTABLISHED PATTERNS, TO HOLDING RESTRICTIONS.
5. CHANGED PAT 1 LEG LENGTH FROM 1- 1 12/ TO 1 1/2.
6. ADDED ESV FOR RKA.
7. CHANGED PAT 2 LEG LENGTH FROM 11 TO 10 NM.
8. CHANGED PAT 2 MIN TEMPLATE FROM 18 TO 17.
9. CHANGED PAT 2 CRS INBOUND FROM 134.75 TO 133.00.
10. ADDED PAT 1 MIN TEMPLATE 17 AND CONTROLLING OBSTRUCTION.
11. ADDED PAT 3.
12. ADDED REMARL, PAT 3: ATC REQUESTED 10 NM LEG LENGTH, MIN TEMPLATE 14 CHOSEN TO ENCOMPASS LEG LENGTH.

DEVELOPED BY: **DATE:** 12/19/2011 **OFFICE:** AJV-352 **NAME:** DAVID SAUER

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

QUALITY CHECKED

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: EST
ARTCC: ZBW, ZNY
ATC FACILITY:
OTHER:

QUALITY CHECKED

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	COTEE (RNAV)			KMHT	MANCHESTER	NH (US)
EN ROUTE	J75	1, 2, 3				(US)
EN ROUTE	T212					(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 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.

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

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

SIGNATURE:

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

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: PHLBO **STATE:** NJ **COUNTRY:** US

LATITUDE/LONGITUDE: 404949.39N/0743336.68W **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
STAR	FLOSI (RNAV)			KEWR	NEWARK	NJ (US)
STAR	PHLBO (RNAV)			KEWR	NEWARK	NJ (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

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

REASON FOR REVISION:
1. DELETED FAC 1, METRO.

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

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZNY
ATC FACILITY: NY TRACON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: SHAFF **STATE:** NY **COUNTRY:** US

LATITUDE/LONGITUDE: 411722.94N/0742636.26W **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	SPARTA	SAX	VORTAC	H	028.86	017.86	14.00	14.00		4000	17500
2	HUGUENOT	HUO	VOR/DME	H	148.01	137.01		9.83		4000	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	NE	SAX	VORTAC	028.86	208.86	L	1		4000	12000	4	9
2	NE		WP	030.92	210.92	L		10	5000	12000	15	15
3	NE	SAX	VORTAC	028.86	208.86	L		10	4000	12000	14	14

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	411242.00N/0742642.00W	1549	4E
2	200	AAO	412312.00N/0740724.00W	1900	4E
3	200	TOWER (36-002788)	411230.60N/0742121.83W	1807	1A

REASON FOR NONSTANDARD HOLDING:
PAT 1 AIRSPACE CONSTRAINTS
PAT 3 AIRSPACE CONSTRAINTS

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
SPARTA (FAC 1) AND HUGUENOT (FAC 2) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
PAT 2: ATC REQUESTED 10 NM LEGS.
PAT 3: ATC REQUESTED 10 NM LEG LENGTH, MIN TEMPLATE CHOSEN TO ENCOMPASS LEG LENGTH.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V213-249	1, 2	1			(US)
STAR	FLOSI (RNAV)		2	KEWR	NEWARK	NJ (US)
STAR	SHAFF	1, 2	3	KEWR	NEWARK	NJ (US)

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: LOW

RECORD REVISION NUMBER: 5 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
1. ADDED FAC 1 AND 2 DIST FROM FAC IN NM.
2. ADDED REMARK, PRECIPITOUS TERRAIN EVALUATION COMPLETED.
3. MOVED REMARK, HOLDING LIMITED TO ESTABLISHED PATTERNS, TO HOLDING RESTRICTIONS.
4. CHANGED FAC 2 TRUE BRG FROM 137.00 TO 137.01.
5. ADDED REMARK, SPARTA (FAC 1) AND HUGUENOT (FAC 2) USED TO ESTABLISH FIX COORDINATES.
6. CHANGED PAT 1 CONTROLLING OBSTRUCTION DESCRIPTION FROM "200' AAO" TO "AAO".
7. ADDED PAT 3.
8. DELETED PAT 2 230K CONTROLLING OBSTRUCTION.
9. CHANGED PAT 2 LEG LENGTH FROM 7 TO 10 NM; MIN/MAX TEMPLATE FROM 9/10 TO 15/15.
10. ADDED REMARK, PAT 2: ATC REQUESTED 10 NM LEGS.
11. ADDED REMARK, PAT 3: ATC REQUESTED 10 NM LEG LENGTH, MIN TEMPLATE CHOSEN TO ENCOMPASS LEG LENGTH.
12. CHANGED PAT 2 CONTROLLING OBSTRUCTION FROM 1807 TOWER TO 1900 AAO.

DEVELOPED BY: **DATE:** 12/19/2011 **OFFICE:** AJV-352 **NAME:** DAVID SAUER

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

SIGNATURE:

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

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: SKEEE **STATE:** VT **COUNTRY:** US

LATITUDE/LONGITUDE: 435449.00N/0724813.00W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	NE		WP	037.00	217.00	R		10	18000	38000	17	27

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
BOSTON ARTCC REQUESTING HIGH ALTITUDE FIX WITH HOLDING.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	NATIONAL CHOKE POINT RELIEF POINT		1			(US)
STAR	FLOSI (RNAV)		1	KEWR	NEWARK	NJ (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:
1. ADDED STAR TO REQUIRED CHARTING.
2. ADDED REMARK, PRECIPITOUS TERRAIN EVALUATION COMPLETED.
3. MOVED REMARK, HOLDING LIMITED TO ESTABLISHED PATTERN, TO HOLDING RESTRICTION.
4. CHANGED PAT 1 LEG LENGTH FROM 11 TO 10 NM.
5. ADDED PAT 1 MIN TEMPLATE 17.

DEVELOPED BY: **DATE:** 12/20/2011 **OFFICE:** AJV-352 **NAME:** DAVID SAUER

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

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: TALCO **STATE:** NY **COUNTRY:** US

LATITUDE/LONGITUDE: 420345.97N/0740627.85W **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	211.35	198.35	43.23	43.23		10000	17500
2	PAWLING	PWL	VOR/DME	L	319.89	307.89	28.72	28.72		10000	17500
3	DELANCEY	DNY	VOR/DME	L	111.07	100.07		38.55		10000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
ALB	VORTAC	R-211	44	8000	17500

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	V213, V292	1, 2				(US)
IAP	GPS RWY 22			KN89	ELLENVILLE	NY (US)
STAR	FLOSI (RNAV)			KEWR	NEWARK	NJ (US)
STAR	SHAFF	1, 2, 3		KEWR	NEWARK	NJ (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
1. CHANGED FAC 3, HOZAN TO DNY VOR/DME.
2. DELETED REMARK, MAG VAR: ALB 13W, PWL 12W, SAX 11W, WAYPOINT 13W.
3. DELETED REMARK, WAYPOINT COLLOCATED WITH INTERSECTION.
4. ADDED FAC 1 AND 2 DIST FROM FAC IN NM.
5. ADDED REMARK, ALBANY (FAC 1) AND PAWLING (FAC 2) USED TO ESTABLISH FIX COORDINATES.
6. ADDED ESV DATA FOR ALB VORTAC.
7. RAISED FAC 1 MRA FROM 8000 TO 10000.
8. RAISED FAC 2 MRA FROM 6000 TO 10000.

DEVELOPED BY: **DATE:** 12/19/2011 **OFFICE:** AJV-352 **NAME:** DAVID SAUER

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

SIGNATURE:

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

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: WEETS **STATE:** NY **COUNTRY:** US

LATITUDE/LONGITUDE: 415127.07N/0741151.58W **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	LAKE HENRY	LHY	VORTAC	L	077.96	067.96	62.15	62.15		6000	17500
2	DELANCEY	DNY	VOR/DME	L	130.28	119.28	39.03	39.03		6000	45000
3	ALBANY	ALB	VORTAC	L	211.35	198.35	56.18	56.18		10000	17500
4	PAWLING	PWL	VOR/DME	L	293.31	281.31		27.30		4000	45000
5	KINGSTON	IGN	VOR/DME	L	316.47	304.47		20.42		4000	45000
6	SPARTA	SAX	VORTAC	H	028.86	017.86		49.80		5500	45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
LHY	VORTAC	R-078	63	6000	17500
IGN	VOR/DME	R-316	21	18000	45000
PWL	VOR/DME	R-293	28	18000	45000
ALB	VORTAC	R-211	57	10000	17500
DNY	VOR/DME	R-130	40	18000	45000
SAX	VORTAC	R-029	50	5500	22000

FIX RESTRICTIONS:
MRA V483 6000 WESTBOUND
MRA V34-106 6000 NORTHWEST BOUND

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	J6	4, 6				(US)
EN ROUTE	T212					(US)
EN ROUTE	V106	1, 4, 5, 6				(US)
EN ROUTE	V213	3, 4, 6				(US)
EN ROUTE	V249	2, 4, 6				(US)
EN ROUTE	V34	2, 4, 6				(US)
EN ROUTE	V483	2, 5, 6				(US)
IAP	RNAV (GPS) RWY 17			K44N	MILLBROOK	NY (US)
IAP	RNAV (GPS) RWY 27			KSWF	NEWBURGH	NY (US)
STAR	VALRE	1, 2, 3, 4, 5		KDXR	DANBURY	CT (US)
STAR	FLOSI (RNAV)			KEWR	NEWARK	NJ (US)
STAR	SHAFF	2, 3, 4		KEWR	NEWARK	NJ (US)
STAR	VALRE	1, 2, 3, 4, 5		KHPN	WHITE PLAINS	NY (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
DELETED BDL FACILITY MAKE-UP.
UPDATED FAC2 (DNY) AND FAC6 (SAX) FROM HISTORICAL TO ACTIVE STATUS.
DELETED BDL ESV.
ADDED SAX ESV.
CHANGED FAC3 MRA FROM 6000 TO 10000.
CHANGED FAC6 MRA FROM 18000 TO 5500.
FIX USE UPDATED.

DEVELOPED BY: **DATE:** 12/13/2011 **OFFICE:** AJV-311 **NAME:** ERIC POWELL

APPROVED BY: **DATE:** **OFFICE:** AJV-311 **NAME:** RAY NUSSEAR

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZBW
ATC FACILITY: N90
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: WIGAN **STATE:** NY **COUNTRY:** US

LATITUDE/LONGITUDE: 420506.33N/0734853.89W **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	KINGSTON	IGN	VOR/DME	L	012.74	000.74	25.17	25.17		3000	17500
2	DE LANCEY	DNY	VOR/DME	L	106.87	095.87		51.29		4500	17500
3	ALBANY	ALB	VORTAC	L	193.76	180.76		39.72		6000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
DNY	VOR/DME	R-107	52	4500	17500

FIX RESTRICTIONS:
MRA ALL 4500

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

REMARKS:
KINGSTON (FAC 1) AND DE LANCEY (FAC 2) USED TO ESTABLISH FIX COORDINATES
ALB VORTAC RESTRICTED FROM R-194 TO R-221 BELOW 6000.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V123	1, 2, 3				(US)
EN ROUTE	V157	1, 2, 3				(US)
EN ROUTE	V292	1, 2, 3				(US)
IAP	RNAV (GPS) RWY 11			KGBR	GREAT BARRINGTON	MA (US)
STAR	NOBBI	1, 2, 3		KDXR	DANBURY	CT (US)
STAR	VALRE	1, 2, 3		KDXR	DANBURY	CT (US)
STAR	FLOSI (RNAV)			KEWR	NEWARK	NJ (US)
STAR	SHAFF	1, 2, 3		KEWR	NEWARK	NJ (US)
STAR	NOBBI	1, 2, 3		KLGA	NEW YORK	NY (US)
STAR	NOBBI	1, 2, 3		KHPN	WHITE PLAINS	NY (US)
STAR	VALRE	1, 2, 3		KHPN	WHITE PLAINS	NY (US)

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

COMPULSORY REPORTING POINT: NO

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

REASON FOR REVISION:
1. ADDED FAC 3, ALB VORTAC.
2. ADDED REMARK, KINGSTON (FAC 1) AND DE LANCEY (FAC 2) USED TO ESTABLISH FIX COORDINATES.

2/8/12: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 1/10/12.
1. CHANGED FAC 3 MRA FROM 4500 TO 6000.
2. ADDED REMARK, ALB VORTAC RESTRICTED FROM R-194 TO R-221 BELOW 6000.

DEVELOPED BY: **DATE:** 01/10/2012 **OFFICE:** AJV-352 **NAME:** DAVID SAUER

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

SIGNATURE:

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

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	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	COPTER ILS OR LOC/DME RWY 01			KALB	ALBANY	NY (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	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		1	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: GENESEO VOR/DME **STATE:** NY **COUNTRY:** US

LATITUDE/LONGITUDE: 425003.83N/0774357.90W **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	FAC FEET	MRA	MAA
1	GENESEO	GEE	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	SE	GEE	VOR/DME	143.05	323.05	R	1-1 1/2		4000	17500	4	16
2	SE	GEE	VOR/DME	153.46	333.46	L	1-1 1/2		4000	17500	4	16
3	W	GEE	VOR/DME	262.71	082.71	R	1-1 1/2		3000	17500	4	16
4	SE		WP	153.46	333.46	L		4	4000	17500	5	17

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	AAO	424057.00N/0773715.00W	2159	4E
1	200	TOWER (36-001234)	424343.00N/0773504.00W	2075	5E
2	200	AAO	424124.00N/0773733.00W	2113	4E
3	200	AAO	424648.00N/0773942.00W	1526	4E
4	200	AAO	424057.00N/0773715.00W	2139	4E

REASON FOR NONSTANDARD HOLDING:
PAT 2 TRAFFIC SEPARATION
PAT 4 TRAFFIC SEPARATION

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED BETWEEN 4000 TO 17500.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BUFFALO			KBUF	BUFFALO	NY (US)
EN ROUTE	V119					(US)
EN ROUTE	V14					(US)
EN ROUTE	V147					(US)
EN ROUTE	V252					(US)
EN ROUTE	V464					(US)
EN ROUTE	V84					(US)
IAP	ILS OR LOC RWY 28			KGVQ	BATAVIA	NY (US)
IAP	RNAV (GPS) RWY 28			KGVQ	BATAVIA	NY (US)
IAP	VOR/DME-A			KGVQ	BATAVIA	NY (US)
IAP	ILS OR LOC/DME RWY 32			KBUF	BUFFALO	NY (US)
IAP	RNAV (GPS) RWY 13			KD38	CANANDAIGUA	NY (US)
IAP	VOR-A		3	KD38	CANANDAIGUA	NY (US)
IAP	GPS RWY 18			K4G6	HORNELL	NY (US)
IAP	VOR OR GPS-A		1	K5G0	LE ROY	NY (US)
IAP	ILS OR LOC RWY 22		2	KROC	ROCHESTER	NY (US)
IAP	ILS OR LOC RWY 28 (ALT MA)		1	KROC	ROCHESTER	NY (US)
IAP	ILS OR LOC RWY 4 (ALT MA)		2	KROC	ROCHESTER	NY (US)
IAP	ILS RWY 4 (CAT II) (ALT MA)		2	KROC	ROCHESTER	NY (US)
IAP	RNAV (GPS) RWY 10			KROC	ROCHESTER	NY (US)
IAP	RNAV (GPS) RWY 22		4	KROC	ROCHESTER	NY (US)
IAP	RNAV (GPS) RWY 4			KROC	ROCHESTER	NY (US)
IAP	VOR RWY 4			KROC	ROCHESTER	NY (US)
IAP	VOR/DME RWY 4			KROC	ROCHESTER	NY (US)
STAR	FLOSI (RNAV)			KEWR	NEWARK	NJ (US)
STAR	HELON			KEWR	NEWARK	NJ (US)
STAR	SHAFF			KEWR	NEWARK	NJ (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 10 **DATE OF REVISION:** 08/25/2011

REASON FOR REVISION:
1. UPDATED HOLDING PATTERN LEG LENGTH TIME TO 1 1/2.
2. DELETED HOLDING RESTRICTION LIMITING TO ESTABLISHED PATTERNS.
3. UPDATED FIX USE.

QUALITY CHECKED

DEVELOPED BY:	**DATE:** 05/06/2011	**OFFICE:** AJV-352	**NAME:** GEORGE TRAMMELL
APPROVED BY:	**DATE:** 06/27/2011	**OFFICE:** AJV-352	**NAME:** DARRYEL ADAMS
	SIGNATURE:		

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZOB
ATC FACILITY: BUF & ROC
OTHER:

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	NDB 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
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

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

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

LATITUDE/LONGITUDE: 413955.61N/0734920.00W **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	KINGSTON	IGN	VOR/DME	L							45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
IGN	VOR/DME	R-302	30	18000	45000

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	N	IGN	VOR/DME	012.75	192.75	R	1-1 1/2		3000	17500	4	16
2	NE	IGN	VOR/DME	037.00	217.00	R	1		3000	8000	4	8
3	W	IGN	VOR/DME	249.00	069.00	L	1		3000	8000	4	8
4	NW	IGN	VOR/DME	302.09	122.09	R	1 1/2		18000	45000		29
5	NW	IGN	VOR/DME	334.63	154.63	R	1		3000	8000	4	8
6	NE		WP	037.00	217.00	R		4	3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	414412.00N/0734445.00W	1070	4E
2	200	AAO	414230.00N/0734245.00W	1309	4E
2	310	TOWER (36-000979)	414307.49N/0735945.41W	2000	1A
3	200	AAO	413836.00N/0740121.00W	1309	4E
5	200	TOWER (36-000979)	414307.49N/0735945.41W	2000	1A
6	200	AAO	414230.00N/0734245.00W	1309	4E
6	310	TOWER (36-000979)	414307.49N/0735945.41W	2000	1A

REASON FOR NONSTANDARD HOLDING:
PAT 3 AIR TRAFFIC REQUEST

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
2	ILS OR LOC RWY 6	KPOU	POUGHKEEPSIE	NY (US)
2	VOR/DME RWY 6	KPOU	POUGHKEEPSIE	NY (US)
2	VOR-A	KPOU	POUGHKEEPSIE	NY (US)
6	RNAV (GPS) RWY 6	KPOU	POUGHKEEPSIE	NY (US)

REMARKS:
CHART PAT 1 ON LOW ENROUTE.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	MORRISTOWN			KMMU	MORRISTOWN	NJ (US)
DP	LIBERTY			KEWR	NEWARK	NJ (US)
DP	NEWARK			KEWR	NEWARK	NJ (US)
DP	TETERBORO			KTEB	TETERBORO	NJ (US)
DP	T/O MINS AND OBSTACLE DP			K44N	MILLBROOK	NY (US)
DP	STEWART			KSWF	NEWBURGH	NY (US)
DP	DUTCHESS			KPOU	POUGHKEEPSIE	NY (US)
DP	T/O MINS AND OBSTACLE DP			KPOU	POUGHKEEPSIE	NY (US)
DP	T/O MINS AND OBSTACLE DP			KN69	STORMVILLE	NY (US)
EN ROUTE	J37					(US)
EN ROUTE	J522		4			(US)
EN ROUTE	Q480					(US)
EN ROUTE	V157		1			(US)
EN ROUTE	V167					(US)
EN ROUTE	V483					(US)
EN ROUTE	V58					(US)
EN ROUTE	V93					(US)
IAP	LOC RWY 8			KDXR	DANBURY	CT (US)
IAP	VOR OR GPS-A			KDXR	DANBURY	CT (US)
IAP	LOC RWY 26			KPSF	PITTSFIELD	MA (US)
IAP	RNAV (GPS) RWY 23			KOAJ	JACKSONVILLE	NC (US)
IAP	NDB OR GPS-A			KCDW	CALDWELL	NJ (US)
IAP	ILS OR LOC RWY 6			KTEB	TETERBORO	NJ (US)
IAP	VOR/DME RWY 6			KTEB	TETERBORO	NJ (US)

QUALITY CHECKED

IAP	VOR/DME-A		KTEB	TETERBORO	NJ (US)
IAP	VOR/DME-B		KTEB	TETERBORO	NJ (US)
IAP	GPS RWY 22		KN89	ELLENVILLE	NY (US)
IAP	VOR OR GPS-A		K20N	KINGSTON	NY (US)
IAP	NDB RWY 26		K06N	MIDDLETOWN	NY (US)
IAP	RNAV (GPS) RWY 26		K06N	MIDDLETOWN	NY (US)
IAP	VOR-A	3	K44N	MILLBROOK	NY (US)
IAP	ILS OR LOC RWY 3		KMGJ	MONTGOMERY	NY (US)
IAP	NDB RWY 3		KMGJ	MONTGOMERY	NY (US)
IAP	RNAV (GPS) RWY 21		KMGJ	MONTGOMERY	NY (US)
IAP	ILS OR LOC RWY 27	2	KSWF	NEWBURGH	NY (US)
IAP	ILS OR LOC RWY 9	2	KSWF	NEWBURGH	NY (US)
IAP	ILS RWY 9 (CAT II)	2	KSWF	NEWBURGH	NY (US)
IAP	RNAV (GPS) RWY 16		KSWF	NEWBURGH	NY (US)
IAP	RNAV (GPS) RWY 34		KSWF	NEWBURGH	NY (US)
IAP	VOR RWY 27	2	KSWF	NEWBURGH	NY (US)
IAP	ILS OR LOC RWY 6	2	KPOU	POUGHKEEPSIE	NY (US)
IAP	RNAV (GPS) RWY 6	6	KPOU	POUGHKEEPSIE	NY (US)
IAP	VOR-A	2	KPOU	POUGHKEEPSIE	NY (US)
IAP	VOR/DME RWY 24		KPOU	POUGHKEEPSIE	NY (US)
IAP	VOR/DME RWY 6	2	KPOU	POUGHKEEPSIE	NY (US)
IAP	VOR OR GPS RWY 1		K46N	RED HOOK	NY (US)
IAP	VOR OR GPS-A	5	KN69	STORMVILLE	NY (US)
IAP	ILS OR LOC RWY 16		KHPN	WHITE PLAINS	NY (US)
IAP	NDB RWY 16		KHPN	WHITE PLAINS	NY (US)
STAR	BRIDGEPORT		KBDR	BRIDGEPORT	CT (US)
STAR	FLOSI (RNAV)		KEWR	NEWARK	NJ (US)
STAR	SHAFF		KEWR	NEWARK	NJ (US)
STAR	KINGSTON	4	KFRG	FARMINGDALE	NY (US)
STAR	KINGSTON	4	KJFK	NEW YORK	NY (US)
STAR	BASYE (RNAV)		KLGA	NEW YORK	NY (US)
STAR	HAARP		KLGA	NEW YORK	NY (US)
STAR	NOBBI		KLGA	NEW YORK	NY (US)
STAR	HUDSON		KSWF	NEWBURGH	NY (US)
STAR	VALRE	1	KHPN	WHITE PLAINS	NY (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 20 **DATE OF REVISION:** 04/05/2012

REASON FOR REVISION:
CHANGED PAT 2 HOLDING MINIMUM ALTITUDE TO 3000.
CHANGED PAT 6 MINIMUM TEMPLATE TO 5.
UPDATED PAT 3 CONTROLLING OBSTRUCTION.

DEVELOPED BY: **DATE:** 06/08/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (AISHAT NAUZO)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZBW, ZNY
ATC FACILITY: NEW YORK APP CON
OTHER:

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: SPARTA VORTAC **STATE:** NJ **COUNTRY:** US

LATITUDE/LONGITUDE: 410403.16N/0743217.93W **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	SPARTA	SAX	VORTAC	H							45000

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	SE	SAX	VORTAC	119.00	299.00	R	1-1 1/2		3000	17500	4	16
2	SE	SAX	VORTAC	155.00	335.00	R	1		3000	14000	4	10
3	SE	SAX	VORTAC	144.00	324.00	R	1		3000	8000	4	8
4	W	SAX	VORTAC	285.00	105.00	R	1 1/2		18000	41000	16	28
5	W	SAX	VORTAC	259.00	079.00	L	1		3000	8000	4	8
6	W		WP	259.00	079.00	L		4	3000	8000	5	9

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	410842.00N/0743115.00W	1647	4E
2	200	AAO	410842.00N/0743115.00W	1647	4E
3	200	AAO	410842.00N/0743115.00W	1647	4E
4	265	AAO	410030.00N/0750330.00W	1818	4E
5	200	AAO	410842.00N/0743115.00W	1647	4E
6	200	AAO	410854.00N/0743051.00W	1683	4E

REASON FOR NONSTANDARD HOLDING:
PAT 5 ATC REQUEST
PAT 6 ATC REQUEST.

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
HOLDING PATTERNS 1, 3 & 4 ATC USE.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BRIDGEHAVEN			KBDR	BRIDGEPORT	CT (US)
DP	BRIDGEHAVEN			KHVN	NEW HAVEN	CT (US)
DP	MORRISTOWN			KMMU	MORRISTOWN	NJ (US)
DP	LIBERTY			KEWR	NEWARK	NJ (US)
DP	NEWARK			KEWR	NEWARK	NJ (US)
DP	PORTT (RNAV)			KEWR	NEWARK	NJ (US)
DP	T/O MINS AND OBSTACLE DP			KFWN	SUSSEX	NJ (US)
DP	RUUDY			KTEB	TETERBORO	NJ (US)
DP	TETERBORO			KTEB	TETERBORO	NJ (US)
DP	FARMINGDALE			KFRG	FARMINGDALE	NY (US)
DP	LONG ISLAND			KISP	NEW YORK	NY (US)
DP	KENNEDY			KJFK	NEW YORK	NY (US)
DP	SEAVIEW			KJFK	NEW YORK	NY (US)
DP	SKORR (RNAV)			KJFK	NEW YORK	NY (US)
DP	LA GUARDIA			KLGA	NEW YORK	NY (US)
DP	TNNIS			KLGA	NEW YORK	NY (US)
DP	WESTCHESTER			KHPN	WHITE PLAINS	NY (US)
EN ROUTE	J36					(US)
EN ROUTE	J6					(US)
EN ROUTE	J60					(US)
EN ROUTE	J77					(US)
EN ROUTE	J80					(US)
EN ROUTE	V116					(US)
EN ROUTE	V126					(US)
EN ROUTE	V188					(US)
EN ROUTE	V213					(US)
EN ROUTE	V249					(US)
EN ROUTE	V39					(US)
EN ROUTE	V623					(US)
IAP	RNAV (GPS) RWY 3			K12N	ANDOVER	NJ (US)
IAP	RNAV (GPS) RWY 25			K1N7	BLAIRSTOWN	NJ (US)
IAP	LOC RWY 22		5	KCDW	CALDWELL	NJ (US)
IAP	NDB OR GPS-A	1		KCDW	CALDWELL	NJ (US)
IAP	RNAV (GPS) RWY 04			KCDW	CALDWELL	NJ (US)
IAP	RNAV (GPS) RWY 10			KCDW	CALDWELL	NJ (US)
IAP	RNAV (GPS) RWY 22			KCDW	CALDWELL	NJ (US)

QUALITY CHECKED

IAP	RNAV (GPS) RWY 1	6	KN07	LINCOLN PARK	NJ (US)
IAP	RNAV (GPS) RWY 19		KN07	LINCOLN PARK	NJ (US)
IAP	RNAV (GPS) RWY 23		KMMU	MORRISTOWN	NJ (US)
IAP	VOR RWY 11	3	KEWR	NEWARK	NJ (US)
IAP	RNAV (GPS) RWY 3	6	KFWN	SUSSEX	NJ (US)
IAP	VOR -A	2	KFWN	SUSSEX	NJ (US)
IAP	ILS RWY 19		KTEB	TETERBORO	NJ (US)
IAP	VOR/DME-B		KTEB	TETERBORO	NJ (US)
IAP	NDB RWY 26		K06N	MIDDLETOWN	NY (US)
IAP	RNAV (GPS) RWY 8		K06N	MIDDLETOWN	NY (US)
IAP	ILS OR LOC RWY 3		KMGJ	MONTGOMERY	NY (US)
IAP	NDB RWY 3		KMGJ	MONTGOMERY	NY (US)
IAP	RNAV (GPS) RWY 3		KMGJ	MONTGOMERY	NY (US)
IAP	VOR RWY 8		KMGJ	MONTGOMERY	NY (US)
IAP	ILS OR LOC RWY 9		KSWF	NEWBURGH	NY (US)
IAP	ILS RWY 9 (CAT II)		KSWF	NEWBURGH	NY (US)
IAP	RNAV (GPS) RWY 34		KSWF	NEWBURGH	NY (US)
IAP	ILS OR LOC RWY 16	1	KHPN	WHITE PLAINS	NY (US)
IAP	ILS OR LOC RWY 34	1	KHPN	WHITE PLAINS	NY (US)
IAP	RNAV (GPS) Y RWY 16		KHPN	WHITE PLAINS	NY (US)
STAR	WILKES BARRE		KCDW	CALDWELL	NJ (US)
STAR	WILKES BARRE		KLDJ	LINDEN	NJ (US)
STAR	WILKES BARRE		KMMU	MORRISTOWN	NJ (US)
STAR	FLOSI (RNAV)		KEWR	NEWARK	NJ (US)
STAR	SHAFF		KEWR	NEWARK	NJ (US)
STAR	WILKES BARRE		K39N	PRINCETON/ROCKY HILL	NJ (US)
STAR	WILKES BARRE		KN51	READINGTON	NJ (US)
STAR	WILKES BARRE		KSMQ	SOMERVILLE	NJ (US)
STAR	WILKES BARRE		KTEB	TETERBORO	NJ (US)
STAR	KINGSTON		KFRG	FARMINGDALE	NY (US)
STAR	KINGSTON		KJFK	NEW YORK	NY (US)

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

COMPULSORY REPORTING POINT: NO

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

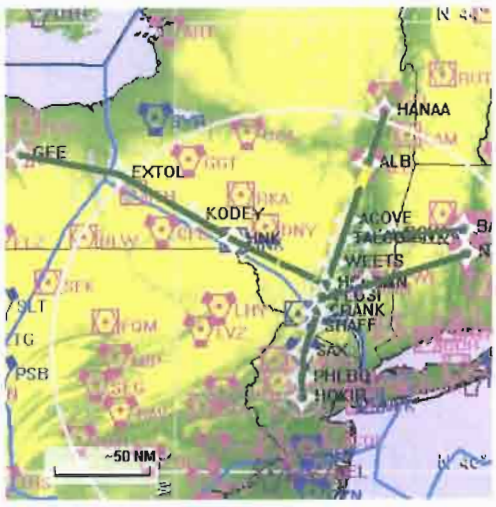
REASON FOR REVISION:
CHANGED PAT 4 MIN TEMPLATE FROM 4 TO 16.
UPDATED PAT 4 OBSTRUCTION.
UPDATED PAT 6 OBSTRUCTION.

DEVELOPED BY: **DATE:** 02/10/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (AISHAT NAUZO)

APPROVED BY: **DATE:** 10/31/2011 **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZNY
ATC FACILITY: NYC APP CON
OTHER: MMU ATCT



Name:	DAVE COOK
Project Name:	KEWR FLOSI2 STAR ALL TRANSITIONS HOKIR 20111114
Software:	RNAV-Pro™
Version:	2.35l
Date/Time:	11/14/2011 11:28:16 AM
Input File:	KEWR FLOSI2 STAR HNK...
Databases:	AVNIS Date: 08/26/2011
	NFD Date: 07/02/2009
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✓
DME/DME	✓
Radars	✓
Comms	
TERPS	

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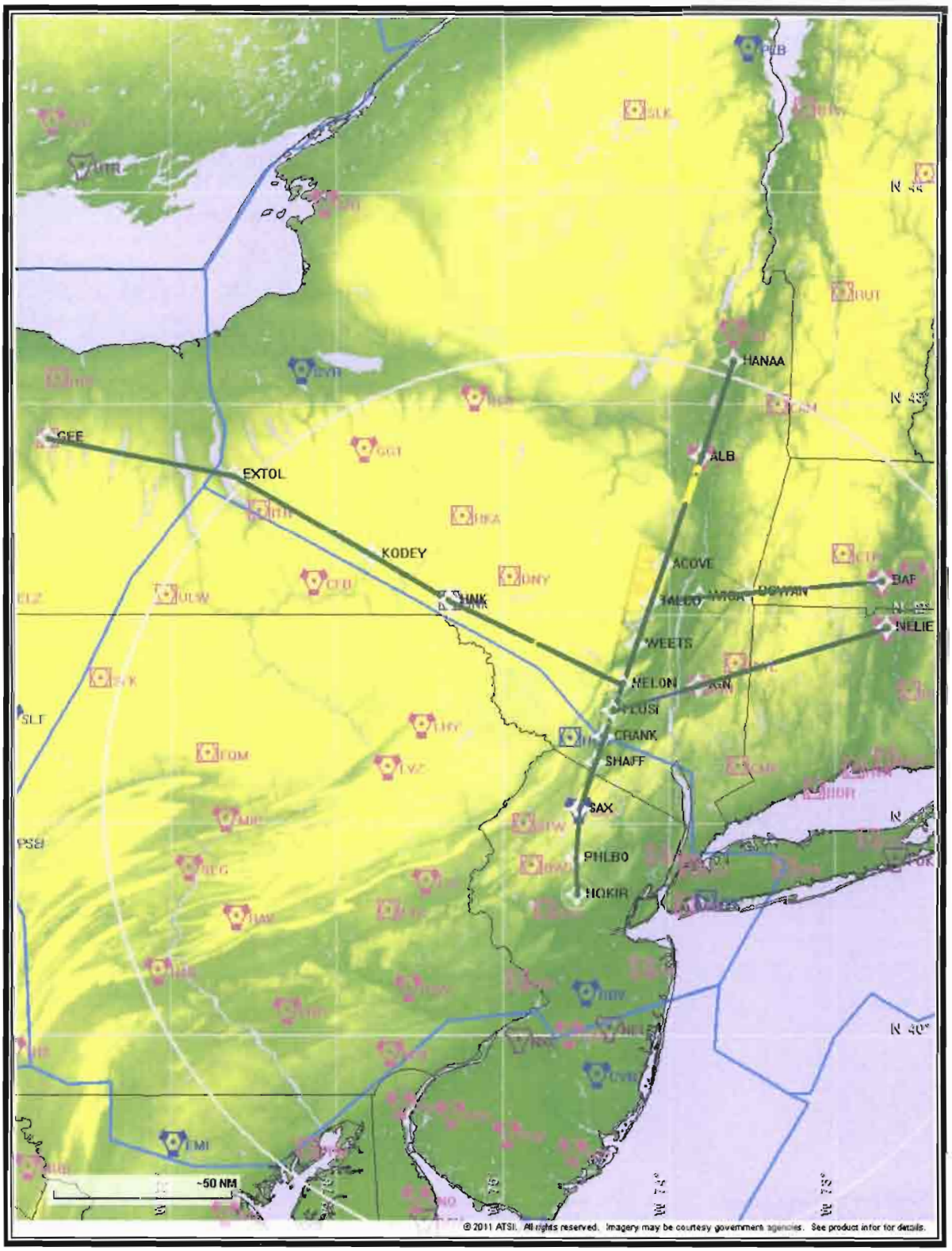
HANAA
ALB
GEE
EXTOL
KODEY
ACOVE
DOWAN
BAF
NELIE
WEETS
NELON
FLOSI
CRANK
SHAFF
SAX
PHLBO
HOKIR
~50 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
HNK	WP	N 42° 3' 47.01" W 75° 18' 58.62"	8000.0	Step	250.0	Fly By	TF
HELON	WP	N 41° 40' 2.72" W 74° 16' 49.52"	8000.0	Step	250.0	Fly By	TF
FLOSI	WP	N 41° 32' 36.70" W 74° 20' 2.75"	5000.0	Step	250.0	Fly By	TF
CRANK	WP	N 41° 24' 59.79" W 74° 23' 19.93"	5000.0	Step	250.0	Fly By	TF
SHAFF	WP	N 41° 17' 22.94" W 74° 26' 36.26"	5000.0	Step	250.0	Fly By	TF
SAX	WP	N 41° 4' 3.16" W 74° 32' 17.93"	4000.0	Step	220.0	Fly By	TF
PHLBO	WP	N 40° 49' 49.39" W 74° 33' 36.68"	4000.0	Step	220.0	Fly By	TF
HOKIR	WP	N 40° 39' 20.15" W 74° 33' 3.17"	4000.0	Step	220.0	Fly Over	TF

Flyability

Return To Summary

Settings:

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

Table:

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

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

Entire track is fly-able

DME/DME

Return To Summary

Settings:

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

Total Number of DMEs Used: 16

Maximum DME Error: 0.424 NM.

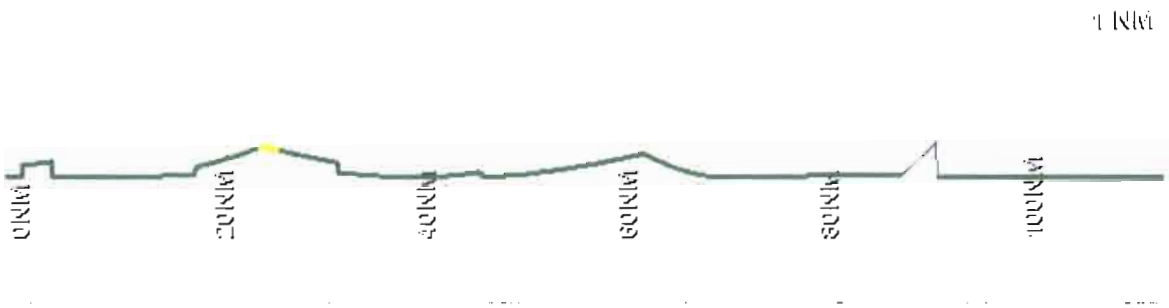
No Critical DMEs were found.

Available DMEs: CFB, DNY, LHY, RKA, HNK, HUO, IGN, PWL, SAX, STW, BWZ, SBJ, LGA, COL, RBV, ARD, JFK

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

DME/DME (Continued.)

Return To Summary



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	CFB	N 42° 9' 26.95" W 76° 8' 11.30"	L	Database	NO	0.424	Enabled	1.5 %	1.4 %
2	RKA	N 42° 27' 58.91" W 75° 14' 21.51"	L	Database	NO	0.499	Enabled	3.7 %	3.7 %
3	LHY	N 41° 28' 32.80" W 75° 28' 57.46"	L	Database	NO	0.424	Enabled	11.1 %	11.1 %
4	DNY	N 42° 10' 41.81" W 74° 57' 24.99"	L	Database	NO	0.655	Enabled	10.4 %	10.4 %
5	HNK	N 42° 3' 47.01" W 75° 18' 58.62"	H	Database	NO	0.860	Enabled	24.6 %	24.6 %
6	HUO	N 41° 24' 34.87" W 74° 35' 29.74"	H	Database	NO	1.312	Enabled	43.2 %	43.2 %
7	IGN	N 41° 39' 55.61" W 73° 49' 20.00"	L	Database	NO	0.440	Enabled	27.1 %	27.1 %
8	SAX	N 41° 4' 3.16" W 74° 32' 17.93"	H + ESV	User	NO	0.942	Enabled	26.1 %	26.2 %
9	BWZ	N 40° 47' 54.36" W 74° 49' 18.60"	L	Database	NO	0.424	Enabled	2.0 %	2.0 %
10	STW	N 40° 59' 44.95" W 74° 52' 8.51"	L	Database	NO	0.605	Enabled	16.8 %	16.8 %
11	LGA	N 40° 47' 1.38" W 73° 52' 6.96"	L	Database	NO	0.571	Enabled	12.2 %	12.2 %
12	SBJ	N 40° 34' 58.96" W 74° 44' 30.46"	L	Database	NO	0.424	Enabled	10.0 %	10.0 %
13	RBV	N 40° 12' 8.65" W 74° 29' 42.09"	H	Database	NO	0.424	Enabled	2.8 %	2.8 %
14	COL	N 40° 18' 41.88" W 74° 9' 35.02"	L	Database	NO	0.424	Enabled	0.0 %	0.0 %
15	ARD	N 40° 15' 12.03" W 74° 54' 27.42"	L	Database	NO	0.424	Enabled	0.0 %	0.0 %
16	JFK	N 40° 37' 58.40" W 73° 46' 17.00"	H	Database	NO	0.424	Enabled	2.3 %	2.3 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	CFB	RKA	LHY	DNY	HNK	
14.9	HUO	RKA	LHY	DNY	HNK	
32.8	HUO	SAX	IGN	DNY	HNK	PWL
50.8	HUO	SAX	IGN	PWL		
59.6	HUO	SAX	IGN	PWL	STW	

DME/DME (Continued.)

Return To Summary

Flight Check DME Selection (Continued.)

Distance [NM]	Selected DMEs					Alternate
67.6	HUO	SAX	IGN	BWZ	STW	
75.6	HUO	SAX	IGN	BWZ	STW	SBJ
89.1	HUO	SBJ	LGA	BWZ	STW	SAX
103.6	HUO	RBV	LGA	JFK	SAX	STW

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 41° 4' 56.96" W 74° 31' 55.04"	N 41° 1' 33.06" W 74° 32' 32.17"	3.4
	VOR: BWZ	Available from N 41° 4' 56.96" W 74° 31' 55.04" to N 41° 1' 33.06" W 74° 32' 32.17"	
	VOR: HUO	Available from N 41° 4' 56.96" W 74° 31' 55.04" to N 41° 1' 33.06" W 74° 32' 32.17"	
	VOR: LGA	Available from N 41° 4' 56.96" W 74° 31' 55.04" to N 41° 1' 33.06" W 74° 32' 32.17"	
	VOR: SAX	Available from N 41° 4' 56.96" W 74° 31' 55.04" to N 41° 1' 33.06" W 74° 32' 32.17"	
	VOR: SBJ	Available from N 41° 4' 56.96" W 74° 31' 55.04" to N 41° 1' 33.06" W 74° 32' 32.17"	
	VOR: STW	Available from N 41° 4' 56.96" W 74° 31' 55.04" to N 41° 1' 33.06" W 74° 32' 32.17"	
	VOR: TEB	Available from N 41° 4' 56.96" W 74° 31' 55.04" to N 41° 1' 33.06" W 74° 32' 32.17"	
	VOR: CRI	Available from N 41° 3' 56.04" W 74° 32' 17.72" to N 41° 1' 33.06" W 74° 32' 32.17"	

User DMEs

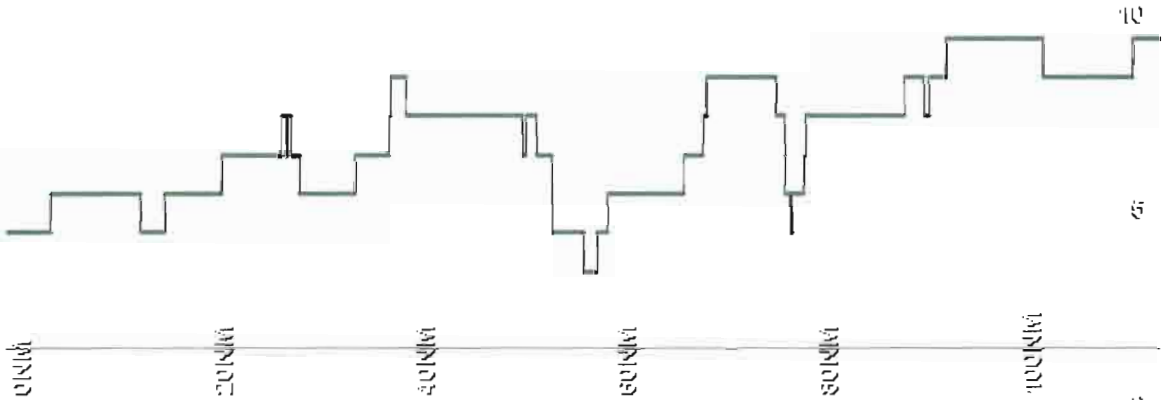
#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	SAX	N 41° 4' 3.16" W 74° 32' 17.93"	H	1399.7	115.70	SAX	Used

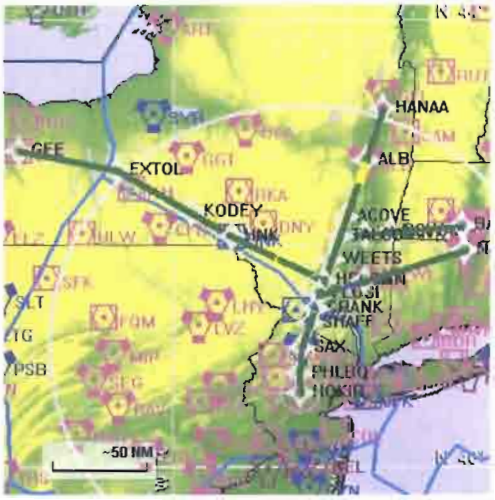
ESV: Bearing [True]: 12.0° to 34.0°
Bearing [Mag]: 23.0° to 45.0°
Arc Distance: Out to 78.0 NM
Altitude: 6500.0 to 19000.0 Ft.

Radar Analysis

Return To Summary

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





Name:	DAVE COOK
Project Name:	KEWR FLOSI2 STAR ALL TRANSITIONS HOKIR 20111114
Software:	RNAV-Pro™
Version:	2.35l
Date/Time:	11/14/2011 11:27:35 AM
Input File:	KEWR FLOSI2 STAR GEE...
Databases:	AVNIS Date: 08/26/2011 NFD Date: 07/02/2009 DTED® (MAX) Date: 2002

Results Summary:

Flyability	✓
DME/DME	✓
Radars	✓
Comms	
TERPS	

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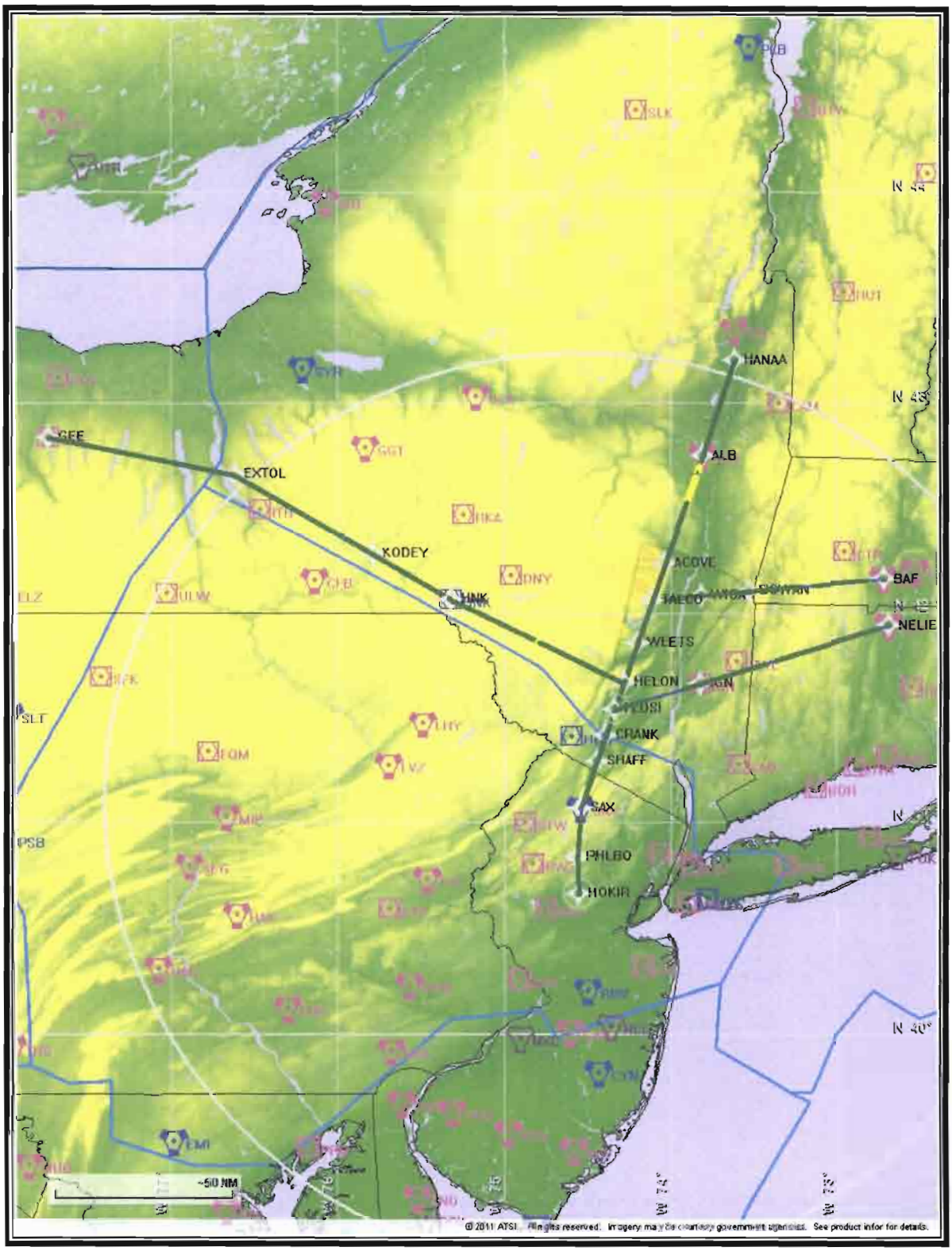
HANAA
ALB
GEE
EXTOL
KODEY
ACOVE
BAF
NELIE
WLETS
HELON
FLOSI
CRANK
SHAFF
SAX
PHLBO
HOKIR
N 44°
N 42°
N 40°
~50 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
GEE	WP	N 42° 50' 3.83" W 77° 43' 57.90"	17000.0	Step	275.0	Fly By	TF
EXTOL	WP	N 42° 39' 27.69" W 76° 37' 6.10"	17000.0	Step	275.0	Fly By	TF
KODEY	WP	N 42° 16' 47.53" W 75° 47' 4.00"	17000.0	Step	275.0	Fly By	TF
HNK	WP	N 42° 3' 47.01" W 75° 18' 58.62"	17000.0	Step	275.0	Fly Over	TF

Flyability

Return To Summary

Settings:

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

Table:

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

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

Entire track is fly-able

DME/DME

Return To Summary

Settings:

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

Total Number of DMEs Used: 14

Maximum DME Error: 0.350 NM.

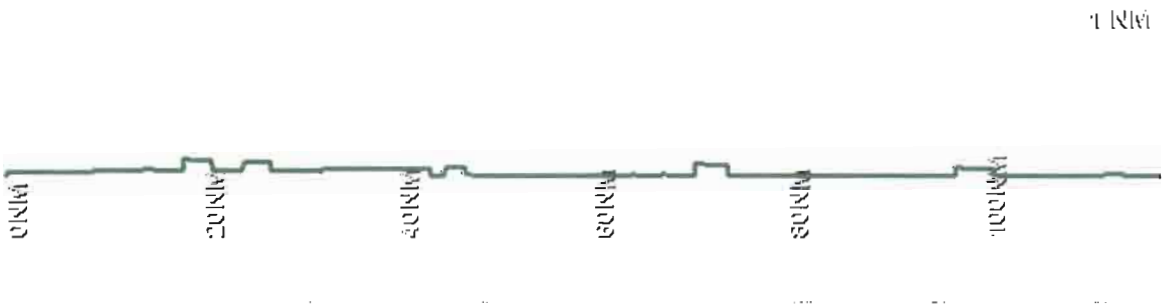
No Critical DMEs were found.

Available DMEs: BUF, DKK, JHW, ROC, SLT, SYR, GEE, HNK, ITH, GGT, CFB, HUO, RKA, SAX, DNY, LHY

Foreign DMEs within range: UTR, UYB, YCF, YEE, YJN, YOW, YQG, YQO, YUL, YVV, YWT, YXI, YXU, YYZ

DME/DME (Continued.)

Return To Summary



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	BUF	N 42° 55' 44.40" W 78° 38' 46.84"	H	Database	NO	0.395	Enabled	4.3 %	4.3 %
2	ROC	N 43° 7' 5.31" W 77° 40' 22.06"	L	Database	NO	0.350	Enabled	3.9 %	3.9 %
3	SLT	N 41° 30' 45.93" W 77° 58' 12.40"	H	Database	NO	0.431	Enabled	34.6 %	34.6 %
4	GEE	N 42° 50' 3.83" W 77° 43' 57.90"	L	Database	NO	0.435	Enabled	7.4 %	7.4 %
5	DKK	N 42° 29' 26.01" W 79° 16' 26.75"	H	Database	NO	0.350	Enabled	0.0 %	0.0 %
6	SYR	N 43° 9' 37.90" W 76° 12' 16.40"	H	Database	NO	0.350	Enabled	25.2 %	25.2 %
7	JHW	N 42° 11' 18.99" W 79° 7' 16.70"	H	Database	NO	0.350	Enabled	3.7 %	3.7 %
8	HNK	N 42° 3' 47.01" W 75° 18' 58.62"	H	Database	NO	0.329	Enabled	21.5 %	21.5 %
9	ITH	N 42° 29' 42.09" W 76° 27' 36.02"	L	Database	NO	0.350	Enabled	28.0 %	28.1 %
10	GGT	N 42° 47' 20.24" W 75° 49' 36.29"	L	Database	NO	0.350	Enabled	16.0 %	16.0 %
11	CFB	N 42° 9' 26.95" W 76° 8' 11.30"	L	Database	NO	0.350	Enabled	15.9 %	15.9 %
12	HUO	N 41° 24' 34.87" W 74° 35' 29.74"	H	Database	NO	0.350	Enabled	6.5 %	6.5 %
13	RKA	N 42° 27' 58.91" W 75° 14' 21.51"	L	Database	NO	0.376	Enabled	29.7 %	29.7 %
14	SAX	N 41° 4' 3.16" W 74° 32' 17.93"	H + ESV	User	NO	0.350	Enabled	3.3 %	3.3 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	BUF	SLT	GEE	JHW	ROC	SYR
18.2	HNK	SLT	GEE	ITH	SYR	JHW
39.5	HNK	SLT	BUF	ITH	SYR	GGT
49.7	HNK	CFB	GGT	ITH	SYR	SLT
68.0	HNK	HUO	GGT	ITH	SYR	CFB
78.1	HNK	RKA	GGT	ITH	SYR	CFB
93.8	HUO	RKA	CFB	SAX	SYR	DNY
103.9	HUO	RKA	CFB	HNK	DNY	SYR

DME/DME (Continued.)

Return To Summary

User DMEs

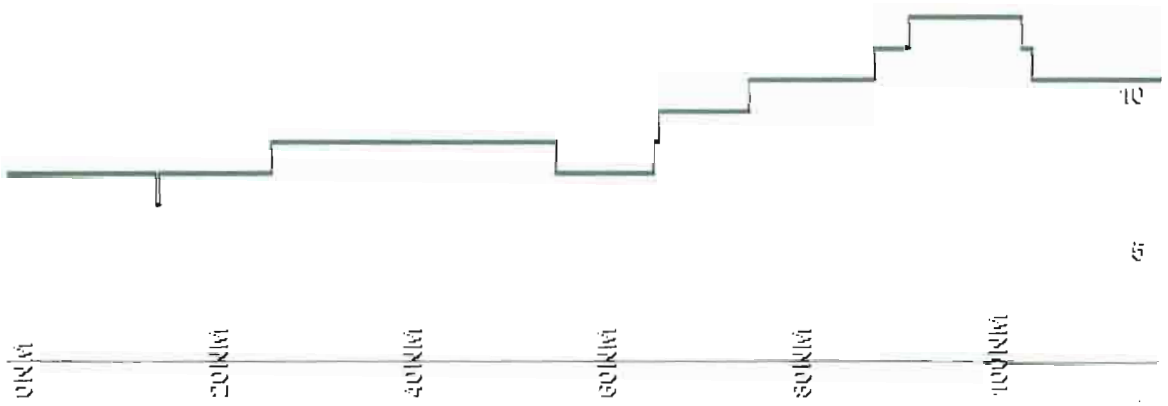
#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	SAX	N 41° 4' 3.16" W 74° 32' 17.93"	H	1399.7	115.70	SAX	Used

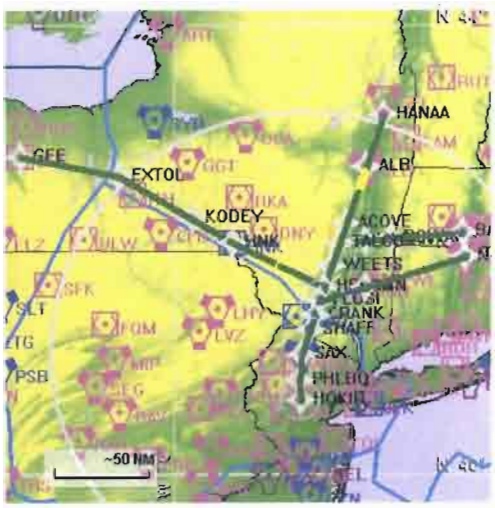
ESV: Bearing [True]: 12.0° to 34.0°
Bearing [Mag]: 23.0° to 45.0°
Arc Distance: Out to 78.0 NM
Altitude: 6500.0 to 19000.0 Ft.

Radar Analysis

Return To Summary

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





Name:	DAVE COOK
Project Name:	KEWR FLOSI2 STAR ALL TRANSITIONS HOKIR 20111114
Software:	RNAV-Pro™
Version:	2.35l
Date/Time:	11/14/2011 11:28:37 AM
Input File:	KEWR FLOSI2 STAR NEL...
Databases:	AVNIS Date: 08/26/2011
	NFD Date: 07/02/2009
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✓
DME/DME	✓
Radars	✓
Comms	
TERPS	

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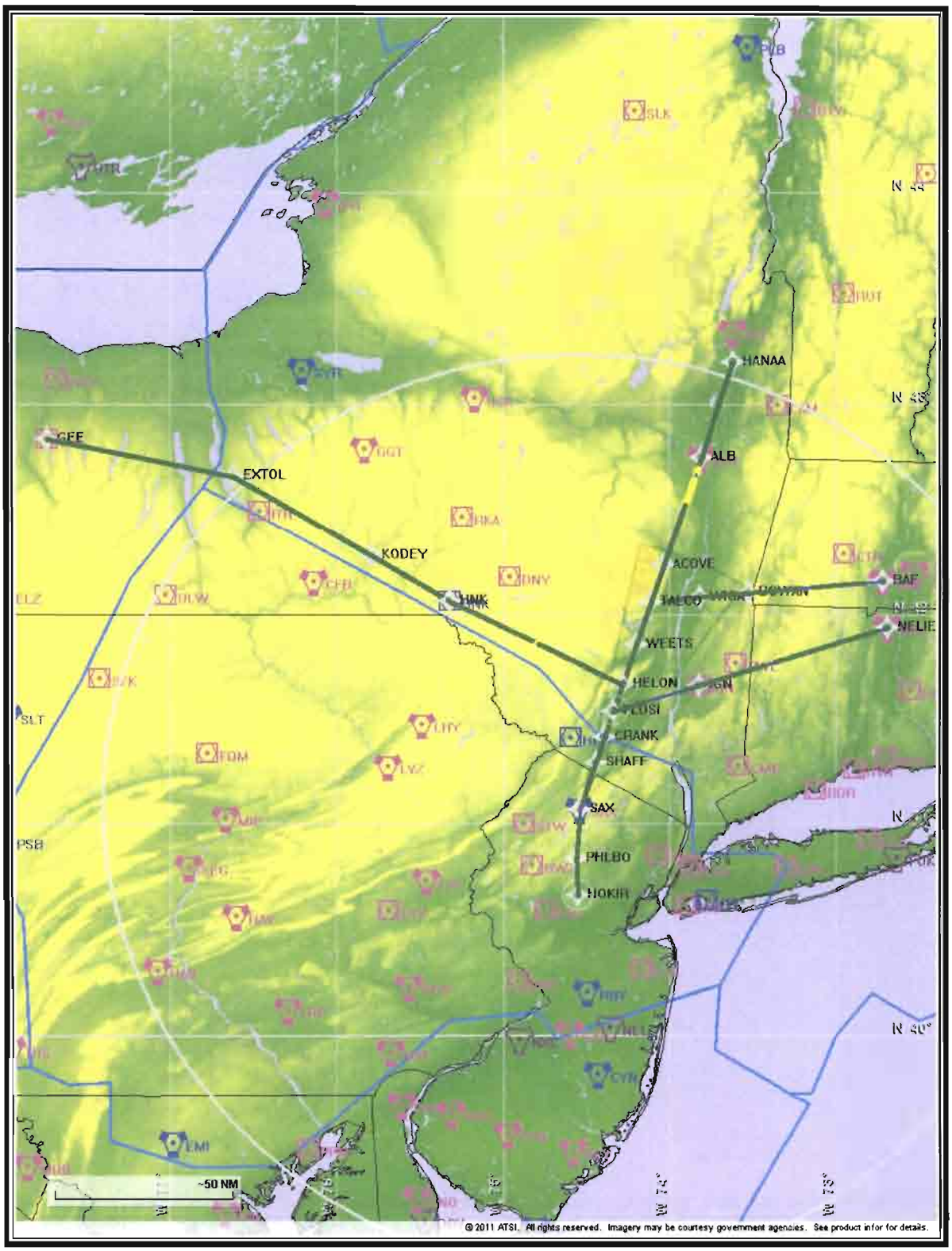
HANAA
GEE
EXTOL
ALB
KODEY
ACOVE
BAF
NELIE
WEETS
HELON
FLOSI
CRANK
SHAFF
SAX
PHLBO
HOKIR
SLT
PSB
~50 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
NELIE	WP	N 41° 56' 27.64" W 72° 41' 18.88"	14000.0	Step	250.0	Fly By	TF
IGN	WP	N 41° 39' 55.61" W 73° 49' 20.00"	8000.0	Step	210.0	Fly By	TF
FLOSI	WP	N 41° 32' 36.70" W 74° 20' 2.75"	5000.0	Step	180.0	Fly Over	TF

Flyability

Return To Summary

Settings:

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

Table:

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

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

Entire track is fly-able

DME/DME

Return To Summary

Settings:

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

Total Number of DMEs Used: 11

Maximum DME Error: 0.697 NM

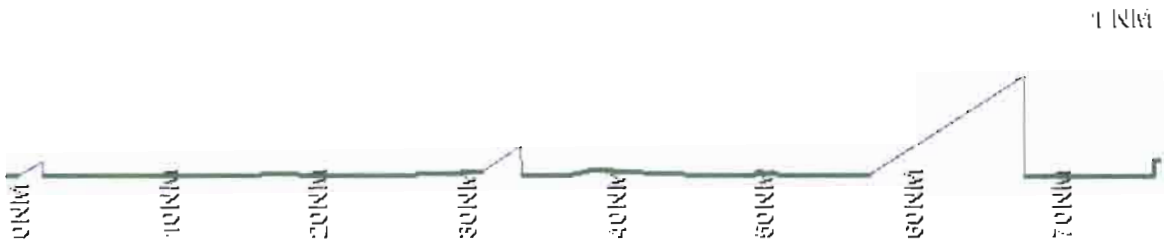
No Critical DMEs were found.

Available DMEs: BAF, CTR, HFD, PUT, PWL, BDL, MAD, IGN, CMK, HUO, SAX

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

DME/DME (Continued.)

Return To Summary



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	BAF	N 42° 9' 43.06" W 72° 42' 58.31"	L	Database	NO	0.697	Enabled	10.6 %	10.6 %
2	PUT	N 41° 57' 19.66" W 71° 50' 38.74"	H	Database	NO	0.697	Enabled	1.1 %	1.2 %
3	CTR	N 42° 17' 28.75" W 72° 56' 57.82"	L	Database	NO	0.697	Enabled	28.0 %	28.5 %
4	PWL	N 41° 46' 11.18" W 73° 36' 1.99"	L	Database	NO	0.699	Enabled	23.1 %	23.7 %
5	BDL	N 41° 56' 27.64" W 72° 41' 18.88"	T	Database	NO	0.697	Enabled	0.0 %	0.0 %
6	MAD	N 41° 18' 49.81" W 72° 41' 31.89"	L	Database	NO	0.697	Enabled	0.0 %	0.0 %
7	HFD	N 41° 38' 27.98" W 72° 32' 50.70"	L	Database	NO	0.697	Enabled	27.1 %	26.7 %
8	CMK	N 41° 16' 48.20" W 73° 34' 52.90"	L	Database	NO	1.579	Enabled	41.9 %	41.4 %
9	IGN	N 41° 39' 55.61" W 73° 49' 20.00"	L	Database	NO	0.697	Enabled	15.2 %	15.0 %
10	HUO	N 41° 24' 34.87" W 74° 35' 29.74"	H	Database	NO	0.697	Enabled	3.3 %	3.2 %
11	SAX	N 41° 4' 3.16" W 74° 32' 17.93"	H + ESV	User	NO	0.697	Enabled	11.9 %	11.7 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	BAF	HFD	CTR	PWL	PUT	BDL
33.7	CMK	IGN	HUO	PWL		
53.4	CMK	IGN	HUO	PWL	SAX	

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 41° 56' 9.43" W 72° 42' 35.67"	N 41° 55' 40.33" W 72° 44' 38.37"	1.6
	VOR: BAF	Available from N 41° 56' 9.43" W 72° 42' 35.67" to N 41° 55' 40.33" W 72° 44' 38.37"	
	VOR: BDL	Available from N 41° 56' 9.43" W 72° 42' 35.67" to N 41° 55' 40.33" W 72° 44' 38.37"	
	VOR: CEF	Available from N 41° 56' 9.43" W 72° 42' 35.67" to N 41° 55' 40.33" W 72° 44' 38.37"	
	VOR: CTR	Available from N 41° 56' 9.43" W 72° 42' 35.67" to N 41° 55' 40.33" W 72° 44' 38.37"	
	VOR: HFD	Available from N 41° 56' 9.43" W 72° 42' 35.67" to N 41° 55' 40.33" W 72° 44' 38.37"	
	VOR: MAD	Available from N 41° 56' 9.43" W 72° 42' 35.67" to N 41° 55' 40.33" W 72° 44' 38.37"	
	VOR: ORW	Available from N 41° 56' 9.43" W 72° 42' 35.67" to N 41° 55' 46.39" W 72° 44' 12.84"	
	VOR: PUT	Available from N 41° 56' 9.43" W 72° 42' 35.67" to N 41° 55' 47.60" W 72° 44' 7.73"	
	VOR: PWL	Available from N 41° 55' 47.60" W 72° 44' 7.73" to N 41° 55' 40.33" W 72° 44' 38.37"	
2	N 41° 46' 37.32" W 73° 22' 11.92"	N 41° 45' 48.64" W 73° 25' 30.94"	2.6
	VOR: BAF	Available from N 41° 46' 37.32" W 73° 22' 11.92" to N 41° 45' 48.64" W 73° 25' 30.94"	
	VOR: BDL	Available from N 41° 46' 37.32" W 73° 22' 11.92" to N 41° 45' 48.64" W 73° 25' 30.94"	
	VOR: BDR	Available from N 41° 46' 37.32" W 73° 22' 11.92" to N 41° 45' 48.64" W 73° 25' 30.94"	
	VOR: CMK	Available from N 41° 46' 37.32" W 73° 22' 11.92" to N 41° 45' 48.64" W 73° 25' 30.94"	
	VOR: CTR	Available from N 41° 46' 37.32" W 73° 22' 11.92" to N 41° 45' 48.64" W 73° 25' 30.94"	
	VOR: HFD	Available from N 41° 46' 37.32" W 73° 22' 11.92" to N 41° 45' 51.75" W 73° 25' 18.24"	
	VOR: HVN	Available from N 41° 46' 37.32" W 73° 22' 11.92" to N 41° 45' 48.64" W 73° 25' 30.94"	
	VOR: IGN	Available from N 41° 46' 37.32" W 73° 22' 11.92" to N 41° 45' 48.64" W 73° 25' 30.94"	
	VOR: PWL	Available from N 41° 46' 37.32" W 73° 22' 11.92" to N 41° 45' 48.64" W 73° 25' 30.94"	

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments (Continued.)

#	Start Location	End Location	Length [NM]
3	N 41° 38' 30.41" W 73° 55' 20.12"	N 41° 35' 23.29" W 74° 8' 28.09"	10.3
	VOR: CMK	Available from N 41° 38' 30.41" W 73° 55' 20.12" to N 41° 35' 23.29" W 74° 8' 28.09"	
	VOR: HUO	Available from N 41° 38' 30.41" W 73° 55' 20.12" to N 41° 35' 23.29" W 74° 8' 28.09"	
	VOR: IGN	Available from N 41° 38' 30.41" W 73° 55' 20.12" to N 41° 35' 23.29" W 74° 8' 28.09"	
	VOR: PWL	Available from N 41° 38' 30.41" W 73° 55' 20.12" to N 41° 35' 23.29" W 74° 8' 28.09"	
	VOR: SAX	Available from N 41° 36' 55.02" W 74° 2' 2.79" to N 41° 35' 23.29" W 74° 8' 28.09"	

User DMEs

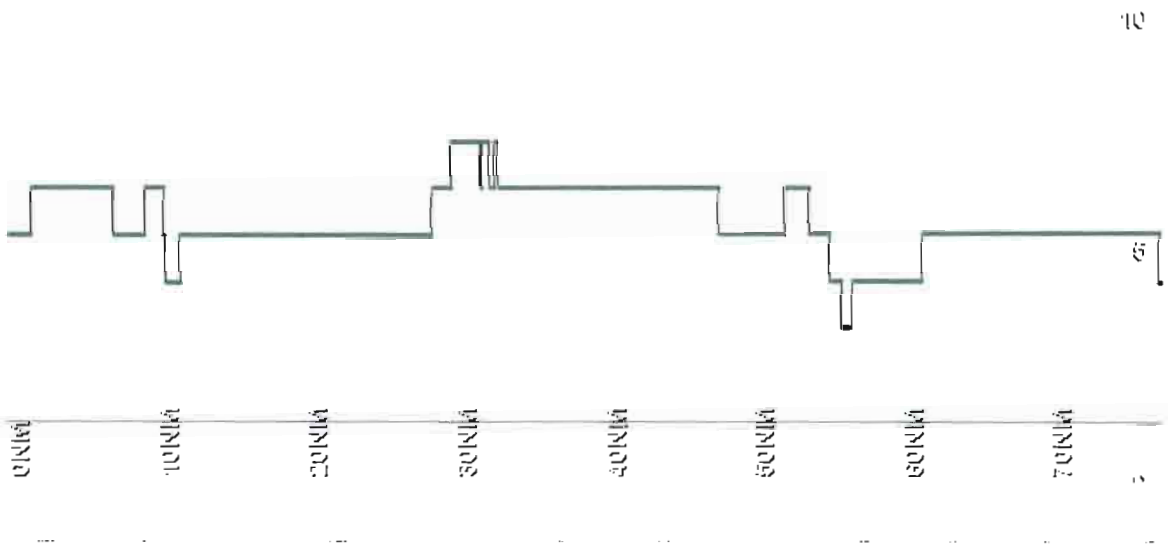
#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	SAX	N 41° 4' 3.16" W 74° 32' 17.93"	H	1399.7	115.70	SAX	Used

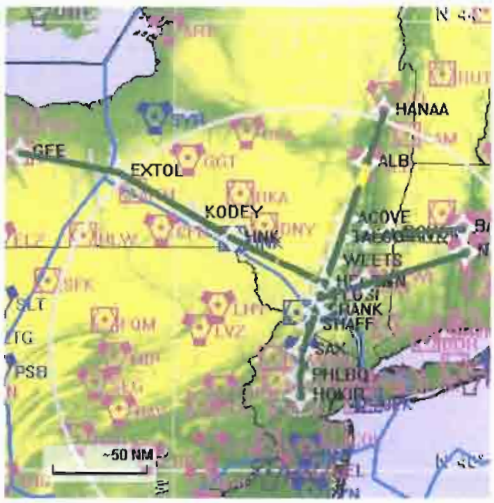
ESV: Bearing [True]: 12.0° to 34.0° Bearing [Mag]: 23.0° to 45.0°
Arc Distance: Out to 78.0 NM Altitude: 6500.0 to 19000.0 Ft.

Radar Analysis

Return To Summary

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





Name:	DAVE COOK
Project Name:	KEWR FLOSI2 STAR ALL TRANSITIONS HOKIR 20111114
Software:	RNAV-Pro™
Version:	2.35l
Date/Time:	11/14/2011 11:27:55 AM
Input File:	KEWR FLOSI2 STAR HAN...
Databases:	AVNIS Date: 08/26/2011
	NFD Date: 07/02/2009
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✓
DME/DME	✓
Radars	✓
Comms	
TERPS	

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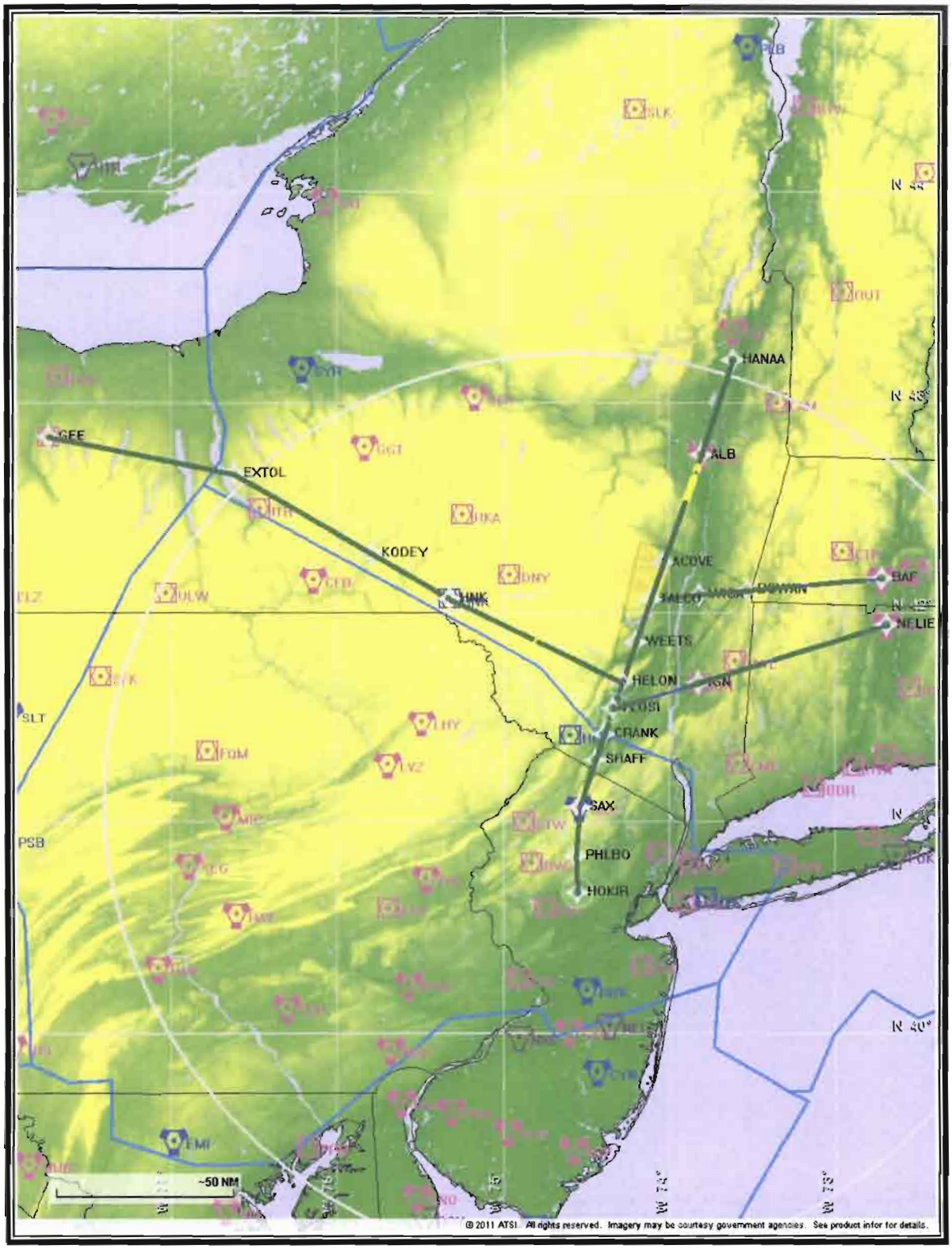
HANAA
ALB
GEE
EXTOL
KODEY
ACOVE
BAF
NELIE
WEETS
HELON
FLOSI
CRANK
SHAFF
SAX
PHLBO
HOKIR
SLT
PSB
~50 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
HANAA	WP	N 43° 11' 52.06" W 73° 36' 46.17"	17000.0	Step	275.0	Fly By	TF
ALB	WP	N 42° 44' 50.21" W 73° 48' 11.46"	17000.0	Step	275.0	Fly By	TF
ACOVE	WP	N 42° 14' 5.22" W 74° 1' 54.59"	17000.0	Step	275.0	Fly By	TF
TALCO	WP	N 42° 3' 45.97" W 74° 6' 27.85"	14000.0	Step	275.0	Fly By	TF
WEETS	WP	N 41° 51' 27.07" W 74° 11' 51.58"	8000.0	Step	250.0	Fly By	TF
HELON	WP	N 41° 40' 2.72" W 74° 16' 49.52"	8000.0	Step	250.0	Fly Over	TF

Flyability

Return To Summary

Settings:

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

Table:

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

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

Entire track is fly-able

DME/DME

Return To Summary

Settings:

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

Total Number of DMEs Used: 10

Maximum DME Error: 0.610 NM

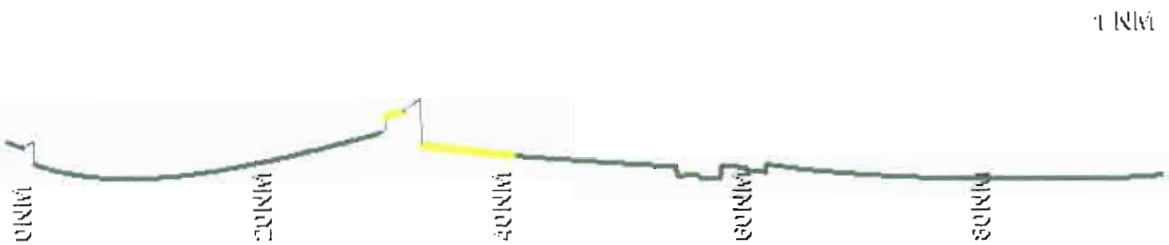
No Critical DMEs were found.

Available DMEs: CAM, GFL, PLB, HUO, ALB, SAX, HNK, PWL, IGN, JFK

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

DME/DME (Continued.)

Return To Summary



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	CAM	N 42° 59' 39.44" W 73° 20' 38.47"	L	Database	NO	1.709	Enabled	31.7 %	32.8 %
2	PLB	N 44° 41' 5.76" W 73° 31' 21.67"	H	Database	NO	0.631	Enabled	1.5 %	1.5 %
3	GFL	N 43° 20' 30.10" W 73° 36' 42.36"	L	Database	NO	0.704	Enabled	28.8 %	29.9 %
4	ALB	N 42° 44' 50.21" W 73° 48' 11.46"	L	Database	NO	0.582	Enabled	22.7 %	23.6 %
5	HUO	N 41° 24' 34.87" W 74° 35' 29.74"	H	Database	NO	0.706	Enabled	6.9 %	6.3 %
6	HNK	N 42° 3' 47.01" W 75° 18' 58.62"	H	Database	NO	1.321	Enabled	27.2 %	28.3 %
7	SAX	N 41° 4' 3.16" W 74° 32' 17.93"	H + ESV	User	NO	0.953	Enabled	31.3 %	29.6 %
8	PWL	N 41° 46' 11.18" W 73° 36' 1.99"	L	Database	NO	0.831	Enabled	24.2 %	24.2 %
9	IGN	N 41° 39' 55.61" W 73° 49' 20.00"	L	Database	NO	0.610	Enabled	17.7 %	15.6 %
10	JFK	N 40° 37' 58.40" W 73° 46' 17.00"	H	Database	NO	0.610	Enabled	2.2 %	2.3 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	CAM	PLB	GFL	HUO	ALB	
28.2	CAM	HNK	GFL	HUO	ALB	SAX
38.3	CAM	HNK	SAX	HUO	ALB	
50.5	JFK	HNK	PWL	IGN	ALB	HUO
60.7	JFK	HNK	PWL	HUO	SAX	IGN
71.5	SAX	IGN	PWL	HUO		
84.4	SAX	IGN	PWL	HUO		

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 43° 10' 27.79" W 73° 37' 22.05"	N 43° 9' 45.77" W 73° 37' 39.93"	0.7
	VOR: ALB	Available from N 43° 10' 27.79" W 73° 37' 22.05" to N 43° 9' 45.77" W 73° 37' 39.93"	
	VOR: CAM	Available from N 43° 10' 27.79" W 73° 37' 22.05" to N 43° 9' 45.77" W 73° 37' 39.93"	
	VOR: GFL	Available from N 43° 10' 27.79" W 73° 37' 22.05" to N 43° 9' 45.77" W 73° 37' 39.93"	
	VOR: RUT	Available from N 43° 10' 27.79" W 73° 37' 22.05" to N 43° 9' 45.77" W 73° 37' 39.93"	
2	N 42° 42' 8.17" W 73° 49' 23.82"	N 42° 41' 45.39" W 73° 49' 34.08"	0.4
	VOR: ALB	Available from N 42° 42' 8.17" W 73° 49' 23.82" to N 42° 41' 45.39" W 73° 49' 34.08"	
	VOR: CAM	Available from N 42° 42' 8.17" W 73° 49' 23.82" to N 42° 41' 45.39" W 73° 49' 34.08"	
	VOR: GFL	Available from N 42° 42' 8.17" W 73° 49' 23.82" to N 42° 41' 45.39" W 73° 49' 34.08"	
3	N 42° 40' 21.84" W 73° 50' 11.65"	N 42° 38' 54.49" W 73° 50' 50.90"	1.5
	VOR: ALB	Available from N 42° 40' 21.84" W 73° 50' 11.65" to N 42° 38' 54.49" W 73° 50' 50.90"	
	VOR: CAM	Available from N 42° 40' 21.84" W 73° 50' 11.65" to N 42° 38' 54.49" W 73° 50' 50.90"	

User DMEs

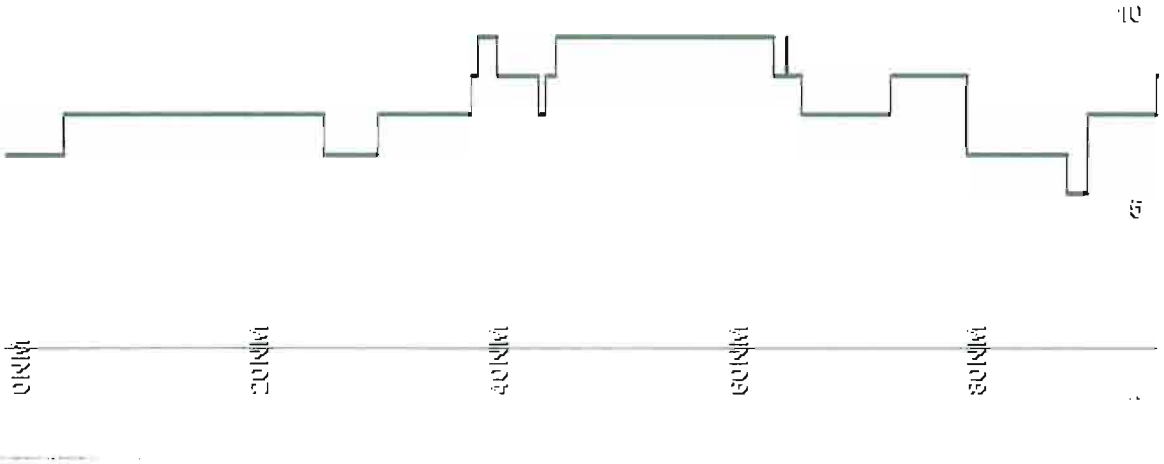
#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	SAX	N 41° 4' 3.16" W 74° 32' 17.93"	H	1399.7	115.70	SAX	Used

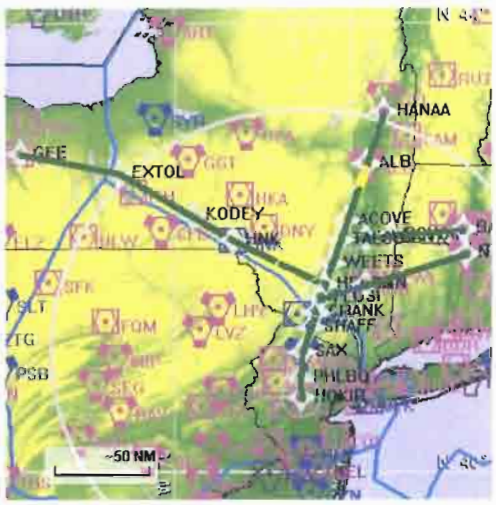
ESV: Bearing [True]: 12.0° to 34.0°
Bearing [Mag]: 23.0° to 45.0°
Arc Distance: Out to 78.0 NM
Altitude: 6500.0 to 19000.0 Ft.

Radar Analysis

Return To Summary

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





Name:	DAVE COOK
Project Name:	KEWR FLOSI2 STAR ALL TRANSITIONS HOKIR 20111114
Software:	RNAV-Pro™
Version:	2.35l
Date/Time:	11/14/2011 11:27:14 AM
Input File:	KEWR FLOSI2 STAR BAF...
Databases:	AVNIS Date: 08/26/2011
	NFD Date: 07/02/2009
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✓
DME/DME	✓
Radars	✓
Comms	
TERPS	

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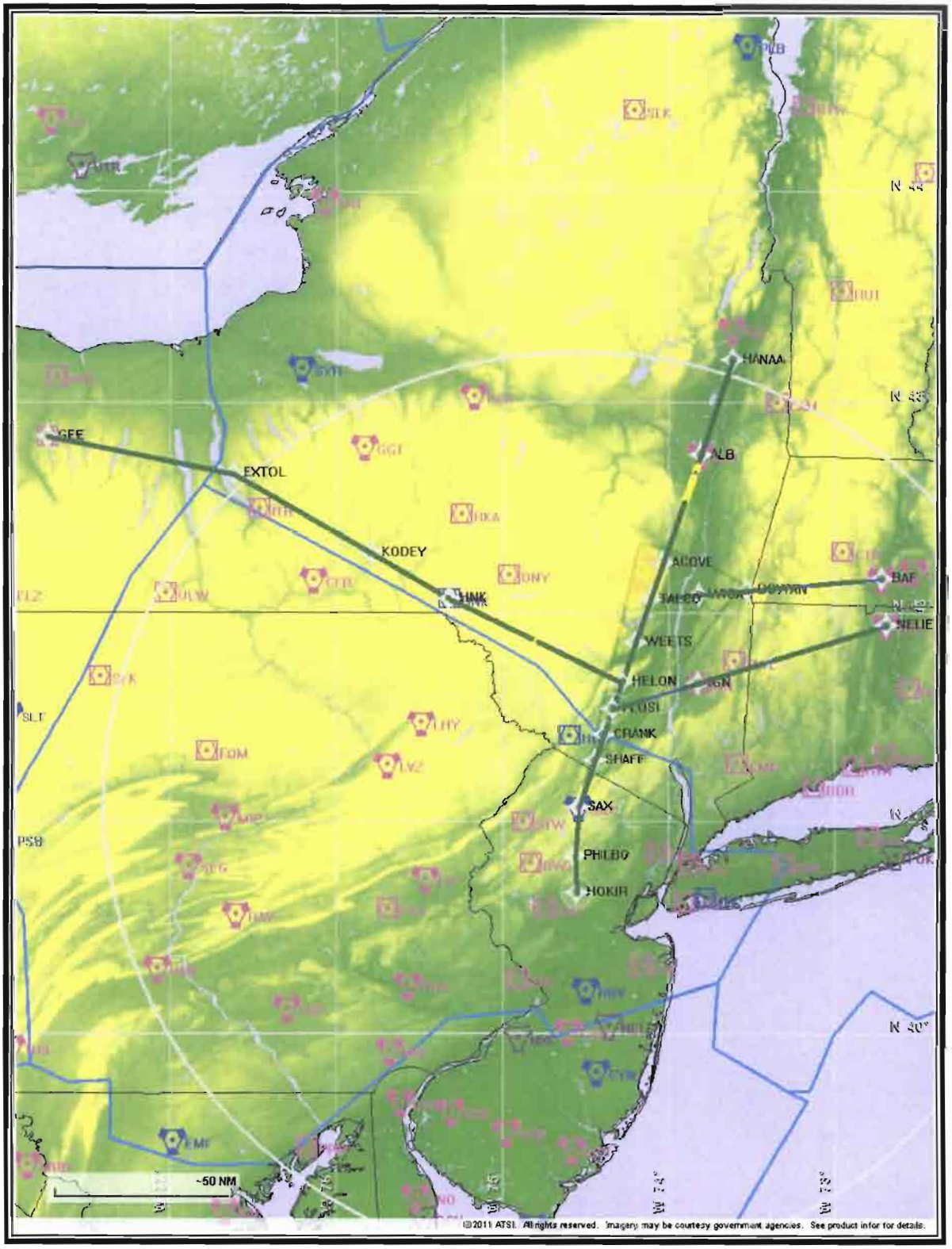
HANAA
ALB
GEE
EXTOL
KODEY
HNK
ACOVE
BAF
NELIE
WEETS
HELON
FLOSI
CRANK
SHAFF
SAX
PHLBG
HOKIR
~50 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
BAF	WP	N 42° 9' 43.06" W 72° 42' 58.31"	14000.0	Step	265.0	Fly By	TF
BOWAN	WP	N 42° 6' 23.14" W 73° 31' 28.95"	14000.0	Step	265.0	Fly By	TF
WIGAN	WP	N 42° 5' 6.33" W 73° 48' 53.89"	14000.0	Step	265.0	Fly By	TF
TALCO	WP	N 42° 3' 45.97" W 74° 6' 27.85"	14000.0	Step	265.0	Fly By	TF
WEETS	WP	N 41° 51' 27.07" W 74° 11' 51.58"	8000.0	Step	250.0	Fly By	TF
HELON	WP	N 41° 40' 2.72" W 74° 16' 49.52"	8000.0	Step	250.0	Fly Over	TF

Flyability

Return To Summary

Settings:

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

Table:

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

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

Entire track is fly-able

DME/DME

Return To Summary

Settings:

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

Total Number of DMEs Used: 8

Maximum DME Error: 0.532 NM

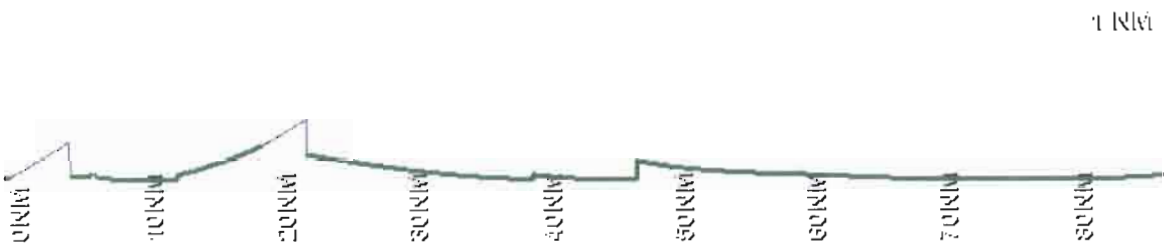
No Critical DMEs were found.

Available DMEs: CTR, GDM, HFD, BAF, PWL, IGN, SAX, HUO

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

DME/DME (Continued.)

Return To Summary



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	CTR	N 42° 17' 28.75" W 72° 56' 57.82"	L	Database	NO	0.605	Enabled	20.3 %	21.1 %
2	GDM	N 42° 32' 45.42" W 72° 3' 29.48"	L	Database	NO	0.722	Enabled	0.6 %	0.5 %
3	BAF	N 42° 9' 43.06" W 72° 42' 58.31"	L	Database	NO	0.920	Enabled	31.5 %	32.8 %
4	HFD	N 41° 38' 27.98" W 72° 32' 50.70"	L	Database	NO	0.532	Enabled	4.4 %	4.6 %
5	PWL	N 41° 46' 11.18" W 73° 36' 1.99"	L	Database	NO	0.614	Enabled	60.0 %	61.4 %
6	SAX	N 41° 4' 3.16" W 74° 32' 17.93"	H + ESV	User	NO	0.962	Enabled	41.6 %	40.1 %
7	HUO	N 41° 24' 34.87" W 74° 35' 29.74"	H	Database	NO	0.532	Enabled	5.9 %	5.2 %
8	IGN	N 41° 39' 55.61" W 73° 49' 20.00"	L	Database	NO	0.532	Enabled	17.6 %	15.2 %

Flight Check DME Selection

Distance [NM]	Selected DMEs				Alternate
0.0	CTR	PWL	HFD	BAF	GDM
24.5	CTR	PWL	IGN	BAF	
36.2	CTR	PWL	IGN	BAF	SAX
49.3	SAX	PWL	IGN		
60.9	SAX	PWL	IGN	HUO	
75.1	SAX	PWL	IGN	HUO	

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 42° 9' 40.26" W 72° 43' 41.35"	N 42° 9' 17.13" W 72° 49' 35.08"	4.4
	VOR: BAF	Available from N 42° 9' 40.26" W 72° 43' 41.35" to N 42° 9' 17.13" W 72° 49' 35.08"	
	VOR: BDL	Available from N 42° 9' 40.26" W 72° 43' 41.35" to N 42° 9' 17.13" W 72° 49' 35.08"	
	VOR: CEF	Available from N 42° 9' 40.26" W 72° 43' 41.35" to N 42° 9' 17.13" W 72° 49' 35.08"	
	VOR: CTR	Available from N 42° 9' 40.26" W 72° 43' 41.35" to N 42° 9' 17.13" W 72° 49' 35.08"	
	VOR: GDM	Available from N 42° 9' 40.26" W 72° 43' 41.35" to N 42° 9' 26.28" W 72° 47' 15.80"	
	VOR: HFD	Available from N 42° 9' 40.26" W 72° 43' 41.35" to N 42° 9' 17.13" W 72° 49' 35.08"	

DME/DME (Continued.)

Return To Summary

Inertial Drift Segments (Continued.)

#	Start Location	End Location	Length [NM]
2	N 42° 9' 8.28" W 72° 51' 48.87"	N 42° 9' 6.50" W 72° 52' 15.65"	0.3
	VOR: BAF	Available from N 42° 9' 8.28" W 72° 51' 48.87" to N 42° 9' 6.50" W 72° 52' 15.65"	
	VOR: BDL	Available from N 42° 9' 8.28" W 72° 51' 48.87" to N 42° 9' 6.50" W 72° 52' 15.65"	
	VOR: CEF	Available from N 42° 9' 8.28" W 72° 51' 48.87" to N 42° 9' 6.50" W 72° 52' 15.65"	
	VOR: CTR	Available from N 42° 9' 8.28" W 72° 51' 48.87" to N 42° 9' 6.50" W 72° 52' 15.65"	
	VOR: HFD	Available from N 42° 9' 8.28" W 72° 51' 48.87" to N 42° 9' 6.50" W 72° 52' 15.65"	
	VOR: PWL	Available from N 42° 9' 6.86" W 72° 52' 10.29" to N 42° 9' 6.50" W 72° 52' 15.65"	
3	N 42° 7' 58.70" W 73° 8' 56.98"	N 42° 7' 40.14" W 73° 13' 24.75"	3.3
	VOR: BAF	Available from N 42° 7' 58.70" W 73° 8' 56.98" to N 42° 7' 40.14" W 73° 13' 24.75"	
	VOR: BDL	Available from N 42° 7' 58.70" W 73° 8' 56.98" to N 42° 7' 40.14" W 73° 13' 24.75"	
	VOR: CEF	Available from N 42° 7' 58.70" W 73° 8' 56.98" to N 42° 7' 40.14" W 73° 13' 24.75"	
	VOR: CTR	Available from N 42° 7' 58.70" W 73° 8' 56.98" to N 42° 7' 40.14" W 73° 13' 24.75"	
	VOR: HFD	Available from N 42° 7' 58.70" W 73° 8' 56.98" to N 42° 7' 58.70" W 73° 8' 56.98"	
	VOR: PWL	Available from N 42° 7' 58.70" W 73° 8' 56.98" to N 42° 7' 40.14" W 73° 13' 24.75"	
	VOR: IGN	Available from N 42° 7' 50.18" W 73° 11' 0.23" to N 42° 7' 40.14" W 73° 13' 24.75"	

DME/DME (Continued.)

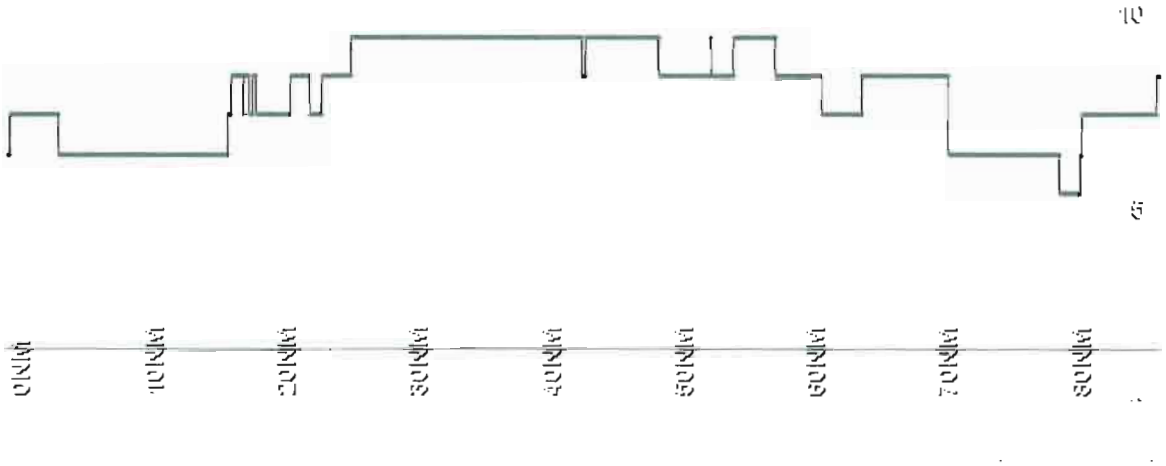
Return To Summary

User DMEs

#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	SAX	N 41° 4' 3.16" W 74° 32' 17.93"	H	1399.7	115.70	SAX	Used

ESV: Bearing [True]: 12.0° to 34.0°
Bearing [Mag]: 23.0° to 45.0°
Arc Distance: Out to 78.0 NM
Altitude: 6500.0 to 19000.0 Ft.

Radar Analysis

Return To Summary

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