US Federal Aviation Administration
Department of Transportation

STAR - Standard Terminal Arrival

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

(1) Transition Routes

(a) Transition Name	(b) Transition Computer Codes	(c) From RNAV WP / FIX / NAVAID	(d) To RNAV WP / FIX / NAVAID	(e) Mag Course / Distance	(f) MEA	(g) MOCA	(h) MAA	(i) Crossing Altitudes / Fixes
ALBANY	ALB.SHAFF7	ALB VORTAC	ACOVE INT	211.35 / 32.37 (ALB R-211)	10000			
		ACOVE INT	TALCO INT	211.35 / 10.86 (ALB R-211)	10000			
		TALCO INT	WEETS INT	211.35 / 12.95 (ALB R-211)	10000			
		WEETS INT	HELON INT	208.86 / 11.99 (SAX R-029)	8000			
		HELON INT	FLOSI INT	208.86 / 07.81 (SAX R-029)	6000			
BARNES	BAF.SHAFF7	BAF VORTAC	BOWAN INT	279.00 / 36.25 (BAF R-279)	10000			
		BOWAN INT	WIGAN INT	279.00 / 13.03 (BAF R-279)	10000			
		WIGAN INT	TALCO INT	279.00 / 13.15 (BAF R-279)	10000			
		TALCO INT	WEETS INT	211.35/ 12.95 (ALB R-211)	10000			
		WEETS INT	HELON INT	208.86 / 11.99 (SAX R-029)	8000			
		HELON INT	FLOSI INT	208.86 / 07.81 (SAX R-029))	6000			
GENESEO	GEE.SHAFF7	GEE VOR/DME	EXTOL INT	110.76 / 50.39 (GEE R-111)	11000			
		EXTOL INT	KODEY INT	133.06 / 43.41 (HNK R-313)	6000			
		KODEY INT	HNK VOR/DME	133.06 / 24.60 (HNK R-313)	6000			
		HNK VOR/DME	HELON INT	127.72 / 52.15 (HNK R128)	6000			
		HELON INT	FLOSI INT	208.86 / 07.81 (SAX R-029)	6000			
HANCOCK	HNK.SHAFF7	HNK VOR/DME	HELON INT	127.72 / 52.15 (HNK R-128)	6000			
		HELON INT	FLOSI INT	208.86 / 07.81 (SAX R-029)	6000			
KINGSTON	IGN.SHAFF7	IGN VOR/DME	FLOSI INT	264.56 / 24.17 (IGN R-265)	6000			

(2) Arrival Route Description: FROM OVER FLOSI INT ON SAX R-029 TO CRANK INT, THEN TO SHAFF INT, THEN TO SAX VORTAC (MEA 4,000). EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

(3) Procedural Data Notes:
CHART NOTE: RADAR REQUIRED.
CHART NOTE: STAR APPLICABLE TO TURBOJET AND NON-TURBOJET AIRCRAFT CAPABLE OF 250 KIAS.
CHART NOTE: NORTH ATLANTIC ARRIVALS VIA BOS FILE BAF TRANSITION. DOMESTIC ARRIVALS FROM THE EAST FILE IGN TRANSITION.
CHART NOTE: USE CAUTION: PARACHUTE OPERATIONS 4NM RADIUS OF 5NY5 AT OR BELOW 14,500 MSL.
CHART NOTE: USE CAUTION: GLIDER ACTIVITY BETWEEN FLOSI AND SHAFF INTERSECTIONS.
CHART NOTE: EXPECT TO CROSS 10 NM EAST OF BAF AT OR BELOW 16,000.
CHART NOTE: EXPECT TO CROSS HNK AT OR BELOW LOWEST USEABLE FLIGHT LEVEL.
CHART NOTE: EXPECT TO CROSS CRANK INT AT 7,000.

(4) Fixes and/or Holding Patterns: CHART HOLDING: KODEY INT ON HNK R-313 (HOLD W, LT, 133.06 INBOUND, 10 NM LEGS); HANAA WP (HOLD NE, RT, 210.30 INBOUND, 10 NM LEGS); ACOVE INT ON ALB R211 (HOLD NE, RT, 211.35 INBOUND, 10 NM LEGS); HELON INT ON SAX R-029 (HOLD NE, RT, 208.86 INBOUND, 10 NM LEGS); SHAFF INT ON SAX R-029 (HOLD NE, LT, 208.86 INBOUND, 10 NM LEGS).

QUALITY 1 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
SHAFF	SEVEN	SHAFF.SHAFF7	SIX	MARCH 12, 2009	

(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:
REFERENCE MAGNETIC VARIATION = ALB-13/1980; BAF-14/1980; DNY-11/1970; GEE-9/1965; HNK-11/1975; HUO-11/1970; IGN-12/1975; PWL-12/1970; RKA-11/1965; ROC-12/1965; SAX-11/1975; SYR-11/1980

(15) Additional Flight Data:
CHART: SYR R-222 AT EXTOL; RKA R-256 AT KODEY; DNY R-096 AT ACOVE; DNY R-107 AT WIGAN; DNY R-130 AT WEETS; ALB R-175 AT BOWAN; ALB R-194 AT WIGAN; PWL R-293 AT WEETS; PWL R-320 AT TALCO; IGN R-282 AT HELON; HUO R-098 AT CRANK; HUO R-148 AT SHAFF; 5NY5 ARPT.

(6) Arrival Name	(7) Number	(8) STAR Computer Code	(9) Superseded Nr.	(10) Dated	(11) Effective Date
SHAFF	SEVEN	SHAFF.SHAFF7	SIX	MARCH 12, 2009	

(16) Continuation:

(17) Changes:

1) REPLACED BRADLEY TRANSTION WITH KINGSTON TRANSITION.
2) ADDED NOTE: RADAR REQUIRED.
3) CHANGED NOTE, THIS STAR APPLICABLE TO TURBOJET... TO STAR APPLICABLE TO TURBOJET AND NON-TURBOJET AIRCRAFT CAPABLE OF 250 KIAS.
4) DELETED NOTE, AIRCRAFT ARRIVING FROM POINTS EAST FILE BDL TRANSITION, BAF TRANSITION TO BE ASSIGNED BY ATC.
5) ADDED NOTE: NORTH ATLANTIC ARRIVALS VIA BOS FILE BAF TRANSITION. DOMESTIC ARRIVALS FROM THE EAST FILE IGN TRANSITION.
6) ADDED NOTE USE CAUTION: PARACHUTE OPERATIONS 4NM RADIUS OF 5NY5 AT OR BELOW 14,500.
7) CHANGED GLIDER ACTIVITY NOTE FROM, ...HELON AND CRANK... TO ...FLOSI AND SHAFF....
8) CHANGED NOTE, EXPECT TO CROSS HNK... TO EXPECT TO CROSS HNK AT OR BELOW LOWEST USEABLE FLIGHT LEVEL.
9) ADDED CHART NOTE: CROSS CRANK INT AT 7,000.
10) DELETED ALL MOCA VALUES.
11) CHARTED HANAA WP AND HOLDING.
12) CHANGED ALL HOLDING PATTERNS TO 10 NM LEG LENGTH.

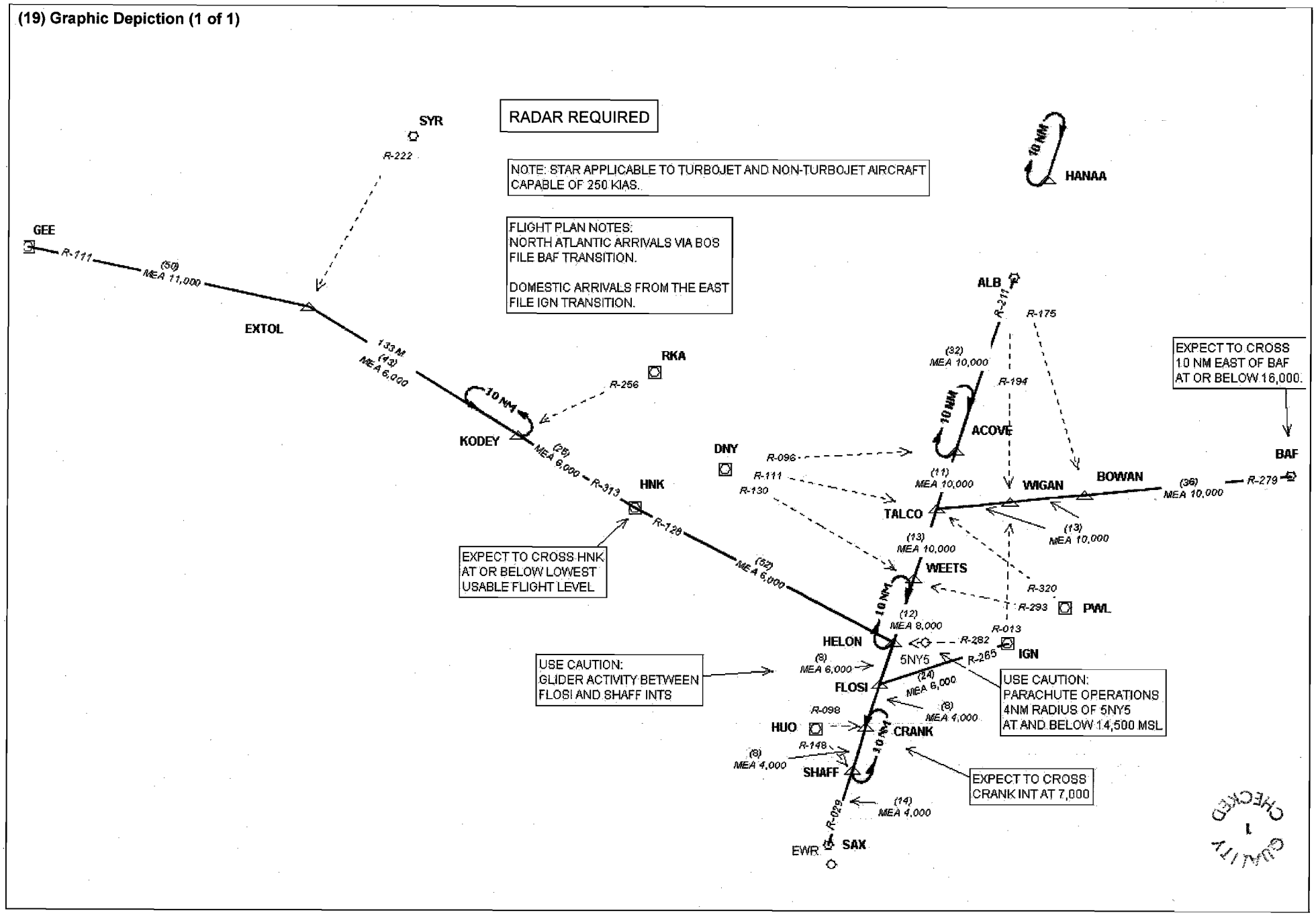
(18) Reasons for Changes:

1) BDL VOR DECOMMISSIONED.
2) STAR ENDS WITH EXPECT RADAR VECTORS.
3) ATC REQUEST.
4) ATC REQUEST.
5) ATC REQUEST.
6) ATC REQUEST.
7) ATC REQUEST.
8) ATC REQUEST.
9) ATC REQUEST.
10) ATC REQUEST.
11) ATC REQUEST.
12) ATC REQUEST.

	Name *(Typed and Signed)*, Title and Organization	DATE
Developed By	SCOTT LAMBERT BOSTON ARTCC AIRSPACE AND PROCEDURES OFFICE	NOVEMBER 28, 2011
Approved **FIFO**		QUALITY CHECKED
Reg. ATD		

(5) Arrival Name	(6) NUMBER	(7) STAR Computer Code	(8) Superseded Nr.	(9) Dated	(10) Effective Date
SHAFF	SEVEN	SHAFF.SHAFF7	SIX	MARCH 12, 2009	

(19) Graphic Depiction (1 of 1)



US Department of Transportation
Federal Aviation Administration

STAR (Data Record)

ARINC PACKET - 424-18 - STAR

```
                1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAD        ALB   K6011530VTL  N42445021W073481146    N42445021W073481146W0130002741     NARALBANY
        SUSAD        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   HELON K60    C   L N41400272W074164952                    W0132     NAR          HELON
        SUSAEAENRT   KODEY K60    C   H N42164753W075470400                    W0125     NAR          KODEY
        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 KEWRK6ESHAFF71ALB   010ALB  K6D 0V       IF                                                  18000
        SUSAP KEWRK6ESHAFF71ALB   020ACOVEK6EA0E  H    TF                    21140324
        SUSAP KEWRK6ESHAFF71ALB   030TALCOK6EA0E       TF                    21140109
        SUSAP KEWRK6ESHAFF71ALB   040WEETSK6EA0E       TF                    21140130
        SUSAP KEWRK6ESHAFF71ALB   050HELONK6EA0E  H    TF                    20890120
        SUSAP KEWRK6ESHAFF71ALB   060FLOSIK6EA0EE      TF                    20890078
        SUSAP KEWRK6ESHAFF71BAF   010BAF  K6D 0V       IF                                                  18000
```

QUALITY CHECKED 1

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
SHAFF	SEVEN	SHAFF.SHAFF7	SIX	MARCH 12, 2009	

FAA Form 7100-3 (9/02)

```
SUSAP KEWRK6ESHAFF71BAF   020BOWANK6EA0E       TF                  27900363
SUSAP KEWRK6ESHAFF71BAF   030WIGANK6EA0E       TF                  27900130
SUSAP KEWRK6ESHAFF71BAF   040TALCOK6EA0E       TF                  27900132
SUSAP KEWRK6ESHAFF71BAF   050WEETSK6EA0E       TF                  21140130
SUSAP KEWRK6ESHAFF71BAF   060HELONK6EA0E  H    TF                  20890120
SUSAP KEWRK6ESHAFF71BAF   070FLOSIK6EA0EE      TF                  20890078
SUSAP KEWRK6ESHAFF71GEE   010GEE  K6D 0V       IF                                      18000
SUSAP KEWRK6ESHAFF71GEE   020EXTOLK6EA0E       TF                  11080504
SUSAP KEWRK6ESHAFF71GEE   030KODEYK6EA0E  H    TF                  13310434
SUSAP KEWRK6ESHAFF71GEE   040HNK  K6D 0V       TF                  13310246
SUSAP KEWRK6ESHAFF71GEE   050HELONK6EA0E  H    TF                  12770522
SUSAP KEWRK6ESHAFF71GEE   060FLOSIK6EA0EE      TF                  20890078
SUSAP KEWRK6ESHAFF71HNK   010HNK  K6D 0V       IF                                      18000
SUSAP KEWRK6ESHAFF71HNK   020HELONK6EA0E  H    TF                  12770522
SUSAP KEWRK6ESHAFF71HNK   030FLOSIK6EA0EE      TF                  20890078
SUSAP KEWRK6ESHAFF71IGN   010IGN  K6D 0V       IF                                      18000
SUSAP KEWRK6ESHAFF71IGN   020FLOSIK6EA0EE      TF                  26460242
SUSAP KEWRK6ESHAFF72ALL   010FLOSIK6EA0E       IF                                      18000
SUSAP KEWRK6ESHAFF72ALL   020CRANKK6EA0E       TF                  2090
SUSAP KEWRK6ESHAFF72ALL   030SHAFFK6EA0E  H    TF                  2090
SUSAP KEWRK6ESHAFF72ALL   040SAX  K6D 0VE      TF                  2090

                1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
SUSAP KEWRK6GRW04L   0110000388 N40405396W074103166+0000    -00293000102540521501IEWR1
SUSAP KEWRK6GRW04R   0100000388 N40404989W074102055+0000    -00291000111190551501IEZA3
SUSAP KEWRK6GRW11    0068001080 N40421010W074105055-0100    -00270000180000571501IGPR1
SUSAP KEWRK6GRW22L   0100002188 N40415230W074094087+0000    -00292000101793401501ILSQ1
SUSAP KEWRK6GRW22R   0110002188 N40415640W074095197+0000    -00293000101440461501IJNN1
SUSAP KEWRK6GRW29    0068002880 N40420451W074092645+0100    -0029400010029860150R
```

QUALITY CHECKED

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
SHAFF	SEVEN	SHAFF.SHAFF7	SIX	MARCH 12, 2009	

US Department of Transportation
Federal Aviation Administration

STAR (Data Record)

ARINC SUMMARY - 424-18 - STAR

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	ALB	ALB	010		IF		FB					
	ALB	ACOVE	020		TF		FB		211.4()	032.4		
	ALB	TALCO	030		TF		FB		211.4()	010.9		
	ALB	WEETS	040		TF		FB		211.4()	013.0		
	ALB	HELON	050		TF		FB		208.9()	012.0		
	ALB	FLOSI	060		TF		FB		208.9()	007.8		
	BAF	BAF	010		IF		FB					
	BAF	BOWAN	020		TF		FB		279.0()	036.3		
	BAF	WIGAN	030		TF		FB		279.0()	013.0		
	BAF	TALCO	040		TF		FB		279.0()	013.2		
	BAF	WEETS	050		TF		FB		211.4()	013.0		
	BAF	HELON	060		TF		FB		208.9()	012.0		
	BAF	FLOSI	070		TF		FB		208.9()	007.8		
	GEE	GEE	010		IF		FB					
	GEE	EXTOL	020		TF		FB		110.8()	050.4		
	GEE	KODEY	030		TF		FB		133.1()	043.4		
	GEE	HNK	040		TF		FB		133.1()	024.6		
	GEE	HELON	050		TF		FB		127.7()	052.2		
	GEE	FLOSI	060		TF		FB		208.9()	007.8		
	HNK	HNK	010		IF		FB					
	HNK	HELON	020		TF		FB		127.7()	052.2		
	HNK	FLOSI	030		TF		FB		208.9()	007.8		
	IGN	IGN	010		IF		FB					
	IGN	FLOSI	020		TF		FB		264.6()	024.2		
	ALL	FLOSI	010		IF		FB					
	ALL	CRANK	020		TF		FB		209.0()			
	ALL	SHAFF	030		TF		FB		209.0()			
	ALL	SAX	040		TF		FB		209.0()			

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
	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

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
SHAFF	SEVEN	SHAFF.SHAFF7	SIX	MARCH 12, 2009	

FAA Form 7100-3 (9/02)

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
HELON	N414002.72	W0741649.52	N4140.045	W07416.825
KODEY	N421647.53	W0754704.00	N4216.792	W07547.067
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 CHECKED

(11) Arrival Name	(12) Number	(13) STAR Computer Code	(14) Superseded Nr.	(15) Dated	(16) Effective Date
SHAFF	SEVEN	SHAFF.SHAFF7	SIX	MARCH 12, 2009	

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:

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

QUALITY CHECKED

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:

QUALITY CHECKED

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	BINGHAMTON	CFB	VORTAC	L	129.19	119.19	90.15	90.15		10000	17500
2	HUGUENOT	HUO	VOR/DME	H	098.34	087.34		9.16		4000	17500
3	SPARTA	SAX	VORTAC	H	028.86	017.86	22.00	22.00		4000	17500

EXPANDED SERVICE VOLUME (ESV):

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

REMARKS:
SPARTA (FAC 3) AND BINGHAMTON (FAC 1) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V123	2, 3				(US)
EN ROUTE	V249	2, 3				(US)
EN ROUTE	V374	1, 2, 3				(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	2, 3		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:** 12/07/2011 **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

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:

QUALITY CHECKED

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:

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: 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: 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	DIST FROM 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.

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

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:

QUALITY CHECKED

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