| Flight Procedure Tracking Form | Action: FLIGHT CHECK | Task Type: STAR | Date Open: 12/02/2011 | Task #: 2011120227943301001 | Request #: 20111202279433 |
|---|---|---|---|---|---|
| Procedure: STAR VALRE FOUR WHITE PLAINS NY KHPN | | Airport ID: KHPN | Airport: WESTCHESTER COUNTY | | Reimbursable #: |
| City: WHITE PLAINS | ST: NY | GPS #: | | Estimated Chart Date: 05/31/2012 | FICO #: 1080513 |
| Fac ID: | Fac. Type: Proc TR | Specialist: KELLY DEAN | | | |

## Procedure Review

P1

| | Rec'd | Rel'd | Full Name | Comments |
|---|---|---|---|---|
| Lead: | 12/08/2011 | 01/26/2012 | DONALD SMITH | |
| QA: | 01/26/2012 | 01/27/2012 | STEVEN SZUKALA | |
| Liaison: | 01/27/2012 | | Terrell | RESUBMIT 8260-2 WIGAN 2/9/12 |

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

pics 1 of 1

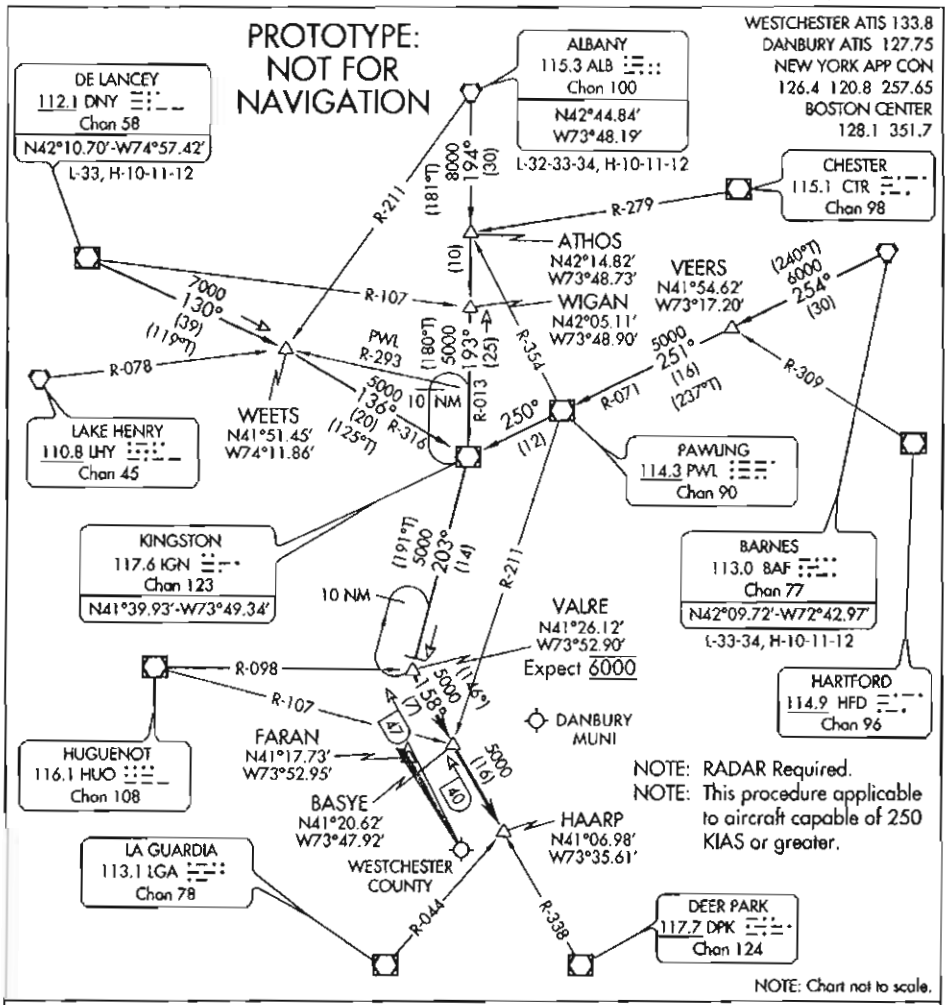
WHITE PLAINS, NY WESTCHESTER COUNTY (KHPN) VALRE FOUR (STAR) ENROUTE-YES FC: 4.3.12 PUB: 5.31.12

ATTACHED FORMS: ESV REPORTS; 7100-4; 7100-3; 8260-2(S): CHESTER (CTR) VDME, REV 13; HUGUENOT (HUO) VDME, REV 17; KINGSTON (IGN) VDME, REV 21; VALRE-INT, REV 5; VEERS-INT, REV 6; WIGAN-INT, REV 6; (INFO ONLY) ALBANY (ALB) VTAC, REV 11; ATHOS-INT, REV 11; BARNES (BAF) VTAC, REV 10; BASYE-INT, REV 4; DEER PARK (DPK) VDME, REV 21; DE LANCEY (DNY) VDME, REV 6; FARAN-INT, REV 1; HAARP-INT, REV 5; LAKE HENRY (LHY) VTAC, REV 7; PAWLING (PWL) VDME, REV 13; WEETS-INT, REV 8.
CONTACT: DON SMITH, AJV-352 LEAD, 405.954.1036:

(VALRE.VALRE4) FIG ST-651 (FAA)

# VALRE FOUR ARRIVAL

WHITE PLAINS, NEW YORK




## ARRIVAL ROUTE DESCRIPTION

ALBANY TRANSITION (ALB.VALRE4): From over ALB VORTAC via ALB R-194 to ATHOS INT, then via ALB R-194 to WIGAN INT, then via IGN R-013 to IGN VOR/DME, then via IGN R-203 to VALRE INT. Thence. . . .

BARNES TRANSITION (BAF.VALRE4): From over BAF VORTAC via BAF R-254 to VEERS INT, then via PWL R-071 to PWL VOR/DME, then to IGN VOR/DME, then via IGN R-203 to VALRE INT. Thence. . . .

DE LANCEY TRANSITION (DNY.VALRE4): From over DNY VOR/DME via DNY R-130 to WEETS INT, then via IGN R-316 to IGN VOR/DME, then via IGN R-203 to VALRE INT. Thence. . . .

. . . .from over VALRE INT via DPK R-338 to BASYE INT, then to HAARP INT. Expect radar vector to final approach course prior to HAARP INT.

VALRE FOUR ARRIVAL
WHITE PLAINS, NEW YORK
(VALRE.VALRE4) FIG

## ESV Details

| Originating Office : | Airspace Docket Number : | Request Type : Establish | |
|---|---|---|---|
| **Facility Data** | | | |
| Chart Name : DEER PARK | City : DEER PARK | Ident : DPK | State : NY |
| Type/Class : DME | Frequency : M1211 | Reference No.: 12018521 | |

**Expanded Service Volume Data: (Requesting Officer)**

| ESV ID | Radial 1 | Radial 2 | Distance | Minimum Altitude | Maximum Altitude |
|---|---|---|---|---|---|
| FAA 872071-023 | 338 | 0 | 47 | 40 | 175 |

| Requirement: GRANDFATHERED: SUPPORT VALRE AND HAARP STARS | | |
|---|---|---|
| Signature: dean kelly | Routing Symbol: | Date: 01/13/2012 |

**Expanded Service Volume Data: (FMO)**

| ESV ID | Radial 1 | Radial 2 | Distance | Minimum Altitude | Maximum Altitude | Action Type |
|---|---|---|---|---|---|---|
| FAA 872071-023 | 338 | 0 | 47 | 40 | 175 | APPROVE |

| Requirement/Remarks: GRANDFATHERED: SUPPORT VALRE AND HAARP STARSAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT. | | |
|---|---|---|
| Signature: Cassella Charles | Routing Symbol: | Date: 01/13/2012 |

**Expanded Service Volume Data: (Super FMO)**

| ESV ID | Radial 1 | Radial 2 | Distance | Minimum Altitude | Maximum Altitude | Action Type |
|---|---|---|---|---|---|---|
| FAA 872071-023 | 338 | 0 | 47 | 40 | 175 | APPROVE |

| Requirement/Remarks: GRANDFATHERED: SUPPORT VALRE AND HAARP STARSAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT. | | |
|---|---|---|
| Signature: Hughes Dennis | Routing Symbol: | Date: 01/17/2012 |

**Expanded Service Volume Data: (FIFO)**

| ESV ID | Radial 1 | Radial 2 | Distance | Minimum Altitude | Maximum Altitude | Action Type |
|---|---|---|---|---|---|---|
| FAA 872071-023 | 338 | 0 | | | | |

| Requirement/Remarks: | | |
|---|---|---|
| Signature: | Routing Symbol: | Date: |

## ESV Details

| Originating Office : | Airspace Docket Number : | Request Type : Establish | |
|---|---|---|---|
| **Facility Data** | | | |
| Chart Name : DEER PARK | City : DEER PARK | Ident : DPK | State : NY |
| Type/Class : L-VOR | Frequency : M117.7 | Reference No.: 12018520 | |

**Expanded Service Volume Data: (Requesting Officer)**

| ESV ID | Radial 1 | Radial 2 | Distance | Minimum Altitude | Maximum Altitude |
|---|---|---|---|---|---|
| FAA 872070-035 | 338 | 0 | 47 | 40 | 175 |

| Requirement: GRANDFATHERED: SUPPORT VALRE AND HAARP STARS | | |
|---|---|---|
| Signature: dean kelly | Routing Symbol: | Date: 01/13/2012 |

**Expanded Service Volume Data: (FMO)**

| ESV ID | Radial 1 | Radial 2 | Distance | Minimum Altitude | Maximum Altitude | Action Type |
|---|---|---|---|---|---|---|
| FAA 872070-035 | 338 | 0 | 47 | 40 | 175 | APPROVE |

| Requirement/Remarks: GRANDFATHERED: SUPPORT VALRE AND HAARP STARSAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT. | | |
|---|---|---|
| Signature: Cassella Charles | Routing Symbol: | Date: 01/13/2012 |

**Expanded Service Volume Data: (Super FMO)**

| ESV ID | Radial 1 | Radial 2 | Distance | Minimum Altitude | Maximum Altitude | Action Type |
|---|---|---|---|---|---|---|
| FAA 872070-035 | 338 | 0 | 47 | 40 | 175 | APPROVE |

| Requirement/Remarks: GRANDFATHERED: SUPPORT VALRE AND HAARP STARSAPPROVED. PEND. FLIGHT CHK/INSPECT @ THE REQ. DIST. AND MIN ALT. | | |
|---|---|---|
| Signature: CHRISTEIN THOMAS | Routing Symbol: | Date: 01/17/2012 |

**Expanded Service Volume Data: (FIFO)**

| ESV ID | Radial 1 | Radial 2 | Distance | Minimum Altitude | Maximum Altitude | Action Type |
|---|---|---|---|---|---|---|
| FAA 872070-035 | 338 | 0 | | | | |

| Requirement/Remarks: | | |
|---|---|---|
| Signature: | Routing Symbol: | Date: |

**Federal Aviation Administration**
**US 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 |
|---|---|---|---|---|---|---|---|
| ALBANY | ALB.VALRE4 | ALB VORTAC | ATHOS INT (ALB R194) | 193.76 / 30.00 | 8000 | | |
| | | ATHOS INT | WIGAN INT (ALB R194) | 193.76 / 9.72 | 8000 | | |
| | | WIGAN INT | IGN VOR/DME (IGN R013) | 192.74 / 25.17 | 5000 | | |
| | | IGN VOR/DME | VALRE INT (IGN R203) | 203.01 / 14.06 | 5000 | | |
| BARNES | BAF.VALRE4 | BAF VORTAC | VEERS INT (BAF R254) | 253.58 / 29.64 | 6000 | | |
| | | VEERS INT | PWL VOR/DME (PWL R071) | 250.99 / 16.41 | 5000 | | |
| | | PWL VOR/DME | IGN VOR/DME | 249.94 / 11.76 | 5000 | | |
| | | IGN VOR/DME | VALRE INT (IGN R203) | 203.01 / 14.06 | 5000 | | |
| DELANCEY | DNY.VALRE4 | DNY VOR/DME | WEETS INT (DNY R130) | 130.28 / 39.03 | 7000 | | |
| | | WEETS INT | IGN VOR/DME (IGN R316) | 136.47 / 20.42 | 5000 | | |
| | | IGN VOR/DME | VALRE INT (IGN R203) | 203.01 / 14.06 | 5000 | | |

**(2) Arrival Route Description:** FROM OVER VALRE INT VIA DPK R-338 TO BASYE INT, THEN TO HAARP INT (MEA 5000). EXPECT RADAR VECTOR TO FINAL APPROACH COURSE PRIOR TO HAARP INT.

**(3) Procedural Data Notes:**
A) STAR APPLICABLE TO AIRCRAFT CAPABLE OF 250 KIAS OR GREATER
B) RADAR REQUIRED
C) EXPECT TO CROSS VALRE INT AT 6000

**(4) Fixes and/or Holding Patterns:**
CHART: LHY VORTAC, CTR VOR/DME, HFD VOR/DME, HUO VOR/DME, LGA VOR/DME.
CHART HOLDING: IGN VOR/DME (N, RT, 10 DME LEGS, 192.74 INBOUND), VALRE INT (N, RT, 10 DME LEGS, 203.01 INBOUND)

**(5) Communications:** BOSTON ARTCC 128.1/351.7, NEW YORK APPCH 126.4/120.8/257.65, WESTCHESTER ATIS 133.8, DANBURY ATIS 127.75

QUALITY CHECKED

| (6) Arrival Name | (7) Number | (8) STAR Computer Code | (9) Superseded Nr. | (10) Dated | (11) Effective Date |
|---|---|---|---|---|---|
| VALRE | FOUR | VALRE.VALRE4 | THREE | AUGUST 25, 2011 | |

| (12) Airports Served | |
|---|---|
| Airport Name WESTCHESTER COUNTY | City/State WHITE PLAIN, NY |
| Airport Name DANBURY MUNICIPAL | City/State DANBURY, CT |
| 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; DPK -12/1975; DNY -11/1970; HUO -11/1970; IGN -12/1975; LGA -12/1980; LHY -10/1965; PWL -12/1970; CTR -13/1965; HFD -13/1970.

**(15) Additional Flight Data:**
CHART: LHY R-078 AT WEETS INT; DNY R-107 AT WIGAN INT; HUO R-098 AT VALRE INT; HUO R-107 AT BASYE INT; LGA R-044 AT HAARP INT; CTR R-279 AT ATHOS INT; HFD R-309 AT VEERS INT.
CHART HPN LOCALIZER RWY16; FARAN INT ON HPN LOCALIZER RWY16.

| (6) Arrival Name | (7) Number | (8) STAR Computer Code | (9) Superseded Nr. | (10) Dated | (11) Effective Date |
|---|---|---|---|---|---|
| VALRE | FOUR | VALRE.VALRE4 | THREE | AUGUST 25, 2011 | |

**(16) Continuation:**

**(17) Changes:**
**A) REMOVE BDL TRANSITION.**
**B) MODIFY IGN AND VALRE HOLDING PATTERNS.**
C) DELETED COPS IN ALB AND BAF TRANSITIONS/AND ADDED FIXES ATHOS AND VEERS.
D) CHART FARAN INT AND HPN LOC.
E) UPDATED COMMON ROUTE
F) RAISED/LOWERED MEAS

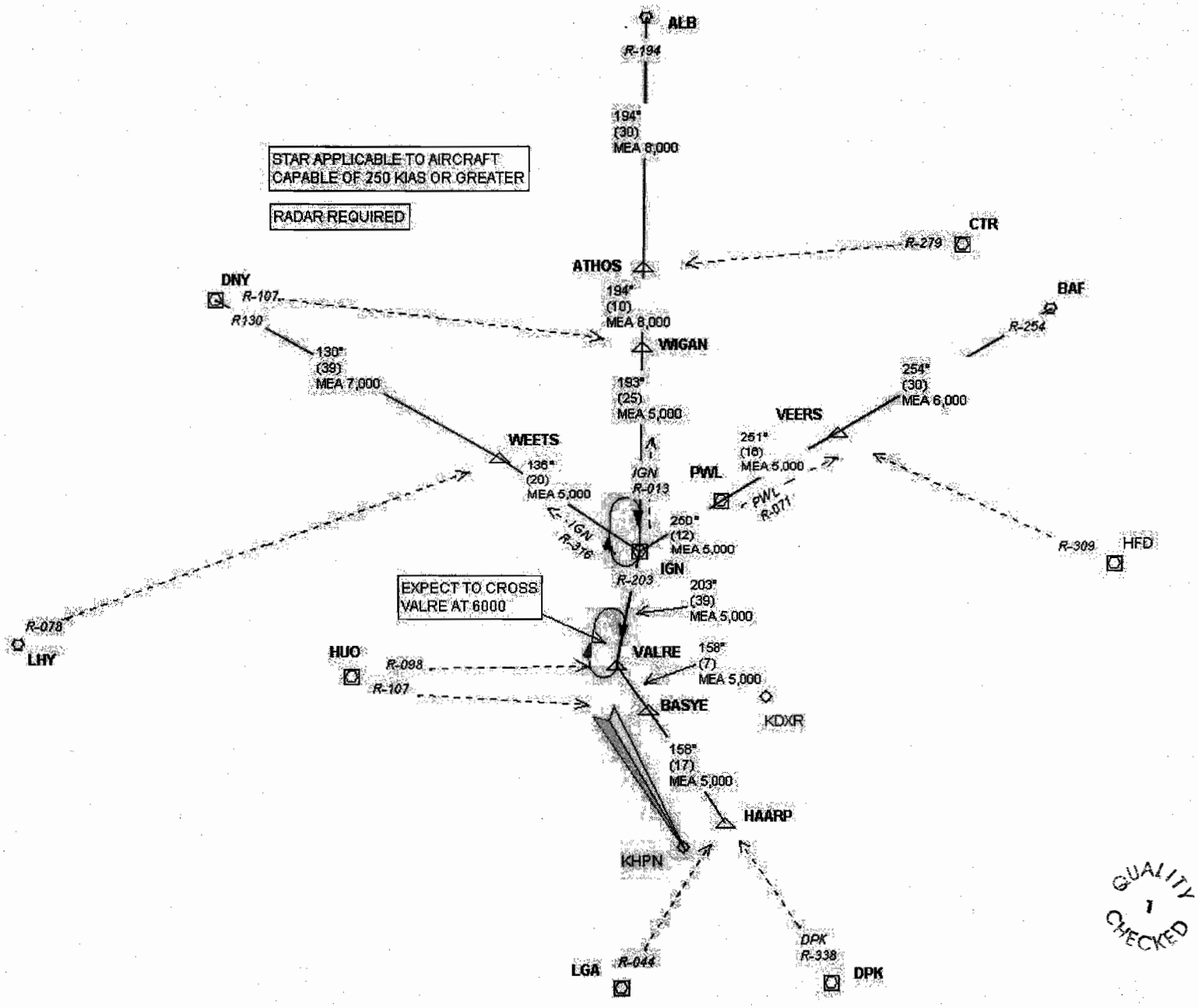
**(18) Reasons for Changes:**
**A) BDL VORTAC DECOMMISSIONING**
B, C, D, E, F) AT OPERATIONAL REQUIREMENTS

| | Name (Typed and Signed), Title and Organization | | DATE |
|---|---|---|---|
| **Developed By** | SCOTT LAMBERT<br>AIRSPACE AND PROC SPEC<br>BOSTON ARTCC | | DECEMBER 5, 2011 |
| **Approved** | **NFPG** | | |
| | **Reg. ATD** | | |

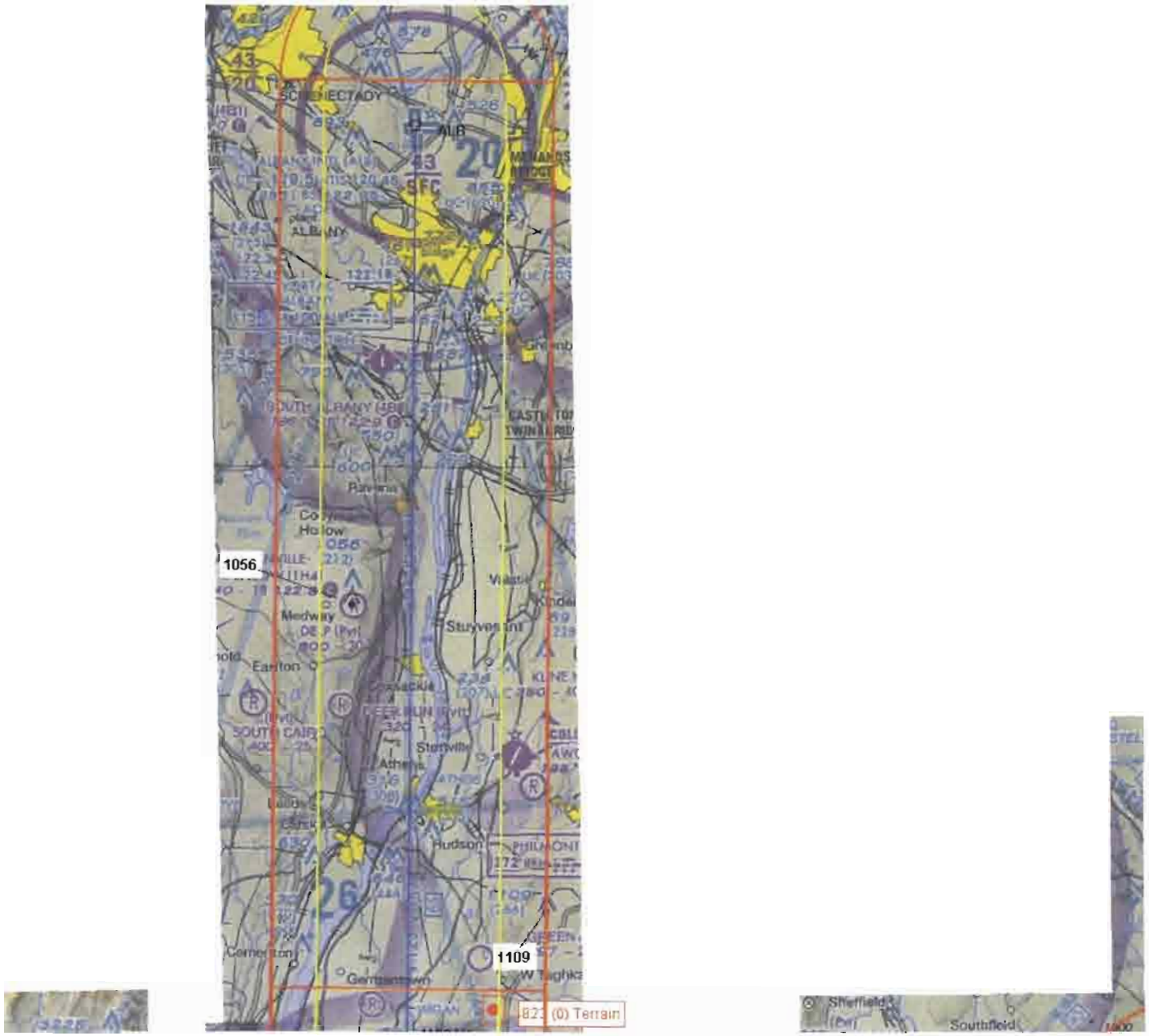
QUALITY CHECKED

| (6) Arrival Name | (7) Number | (8) STAR Computer Code | (9) Superseded Nr. | (10) Dated | (11) Effective Date |
|---|---|---|---|---|---|
| VALRE | FOUR | VALRE.VALRE4 | THREE | AUGUST 25, 2011 | |

**(19) Graphic Depiction**

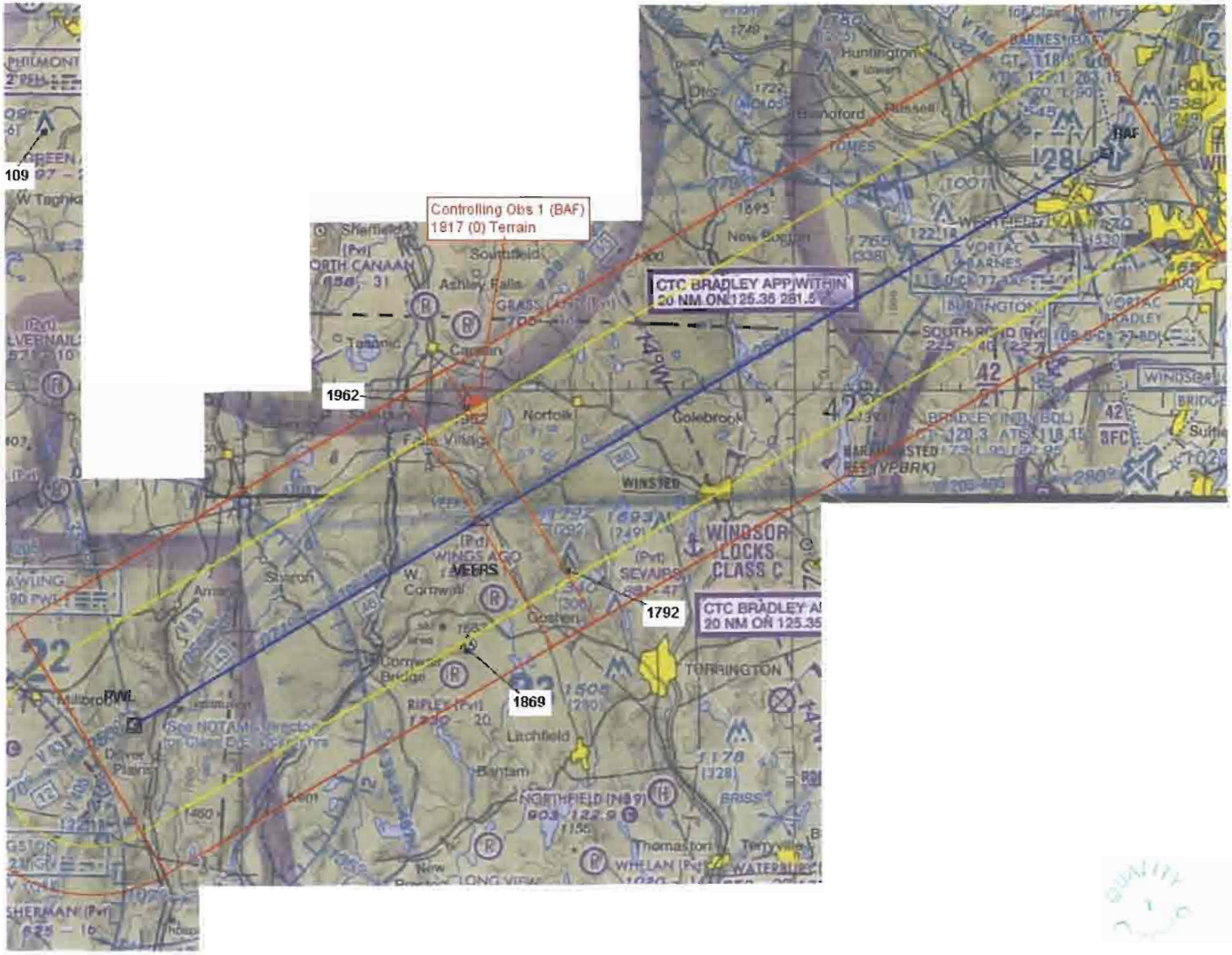


**(19) Graphic Depiction (2 of 6)**

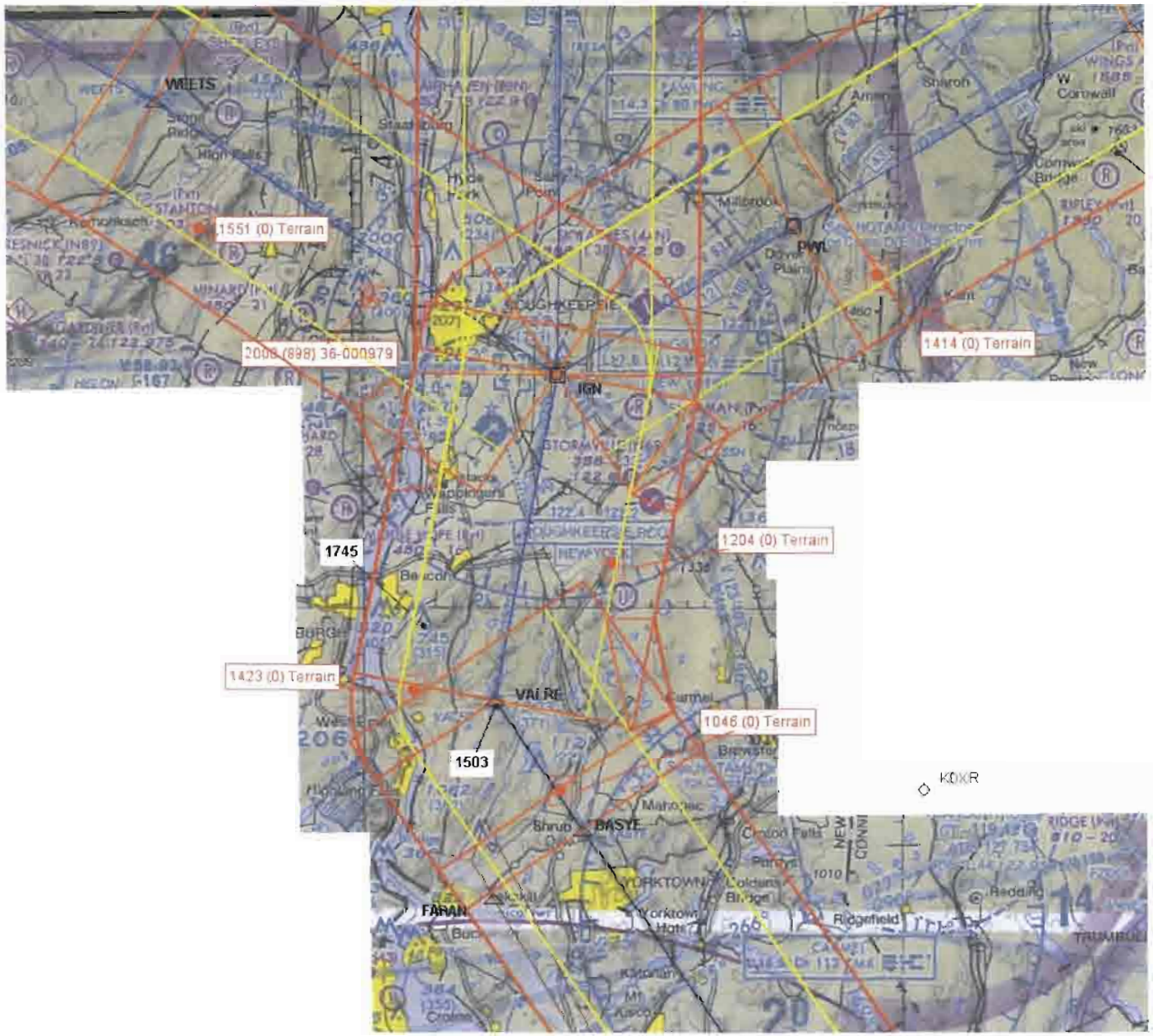


**(19) Graphic Depiction (3 of 6)**

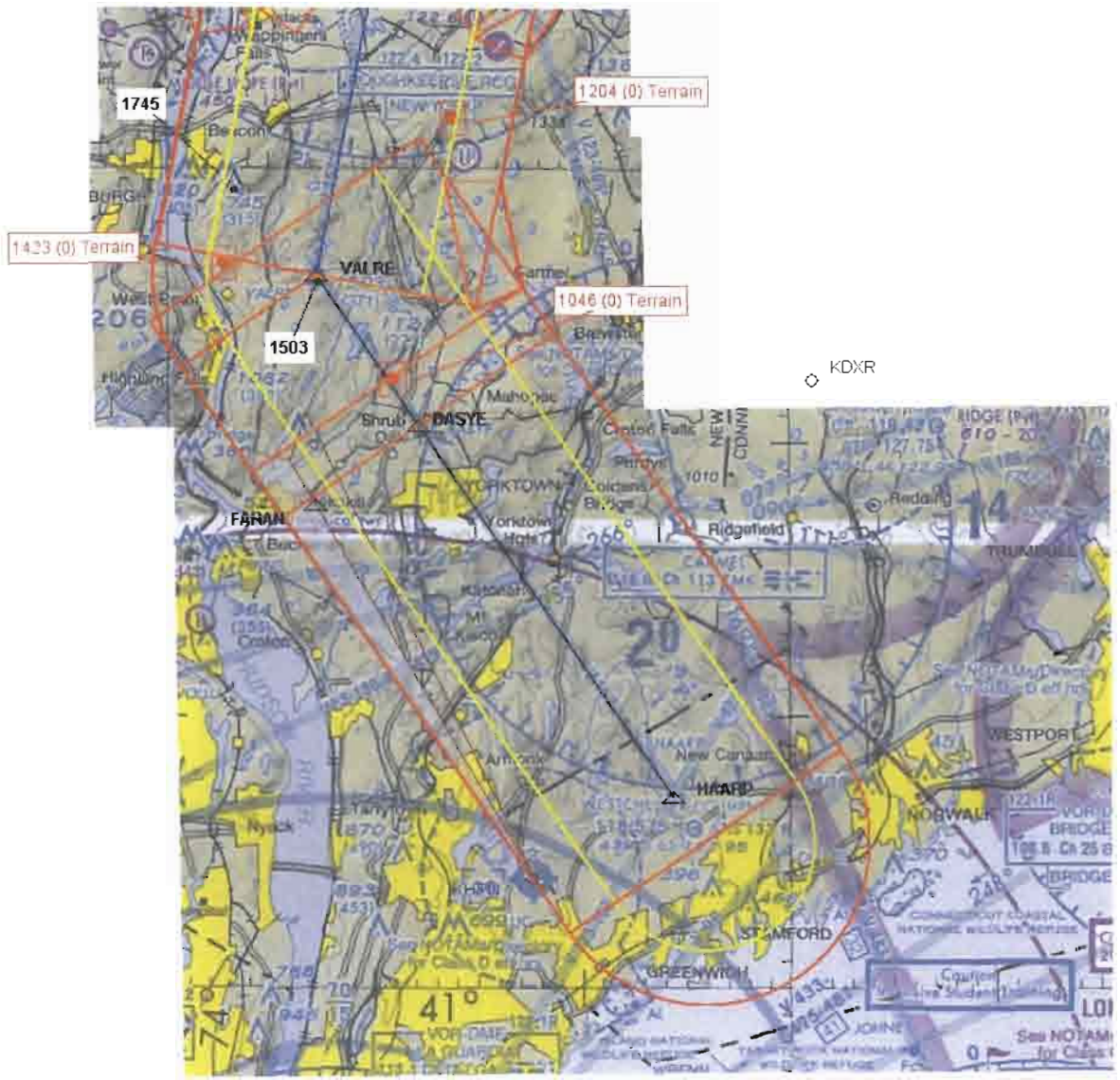
(19) Graphic Depiction (4 of 6)



**(19) Graphic Depiction (5 of 6)**



**(19) Graphic Depiction (6 of 6)**



**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        DNY   K6011210VDLA N42104181W074572499    N42104181W074572499W0110025601     NARDELANCEY
        SUSAD        IGN   K6011760VDLA N41395562W073492007    N41395562W073492007W0120005811     NARKINGSTON
        SUSAD        PWL   K6011430VDLW N41461118W073360199    N41461118W073360199W0120012501     NARPAWLING

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   ATHOS K60    C   B N42144949W073484356                    W0136     NAR          ATHOS
        SUSAEAENRT   BASYE K60    C   B N41203740W073475499                    W0134     NAR          BASYE
        SUSAEAENRT   HAARP K60    C   L N41065887W073353654                    W0134     NAR          HAARP
        SUSAEAENRT   VALRE K60    R   L N41260718W073525425                    W0134     NAR          VALRE
        SUSAEAENRT   VEERS K60    C   L N41543715W073171191                    W0138     NAR          VEERS
        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 KHPNK6AHPN     0     065YHN41040100W073422720W012000439          1800018000C    MNAR    WESTCHESTER COUNTY

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
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        SUSAP KHPNK6EVALRE41ALB   030WIGANK6EA0E       TF                    19380097
        SUSAP KHPNK6EVALRE41ALB   040IGN  K6D 0V  H    TF                    19270252
        SUSAP KHPNK6EVALRE41ALB   050VALREK6EA0EE H    TF                    20300141
        SUSAP KHPNK6EVALRE41BAF   010BAF  K6D 0V       IF                                          18000
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        SUSAP KHPNK6EVALRE41BAF   030PWL  K6D 0V       TF                    25100164
        SUSAP KHPNK6EVALRE41BAF   040IGN  K6D 0V  H    TF                    24990118
        SUSAP KHPNK6EVALRE41BAF   050VALREK6EA0EE H    TF                    20300141
        SUSAP KHPNK6EVALRE41DNY   010DNY  K6D 0V       IF                                          18000
        SUSAP KHPNK6EVALRE41DNY   020WEETSK6EA0E       TF                    13030390
```

QUALITY 1 CHECKED

| (11) Arrival Name | (12) Number | (13) STAR Computer Code | (14) Superseded Nr. | (15) Dated | (16) Effective Date |
|---|---|---|---|---|---|
| VALRE | FOUR | VALRE.VALRE4 | THREE | AUGUST 25, 2011 | |

**FAA Form 7100-3 (9/02)**

```
SUSAP KHPNK6EVALRE41DNY   030IGN  K6D 0V  H    TF                  13650204
SUSAP KHPNK6EVALRE41DNY   040VALREK6EA0EE H    TF                  20300141
SUSAP KHPNK6EVALRE42ALL   010VALREK6EA0E  H    IF                                    18000
SUSAP KHPNK6EVALRE42ALL   020BASYEK6EA0E       TF                  1580
SUSAP KHPNK6EVALRE42ALL   030HAARPK6EA0EE      TF                  1580
```

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                1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
SUSAP KHPNK6GRW11    0044511144 N41040139W073425674-0200    +009040039700005415OV
SUSAP KHPNK6GRW16    0065491619 N41043199W073424790-0900    +010310043900005515OIIHPN1
SUSAP KHPNK6GRW29    0044512944 N41035469W073421647+0200    +008720038712925015OD
SUSAP KHPNK6GRW34    0065493419 N41033600W073420505+0900    +008510038000005615OIIOJZ1
```

QUALITY 1 CHECKED

| (11) Arrival Name | (12) Number | (13) STAR Computer Code | (14) Superseded Nr. | (15) Dated | (16) Effective Date |
|---|---|---|---|---|---|
| VALRE | FOUR | VALRE.VALRE4 | THREE | AUGUST 25, 2011 | |

**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 | ATHOS | 020 | | TF | | FB | | 193.8() | 030.0 | | |
| | ALB | WIGAN | 030 | | TF | | FB | | 193.8() | 009.7 | | |
| | ALB | IGN | 040 | | TF | | FB | | 192.7() | 025.2 | | |
| | ALB | VALRE | 050 | | TF | | FB | | 203.0() | 014.1 | | |
| | BAF | BAF | 010 | | IF | | FB | | | | | |
| | BAF | VEERS | 020 | | TF | | FB | | 253.6() | 029.6 | | |
| | BAF | PWL | 030 | | TF | | FB | | 251.0() | 016.4 | | |
| | BAF | IGN | 040 | | TF | | FB | | 249.9() | 011.8 | | |
| | BAF | VALRE | 050 | | TF | | FB | | 203.0() | 014.1 | | |
| | DNY | DNY | 010 | | IF | | FB | | | | | |
| | DNY | WEETS | 020 | | TF | | FB | | 130.3() | 039.0 | | |
| | DNY | IGN | 030 | | TF | | FB | | 136.5() | 020.4 | | |
| | DNY | VALRE | 040 | | TF | | FB | | 203.0() | 014.1 | | |
| | ALL | VALRE | 010 | | IF | | FB | | | | | |
| | ALL | BASYE | 020 | | TF | | FB | | 158.0() | | | |
| | ALL | HAARP | 030 | | TF | | FB | | 158.0() | | | |

| 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 |
| | DNY | N421041.81 | W0745724.99 | N4210.697 | W07457.417 |
| | IGN | N413955.62 | W0734920.07 | N4139.927 | W07349.335 |
| | PWL | N414611.18 | W0733601.99 | N4146.186 | W07336.033 |
| | ATHOS | N421449.49 | W0734843.56 | N4214.825 | W07348.726 |
| | BASYE | N412037.40 | W0734754.99 | N4120.623 | W07347.917 |
| | HAARP | N410658.87 | W0733536.54 | N4106.981 | W07335.609 |
| | VALRE | N412607.18 | W0735254.25 | N4126.120 | W07352.904 |
| | VEERS | N415437.15 | W0731711.91 | N4154.619 | W07317.199 |
| | WEETS | N415127.07 | W0741151.58 | N4151.451 | W07411.860 |
| | WIGAN | N420506.33 | W0734853.89 | N4205.106 | W07348.898 |
| | RW11 | N410401.39 | W0734256.74 | N4104.023 | W07342.946 |
| | RW16 | N410431.99 | W0734247.90 | N4104.533 | W07342.798 |
| | RW29 | N410354.69 | W0734216.47 | N4103.912 | W07342.275 |
| | RW34 | N410336.00 | W0734205.05 | N4103.600 | W07342.084 |

RUNWAY DATA THRESHOLD

QUALITY 1 CHECKED

| (11) Arrival Name | (12) Number | (13) STAR Computer Code | (14) Superseded Nr. | (15) Dated | (16) Effective Date |
|---|---|---|---|---|---|
| VALRE | FOUR | VALRE.VALRE4 | THREE | AUGUST 25, 2011 | |

**FAA Form 7100-3 (9/02)**

| RWY | ELEVATION | TCH |
|---|---|---|
| RW11 | 00397 | 54 |
| RW16 | 00439 | 55 |
| RW29 | 00387 | 50 |
| RW34 | 00380 | 56 |

QUALITY 1 CHECKED

| (11) Arrival Name | (12) Number | (13) STAR Computer Code | (14) Superseded Nr. | (15) Dated | (16) Effective Date |
|---|---|---|---|---|---|
| VALRE | FOUR | VALRE.VALRE4 | THREE | AUGUST 25, 2011 | |

**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        DNY   K6011210VDLA N42104181W074572499    N42104181W074572499W0110025601     NARDELANCEY
        SUSAD        IGN   K6011760VDLA N41395562W073492007    N41395562W073492007W0120005811     NARKINGSTON
        SUSAD        PWL   K6011430VDLW N41461118W073360199    N41461118W073360199W0120012501     NARPAWLING

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   ATHOS K60    C   B N42144949W073484356                    W0136     NAR          ATHOS
        SUSAEAENRT   BASYE K60    C   B N41203740W073475499                    W0134     NAR          BASYE
        SUSAEAENRT   HAARP K60    C   L N41065887W073353654                    W0134     NAR          HAARP
        SUSAEAENRT   VALRE K60    R   L N41260718W073525425                    W0134     NAR          VALRE
        SUSAEAENRT   VEERS K60    C   L N41543715W073171191                    W0138     NAR          VEERS
        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 KDXRK6ADXR     0     044YHN41221750W073285590W014000457        1800018000C    MNAR    DANBURY MUNI

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KDXRK6EVALRE41ALB   010ALB  K6D 0V       IF                                          18000
        SUSAP KDXRK6EVALRE41ALB   020ATHOSK6EA0E       TF                  19380300
        SUSAP KDXRK6EVALRE41ALB   030WIGANK6EA0E       TF                  19380097
        SUSAP KDXRK6EVALRE41ALB   040IGN  K6D 0V  H    TF                  19270252
        SUSAP KDXRK6EVALRE41ALB   050VALREK6EA0EE H    TF                  20300141
        SUSAP KDXRK6EVALRE41BAF   010BAF  K6D 0V       IF                                          18000
        SUSAP KDXRK6EVALRE41BAF   020VEERSK6EA0E       TF                  25360296
        SUSAP KDXRK6EVALRE41BAF   030PWL  K6D 0V       TF                  25100164
        SUSAP KDXRK6EVALRE41BAF   040IGN  K6D 0V  H    TF                  24990118
        SUSAP KDXRK6EVALRE41BAF   050VALREK6EA0EE H    TF                  20300141
        SUSAP KDXRK6EVALRE41DNY   010DNY  K6D 0V       IF                                          18000
        SUSAP KDXRK6EVALRE41DNY   020WEETSK6EA0E       TF                  13030390
```

QUALITY 1 CHECKED

| (11) Arrival Name | (12) Number | (13) STAR Computer Code | (14) Superseded Nr. | (15) Dated | (16) Effective Date |
|---|---|---|---|---|---|
| VALRE | FOUR | VALRE.VALRE4 | THREE | AUGUST 25, 2011 | |

```
SUSAP KDXRK6EVALRE41DNY   030IGN  K6D 0V  H    TF                  13650204
SUSAP KDXRK6EVALRE41DNY   040VALREK6EA0EE H    TF                  20300141
SUSAP KDXRK6EVALRE42ALL   010VALREK6EA0E  H    IF                                    18000
SUSAP KDXRK6EVALRE42ALL   020BASYEK6EA0E       TF                  1580
SUSAP KDXRK6EVALRE42ALL   030HAARPK6EA0EE      TF                  1580

                1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KDXRK6GRW08    0044210838 N41220856W073292222-0100    +010930045703674015 0RIDXR0
        SUSAP KDXRK6GRW17    0031351671 N41223312W073285872+0100    +0107900452022350100D
        SUSAP KDXRK6GRW26    0044212638 N41221991W073284136+0100    +0108300453073450150D
        SUSAP KDXRK6GRW35    0031353471 N41220950W073284281-0100    +0108300453023250100D
```

QUALITY CHECKED

| (11) Arrival Name | (12) Number | (13) STAR Computer Code | (14) Superseded Nr. | (15) Dated | (16) Effective Date |
|---|---|---|---|---|---|
| VALRE | FOUR | VALRE.VALRE4 | THREE | AUGUST 25, 2011 | |

**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 | ATHOS | 020 | | TF | | FB | | 193.8() | 030.0 | | |
| | ALB | WIGAN | 030 | | TF | | FB | | 193.8() | 009.7 | | |
| | ALB | IGN | 040 | | TF | | FB | | 192.7() | 025.2 | | |
| | ALB | VALRE | 050 | | TF | | FB | | 203.0() | 014.1 | | |
| | BAF | BAF | 010 | | IF | | FB | | | | | |
| | BAF | VEERS | 020 | | TF | | FB | | 253.6() | 029.6 | | |
| | BAF | PWL | 030 | | TF | | FB | | 251.0() | 016.4 | | |
| | BAF | IGN | 040 | | TF | | FB | | 249.9() | 011.8 | | |
| | BAF | VALRE | 050 | | TF | | FB | | 203.0() | 014.1 | | |
| | DNY | DNY | 010 | | IF | | FB | | | | | |
| | DNY | WEETS | 020 | | TF | | FB | | 130.3() | 039.0 | | |
| | DNY | IGN | 030 | | TF | | FB | | 136.5() | 020.4 | | |
| | DNY | VALRE | 040 | | TF | | FB | | 203.0() | 014.1 | | |
| | ALL | VALRE | 010 | | IF | | FB | | | | | |
| | ALL | BASYE | 020 | | TF | | FB | | 158.0() | | | |
| | ALL | HAARP | 030 | | TF | | FB | | 158.0() | | | |

| 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 |
| | DNY | N421041.81 | W0745724.99 | N4210.697 | W07457.417 |
| | IGN | N413955.62 | W0734920.07 | N4139.927 | W07349.335 |
| | PWL | N414611.18 | W0733601.99 | N4146.186 | W07336.033 |
| | ATHOS | N421449.49 | W0734843.56 | N4214.825 | W07348.726 |
| | BASYE | N412037.40 | W0734754.99 | N4120.623 | W07347.917 |
| | HAARP | N410658.87 | W0733536.54 | N4106.981 | W07335.609 |
| | VALRE | N412607.18 | W0735254.25 | N4126.120 | W07352.904 |
| | VEERS | N415437.15 | W0731711.91 | N4154.619 | W07317.199 |
| | WEETS | N415127.07 | W0741151.58 | N4151.451 | W07411.860 |
| | WIGAN | N420506.33 | W0734853.89 | N4205.106 | W07348.898 |
| | RW08 | N412208.56 | W0732922.22 | N4122.143 | W07329.370 |
| | RW17 | N412233.12 | W0732858.72 | N4122.552 | W07328.979 |
| | RW26 | N412219.91 | W0732841.36 | N4122.332 | W07328.689 |
| | RW35 | N412209.50 | W0732842.81 | N4122.158 | W07328.714 |

RUNWAY DATA THRESHOLD

QUALITY 1 CHECKED

| (11) Arrival Name | (12) Number | (13) STAR Computer Code | (14) Superseded Nr. | (15) Dated | (16) Effective Date |
|---|---|---|---|---|---|
| VALRE | FOUR | VALRE.VALRE4 | THREE | AUGUST 25, 2011 | |

**FAA Form 7100-3 (9/02)**

| RWY | ELEVATION | TCH |
|---|---|---|
| RW08 | 00457 | 40 |
| RW17 | 00452 | 50 |
| RW26 | 00453 | 50 |
| RW35 | 00453 | 50 |

| (11) Arrival Name | (12) Number | (13) STAR Computer Code | (14) Superseded Nr. | (15) Dated | (16) Effective Date |
|---|---|---|---|---|---|
| VALRE | FOUR | VALRE.VALRE4 | THREE | AUGUST 25, 2011 | |

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** CHESTER VOR/DME **STATE:** MA **COUNTRY:** US

**LATITUDE/LONGITUDE:** 421728.75N/0725657.82W **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 | CHESTER | CTR | 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 | E | CTR | VOR/DME | 095.00 | 275.00 | R | 1 | - | 4000 | 10000 | 4 | 9 |
| 2 | E | | WP | 095.00 | 275.00 | R | | 4 | 4000 | 10000 | 5 | 10 |

**CONTROLLING OBSTRUCTIONS:**

| PAT | AIRSPEED | OBSTRUCTION | COORDINATES | ELEVATION | ACCURACY CODE |
|---|---|---|---|---|---|
| UPN | 265 | TOWER (25-000021) | 422611.00N/0730312.00W | 2558 | 1D |
| 1 | 200 | AAO | 411518.00N/0725912.00W | 1966 | 4E |
| 2 | 200 | AAO | 422142.00N/0730100.00W | 1995 | 4E |

**HOLDING RESTRICTIONS:**
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 3800.

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

**FIX USE:**

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|---|---|
| DP | BRADLEY | | | KBDL | WINDSOR LOCKS | CT (US) |
| DP | HANSCOM | | | KBED | BEDFORD | MA (US) |
| DP | BEVERLY | | | KBVY | BEVERLY | MA (US) |
| DP | LOGAN | | | 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) |
| EN ROUTE | V146 | | | | | (US) |
| EN ROUTE | V270 | | | | | (US) |
| EN ROUTE | V39 | | | | | (US) |
| EN ROUTE | V39-93 | | | | | (US) |
| EN ROUTE | V93 | | | | | (US) |
| IAP | RNAV (GPS) RWY 15 | | | KBDL | WINDSOR LOCKS | CT (US) |
| IAP | RNAV (RNP) Z RWY 15 | | | KBDL | WINDSOR LOCKS | CT (US) |
| IAP | GPS RWY 14 | | | K7B2 | NORTHAMPTON | MA (US) |
| IAP | RNAV (GPS) RWY 14 | | | K7B2 | NORTHAMPTON | MA (US) |
| IAP | VOR OR GPS-A | | 1 | K7B2 | NORTHAMPTON | MA (US) |
| IAP | VOR/DME-B | | 1 | K7B2 | NORTHAMPTON | MA (US) |
| IAP | LOC RWY 26 | | | KPSF | PITTSFIELD | MA (US) |
| IAP | RNAV (GPS) RWY 26 | | | KPSF | PITTSFIELD | MA (US) |
| IAP | ILS Y OR LOC RWY 23 | | | KCEF | SPRINGFIELD/CHICOPEE | MA (US) |
| IAP | VOR RWY 23 | | | KCEF | SPRINGFIELD/CHICOPEE | MA (US) |
| IAP | HI-ILS RWY 20 | | | KBAF | WESTFIELD/SPRINGFIELD | MA (US) |
| IAP | ILS OR LOC RWY 20 | | 1 | KBAF | WESTFIELD/SPRINGFIELD | MA (US) |
| IAP | RNAV (GPS) RWY 20 | | 2 | KBAF | WESTFIELD/SPRINGFIELD | MA (US) |
| IAP | VOR OR TACAN RWY 2 | | | KBAF | WESTFIELD/SPRINGFIELD | MA (US) |
| IAP | VOR RWY 20 | | 1 | KBAF | WESTFIELD/SPRINGFIELD | MA (US) |
| IAP | RNAV (GPS) RWY 1 | | | K4B0 | SOUTH BETHLEHEM | NY (US) |
| IAP | RNAV (GPS) RWY 1. | | | K4V8 | WEST DOVER | VT (US) |
| STAR | BRIDGEPORT | | | KBDR | BRIDGEPORT | CT (US) |
| STAR | DENNA | | | KBDR | BRIDGEPORT | CT (US) |
| STAR | NOBBI | | | KDXR | DANBURY | CT (US) |
| STAR | VALRE | | | KDXR | DANBURY | CT (US) |
| STAR | SWEDE | | | KHFD | HARTFORD | CT (US) |
| STAR | BRIDGEPORT | | | KHVN | NEW HAVEN | CT (US) |
| STAR | DENNA | | | KHVN | NEW HAVEN | CT (US) |
| STAR | BRIDGEPORT | | | KOXC | OXFORD | CT (US) |
| STAR | DENNA | | | KOXC | OXFORD | CT (US) |
| STAR | SWEDE | | | KBDL | WINDSOR LOCKS | CT (US) |
| STAR | SWEDE | | | KBAF | WESTFIELD/SPRINGFIELD | MA (US) |
| STAR | SWEDE | | | KORH | WORCESTER | MA (US) |
| STAR | PAWLING | | | KFRG | FARMINGDALE | NY (US) |
| STAR | LOVES | | | KISP | ISLIP | NY (US) |
| STAR | PAWLING | | | KJFK | NEW YORK | NY (US) |
| STAR | HAARP | | | KLGA | NEW YORK | NY (US) |
| STAR | NOBBI | | | KLGA | NEW YORK | NY (US) |
| STAR | NOBBI | | | KHPN | WHITE PLAINS | NY (US) |

QUALITY CHECKED

STAR VALRE KHPN WHITE PLAINS NY (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 13 **DATE OF REVISION:** 05/31/2012

**REASON FOR REVISION:**
DELETE 310 KIAS CIH PATTERN, NOT REQUIRED FOR PROCEDURE.

| | | | |
|---|---|---|---|
| **DEVELOPED BY:** | **DATE:** 12/05/2011 | **OFFICE:** AJV-352 | **NAME:** ROBERT COOK |
| **APPROVED BY:** | **DATE:** | **OFFICE:** AJV-352 | **NAME:** DARRYEL ADAMS |
| | **SIGNATURE:** | | |

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

# RADIO FIX AND HOLDING DATA RECORD

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

**LATITUDE/LONGITUDE:** 412434.87N/0743529.74W **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 | HUGUENOT | HUO | VOR/DME | 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 | W | HUO | VOR/DME | 260.00 | 080.00 | R | 1 | | 4000 | 6000 | 4 | 5 |
| 2 | W | HUO | VOR/DME | 272.82 | 092.82 | R | 1 | | 3500 | 6000 | 4 | 5 |
| 3 | S | HUO | VOR/DME | 168.49 | 348.49 | R | 1 | | 3500 | 6000 | 4 | 5 |
| 4 | N | HUO | VOR/DME | 019.05 | 199.05 | R | 1 | | 4000 | 8000 | 4 | 8 |
| 5 | SW | HUO | VOR/DME | 206.98 | 026.98 | L | 1 | | 3500 | 6000 | 4 | 5 |
| 6 | W | | WP | 272.82 | 092.82 | R | | 5 | 3500 | 6000 | 5 | 6 |

**CONTROLLING OBSTRUCTIONS:**

| PAT | AIRSPEED | OBSTRUCTION | COORDINATES | ELEVATION | ACCURACY CODE |
|---|---|---|---|---|---|
| 1 | 200 | MONUMENT (34-000046) | 411915.00N/0743942.00W | 2023 | 3C |
| 2 | 200 | MONUMENT (34-000046) | 411915.00N/0743942.00W | 2023 | 3C |
| 2 | 310 | MONUMENT (34-000046) | 411915.00N/0743942.00W | 2023 | 3C |
| 3 | 200 | AAO | 412112.00N/0743836.00W | 1605 | 4E |
| 4 | 210 | AAO | 411936.00N/0743927.00W | 1946 | 4E |
| 5 | 200 | MONUMENT (34-000046) | 411915.00N/0743942.00W | 2023 | 3C |
| 6 | 200 | MONUMENT (34-000046) | 411915.00N/0743942.00W | 2023 | 3C |

**REASON FOR NONSTANDARD HOLDING:**
PAT 5 AT REQUEST

**HOLDING RESTRICTIONS:**
PAT 4 CHART 210K ICON
HOLDING LIMITED TO ESTABLISHED PATTERNS.

**PROCEDURES REQUIRING CLIMB-IN-HOLD:**

| PAT | PROCEDURE TITLE | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|
| 2 | NDB RWY 26 | K06N | MIDDLETOWN | NY (US) |

**REMARKS:**
PRECIPITOUS TERRAIN EVALUATIONS 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 | RUUDY (RNAV) | | | KTEB | TETERBORO | NJ (US) |
| DP | TETERBORO | | | KTEB | TETERBORO | NJ (US) |
| DP | LA GUARDIA | | | KLGA | NEW YORK | NY (US) |
| DP | TNNIS | | | KLGA | NEW YORK | NY (US) |
| DP | STEWART | | | KSWF | NEWBURGH | NY (US) |
| DP | DUTCHESS | | | KPOU | POUGHKEEPSIE | NY (US) |
| DP | WESTCHESTER | | | KHPN | WHITE PLAINS | NY (US) |
| EN ROUTE | V205 | | 4 | | | (US) |
| EN ROUTE | J132 | | | | | NY (US) |
| EN ROUTE | J63 | | | | | NY (US) |
| EN ROUTE | V162 | | | | | NY (US) |
| EN ROUTE | V252 | | | | | NY (US) |
| EN ROUTE | V273 | | | | | NY (US) |
| EN ROUTE | V489 | | 4 | | | NY (US) |
| IAP | NDB RWY 26 | | 2 | K06N | MIDDLETOWN | NY (US) |
| IAP | RNAV (GPS) RWY 26 | | 6 | K06N | MIDDLETOWN | NY (US) |
| IAP | RNAV (GPS) RWY 8 | | 6 | K06N | MIDDLETOWN | NY (US) |
| IAP | VOR RWY 8 | | 2 | K06N | MIDDLETOWN | NY (US) |
| IAP | ILS OR LOC RWY 3 | | 2 | KMGJ | MONTGOMERY | NY (US) |
| IAP | NDB RWY 3 | | 2 | KMGJ | MONTGOMERY | NY (US) |
| IAP | RNAV (GPS) RWY 8 | | | KMGJ | MONTGOMERY | NY (US) |
| IAP | VOR RWY 8 | | 1 | KMGJ | MONTGOMERY | NY (US) |
| IAP | ILS OR LOC RWY 15 | | | KMSV | MONTICELLO | NY (US) |
| IAP | RNAV (GPS) RWY 33 | | | KMSV | MONTICELLO | NY (US) |
| IAP | VOR/DME RWY 33 | | | KMSV | MONTICELLO | NY (US) |
| IAP | ILS OR LOC RWY 9 | | | KSWF | NEWBURGH | NY (US) |
| IAP | ILS RWY 9 (CAT II) | | | KSWF | NEWBURGH | NY (US) |
| IAP | ILS OR LOC RWY 6 | | | KPOU | POUGHKEEPSIE | NY (US) |

QUALITY CHECKED

| | | | | | |
|---|---|---|---|---|---|
| IAP | RNAV (GPS) RWY 24 | | KPOU | POUGHKEEPSIE | NY (US) |
| IAP | RNAV (GPS) RWY 6 | | KPOU | POUGHKEEPSIE | NY (US) |
| IAP | VOR/DME RWY 6 | | KPOU | POUGHKEEPSIE | NY (US) |
| IAP | VOR/DME OR GPS RWY 5 | 5 | KN82 | WURTSBORO | NY (US) |
| STAR | VALRE | | KDXR | DANBURY | CT (US) |
| STAR | WILKES BARRE | | KCDW | CALDWELL | NJ (US) |
| STAR | WILKES BARRE | | KLDJ | LINDEN | NJ (US) |
| STAR | WILKES BARRE | | KMMU | MORRISTOWN | 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 | RUBER | | KMGJ | MONTGOMERY | NY (US) |
| STAR | RUBER | | KMSV | MONTICELLO | NY (US) |
| STAR | HAARP | | KLGA | NEW YORK | NY (US) |
| STAR | RUBER | | KSWF | NEWBURGH | NY (US) |
| STAR | RUBER | | KPOU | POUGHKEEPSIE | NY (US) |
| STAR | VALRE | | KHPN | WHITE PLAINS | NY (US) |
| STAR | SLATT | | KPHL | PHILADELPHIA | PA (US) |

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 17 **DATE OF REVISION:** 05/31/2012

**REASON FOR REVISION:**
ADDED CLIMB-IN-HOLD FOR K06N NDB RWY 26.
ADDED 310 KT OBSTACLE FOR PAT 2.

**DEVELOPED BY:** **DATE:** 11/30/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (MIKE MELSSEN)

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

**SIGNATURE:**

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

QUALITY CHECKED

# 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:** 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 | 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 |
| 7 | N | IGN | VOR/DME | 012.74 | 192.74 | R | | 10 | 5000 | 17500 | 15 | 15 |

**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 | 413827.00N/0740103.00W | 1273 | 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 |
| 7 | 200 | 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:**
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) |

QUALITY CHECKED

| | | | | | |
|---|---|---|---|---|---|
| IAP | VOR/DME RWY 6 | | KTEB | TETERBORO | NJ (US) |
| 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 | VALRE | 7 | KDXR | DANBURY | 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 | HAARP | | KLGA | NEW YORK | NY (US) |
| STAR | NOBBI | | KLGA | NEW YORK | NY (US) |
| STAR | HUDSON | | KSWF | NEWBURGH | NY (US) |
| STAR | VALRE | 7 | KHPN | WHITE PLAINS | NY (US) |

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 21 **DATE OF REVISION:** 05/31/2012

**REASON FOR REVISION:**
UPDATED PATTERN 3 CONTROLLING OBSTACLE.
ADDED HOLDING PATTERN 7.

**DEVELOPED BY:** **DATE:** 11/29/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (MIKE MELSSEN)

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

**SIGNATURE:**

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

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** VALRE **STATE:** NY **COUNTRY:** US

**LATITUDE/LONGITUDE:** 412607.18N/0735254.25W **TYPE:** 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 | 203.01 | 191.01 | 14.06 | 14.06 | | 4000 | 17500 |
| 2 | HUGUENOT | HUO | VOR/DME | H | 098.02 | 087.02 | | 32.08 | | 4000 | 17500 |
| 3 | DEER PARK | DPK | VOR/DME | L | 338.00 | 326.00 | 46.65 | 46.65 | | 7000 | 17500 |

**EXPANDED SERVICE VOLUME (ESV):**

| FAC IDENT | FAC TYPE | RADIAL/BEARING | DISTANCE | MIN ALTITUDE | MAX ALTITUDE |
|---|---|---|---|---|---|
| DPK | VOR/DME | R-338 | 47 | 7000 | 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 | IGN | VOR/DME | 203.00 | 203.00 | R | 1 | | 5000 | 14000 | 7 | 10 |
| 2 | NE | IGN | VOR/DME | 203.01 | 203.01 | R | | 10 | 5000 | 14000 | 15 | 15 |

**CONTROLLING OBSTRUCTIONS:**

| PAT | AIRSPEED | OBSTRUCTION | COORDINATES | ELEVATION | ACCURACY CODE |
|---|---|---|---|---|---|
| 1 | 200 | AAO | 412854.00N/0735639.00W | 1798 | 4E |
| 2 | 200 | TOWER (36-000979) | 414307.49N/0735945.41W | 2000 | 1A |

**HOLDING RESTRICTIONS:**
PAT 1 CHART 210K ICON
HOLDING LIMITED TO ESTABLISHED PATTERNS.

**REMARKS:**
HUGUENOT (FAC 2) AND KINGSTON (FAC 1) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
HOLDING PATTERN 2 ADDED/SPECIALIZED PER ATC REQUEST FOR STARS.
ESV OF 7000 UTILIZED PER FLIGHT CHECK FOR FIX DISPLACEMENT. AN ESV AT 4000
SUBMITTED TO SUPPORT STARS TO ALLOW FLYING DPK RADIAL FROM VALRE.

**FIX USE:**

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|---|---|
| DP | STEWART | 1 | | KSWF | NEWBURGH | NY (US) |
| EN ROUTE | V157 | 1, 2, 3 | 1 | | | (US) |
| STAR | VALRE | 1, 2, 3 | 2 | KDXR | DANBURY | CT (US) |
| STAR | RNAV (GPS) RWY 35 | | | K44N | MILLBROOK | NY (US) |
| STAR | HAARP | 1, 2, 3 | 2 | KLGA | NEW YORK | NY (US) |
| STAR | DUTCHESS | 1 | | KPOU | POUGHKEEPSIE | NY (US) |
| STAR | VALRE | 1, 2, 3 | 2 | KHPN | WHITE PLAINS | NY (US) |

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

**COMPULSORY REPORTING POINT:** NO

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

**REASON FOR REVISION:**
ADDED DIST FROM FAC VALUES TO ALL FACS.
ADDED ESV.
ADDED HOLDING PATTERN 2.
UPDATED FIX USE AND REMARKS.

**DEVELOPED BY:** **DATE:** 12/08/2011 **OFFICE:** AJV-352 **NAME:** KELLY DEAN

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

**SIGNATURE:**

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

QUALITY CHECKED

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** VEERS **STATE:** CT **COUNTRY:** US

**LATITUDE/LONGITUDE:** 415437.15N/0731711.91W **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 | PAWLING | PWL | VOR/DME | L | 070.99 | 058.99 | 16.41 | 16.41 | | 4000 | 17500 |
| 2 | HARTFORD | HFD | VOR/DME | L | 309.19 | 296.19 | | 36.90 | | 4000 | 17500 |

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

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

**FIX USE:**

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|---|---|
| DP | BRADLEY | 1 | | KBDL | WINDSOR LOCKS | CT (US) |
| EN ROUTE | T212 | | | | | (US) |
| EN ROUTE | V106 | 1, 2 | | | | (US) |
| EN ROUTE | V405 | 1, 2 | | | | (US) |
| STAR | VALRE | 1, 2 | | KDXR | DANBURY | CT (US) |
| STAR | VALRE | 1, 2 | | KHPN | WHITE PLAINS | NY (US) |

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

**COMPULSORY REPORTING POINT:** NO

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

**REASON FOR REVISION:**
FIX MOVED 0.08NM WEST; PLACED ON CENTERLINE OF V106-405 AND T-212.
ADDED WP TO FIX TYPE.
DELETED FAC 1 (BDL) AND FAC 2 (CTR); ADDED FAC 1 (PWL) AND FAC 2 (HFD).
ADDED STAR TO REQUIRED CHARTING.
UPDATED FIX USE AND REMARKS.

**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:** BDL APP CON
**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 | | | KEWR | NEWARK | NJ (US) |

QUALITY CHECKED

| | | | | |
|---|---|---|---|---|
| STAR | HELON | KEWR | NEWARK | NJ (US) |
| 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

INFO ONLY

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** ATHOS **STATE:** NY **COUNTRY:** US

**LATITUDE/LONGITUDE:** 421449.49N/0734843.56W **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 | CHESTER | CTR | VOR/DME | L | 279.34 | 266.34 | 38.52 | 38.52 | | 3000 | 17500 |
| 2 | PAWLING | PWL | VOR/DME | L | 353.78 | 341.78 | 30.15 | 30.15 | | 3000 | 17500 |
| 3 | ALBANY | ALB | VORTAC | L | 193.76 | 180.76 | 30.00 | 30.00 | | 8000 | 45000 |
| 4 | ROCKDALE | RKA | VOR/DME | L | 112.22 | 101.22 | | 64.84 | | 11000 | 17500 |

**EXPANDED SERVICE VOLUME (ESV):**

| FAC IDENT | FAC TYPE | RADIAL/BEARING | DISTANCE | MIN ALTITUDE | MAX ALTITUDE |
|---|---|---|---|---|---|
| RKA | VOR/DME | R-112 | 66 | 11000 | 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 | N | ALB | VORTAC | 193.76 | 193.76 | L | 1-1 1/2 | | 8000 | 17500 | 10 | 18 |

**CONTROLLING OBSTRUCTIONS:**

| PAT | AIRSPEED | OBSTRUCTION | COORDINATES | ELEVATION | ACCURACY CODE |
|---|---|---|---|---|---|
| 1 | 230 | AAO | 421112.00N/0733942.00W | 1211 | 4E |

**HOLDING RESTRICTIONS:**
HOLDING LIMITED TO ESTABLISHED PATTERNS.
PAT 1 FOR ATC USE.

**REMARKS:**
PRECIPITOUS TERRAIN EVALUATED.
FAC 4 (ROCKDALE VOR/DME) IS FOR ATC USE ON THE PAWLEY STAR FOR DIRECT FROM ROCKDALE TO ATHOS.
CHESTER VOR/DME (FAC 1) AND PAWLING VOR/DME (FAC 2) USED TO ESTABLISH FIX COORDINATES.

**FIX USE:**

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|---|---|
| EN ROUTE | J37 | 3 | | | | (US) |
| EN ROUTE | V123 | 1, 3 | | | | (US) |
| EN ROUTE | V157 | 1, 3 | | | | (US) |
| EN ROUTE | V270 | 1, 2 | | | | (US) |
| EN ROUTE | V44 | 1, 3 | | | | (US) |
| IAP | RNAV (GPS) Y RWY 1 | | | KALB | ALBANY | NY (US) |
| IAP | NDB-A | | | K1B1 | HUDSON | NY (US) |
| STAR | BRIDGEPORT | 1, 3 | | KBDR | BRIDGEPORT | CT (US) |
| STAR | DENNA | 1, 3 | | KBDR | BRIDGEPORT | CT (US) |
| STAR | VALRE | 1, 3 | | KDXR | DANBURY | CT (US) |
| STAR | PAWLING | 1, 3 | | KFRG | FARMINGDALE | NY (US) |
| STAR | LOVES | 1, 3 | | KISP | NEW YORK | NY (US) |
| STAR | PAWLING | 1, 3 | | KJFK | NEW YORK | NY (US) |
| STAR | VALRE | 1, 3 | | KHPN | WHITE PLAINS | NY (US) |

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 11 **DATE OF REVISION:** 12/15/2011

**REASON FOR REVISION:**
UPDATED FIX USE.
ADDED FAC 2 DME DIST.

**DEVELOPED BY:** **DATE:** 09/20/2011 **OFFICE:** AJV-311 **NAME:** TOBY HUFF (ARMAND SILVA)

**APPROVED BY:** **DATE:** 10/11/2011 **OFFICE:** AJV-311 **NAME:** DONALD SMITH

**SIGNATURE:**

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

QUALITY CHECKED

INFO ONLY

# 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:** 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 | BARNES | BAF | VORTAC | L | | | | | | | 45000 |

**EXPANDED SERVICE VOLUME (ESV):**

| FAC IDENT | FAC TYPE | RADIAL/BEARING | DISTANCE | MIN ALTITUDE | MAX ALTITUDE |
|---|---|---|---|---|---|

PAT 1 ESV ON FILE

**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 | KBDL | WINDSOR LOCKS | CT (US) |
| 1 | ILS RWY 24 (CATII) | 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 | ILS RWY 24 (CATII) | | 1 | KBDL | WINDSOR LOCKS | CT (US) |
| DP | HANSCOM | | | KBED | BEDFORD | MA (US) |
| DP | BEVERLY | | | KBVY | BEVERLY | MA (US) |
| DP | LOGAN | | | 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) |
| 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 | | 1 | KBDL | WINDSOR LOCKS | CT (US) |
| IAP | ILS RWY 6 (CAT II) | | 1 | KBDL | WINDSOR LOCKS | CT (US) |
| IAP | ILS RWY 6 (CAT III) | | | KBDL | WINDSOR LOCKS | CT (US) |
| IAP | RNAV (GPS) Y RWY 6 | | | KBDL | WINDSOR LOCKS | CT (US) |
| IAP | RNAV (RNP) Z RWY 6 | | | KBDL | WINDSOR LOCKS | CT (US) |
| IAP | GPS RWY 14 | | | K7B2 | NORTHAMPTON | MA (US) |
| IAP | VOR OR GPS-A | | | K7B2 | NORTHAMPTON | MA (US) |
| IAP | VOR OR GPS-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) |

QUALITY CHECKED

| | | | | |
|---|---|---|---|---|
| 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 | 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 | FLOSI (RNAV) | KEWR | NEWARK | NJ (US) |
| STAR | HELON | 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:** 10 **DATE OF REVISION:** 10/20/2011

**REASON FOR REVISION:**
FIX COORDINATES CHANGED TO MATCH AVNIS.
UPDATED FIX USE.

**DEVELOPED BY:** **DATE:** 06/07/2011 **OFFICE:** AJV-352 **NAME:** HOWARD HAWKINS

**APPROVED BY:** **DATE:** 08/29/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH

**SIGNATURE:**

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

QUALITY CHECKED

INFO ONLY

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** BASYE **STATE:** NY **COUNTRY:** US

**LATITUDE/LONGITUDE:** 412037.40N/0734754.99W **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 | DEER PARK | DPK | VOR/DME | L | 338.00 | 326.00 | 40.00 | 40.00 | | 4000 | 17500 |
| 2 | PAWLING | PWL | VOR/DME | L | 211.31 | 199.31 | | 27.06 | | 4000 | 17500 |

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

**FIX USE:**

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|---|---|
| EN ROUTE | Q406 | | | | | (US) |
| EN ROUTE | Q448 | | | | | (US) |
| EN ROUTE | V157 | 1, 2 | | | | (US) |
| IAP | GPS RWY 8 | | | KDXR | DANBURY | CT (US) |
| IAP | RNAV (GPS) RWY 26 | | | KMGJ | MONTGOMERY | NY (US) |
| IAP | RNAV (RNP) Z RWY 16 | | | KHPN | WHITE PLAINS | NY (US) |
| STAR | VALRE | 1, 2 | | KDXR | DANBURY | CT (US) |
| STAR | HAARP | 1, 2 | | KLGA | NEW YORK | NY (US) |
| STAR | VALRE | 1, 2 | | KHPN | WHITE PLAINS | NY (US) |

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 4 **DATE OF REVISION:** 10/20/2011

**REASON FOR REVISION:**
UPDATED FIX USE.
ADDED EN ROUTE HIGH TO REQUIRED CHARTING.

**DEVELOPED BY:** **DATE:** 04/11/2011 **OFFICE:** AJV-311 **NAME:** TOBY HUFF (PATRICK LAYBE)

**APPROVED BY:** **DATE:** 08/26/2011 **OFFICE:** AJV-311 **NAME:** DARRYEL ADAMS

**SIGNATURE:**

**DISTRIBUTION:**
**NFDC**
**FPO:** EST
**ARTCC:** ZBW
**ATC FACILITY:** NY APP CON
**OTHER:** DXR ATCT, LGA ATCT

QUALITY CHECKED

INFO ONLY

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** DEER PARK VOR/DME **STATE:** NY **COUNTRY:** US

**LATITUDE/LONGITUDE:** 404730.36N/0731813.24W **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 | DEER PARK | DPK | 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 | N | DPK | VOR/DME | 020.00 | 200.00 | L | 1 | | 3000 | 6000 | 4 | 12 |
| 2 | E | DPK | VOR/DME | 078.09 | 258.09 | L | 1 | | 3000 | 6000 | 4 | 5 |
| 3 | E | | WP | 080.00 | 260.00 | L | | 4 | 4000 | 6000 | 5 | 6 |
| 4 | SW | DPK | VOR/DME | 207.39 | 027.39 | R | 1 | | 15000 | 17000 | 15 | 16 |
| 5 | N | | WP | 020.00 | 200.00 | R | | 4 | 3000 | 6000 | 5 | 13 |

**CONTROLLING OBSTRUCTIONS:**

| PAT | AIRSPEED | OBSTRUCTION | COORDINATES | ELEVATION | ACCURACY CODE |
|---|---|---|---|---|---|
| 1 | 200 | TOWER (36-000350) | 404659.08N/0732201.78W | 561 | 1D |
| 1 | 310 | STACK (36-000311) | 405519.44N/0732035.39W | 636 | 4D |
| 2 | 200 | TOWER (36-000250) | 404855.35N/0731042.40W | 583 | 1D |
| 3 | 200 | TOWER (36-000250) | 404855.35N/0731042.40W | 583 | 1D |
| 4 | 265 | STACK (36-000311) | 405519.44N/0732035.39W | 636 | 4D |
| 5 | 200 | STACK (36-000311) | 405519.44N/0732035.39W | 636 | 4D |
| 5 | 310 | STACK (36-000311) | 405519.44N/0732035.39W | 636 | 4D |

**REASON FOR NONSTANDARD HOLDING:**
PAT 1 AIR TRAFFIC AIRSPACE
PAT 2 AIR TRAFFIC AIRSPACE
PAT 3 AIR TRAFFIC AIRSPACE

**HOLDING RESTRICTIONS:**
HOLDING LIMITED TO ESTABLISHED PATTERNS.

**PROCEDURES REQUIRING CLIMB-IN-HOLD:**

| PAT | PROCEDURE TITLE | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|
| 1 | ILS OR LOC RWY 14 | KFRG | FARMINGDALE | NY (US) |
| 5 | RNAV (GPS) Y RWY 14 | KFRG | FARMINGDALE | NY (US) |
| 5 | RNAV (GPS) RWY 19 | KFRG | FARMINGDALE | NY (US) |

**REMARKS:**
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 | 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 (RNAV) | | | KLGA | NEW YORK | NY (US) |
| DP | WESTCHESTER | | | KHPN | WHITE PLAINS | NY (US) |
| EN ROUTE | J95 | | | | | (US) |
| EN ROUTE | V1 | | | | | (US) |
| EN ROUTE | V44 | | | | | (US) |
| EN ROUTE | V46 | | | | | (US) |
| EN ROUTE | V483 | | | | | (US) |
| IAP | ILS OR LOC RWY 14 | | 1 | KFRG | FARMINGDALE | NY (US) |
| IAP | NDB RWY 1 | | | KFRG | FARMINGDALE | NY (US) |
| IAP | RNAV (GPS) RWY 1 | | 5 | KFRG | FARMINGDALE | NY (US) |
| IAP | RNAV (GPS) RWY 19 | | 5 | KFRG | FARMINGDALE | NY (US) |
| IAP | RNAV (GPS) RWY 32 | | | KFRG | FARMINGDALE | NY (US) |
| IAP | RNAV (GPS) Y RWY 14 | | 5 | KFRG | FARMINGDALE | NY (US) |
| IAP | ILS OR LOC RWY 13L | | 2 | KJFK | NEW YORK | NY (US) |
| IAP | ILS OR LOC RWY 31L | | | KJFK | NEW YORK | NY (US) |
| IAP | ILS RWY 13L (CAT II) | | 2 | KJFK | NEW YORK | NY (US) |
| IAP | ILS RWY 4R | | 2 | KJFK | NEW YORK | NY (US) |
| IAP | ILS RWY 4R (CAT II) | | 2 | KJFK | NEW YORK | NY (US) |
| IAP | ILS RWY 4R (CAT III) | | 2 | KJFK | NEW YORK | NY (US) |
| IAP | RNAV (GPS) RWY 22R | | | KJFK | NEW YORK | NY (US) |
| IAP | RNAV (GPS) X RWY 31L | | | KJFK | NEW YORK | NY (US) |

QUALITY CHECKED

| | | | | | |
|---|---|---|---|---|---|
| IAP | RNAV (GPS) Y RWY 22L | | KJFK | NEW YORK | NY (US) |
| IAP | RNAV (GPS) Y RWY 31L | | KJFK | NEW YORK | NY (US) |
| IAP | RNAV (GPS) Y RWY 31R | | KJFK | NEW YORK | NY (US) |
| IAP | RNAV (GPS) Y RWY 4R | 3 | KJFK | NEW YORK | NY (US) |
| IAP | RNAV (RNP) RWY 13L | 3 | KJFK | NEW YORK | NY (US) |
| IAP | RNAV (RNP) Z RWY 22L | | KJFK | NEW YORK | NY (US) |
| IAP | RNAV (RNP) Z RWY 31L | | KJFK | NEW YORK | NY (US) |
| IAP | RNAV (RNP) Z RWY 31R | 3 | KJFK | NEW YORK | NY (US) |
| IAP | RNAV (RNP) Z RWY 4R | | KJFK | NEW YORK | NY (US) |
| IAP | VOR OR GPS RWY 13 L/R | 2 | KJFK | NEW YORK | NY (US) |
| IAP | VOR RWY 31L | | KJFK | NEW YORK | NY (US) |
| IAP | VOR RWY 4R | 2 | KJFK | NEW YORK | NY (US) |
| IAP | VOR/DME RWY 22L | | KJFK | NEW YORK | NY (US) |
| STAR | VALRE | | KDXR | DANBURY | CT (US) |
| STAR | DEER PARK | | KBDL | WINDSOR LOCKS | CT (US) |
| STAR | PAWLING | | KJFK | NEW YORK | NY (US) |
| STAR | HAARP | | KLGA | NEW YORK | NY (US) |
| STAR | HUDSON | | KSWF | NEWBURGH | NY (US) |
| STAR | BOUNO | 4 | KHPN | WHITE PLAINS | NY (US) |
| STAR | VALRE | | KHPN | WHITE PLAINS | NY (US) |

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 21 **DATE OF REVISION:** 04/05/2012

**REASON FOR REVISION:**
1. CHANGED PAT 5 FROM LEFT TURNS TO RIGHT TURNS.

**DEVELOPED BY:** **DATE:** 10/11/2011 **OFFICE:** AJV-352 **NAME:** DAVID SAUER

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

**SIGNATURE:**

**DISTRIBUTION:**
**NFDC**
**FPO:** EST
**ARTCC:** ZBW, ZNY
**ATC FACILITY:** N90
**OTHER:**

INFO ONLY

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** DE LANCEY VOR/DME **STATE:** NY **COUNTRY:** US

**LATITUDE/LONGITUDE:** 421041.81N/0745724.99W **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 | DE LANCEY | DNY | VOR/DME | L | | | | | | | 45000 |

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

**CONTROLLING OBSTRUCTIONS:**

| PAT | AIRSPEED | OBSTRUCTION | COORDINATES | ELEVATION | ACCURACY CODE |
|---|---|---|---|---|---|
| UPN | 265 | 200' AAO | 420642.00N/0743618.00W | 3659 | 4E |

**HOLDING RESTRICTIONS:**
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 5000.

**REMARKS:**
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

**FIX USE:**

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|---|---|
| DP | ALBANY DEPARTURE | | | KALB | ALBANY | NY (US) |
| EN ROUTE | V249 | | | | | (US) |
| EN ROUTE | V249-483 | | | | | (US) |
| EN ROUTE | V270 | | | | | (US) |
| EN ROUTE | V449 | | | | | (US) |
| EN ROUTE | V483 | | | | | (US) |
| EN ROUTE | V576 | | | | | (US) |
| IAP | ILS OR LOC RWY 15 | | | KMSV | MONTICELLO | NY (US) |
| IAP | NDB RWY 15 | | | KMSV | MONTICELLO | NY (US) |
| IAP | VOR RWY 25 | | | KN23 | SIDNEY | NY (US) |
| STAR | BRIDGEPORT | | | KBDR | BRIDGEPORT | CT (US) |
| STAR | DENNA | | | KBDR | BRIDGEPORT | CT (US) |
| STAR | VALRE | | | KDXR | DANBURY | CT (US) |
| STAR | HELON | | | KEWR | NEWARK | NJ (US) |
| STAR | SHAFF | | | KEWR | NEWARK | NJ (US) |
| STAR | LOVES | | | KISP | ISLIP | NY (US) |
| STAR | KINGSTON | | | KJFK | NEW YORK | NY (US) |
| STAR | PAWLING | | | KJFK | NEW YORK | NY (US) |
| STAR | NOBBI | | | KLGA | NEW YORK | NY (US) |
| STAR | VALRE | | | KHPN | WHITE PLAINS | NY (US) |
| STAR | SLATT | | | KPHL | PHILADELPHIA | PA (US) |
| STAR | SPUDS (RNAV) | | | KPHL | PHILADELPHIA | PA (US) |

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 6 **DATE OF REVISION:** 07/29/2010

**REASON FOR REVISION:**
ADDED PRECIPITOUS TERRAIN EVALUATION.
UPDATED FIX USE.
UPDATED FACILITY DATA.

**DEVELOPED BY:** **DATE:** 02/04/2010 **OFFICE:** AVN-110 **NAME:** FRANK JACKSON

**APPROVED BY:** **DATE:** 05/25/2010 **OFFICE:** AVN-110 **NAME:** GEORGE DAVIS

**SIGNATURE:**

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

QUALITY CHECKED

INFO ONLY

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** FARAN **STATE:** NY **COUNTRY:** US

**LATITUDE/LONGITUDE:** 411743.52N/0735257.16W **TYPE:** 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 | FEET | MRA | MAA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | WHITE PLAINS | I-HPN | LOC/DME | | 341.92 | 329.92 | 15.15 | 16.49 | | 3000 | 4500 |
| 2 | KINGSTON | IGN | VOR/DME | L | 199.00 | 187.00 | | 22.36 | | 3000 | 17500 |
| 3 | CARMEL | CMK | VOR/DME | L | 285.97 | 273.97 | | 13.65 | | 3000 | 17500 |

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

**REMARKS:**
I-HPN DME COORDINATES: 410438.47N/0734248.88W.

**FIX USE:**

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|---|---|
| IAP | ILS OR LOC RWY 16 | 1, 2, 3 | | KHPN | WHITE PLAINS | NY (US) |
| IAP | NDB RWY 16 | 2, 3 | | KHPN | WHITE PLAINS | NY (US) |
| STAR | VALRE | 1 | | KDXR | DANBURY | CT (US) |
| STAR | VALRE | 1 | | KHPN | WHITE PLAINS | NY (US) |

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 1 **DATE OF REVISION:** 09/23/2010

**REASON FOR REVISION:**
ADDED DISTANCE FROM FACILITY FOR FACILITIES 1,2 AND 3.
FACILITY 1 RADIAL CHANGED FROM 329.89 TO 329.92.
FAC 1, 2, 3 MRA CHANGED FROM 2500 TO 3000.
FAC 2 AND 3 MAA CHANGED FROM 11000 TO 17500 AND FAC 1 MAA FROM 8000 TO 4500.
UPDATED FIX USE.

**DEVELOPED BY:** **DATE:** 04/14/2010 **OFFICE:** AVN-110 **NAME:** FRANK JACKSON

**APPROVED BY:** **DATE:** 08/10/2010 **OFFICE:** AVN-110 **NAME:** GEORGE DAVIS

**SIGNATURE:**

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

QUALITY CHECKED

INFO ONLY

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** HAARP **STATE:** CT **COUNTRY:** US

**LATITUDE/LONGITUDE:** 410658.87N/0733536.54W **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 | LA GUARDIA | LGA | VOR/DME | L | 044.00 | 032.00 | 23.54 | 23.54 | | 3000 | 17500 |
| 2 | DEER PARK | DPK | VOR/DME | L | 338.00 | 326.00 | | 23.50 | | 3000 | 17500 |

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

**FIX USE:**

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|---|---|
| EN ROUTE | V123 | 1, 2 | | | | (US) |
| EN ROUTE | V157 | 1, 2 | | | | (US) |
| IAP | RNAV (RNP) Z RWY 22 | | | KLGA | NEW YORK | NY (US) |
| IAP | RNAV (GPS) Y RWY 34 | | | KHPN | WHITE PLAINS | NY (US) |
| IAP | SOUND VISUAL RWY 34 | 1, 2 | | KHPN | WHITE PLAINS | NY (US) |
| STAR | VALRE | 1, 2 | | KDXR | DANBURY | CT (US) |
| STAR | HAARP | 1, 2 | | KLGA | NEW YORK | NY (US) |
| STAR | NOBBI | 1, 2 | | KLGA | NEW YORK | NY (US) |
| STAR | VALRE | 1, 2 | | KHPN | WHITE PLAINS | NY (US) |

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 5 **DATE OF REVISION:** 09/23/2010

**REASON FOR REVISION:**
DELETED FAC 3 FOR WP DESCRIPTION.
ADDED DISTANCE FROM FACILITY TO FAC 1 AND 2.
UPDATED FIX USE.

**DEVELOPED BY:** **DATE:** 05/03/2010 **OFFICE:** AVN-110 **NAME:** FRANK JACKSON

**APPROVED BY:** **DATE:** 08/10/2010 **OFFICE:** AVN-110 **NAME:** GEORGE DAVIS

**SIGNATURE:**

**DISTRIBUTION:**
**NFDC**
**FPO:** EST
**ARTCC:** ZBW
**ATC FACILITY:** NY APP CON
**OTHER:** HPN ATCT, LGA ATCT

QUALITY CHECKED

INFO ONLY

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** LAKE HENRY VORTAC **STATE:** PA **COUNTRY:** US

**LATITUDE/LONGITUDE:** 412832.80N/0752857.46W **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 | LAKE HENRY | LHY | VORTAC | L | | | | | | | 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 | E | LHY | VORTAC | 088.00 | 268.00 | R | 1-1 1/2 | | 4000 | 17500 | 4 | 16 |
| 2 | N | LHY | VORTAC | 359.00 | 179.00 | L | 1-1 1/2 | | 4000 | 10000 | 4 | 9 |
| 3 | E | | WP | 071.51 | 251.51 | R | | 4 | 4000 | 6000 | 5 | 6 |

**CONTROLLING OBSTRUCTIONS:**

| PAT | AIRSPEED | OBSTRUCTION | COORDINATES | ELEVATION | ACCURACY CODE |
|---|---|---|---|---|---|
| 1 | 200 | WINDMILL (42-003138) | 413352.78N/0752638.06W | 2622 | 5E |
| 2 | 200 | WINDMILL (42-003128) | 413539.59N/0752556.03W | 2691 | 5E |
| 3 | 200 | WINDMILL (42-003128) | 413539.59N/0752556.03W | 2691 | 5E |

**REASON FOR NONSTANDARD HOLDING:**
PAT 2 MAXIMUM SEPARATION WITH V126

**REMARKS:**
HOLDING LIMITED TO ESTABLISHED PATTERNS
CHART PAT 1 ENROUTE LOW
PRECIPITOUS TERRAIN EVALUATION COMPLETED

**FIX USE:**

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|---|---|---|---|---|---|---|
| DP | STEWART | | | KSWF | NEWBURGH | NY (US) |
| DP | DUTCHESS | | | KPOU | POUGHKEEPSIE | NY (US) |
| DP | SCRANTON | | | KAVP | WILKES-BARRE/SCRANTON | PA (US) |
| DP | TAKE OFF MINIMUMS | | | KAVP | WILKES-BARRE/SCRANTON | PA (US) |
| EN ROUTE | J-36 | | | | | (US) |
| EN ROUTE | V-106 | | | | | (US) |
| EN ROUTE | V-126 | | | | | (US) |
| EN ROUTE | V-149 | | | | | (US) |
| EN ROUTE | V-153 | | | | | (US) |
| EN ROUTE | V-408 | | | | | (US) |
| EN ROUTE | V-449 | | | | | (US) |
| EN ROUTE | V-58 | | 1 | | | (US) |
| EN ROUTE | V-93 | | 1 | | | (US) |
| IAP | ILS OR LOC RWY 34 | | | KBGM | BINGHAMTON | NY (US) |
| IAP | VOR-A | | | KN30 | HONESDALE | PA (US) |
| IAP | VOR RWY 13 | | | KMPO | MOUNT POCONO | PA (US) |
| IAP | RNAV (GPS) A | | 3 | K70N | STERLING | PA (US) |
| IAP | VOR-B | | 2 | K70N | STERLING | PA (US) |
| IAP | RNAV (GPS) RWY 25 | | | KWBW | WILKES-BARRE | PA (US) |
| IAP | ILS OR LOC/DME RWY 22 | | | KAVP | WILKES-BARRE/SCRANTON | PA (US) |
| IAP | ILS OR LOC/DME RWY 4 | | 1 | KAVP | WILKES-BARRE/SCRANTON | PA (US) |
| IAP | RNAV (GPS) RWY 22 | | | KAVP | WILKES-BARRE/SCRANTON | PA (US) |
| IAP | RNAV (GPS) RWY 4 | | 3 | KAVP | WILKES-BARRE/SCRANTON | PA (US) |
| STAR | VALRE | | | KDXR | DANBURY | CT (US) |
| STAR | HELON | | | KEWR | NEWARK | NJ (US) |
| STAR | KINGSTON | 1 | | KJFK | NEW YORK | NY (US) |
| STAR | HUDSON | | | KSWF | NEWBURGH | NY (US) |
| STAR | RUBER | | | KSWF | NEWBURGH | NY (US) |
| STAR | HUDSON | | | KPOU | POUGHKEEPSIE | NY (US) |
| STAR | RUBER | | | KPOU | POUGHKEEPSIE | NY (US) |
| STAR | VALRE | | | KHPN | WHITE PLAINS | NY (US) |
| STAR | SLATT | | | KPHL | PHILADELPHIA | PA (US) |

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 7 **DATE OF REVISION:** 10/20/2011

**REASON FOR REVISION:**
PAT 2 MAX HOLDING ALTITUDE CHANGED FROM 24000 TO 10000; PAT 2 TEMPLATE CHANGED FROM 19 TO 9.

QUALITY CHECKED

| | | | |
|---|---|---|---|
| **DEVELOPED BY:** | **DATE:** 07/18/2011 | **OFFICE:** AJV-352 | **NAME:** DONALD SMITH (SEAN BARBEE) |
| **APPROVED BY:** | **DATE:** 08/23/2011 | **OFFICE:** AJV-352 | **NAME:** DONALD SMITH |
| | **SIGNATURE:** | | |

**DISTRIBUTION:**
**NFDC**
**FPO:** EST
**ARTCC:** ZNY
**ATC FACILITY:** AVP APP CON
**OTHER:**

QUALITY CHECKED

INFO ONLY

# RADIO FIX AND HOLDING DATA RECORD

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

**LATITUDE/LONGITUDE:** 414611.18N/0733601.99W **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 | PAWLING | PWL | VOR/DME | L | | | | | | | 17500 |

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

**PATTERNS:**

| PAT | DIR | IDENT | TYPE | RAD/CRS/BRG | CRS INBOUND | TURN (L OR R) | LEG LENGTH TIME | LEG LENGTH DME | HOLDING ALTITUDES MIN | HOLDING ALTITUDES MAX | TEMPLATES MIN | TEMPLATES MAX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | S | PWL | VOR/DME | 174.00 | 354.00 | R | 1 | | 3000 | 8000 | 4 | 8 |

**CONTROLLING OBSTRUCTIONS:**

| PAT | AIRSPEED | OBSTRUCTION | COORDINATES | ELEVATION | ACCURACY CODE |
|---|---|---|---|---|---|
| 1 | 200 | AAO | 414236.00N/0733106.00W | 1677 | 4E |

**HOLDING RESTRICTIONS:**
HOLDING LIMITED TO ESTABLISHED PATTERN.

**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 | TAKEOFF MINIMUMS | | | K20N | KINGSTON | NY (US) |
| DP | STEWART | | | KSWF | NEWBURGH | NY (US) |
| DP | DUTCHESS | | | KPOU | POUGHKEEPSIE | NY (US) |
| EN ROUTE | V106 | | | | | (US) |
| EN ROUTE | V34 | | | | | (US) |
| EN ROUTE | V39 | | | | | (US) |
| EN ROUTE | V405 | | | | | (US) |
| EN ROUTE | V433 | | | | | (US) |
| EN ROUTE | V44 | | | | | (US) |
| EN ROUTE | V93 | | | | | (US) |
| IAP | NDB RWY 18 | | | KOXC | OXFORD | CT (US) |
| IAP | RNAV (GPS) RWY 18 | | | KOXC | OXFORD | CT (US) |
| IAP | NDB-A | | | KGBR | GREAT BARRINGTON | MA (US) |
| IAP | VOR OR GPS-A | | | K20N | KINGSTON | NY (US) |
| IAP | RNAV (GPS) RWY 27 | | | KSWF | NEWBURGH | NY (US) |
| IAP | ILS OR LOC RWY 6 | | 1 | KPOU | POUGHKEEPSIE | NY (US) |
| IAP | VOR-A | | | KPOU | POUGHKEEPSIE | NY (US) |
| IAP | VOR/DME RWY 24 | | | KPOU | POUGHKEEPSIE | NY (US) |
| IAP | VOR OR GPS RWY 1 | | | K46N | RED HOOK | NY (US) |
| STAR | BRIDEPORT | | | KBDR | BRIDGEPORT | CT (US) |
| STAR | DENNA | | | KBDR | BRIDGEPORT | CT (US) |
| STAR | NOBBI | | | KDXR | DANBURY | CT (US) |
| STAR | VALRE | | | KDXR | DANBURY | CT (US) |
| STAR | BRIDGEPORT | | | KHVN | NEW HAVEN | CT (US) |
| STAR | DENNA | | | KHVN | NEW HAVEN | CT (US) |
| STAR | BRIDGEPORT | | | KOXC | OXFORD | CT (US) |
| STAR | DENNA | | | KOXC | OXFORD | CT (US) |
| STAR | HELON | | | KEWR | NEWARK | NJ (US) |
| STAR | SHAFF | | | KEWR | NEWARK | NJ (US) |
| STAR | PAWLING | | | KFRG | FARMINGDALE | NY (US) |
| STAR | LOVES | | | KISP | ISLIP | NY (US) |
| STAR | PAWLING | | | 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 | | 1 | KSWF | NEWBURGH | NY (US) |
| STAR | HUDSON | | | KPOU | POUGHKEEPSIE | NY (US) |
| STAR | NOBBI | | | KHPN | WHITE PLAINS | NY (US) |
| STAR | VALRE | | | KHPN | WHITE PLAINS | NY (US) |

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 13 **DATE OF REVISION:** 06/03/2010

QUALITY CHECKED

**REASON FOR REVISION:**
UPDATED FIX USE.
MOVED HOLDING NOTE FROM REMARKS TO HOLDING RESTRICTIONS.

| | | | |
|---|---|---|---|
| **DEVELOPED BY:** | **DATE:** 04/20/2009 | **OFFICE:** AVN-101 | **NAME:** EUGENE NEWTON (CURT ULEN) |
| **APPROVED BY:** | **DATE:** 04/07/2010 | **OFFICE:** AVN-110 | **NAME:** GEORGE DAVIS |
| | **SIGNATURE:** | | |

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

# 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

INFO ONLY

**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 1