

# RADIO FIX AND HOLDING DATA RECORD

NAME: DUPONT VORTAC

STATE: DE

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 394041.30N/0753625.51W

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<br>NM FEET | MRA | MAA   |
|-----|--------|-------|--------|-------|---------|----------|-----|--------------------------|-----|-------|
| 1   | DUPONT | DQO   | VORTAC | L     |         |          |     |                          |     | 17500 |

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:

| PAT | DIR | IDENT | TYPE   | RAD/CRS/BRG | CRS<br>INBOUND | TURN<br>(L OR R) | LEG LENGTH<br>TIME DME | HOLDING ALTITUDES<br>MIN MAX | TEMPLATES<br>MIN MAX |
|-----|-----|-------|--------|-------------|----------------|------------------|------------------------|------------------------------|----------------------|
| 1   | SW  | DQO   | VORTAC | 233.00      | 053.00         | L                | 1                      | 2000 14000                   | 6 8                  |
| 2   | E   | DQO   | VORTAC | 068.00      | 248.00         | L                | 1                      | 3000 8000                    | 4 8                  |
| 3   | SW  |       | WP     | 235.00      | 055.00         | L                |                        | 4000 12000                   | 5 10                 |

CONTROLLING OBSTRUCTIONS:

| PAT | AIRSPEED | OBSTRUCTION       | COORDINATES            | ELEVATION | ACCURACY CODE |
|-----|----------|-------------------|------------------------|-----------|---------------|
| 1   | 210      | STACK (10-000014) | 393536.00N/0753803.00W | 560       | 5D            |
| 2   | 200      | TOWER (10-000182) | 394629.40N/0753146.00W | 515       | 5D            |
| 3   | 210      | STACK (10-000014) | 393536.00N/0753803.00W | 560       | 5D            |

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST  
PAT 2 ATC REQUEST  
PAT 3 ATC REQUEST

HOLDING RESTRICTIONS:

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

REMARKS:

ASSIGNED FACILITY MAGVAR: 10W (1980).  
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

| USE TYPE | USE TITLE                   | FAC | PAT | AIRPORT IDENT | CITY          | STATE   |
|----------|-----------------------------|-----|-----|---------------|---------------|---------|
| DP       | DOCTR (RNAV)                |     |     | KDCA          | WASHINGTON    | DC (US) |
| DP       | SWANN                       |     |     | KBWI          | BALTIMORE     | MD (US) |
| DP       | ATLANTIC CITY               |     |     | KACY          | ATLANTIC CITY | NJ (US) |
| DP       | LEEAH                       |     |     | KMIV          | MILLVILLE     | NJ (US) |
| DP       | PHILADELPHIA                |     |     | KPHL          | PHILADELPHIA  | PA (US) |
| EN ROUTE | V166                        |     |     |               |               | (US)    |
| EN ROUTE | V170                        |     | 1   |               |               | (US)    |
| EN ROUTE | V252                        |     |     |               |               | (US)    |
| EN ROUTE | V29                         |     |     |               |               | (US)    |
| EN ROUTE | V433                        |     | 1   |               |               | (US)    |
| EN ROUTE | V469                        |     |     |               |               | (US)    |
| EN ROUTE | V479                        |     |     |               |               | (US)    |
| IAP      | NDB-A                       |     |     | KEVY          | MIDDLETOWN    | DE (US) |
| IAP      | RNAV (GPS) RWY 17           |     |     | KEVY          | MIDDLETOWN    | DE (US) |
| IAP      | RNAV (GPS) RWY 19           |     |     | KILG          | WILMINGTON    | DE (US) |
| IAP      | VOR RWY 27                  |     |     | KILG          | WILMINGTON    | DE (US) |
| IAP      | VOR RWY 9                   |     |     | KILG          | WILMINGTON    | DE (US) |
| IAP      | RNAV (GPS) RWY 29           |     |     | KMQS          | COATESVILLE   | PA (US) |
| IAP      | ILS OR LOC RWY 9L           |     |     | KPHL          | PHILADELPHIA  | PA (US) |
| IAP      | ILS RWY 9L (SA CAT II)      |     | 2   | KPHL          | PHILADELPHIA  | PA (US) |
| IAP      | ILS V RWY 9R (CONVERGING)   |     | 2   | KPHL          | PHILADELPHIA  | PA (US) |
| IAP      | ILS Z OR LOC Z RWY 9R       |     | 2   | KPHL          | PHILADELPHIA  | PA (US) |
| IAP      | ILS Z RWY 9R (CAT II & III) |     | 2   | KPHL          | PHILADELPHIA  | PA (US) |
| IAP      | ILS Z RWY 9R (SA CAT I)     |     | 2   | KPHL          | PHILADELPHIA  | PA (US) |
| IAP      | RIVER VISUAL RWY 9L/9R      |     |     | KPHL          | PHILADELPHIA  | PA (US) |
| IAP      | RNAV (GPS) Y RWY 9L         |     |     | KPHL          | PHILADELPHIA  | PA (US) |
| IAP      | RNAV (GPS) Y RWY 9R         |     |     | KPHL          | PHILADELPHIA  | PA (US) |
| IAP      | RNAV (RNP) Z RWY 9L         |     |     | KPHL          | PHILADELPHIA  | PA (US) |
| IAP      | RNAV (RNP) Z RWY 9R         |     |     | KPHL          | PHILADELPHIA  | PA (US) |
| STAR     | DELRO                       |     |     | KIAD          | WASHINGTON    | DC (US) |
| STAR     | BRAND (RNAV)                |     | 3   | KEWR          | NEWARK        | NJ (US) |
| STAR     | PHLBO (RNAV)                |     |     | KEWR          | NEWARK        | NJ (US) |
| STAR     | APPLE (RNAV)                |     | 3   | KLGA          | NEW YORK      | NY (US) |

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 18

DATE OF REVISION: 06/15/2023

QUALITY  
14  
CHECKED

**REASON FOR REVISION:**

1. FIX USE SECTION: REMOVED DYLIN STAR @ KEWR.

**INITIATED BY:****DATE:****ORGANIZATION:****NAME:****OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A423

**NAME:** RAYMOND JOHNSON**APPROVED BY:****DATE:** 06/15/2023**OFFICE:** AJV-A420**NAME:** MARLON ROBINSON**SIGNATURE:** *Digitally signed by***ALLAN WILL**

Mar 30, 2023

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: DYLIN

STATE: NJ

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 401714.89N/0745135.25W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

**FIX USE:**

USE TYPE  
DP  
STAR

USE TITLE  
CENTRAL  
PHLBO (RNAV)

FAC

PAT

AIRPORT IDENT  
47N  
KEWR

CITY  
MANVILLE  
NEWARK

STATE  
NJ (US)  
NJ (US)

REQUIRED CHARTING: DP, STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 06/15/2023

**REASON FOR REVISION:**

1. TYPE: REMOVED INT AND DME.
2. FIX MAKE-UP FACILITIES SECTION: REMOVED FAC1 ARD VOR/DME AND FAC2 RBV VORTAC.
3. FIX USE SECTION: REMOVED DYLIN STAR @ KEWR.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: RAYMOND JOHNSON

APPROVED BY:

DATE: 06/15/2023

OFFICE: AJV-A420

NAME: MARLON ROBINSON

SIGNATURE:

*Digitally signed by*

**ALLAN WILL**

Mar 30, 2023

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: FLAT ROCK VORTAC      STATE: VA      COUNTRY: US      ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 373142.63N/0774941.59W      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<br>NM FEET | MRA | MAA   |
|-----|-----------|-------|--------|-------|---------|----------|-----|--------------------------|-----|-------|
| 1   | FLAT ROCK | FAK   | VORTAC | H     |         |          |     |                          |     | 45000 |

HOLDING:      HOLDING TYPE OF ACTION: NO CHANGE

## PATTERNS:

| PAT | DIR | IDENT | TYPE   | RAD/CRS/BRG | CRS<br>INBOUND | TURN<br>(L OR R) | LEG TIME | LENGTH<br>DME | HOLDING ALTITUDES<br>MIN MAX | TEMPLATES<br>MIN MAX |
|-----|-----|-------|--------|-------------|----------------|------------------|----------|---------------|------------------------------|----------------------|
| 1   | SW  | FAK   | VORTAC | 218.80      | 038.80         | L                | 1 1/2    |               | 21000 37000                  | 18 26                |

## REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN

## REMARKS:

SECTIONAL ADDED PER ATC REQUEST  
PAT1 - CHART EN ROUTE HOLDING AND CONTROLLER HIGH  
HOLDING PATTERN #1 REQUESTED BY ATC.  
ASSIGNED FACILITY MAG VAR: 6W (1965).

## FIX USE:

| USE TYPE | USE TITLE                 | FAC | PAT | AIRPORT IDENT | CITY             | STATE   |
|----------|---------------------------|-----|-----|---------------|------------------|---------|
| DP       | HICKORY (OBSTACLE)        |     |     | KHKY          | HICKORY          | NC (US) |
| DP       | RALEIGH                   |     |     | KRDU          | RALEIGH/DURHAM   | NC (US) |
| DP       | PACKK                     |     |     | KRDU          | RALEIGH/DURHAM   | NC (US) |
| DP       | BLACKSTONE                |     |     | KBKT          | BLACKSTONE       | VA (US) |
| DP       | HENRY                     |     |     | KPHF          | NEWPORT NEWS     | VA (US) |
| DP       | KISRR                     |     |     | KORF          | NORFOLK          | VA (US) |
| DP       | READE                     |     |     | KRIC          | RICHMOND         | VA (US) |
| EN ROUTE | HIGH                      |     | 1   |               |                  | (US)    |
| EN ROUTE | T315                      |     |     |               |                  | (US)    |
| EN ROUTE | V155                      |     |     |               |                  | (US)    |
| EN ROUTE | V16                       |     |     |               |                  | (US)    |
| EN ROUTE | V223                      |     |     |               |                  | (US)    |
| EN ROUTE | V260                      |     |     |               |                  | (US)    |
| EN ROUTE | V290                      |     |     |               |                  | (US)    |
| EN ROUTE | V3                        |     |     |               |                  | (US)    |
| IAP      | RNAV (GPS)-A              |     |     | W81           | CREWE            | VA (US) |
| IAP      | RNAV (GPS) RWY 21         |     |     | KFVX          | FARMVILLE        | VA (US) |
| IAP      | RNAV (GPS) RWY 15         |     |     | KFCI          | RICHMOND         | VA (US) |
| IAP      | ILS OR LOC RWY 16         |     |     | KRIC          | RICHMOND         | VA (US) |
| IAP      | ILS OR LOC RWY 2          |     |     | KRIC          | RICHMOND         | VA (US) |
| IAP      | ILS OR LOC RWY 34         |     |     | KRIC          | RICHMOND         | VA (US) |
| IAP      | ILS RWY 34 (CAT II & III) |     |     | KRIC          | RICHMOND         | VA (US) |
| IAP      | ILS RWY 34 (SA CAT I)     |     |     | KRIC          | RICHMOND         | VA (US) |
| IAP      | RNAV (GPS) Z RWY 16       |     |     | KRIC          | RICHMOND         | VA (US) |
| IAP      | RNAV (GPS) Z RWY 2        |     |     | KRIC          | RICHMOND         | VA (US) |
| IAP      | RNAV (GPS) Z RWY 20       |     |     | KRIC          | RICHMOND         | VA (US) |
| IAP      | RNAV (GPS) Z RWY 34       |     |     | KRIC          | RICHMOND         | VA (US) |
| IAP      | VOR RWY 02                |     |     | KRIC          | RICHMOND         | VA (US) |
| IAP      | VOR RWY 34                |     |     | KRIC          | RICHMOND         | VA (US) |
| IAP      | LOC RWY 16                |     |     | KOFP          | RICHMOND/ASHLAND | VA (US) |
| IAP      | VOR RWY 16                |     |     | KOFP          | RICHMOND/ASHLAND | VA (US) |
| STAR     | IRONS                     |     |     | KDCA          | WASHINGTON       | DC (US) |
| STAR     | COATT                     |     |     | KIAD          | WASHINGTON       | DC (US) |
| STAR     | TERKS                     |     |     | KCPK          | NORFOLK          | VA (US) |
| STAR     | TERKS                     |     |     | KNGU          | NORFOLK          | VA (US) |
| STAR     | TERKS                     |     |     | KORF          | NORFOLK          | VA (US) |
| STAR     | TERKS                     |     |     | KPVG          | NORFOLK          | VA (US) |
| STAR     | TERKS                     |     |     | KSFO          | SUFFOLK          | VA (US) |
| STAR     | TERKS                     |     |     | KNTU          | VIRGINIA BEACH   | VA (US) |

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 26

DATE OF REVISION: 06/15/2023

REASON FOR REVISION:

QUALITY  
14  
CHECKED

1. REMARKS: ADDED PAT1 - CHART EN ROUTE HOLDING AND CONTROLLER HIGH
2. FIX USE SECTION: REMOVED DYLIN STAR @ KEWR.
3. FIX USE: ADDED EN ROUTE HIGH PATTERN 1 USAGE.
4. FIX USE SECTION: REMOVED PAATS STAR @ KTTN, KMQS, KPHL, KPNE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: RAYMOND JOHNSON

APPROVED BY:

DATE: 06/15/2023

OFFICE: AJV-A420

NAME: MARLON ROBINSON

SIGNATURE:

*Digitally signed by***ALLAN WILL**

Mar 30, 2023

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: FUBRR

STATE: MD

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 391557.35N/0760541.59W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE  
STAR

USE TITLE  
PHLBO (RNAV)

FAC

PAT

AIRPORT IDENT  
KEWR

CITY  
NEWARK

STATE  
NJ (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 06/15/2023

REASON FOR REVISION:

1. TYPE: REMOVED INT AND DME.
2. FIX MAKE-UP FACILITIES SECTION: REMOVED FAC1 OTT VORTAC AND FAC2 BAL VORTAC.
3. EXPANDED SERVICE VOLUME (ESV) SECTION: REMOVED OTT R-052 AND BAL R-089.
4. FIX USE SECTION: REMOVED DYLIN STAR @ KEWR.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: RAYMOND JOHNSON

APPROVED BY:

DATE: 06/15/2023

OFFICE: AJV-A420

NAME: MARLON ROBINSON

SIGNATURE:

*Digitally signed by*

**ALLAN WILL**

Mar 30, 2023

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: GORDONSVILLE VORTAC      STATE: VA      COUNTRY: US      ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 380048.96N/0780910.90W      TYPE:

AIRSPACE DOCKET:      FIX TYPE OF ACTION: NO CHANGE

## FIX MAKE-UP FACILITIES:

| FAC | NAME         | IDENT | TYPE   | CLASS | MAG BRG | TRUE BRG | DME | DIST FROM FAC NM | FEET | MRA | MAA   |
|-----|--------------|-------|--------|-------|---------|----------|-----|------------------|------|-----|-------|
| 1   | GORDONSVILLE | GVE   | VORTAC | H     |         |          |     |                  |      |     | 45000 |

HOLDING:      HOLDING TYPE OF ACTION: NO CHANGE

## PATTERNS:

| PAT | DIR | IDENT | TYPE   | RAD/CRS/BRG | CRS INBOUND | TURN (L OR R) | LEG TIME | LENGTH DME | HOLDING ALTITUDES MIN | MAX   | TEMPLATES MIN | MAX |
|-----|-----|-------|--------|-------------|-------------|---------------|----------|------------|-----------------------|-------|---------------|-----|
| 1   | SW  | GVE   | VORTAC | 213.00      | 033.00      | R             | 1        |            | 4000                  | 7000  | 4             | 8   |
| 2   | S   | GVE   | VORTAC | 182.00      | 002.00      | R             | 1        |            | 2900                  | 7000  | 4             | 8   |
| 3   | SW  |       | WP     | 213.00      | 033.00      | R             |          | 4          | 4000                  | 7000  | 5             | 9   |
| 4   | S   |       | WP     | 182.00      | 002.00      | R             |          | 4          | 2900                  | 7000  | 5             | 9   |
| 5   | W   |       | WP     | 273.00      | 093.00      | L             |          | 10         | 24000                 | 45000 | 20            | 30  |

## CONTROLLING OBSTRUCTIONS:

| PAT | AIRSPEED | OBSTRUCTION       | COORDINATES            | ELEVATION | ACCURACY CODE |
|-----|----------|-------------------|------------------------|-----------|---------------|
| 1   | 200      | TOWER (51-001287) | 375659.32N/0780641.38W | 839       | 1A            |
| 2   | 200      | TOWER (51-001287) | 375659.32N/0780641.38W | 839       | 1A            |
| 3   | 200      | TOWER (51-001287) | 375659.32N/0780641.38W | 839       | 1A            |
| 4   | 200      | TOWER (51-001287) | 375659.32N/0780641.38W | 839       | 1A            |
| 4   | 310      | AAO               | 380733.00N/0781709.00W | 1998      | 4E            |

## REASON FOR NONSTANDARD HOLDING:

PAT 5 ATC REQUEST

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S)

## PROCEDURES REQUIRING CLIMB-IN-HOLD:

| PAT | PROCEDURE TITLE   | AIRPORT IDENT | CITY   | STATE   |
|-----|-------------------|---------------|--------|---------|
| 4   | RNAV (GPS) RWY 27 | KLKU          | LOUISA | VA (US) |

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

ASSIGNED FACILITY MAGVAR: 6W (1965).

PAT 4: 310 KIAS OBSTACLE LIES IN SECONDARY AREA 10594 FT FROM EDGE OF PRIMARY (PRIMARY EQUIVALENT 1062.01 MSL).

## FIX USE:

| USE TYPE | USE TITLE           | FAC | PAT | AIRPORT IDENT | CITY            | STATE   |
|----------|---------------------|-----|-----|---------------|-----------------|---------|
| DP       | NATIONAL            |     |     | KDCA          | WASHINGTON      | DC (US) |
| DP       | CAPITAL             |     |     | KIAD          | WASHINGTON      | DC (US) |
| DP       | ARSENAL             |     |     | KHEF          | MANASSAS        | VA (US) |
| DP       | READE               |     |     | KRIC          | RICHMOND        | VA (US) |
| EN ROUTE | Q127                |     |     |               |                 | (US)    |
| EN ROUTE | Q34                 |     | 5   |               |                 | (US)    |
| EN ROUTE | Q75                 |     |     |               |                 | (US)    |
| EN ROUTE | V3                  |     |     |               |                 | (US)    |
| EN ROUTE | V375                |     |     |               |                 | (US)    |
| EN ROUTE | V38                 |     |     |               |                 | (US)    |
| EN ROUTE | V39                 |     |     |               |                 | (US)    |
| EN ROUTE | V453                |     |     |               |                 | (US)    |
| EN ROUTE | V473                |     |     |               |                 | (US)    |
| EN ROUTE | V476                |     |     |               |                 | (US)    |
| IAP      | RNAV (GPS) RWY 8    |     |     | 7W4           | BUMPASS         | VA (US) |
| IAP      | ILS OR LOC RWY 3    |     | 1   | KCHO          | CHARLOTTESVILLE | VA (US) |
| IAP      | RNAV (GPS) RWY 3    |     | 3   | KCHO          | CHARLOTTESVILLE | VA (US) |
| IAP      | RNAV (GPS) Y RWY 21 |     | 3   | KCHO          | CHARLOTTESVILLE | VA (US) |
| IAP      | RNAV (GPS) Z RWY 21 |     | 3   | KCHO          | CHARLOTTESVILLE | VA (US) |
| IAP      | LOC RWY 4           |     |     | KCJR          | CULPEPER        | VA (US) |
| IAP      | RNAV (GPS) RWY 24   |     |     | KEZF          | FREDERICKSBURG  | VA (US) |
| IAP      | LOC RWY 27          |     | 2   | KLKU          | LOUISA          | VA (US) |
| IAP      | RNAV (GPS) RWY 27   |     | 4   | KLKU          | LOUISA          | VA (US) |
| IAP      | RNAV (GPS) RWY 8    |     |     | KOMH          | ORANGE          | VA (US) |
| IAP      | VOR/DME-A           |     | 2   | KOMH          | ORANGE          | VA (US) |
| STAR     | IRONS               |     |     | KDCA          | WASHINGTON      | DC (US) |
| STAR     | JAIKE (RNAV)        |     | 5   | KCDW          | CALDWELL        | NJ (US) |
| STAR     | JAIKE (RNAV)        |     | 5   | KLDJ          | LINDEN          | NJ (US) |
| STAR     | JAIKE (RNAV)        |     | 5   | 47N           | MANVILLE        | NJ (US) |
| STAR     | JAIKE (RNAV)        |     | 5   | KMMU          | MORRISTOWN      | NJ (US) |
| STAR     | PHLBO (RNAV)        |     | 5   | KEWR          | NEWARK          | NJ (US) |
| STAR     | JAIKE (RNAV)        |     | 5   | KSMQ          | SOMERVILLE      | NJ (US) |
| STAR     | JAIKE (RNAV)        |     | 5   | KTEB          | TETERBORO       | NJ (US) |
| STAR     | PAATS (RNAV)        |     | 5   | KTTN          | TRENTON         | NJ (US) |

QUALITY  
14  
CHECKED

|      |              |   |      |              |         |
|------|--------------|---|------|--------------|---------|
| STAR | KORRY        |   | KLGA | NEW YORK     | NY (US) |
| STAR | PROUD (RNAV) | 5 | KLGA | NEW YORK     | NY (US) |
| STAR | PAATS (RNAV) | 5 | KMQS | COATESVILLE  | PA (US) |
| STAR | PAATS (RNAV) | 5 | KPHL | PHILADELPHIA | PA (US) |
| STAR | PAATS (RNAV) | 5 | KPNE | PHILADELPHIA | PA (US) |

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 29

**DATE OF REVISION:** 06/15/2023

**REASON FOR REVISION:**

1. FIX USE: REMOVED DYLIN STAR @ KEWR.
2. FIX USE: ADDED STAR PROUD (RNAV) @ KLGA.

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A423

**NAME:** RAYMOND JOHNSON

**APPROVED BY:**

**DATE:** 06/15/2023

**OFFICE:** AJV-A420

**NAME:** MARLON ROBINSON

**SIGNATURE:**

*Digitally signed by*

**ALLAN WILL**

Mar 30, 2023

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: GRITY

STATE: NJ

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 403056.12N/0741636.95W

TYPE: WP, INT, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

## FIX MAKE-UP FACILITIES:

| FAC | NAME         | IDENT | TYPE    | CLASS | MAG<br>BRG | TRUE<br>BRG | DME   | DIST FROM FAC<br>NM | FEET | MRA  | MAA   |
|-----|--------------|-------|---------|-------|------------|-------------|-------|---------------------|------|------|-------|
| 1   | NEWARK       | I-EZA | LOC/DME |       | 218.83     | 205.83      | 12.00 | 12.58               |      | 2800 | 4500  |
| 2   | KENNEDY      | JFK   | VOR/DME | H     | 265.24     | 253.24      | 24.16 | 24.16               |      | 2800 | 17500 |
| 3   | ROBBINSVILLE | RBV   | VORTAC  | H     | 037.97     | 027.97      |       | 21.28               |      | 2800 | 17500 |

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

NEWARK (FAC 1) AND KENNEDY (FAC 2) USED TO ESTABLISH FIX COORDINATES.  
I-EZA DME COORDINATES: 404143.55N/0740941.63W (LOCATED AT I-LSQ (RWY 22L) GS ANTENNA)

## FIX USE:

| USE TYPE | USE TITLE            | FAC     | PAT | AIRPORT IDENT | CITY     | STATE   |
|----------|----------------------|---------|-----|---------------|----------|---------|
| EN ROUTE | V433                 | 1, 2, 3 |     |               |          | (US)    |
| IAP      | BRIDGE VISUAL RWY 29 |         |     | KEWR          | NEWARK   | NJ (US) |
| IAP      | GLS RWY 4R           |         |     | KEWR          | NEWARK   | NJ (US) |
| IAP      | ILS OR LOC RWY 4R    | 1, 2, 3 |     | KEWR          | NEWARK   | NJ (US) |
| IAP      | ILS RWY 04R(CAT II)  | 1, 2, 3 |     | KEWR          | NEWARK   | NJ (US) |
| IAP      | ILS RWY 04R(CAT III) | 1, 2, 3 |     | KEWR          | NEWARK   | NJ (US) |
| IAP      | RNAV (RNP) Z RWY 29  |         |     | KEWR          | NEWARK   | NJ (US) |
| IAP      | RNAV VISUAL RWY 29   |         |     | KEWR          | NEWARK   | NJ (US) |
| IAP      | RNAV (RNP) Z RWY 4   |         |     | KLGA          | NEW YORK | NY (US) |
| STAR     | PHLBO (RNAV)         |         |     | KEWR          | NEWARK   | NJ (US) |

REQUIRED CHARTING: STAR, IAP, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 14

DATE OF REVISION: 06/15/2023

## REASON FOR REVISION:

1. CHANGED REMARKS TO READ NEWARK (FAC 1) AND KENNEDY (FAC 2) USED TO ESTABLISH FIX COORDINATES.
2. FIX USE SECTION: REMOVED DYLIN STAR AT KEWR.
3. FIX USE: UPDATED IAP TO READ ILS OR LOC RWY 4R AT KEWR.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: RAYMOND JOHNSON

APPROVED BY:

DATE: 06/15/2023

OFFICE: AJV-A420

NAME: MARLON ROBINSON

SIGNATURE:

*Digitally signed by*

**ALLAN WILL**

Mar 30, 2023

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: MERSR

STATE: NJ

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 401836.44N/0744940.84W

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 | MRA  | MAA   |
|-----|--------------|-------|---------|-------|---------|----------|-------|------------------|------|-------|
| 1   | YARDLEY      | ARD   | VOR/DME | L     | 057.01  | 047.01   | 4.99  | 4.99             | 3000 | 17500 |
| 2   | ROBBINSVILLE | RBV   | VORTAC  | H     | 303.00  | 293.00   | 16.60 | 16.60            | 3000 | 17500 |

HOLDING:

HOLDING TYPE OF ACTION: MODIFY

## PATTERNS:

| PAT | DIR | IDENT | TYPE    | RAD/CRS/BRG | CRS INBOUND | TURN (L OR R) | LEG LENGTH TIME | DME | HOLDING ALTITUDES MIN | MAX  | TEMPLATES MIN | MAX |
|-----|-----|-------|---------|-------------|-------------|---------------|-----------------|-----|-----------------------|------|---------------|-----|
| 1   | SW  | ARD   | VOR/DME | 057.01      | 057.01      | R             | 1               |     | 5000                  | 8000 | 7             | 7   |

## CONTROLLING OBSTRUCTIONS:

| PAT | AIRSPEED | OBSTRUCTION | COORDINATES            | ELEVATION | ACCURACY CODE |
|-----|----------|-------------|------------------------|-----------|---------------|
| 1   | 210      | AAO         | 402106.00N/0744839.00W | 699       | 4E            |

## HOLDING RESTRICTIONS:

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

## REMARKS:

YARDLEY (FAC 1) AND ROBBINSVILLE (FAC 2) USED TO ESTABLISH FIX COORDINATES.  
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

## FIX USE:

| USE TYPE | USE TITLE    | FAC  | PAT | AIRPORT IDENT | CITY   | STATE   |
|----------|--------------|------|-----|---------------|--------|---------|
| EN ROUTE | V433         | 1, 2 | 1   | KEWR          | NEWARK | (US)    |
| STAR     | PHLBO (RNAV) |      |     |               |        | NJ (US) |

REQUIRED CHARTING: STAR, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7

DATE OF REVISION: 06/15/2023

## REASON FOR REVISION:

1. FIX USE SECTION: REMOVED DYLIN STAR @ KEWR.

3/29/2023: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 3/20/2023.

1. REMARKS: REMOVED PAT 2: 4 NM LEGS ON PHLBO STAR/ATC REQUEST/ APPROVAL LETTER ON FILE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: RAYMOND JOHNSON

APPROVED BY:

DATE: 06/15/2023

OFFICE: AJV-A420

NAME: MARLON ROBINSON

SIGNATURE:

*Digitally signed by*

**ALLAN WILL**

Mar 30, 2023

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: METRO STATE: NJ COUNTRY: US ICAO REGION CODE: K6  
 LATITUDE/LONGITUDE: 402521.77N/0744010.30W 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 | MRA  | MAA   |
|-----|---------|-------|---------|-------|---------|----------|-------|------------------|------|-------|
| 1   | YARDLEY | ARD   | VOR/DME | L     | 057.01  | 047.01   | 14.91 | 14.91            | 1400 | 17500 |
| 2   | SOLBERG | SBJ   | VOR/DME | VL    | 170.99  | 160.99   |       | 10.17            | 1400 | 17500 |
| 3   | KENNEDY | JFK   | VOR/DME | H     | 265.24  | 253.24   |       | 42.98            | 3000 | 17500 |

## EXPANDED SERVICE VOLUME (ESV):

| FAC IDENT | FAC TYPE | RADIAL/BEARING | DISTANCE | MIN ALTITUDE | MAX ALTITUDE |
|-----------|----------|----------------|----------|--------------|--------------|
| JFK       | VOR/DME  | R-265          | 43       | 3000         | 14500        |

HOLDING: HOLDING TYPE OF ACTION: NO CHANGE

## PATTERNS:

| PAT | DIR | IDENT | TYPE    | RAD/CRS/BRG | CRS INBOUND | TURN (L OR R) | LEG LENGTH TIME | HOLDING ALTITUDES DME | MIN  | MAX  | TEMPLATES MIN | MAX |
|-----|-----|-------|---------|-------------|-------------|---------------|-----------------|-----------------------|------|------|---------------|-----|
| 1   | SW  | ARD   | VOR/DME | 057.01      | 057.01      | L             | 1               |                       | 5000 | 8000 | 5             | 6   |
| 2   | SW  |       | WP      | 240.06      | 060.06      | L             |                 | 4                     | 5000 | 8000 | 8             | 8   |
| 3   | E   |       | WP      | 101.68      | 281.68      | R             |                 | 4                     | 2000 | 6000 | 4             | 6   |

## CONTROLLING OBSTRUCTIONS:

| PAT | AIRSPEED | OBSTRUCTION | COORDINATES            | ELEVATION | ACCURACY CODE |
|-----|----------|-------------|------------------------|-----------|---------------|
| 1   | 210      | AAO         | 402603.00N/0744603.00W | 853       | 4E            |
| 2   | 210      | AAO         | 402603.00N/0744603.00W | 853       | 4E            |
| 3   | 200      | AAO         | 402603.00N/0744603.00W | 853       | 4E            |

## REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST  
 PAT 2 ATC REQUEST

## HOLDING RESTRICTIONS:

PAT 1 CHART 210K ICON  
 HOLDING LIMITED TO ESTABLISHED PATTERNS.  
 PAT 2 CHART 210K ICON

## REMARKS:

YARDLEY (FAC 1) AND SOLBERG (FAC 2) USED TO ESTABLISH FIX COORDINATES.  
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
 PAT 2: 4 NM LEGS ON PHLBO STAR.

## FIX USE:

| USE TYPE | USE TITLE         | FAC  | PAT | AIRPORT IDENT | CITY       | STATE   |
|----------|-------------------|------|-----|---------------|------------|---------|
| DP       | CENTRAL DEPARTURE | 1, 2 |     | 47N           | MANVILLE   | NJ (US) |
| EN ROUTE | V214              | 1, 2 |     |               |            | (US)    |
| EN ROUTE | V249              | 1, 2 |     |               |            | (US)    |
| EN ROUTE | V433              | 2, 3 |     |               |            | (US)    |
| IAP      | RNAV (GPS) RWY 25 |      | 3   | 47N           | MANVILLE   | NJ (US) |
| IAP      | RNAV (GPS) RWY 12 |      |     | KSMQ          | SOMERVILLE | NJ (US) |
| STAR     | PHLBO (RNAV)      |      | 2   | KEWR          | NEWARK     | NJ (US) |

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 11 DATE OF REVISION: 06/15/2023

## REASON FOR REVISION:

1. FIX USE SECTION: REMOVED DYLIN STAR @ KEWR  
 2. PATTERNS: CHANGED PATTERN 2 MIN/MAX TEMPLATES FROM 7 TO 8.  
 3. REMARKS: CHANGED NOTE TO READ PAT 2: 4 NM LEGS ON PHLBO STAR.

INITIATED BY: DATE: ORGANIZATION: NAME:  
 OFFICE OF PRIMARY RESPONSIBILITY: AJV-A423 NAME: RAYMOND JOHNSON  
 APPROVED BY: DATE: 06/15/2023 OFFICE: AJV-A420 NAME: MARLON ROBINSON

SIGNATURE: *Digitally signed by*  
**ALLAN WILL**  
 Mar 30, 2023

QUALITY  
 14  
 CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: NOTTINGHAM VORTAC      STATE: MD      COUNTRY: US      ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 384221.14N/0764441.09W      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<br>NM | FEET | MRA | MAA   |
|-----|------------|-------|--------|-------|---------|----------|-----|---------------------|------|-----|-------|
| 1   | NOTTINGHAM | OTT   | VORTAC | L     |         |          |     |                     |      |     | 17500 |

HOLDING:      HOLDING TYPE OF ACTION: NO CHANGE

## PATTERNS:

| PAT | DIR | IDENT | TYPE   | RAD/CRS/BRG | CRS<br>INBOUND | TURN<br>(L OR R) | LEG LENGTH<br>TIME | DME | HOLDING ALTITUDES<br>MIN | MAX   | TEMPLATES<br>MIN | MAX |
|-----|-----|-------|--------|-------------|----------------|------------------|--------------------|-----|--------------------------|-------|------------------|-----|
| 1   | NE  | OTT   | VORTAC | 051.96      | 231.96         | R                | 1                  |     | 3000                     | 6000  | 4                | 5   |
| 2   | SW  | WP    | WP     | 234.47      | 054.47         | R                |                    | 8   | 9000                     | 20000 | 11               | 19  |

## CONTROLLING OBSTRUCTIONS:

| PAT | AIRSPEED | OBSTRUCTION       | COORDINATES            | ELEVATION | ACCURACY CODE |
|-----|----------|-------------------|------------------------|-----------|---------------|
| 1   | 200      | TOWER (24-000957) | 384034.69N/0765009.23W | 1049      | 5E            |
| 2   | 230      | TOWER (24-000957) | 384034.69N/0765009.23W | 1049      | 5E            |

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
PAT 1 AND PAT 2 REQUESTED FOR ATC USE.  
ASSIGNED MAG VAR OTT VORTAC: 10W/1985.

## FIX USE:

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|----------|-----------|-----|-----|---------------|------|-------|
| EN ROUTE | V308      |     |     |               |      | (US)  |
| EN ROUTE | V33       |     |     |               |      | (US)  |
| EN ROUTE | V433      |     |     |               |      | (US)  |

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 28      DATE OF REVISION: 06/15/2023

## REASON FOR REVISION:

- FIX USE SECTION: REMOVED DYLIN STAR @ KEWR.
- REQUIRED CHARTING: REMOVED STAR.

|                                   |                  |                  |                       |
|-----------------------------------|------------------|------------------|-----------------------|
| INITIATED BY:                     | DATE:            | ORGANIZATION:    | NAME:                 |
| OFFICE OF PRIMARY RESPONSIBILITY: |                  | AJV-A423         | NAME: RAYMOND JOHNSON |
| APPROVED BY:                      | DATE: 06/15/2023 | OFFICE: AJV-A420 | NAME: MARLON ROBINSON |

SIGNATURE: *Digitally signed by*  
**ALLAN WILL**  
Mar 30, 2023

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: PALEO STATE: MD COUNTRY: US ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 390140.78N/0762221.81W TYPE: WP, INT, DME

AIRSPACE DOCKET: FIX TYPE OF ACTION: NO CHANGE

## FIX MAKE-UP FACILITIES:

| FAC | NAME        | IDENT | TYPE    | CLASS | MAG BRG | TRUE BRG | DME   | DIST FROM FAC NM | MRA   | MAA   |
|-----|-------------|-------|---------|-------|---------|----------|-------|------------------|-------|-------|
| 1   | BALTIMORE   | BAL   | VORTAC  | L     | 133.38  | 122.38   | 15.97 | 15.97            | 2200  | 45000 |
| 2   | ARMEL       | AML   | VOR/DME | L     | 091.41  | 083.41   | 51.49 | 51.49            | 2500  | 29000 |
| 3   | SMYRNA      | ENO   | VORTAC  | L     | 262.30  | 253.30   |       | 41.82            | 2200  | 17500 |
| 4   | WESTMINSTER | EMI   | VORTAC  | H     | 142.57  | 134.57   |       | 39.76            | 2200  | 17500 |
| 5   | SEA ISLE    | SIE   | VORTAC  | VH    | 276.34  | 267.34   |       | 73.59            | 13500 | 14600 |

## EXPANDED SERVICE VOLUME (ESV):

| FAC IDENT | FAC TYPE | RADIAL/BEARING | DISTANCE | MIN ALTITUDE | MAX ALTITUDE |
|-----------|----------|----------------|----------|--------------|--------------|
| BAL       | VORTAC   | R-133          | 16       | 22000        | 45000        |
| AML       | VOR/DME  | R-091          | 52       | 2500         | 29000        |
| ENO       | VORTAC   | R-262          | 42       | 2200         | 17500        |
| SIE       | VORTAC   | R-276          | 74       | 13500        | 14600        |

HOLDING: HOLDING TYPE OF ACTION: NO CHANGE

## PATTERNS:

| PAT | DIR | IDENT | TYPE | RAD/CRS/BRG | CRS INBOUND | TURN (L OR R) | LEG LENGTH TIME | HOLDING ALTITUDES DME MIN MAX | TEMPLATES MIN MAX |
|-----|-----|-------|------|-------------|-------------|---------------|-----------------|-------------------------------|-------------------|
| 1   | SW  |       | WP   | 235.19      | 055.19      | L             |                 | 10 18000 39000                | 17 28             |

## REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST.

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

## REMARKS:

BALTIMORE (FAC 1) AND ARMEL (FAC 2) USED TO ESTABLISH FIX COORDINATES.  
PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
HIGHER HOLDING ALTITUDES ATC REQUEST.

## FIX USE:

| USE TYPE | USE TITLE         | FAC     | PAT | AIRPORT IDENT | CITY                | STATE   |
|----------|-------------------|---------|-----|---------------|---------------------|---------|
| DP       | NATIONAL          |         |     | KDCA          | WASHINGTON          | DC (US) |
| DP       | CAPITOL           | 2       |     | KIAD          | WASHINGTON          | DC (US) |
| DP       | PALEO             | 1, 2    |     | KBWI          | BALTIMORE           | MD (US) |
| DP       | PTOMC (RNAV)      |         |     | KJYO          | LEESBURG            | VA (US) |
| EN ROUTE | V170              | 1, 2    |     |               |                     | (US)    |
| EN ROUTE | V312              | 1, 2    |     |               |                     | (US)    |
| EN ROUTE | V433              | 1, 2    |     |               |                     | (US)    |
| EN ROUTE | V44               | 1, 2, 5 |     |               |                     | (US)    |
| EN ROUTE | V93               | 1, 2    |     |               |                     | (US)    |
| IAP      | RNAV (GPS) RWY 28 |         |     | KFME          | FORT MEADE(ODENTON) | MD (US) |
| IAP      | RNAV (GPS) RWY 12 |         |     | KRJD          | RIDGELY             | MD (US) |
| STAR     | PHLBO (RNAV)      |         | 1   | KEWR          | NEWARK              | NJ (US) |

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 24

DATE OF REVISION: 06/15/2023

## REASON FOR REVISION:

1. FIX MAKE-UP FACILITIES: REMOVED FAC 1 (OTT) AND ALL ASSOCIATIONS, RENUMBERED FACILITIES.  
2. HOLDING RESTRICTIONS: ADDED HOLDING LIMITED TO ESTABLISHED PATTERN.  
3. REMARKS: CHANGED TO READ BALTIMORE (FAC 1) AND ARMEL (FAC 2) USED TO ESTABLISH FIX COORDINATES.  
4. FIX USE SECTION: REMOVED DYLIN STAR @ KEWR.  
5. HOLDING PATTERN ASSOCIATION 1,OTT,VORTAC,06/15/2023 DELETED AND HOLDING PATTERN ASSOCIATION 1,VORTAC,06/15/2023 DELETED - ALL ASSOCIATIONS UPDATED.

INITIATED BY: DATE: ORGANIZATION: NAME:

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A423 NAME: RAYMOND JOHNSON

APPROVED BY: DATE: 06/15/2023 OFFICE: AJV-A420 NAME: MARLON ROBINSON

SIGNATURE: Digitally signed by  
ALLAN WILL

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: PATUXENT VORTAC STATE: MD COUNTRY: US ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 381716.28N/0762400.83W 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 | FEET | MRA | MAA   |
|-----|----------|-------|--------|-------|---------|----------|-----|------------------|------|-----|-------|
| 1   | PATUXENT | PXT   | VORTAC | L     |         |          |     |                  |      |     | 17500 |

HOLDING: HOLDING TYPE OF ACTION: NO CHANGE

## PATTERNS:

| PAT | DIR | IDENT | TYPE   | RAD/CRS/BRG | CRS INBOUND | TURN (L OR R) | LEG TIME | LENGTH DME | HOLDING ALTITUDES MIN | MAX   | TEMPLATES MIN | MAX |
|-----|-----|-------|--------|-------------|-------------|---------------|----------|------------|-----------------------|-------|---------------|-----|
| 1   | NE  | PXT   | VORTAC | 045.99      | 225.99      | R             | 1        |            | 4000                  | 17500 | 4             | 16  |

## CONTROLLING OBSTRUCTIONS:

| PAT | AIRSPEED | OBSTRUCTION       | COORDINATES            | ELEVATION | ACCURACY CODE |
|-----|----------|-------------------|------------------------|-----------|---------------|
| 1   | 200      | TOWER (24-037752) | 382258.71N/0762634.58W | 563       | 2C            |

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
MAGNETIC VARIATION 10W/1985

## FIX USE:

| USE TYPE | USE TITLE    | FAC | PAT | AIRPORT IDENT | CITY         | STATE   |
|----------|--------------|-----|-----|---------------|--------------|---------|
| EN ROUTE | J14          |     |     |               |              | (US)    |
| EN ROUTE | V157         |     | 1   |               |              | (US)    |
| EN ROUTE | V16          |     | 1   |               |              | (US)    |
| EN ROUTE | V213         |     | 1   |               |              | (US)    |
| EN ROUTE | V229         |     | 1   |               |              | (US)    |
| EN ROUTE | V93          |     |     |               |              | (US)    |
| STAR     | PHLBO (RNAV) |     |     | KEWR          | NEWARK       | NJ (US) |
| STAR     | PAATS (RNAV) |     |     | KTTN          | TRENTON      | NJ (US) |
| STAR     | PAATS (RNAV) |     |     | KMQS          | COATESVILLE  | PA (US) |
| STAR     | PAATS (RNAV) |     |     | KPHL          | PHILADELPHIA | PA (US) |
| STAR     | PAATS (RNAV) |     |     | KPNE          | PHILADELPHIA | PA (US) |

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 14 DATE OF REVISION: 06/15/2023

## REASON FOR REVISION:

1. FIX USE SECTION: REMOVED DYLIN STAR @ KEWR.
2. FIX USE: REMOVED KORRY STAR @ KLGA.

INITIATED BY: DATE: ORGANIZATION: NAME:

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A423 NAME: RAYMOND JOHNSON

APPROVED BY: DATE: 06/15/2023 OFFICE: AJV-A420 NAME: MARLON ROBINSON

SIGNATURE: *Digitally signed by*  
**ALLAN WILL**  
Mar 30, 2023

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: PEEDS

STATE: MD

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 390830.07N/0761425.12W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE  
STAR

USE TITLE  
PHLBO (RNAV)

FAC

PAT

AIRPORT IDENT  
KEWR

CITY  
NEWARK

STATE  
NJ (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 06/15/2023

REASON FOR REVISION:

1. TYPE: REMOVED INT AND DME.
2. FIX MAKE-UP FACILITIES: REMOVED FAC 1 AND FAC 2 AND ALL ASSOCIATED REMARKS.
4. FIX USE SECTION: REMOVED DYLIN STAR @ KEWR.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: RAYMOND JOHNSON

APPROVED BY:

DATE: 06/15/2023

OFFICE: AJV-A420

NAME: MARLON ROBINSON

SIGNATURE:

*Digitally signed by*

**ALLAN WILL**

Mar 30, 2023

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: SOMTO

STATE: PA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 400734.20N/0750349.42W

TYPE: WP, INT, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

## FIX MAKE-UP FACILITIES:

| FAC | NAME      | IDENT | TYPE    | CLASS | MAG<br>BRG | TRUE<br>BRG | DME   | DIST FROM FAC<br>NM | FEET | MRA  | MAA   |
|-----|-----------|-------|---------|-------|------------|-------------|-------|---------------------|------|------|-------|
| 1   | YARDLEY   | ARD   | VOR/DME | L     | 233.32     | 223.32      | 10.47 | 10.47               |      | 3000 | 17500 |
| 2   | POTTSTOWN | PTW   | VORTAC  | L     | 113.00     | 104.00      |       | 23.55               |      | 3000 | 17500 |

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

YARDLEY (FAC 1) AND POTTSTOWN (FAC 2) USED TO ESTABLISH FIX COORDINATES.

## FIX USE:

| USE TYPE | USE TITLE    | FAC  | PAT | AIRPORT IDENT | CITY    | STATE   |
|----------|--------------|------|-----|---------------|---------|---------|
| EN ROUTE | V433         | 1, 2 |     |               |         | (US)    |
| IAP      | VOR OR GPS A | 1, 2 |     | KTTN          | TRENTON | NJ (US) |
| STAR     | PHLBO (RNAV) |      |     | KEWR          | NEWARK  | NJ (US) |

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 10

DATE OF REVISION: 06/15/2023

## REASON FOR REVISION:

1. FIX USE SECTION: REMOVED DYLIN STAR @ KEWR.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: RAYMOND JOHNSON

APPROVED BY:

DATE: 06/15/2023

OFFICE: AJV-A420

NAME: MARLON ROBINSON

SIGNATURE:

*Digitally signed by*

**ALLAN WILL**

Mar 30, 2023

QUALITY  
14  
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# RADIO FIX AND HOLDING DATA RECORD

NAME: STEFE

STATE: PA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 395755.05N/0751536.04W

TYPE: WP, INT, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

## FIX MAKE-UP FACILITIES:

| FAC | NAME      | IDENT | TYPE    | CLASS | MAG BRG | TRUE BRG | DME   | DIST FROM FAC NM | MRA  | MAA   |
|-----|-----------|-------|---------|-------|---------|----------|-------|------------------|------|-------|
| 1   | DUPONT    | DQO   | VORTAC  | L     | 052.87  | 042.87   | 23.53 | 25.53            | 5000 | 17500 |
| 2   | POTTSTOWN | PTW   | VORTAC  | L     | 147.00  | 138.00   |       | 20.70            | 6000 | 17500 |
| 3   | YARDLEY   | ARD   | VOR/DME | L     | 233.32  | 223.32   | 23.69 | 23.69            | 6000 | 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 DME | HOLDING ALTITUDES MIN MAX | TEMPLATES MIN MAX |
|-----|-----|-------|--------|-------------|-------------|---------------|---------------------|---------------------------|-------------------|
| 1   | SW  | DQO   | VORTAC | 052.87      | 052.87      | R             | 1                   | 6000 14000                | 7 9               |
| 2   | SW  | WP    | WP     | 235.87      | 055.87      | R             | 4                   | 6000 14000                | 8 9               |

## CONTROLLING OBSTRUCTIONS:

| PAT | AIRSPEED | OBSTRUCTION       | COORDINATES            | ELEVATION | ACCURACY CODE |
|-----|----------|-------------------|------------------------|-----------|---------------|
| 1   | 210      | TOWER (42-002870) | 400230.14N/0751410.08W | 1547      | 1A            |
| 2   | 210      | TOWER (42-002870) | 400230.14N/0751410.08W | 1547      | 1A            |

## HOLDING RESTRICTIONS:

PAT 1 CHART 210K ICON  
HOLDING LIMITED TO ESTABLISHED PATTERNS.  
PAT 2 CHART 210K ICON

## REMARKS:

DUPONT (FAC 1) AND POTTSTOWN (FAC 2) USED TO ESTABLISH FIX COORDINATES.  
PAT 2: 4 NM LEGS ON PHLBO STAR.  
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

## FIX USE:

| USE TYPE | USE TITLE    | FAC     | PAT | AIRPORT IDENT | CITY   | STATE   |
|----------|--------------|---------|-----|---------------|--------|---------|
| EN ROUTE | V433         | 1, 2, 3 | 1   |               |        | (US)    |
| STAR     | PHLBO (RNAV) |         | 2   | KEWR          | NEWARK | NJ (US) |

REQUIRED CHARTING: STAR, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 9

DATE OF REVISION: 06/15/2023

## REASON FOR REVISION:

1. FIX USE SECTION: REMOVED DYLIN STAR @ KEWR.
2. PATTERNS: CHANGED PATTERN 2 MAX TEMPLATE FROM 10 TO 9.
3. REMARKS: REMOVED LEFT PAT 2 MIN/MAX TEMPLATE AS PREVIOUS PUBLISHED TO ENSURE NOT COUNTER TO APPROVAL LETTER CONDITIONS.
4. REMARKS: CHANGED NOTE TO READ PAT 2: 4 NM LEGS ON PHLBO STAR.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: RAYMOND JOHNSON

APPROVED BY:

DATE: 06/15/2023

OFFICE: AJV-A420

NAME: MARLON ROBINSON

SIGNATURE:

*Digitally signed by*

**ALLAN WILL**

Mar 30, 2023

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: YARDLEY VOR/DME STATE: PA COUNTRY: US ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 401512.03N/0745427.40W 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<br>NM FEET | MRA | MAA   |
|-----|---------|-------|---------|-------|---------|----------|-----|--------------------------|-----|-------|
| 1   | YARDLEY | ARD   | VOR/DME | L     |         |          |     |                          |     | 17500 |

HOLDING: HOLDING TYPE OF ACTION: MODIFY

## PATTERNS:

| PAT | DIR | IDENT | TYPE    | RAD/CRS/BRG | CRS<br>INBOUND | TURN<br>(L OR R) | LEG LENGTH<br>TIME DME | HOLDING ALTITUDES<br>MIN MAX | TEMPLATES<br>MIN MAX |
|-----|-----|-------|---------|-------------|----------------|------------------|------------------------|------------------------------|----------------------|
| 1   | SW  | ARD   | VOR/DME | 233.32      | 053.32         | R                | 1                      | 5000 14000                   | 5 8                  |
| 2   | E   | ARD   | VOR/DME | 109.02      | 289.02         | R                | 1                      | 2000 5000                    | 4 5                  |
| 3   | W   | ARD   | VOR/DME | 261.00      | 081.00         | L                | 1                      | 2000 4000                    | 4 4                  |
| 4   | E   |       | WP      | 111.02      | 291.02         | R                |                        | 2000 6000                    | 4 6                  |
| 5   | SW  |       | WP      | 236.22      | 056.22         | R                |                        | 5000 14000                   | 8 9                  |

## CONTROLLING OBSTRUCTIONS:

| PAT | AIRSPEED | OBSTRUCTION | COORDINATES            | ELEVATION | ACCURACY CODE |
|-----|----------|-------------|------------------------|-----------|---------------|
| 1   | 210      | AAO         | 401830.59N/0745616.75W | 659       | 2C            |
| 2   | 200      | AAO         | 401948.60N/0745221.59W | 699       | 2C            |
| 3   | 200      | AAO         | 401923.02N/0745343.36W | 679       | 2C            |
| 4   | 200      | AAO         | 401948.60N/0745221.59W | 699       | 2C            |
| 5   | 210      | AAO         | 401948.00N/0745218.00W | 680       | 4E            |

## REASON FOR NONSTANDARD HOLDING:

PAT 3 TO AVOID NORTH PHILADELPHIA CONTROL ZONE

## HOLDING RESTRICTIONS:

PAT 1 CHART 210K ICON  
PAT 5 CHART 210K ICON AND 4NM LEGS ON PHLBO STAR.  
HOLDING LIMITED TO ESTABLISHED PATTERNS.

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
FACILITY MAGVAR W 10/1965.

## FIX USE:

| USE TYPE    | USE TITLE                   | FAC | PAT  | AIRPORT IDENT | CITY                 | STATE   |
|-------------|-----------------------------|-----|------|---------------|----------------------|---------|
| SPECIAL IAP | RNAV (GPS) RWY 20           |     |      | 3NJ6          | RANCOCAS             | NJ (US) |
| DP          | CENTRAL                     |     |      | 47N           | MANVILLE             | NJ (US) |
| DP          | PRINCETON                   |     |      | 39N           | PRINCETON/ROCKY HILL | NJ (US) |
| DP          | REPUBLIC                    |     |      | KFRG          | FARMINGDALE          | NY (US) |
| DP          | KENNEDY                     |     |      | KJFK          | NEW YORK             | NY (US) |
| DP          | SKORR (RNAV)                |     |      | KJFK          | NEW YORK             | NY (US) |
| DP          | PHILADELPHIA                |     |      | KPHL          | PHILADELPHIA         | PA (US) |
| EN ROUTE    | T438                        |     |      |               |                      | (US)    |
| EN ROUTE    | V143                        |     |      |               |                      | (US)    |
| EN ROUTE    | V147                        |     |      |               |                      | (US)    |
| EN ROUTE    | V210                        |     |      |               |                      | (US)    |
| EN ROUTE    | V214                        |     |      |               |                      | (US)    |
| EN ROUTE    | V276                        |     |      |               |                      | (US)    |
| EN ROUTE    | V433                        |     |      |               |                      | (US)    |
| EN ROUTE    | V479                        |     |      |               |                      | (US)    |
| IAP         | RNAV (GPS) RWY 23           |     |      | 19N           | BERLIN               | NJ (US) |
| IAP         | RNAV (GPS) RWY 08           |     |      | KVAY          | MOUNT HOLLY          | NJ (US) |
| IAP         | COPTER ILS/DME RWY 22L      |     |      | KEWR          | NEWARK               | NJ (US) |
| IAP         | ILS RWY 22L (CAT II - III)  |     |      | KEWR          | NEWARK               | NJ (US) |
| IAP         | ILS OR LOC RWY 22L          |     |      | KEWR          | NEWARK               | NJ (US) |
| IAP         | ILS OR LOC RWY 22R          |     |      | KEWR          | NEWARK               | NJ (US) |
| IAP         | ILS RWY 22L (SA CAT I)      |     |      | KEWR          | NEWARK               | NJ (US) |
| IAP         | RNAV (GPS)-A                |     |      | N85           | PITTSTOWN            | NJ (US) |
| IAP         | RNAV (GPS)-B                |     |      | N85           | PITTSTOWN            | NJ (US) |
| IAP         | VOR/DME RWY 8               |     |      | N85           | PITTSTOWN            | NJ (US) |
| IAP         | VOR-A                       |     |      | 39N           | PRINCETON/ROCKY HILL | NJ (US) |
| IAP         | ILS OR LOC RWY 06           |     | 2    | KTTN          | TRENTON              | NJ (US) |
| IAP         | VOR OR GPS A                |     | 2, 3 | KTTN          | TRENTON              | NJ (US) |
| IAP         | RNAV (GPS) RWY 31           |     |      | KABE          | ALLENTOWN            | PA (US) |
| IAP         | RNAV (GPS) RWY 6            |     |      | KABE          | ALLENTOWN            | PA (US) |
| IAP         | RNAV (GPS) RWY 24           |     |      | KLOM          | PHILADELPHIA         | PA (US) |
| IAP         | ILS OR LOC RWY 27R          |     |      | KPHL          | PHILADELPHIA         | PA (US) |
| IAP         | ILS RWY 27R (SA CAT I & II) |     |      | KPHL          | PHILADELPHIA         | PA (US) |
| IAP         | ILS V RWY 17 (CONVERGING)   |     | 2    | KPHL          | PHILADELPHIA         | PA (US) |
| IAP         | ILS Z OR LOC RWY 17         |     |      | KPHL          | PHILADELPHIA         | PA (US) |
| IAP         | RNAV (GPS) RWY 17           |     |      | KPHL          | PHILADELPHIA         | PA (US) |
| IAP         | ILS OR LOC RWY 24           |     | 2    | KPNE          | PHILADELPHIA         | PA (US) |

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|      |                   |   |      |              |         |
|------|-------------------|---|------|--------------|---------|
| IAP  | RNAV (GPS) RWY 24 | 4 | KPNE | PHILADELPHIA | PA (US) |
| STAR | PHLBO (RNAV)      | 5 | KEWR | NEWARK       | NJ (US) |
| STAR | KORRY             |   | KLGA | NEW YORK     | NY (US) |
| STAR | MILTON            |   | KLGA | NEW YORK     | NY (US) |

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 33

**DATE OF REVISION:** 06/15/2023

**REASON FOR REVISION:**

1. FIX USE SECTION: REMOVED DYLIN STAR @ KEWR.
2. FIX USE SECTION: REMOVED PAATS STAR @ KTTN, KPNE.
3. PATTERNS: CHANGED PATTERN 5 MIN TEMPLATE FROM 7 TO 8.
4. HOLDING RESTRICTIONS: CHANGED NOTE TO READ PAT 5 CHART 210K ICON AND 4NM LEGS ON PHLBO STAR.

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A423

**NAME:** RAYMOND JOHNSON

**APPROVED BY:**

**DATE:** 06/15/2023

**OFFICE:** AJV-A420

**NAME:** MARLON ROBINSON

**SIGNATURE:**

*Digitally signed by*

**ALLAN WILL**

Mar 30, 2023

