

RADIO FIX AND HOLDING DATA RECORD

NAME: CERTS

STATE: PA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 395620.92N/0753657.51W

TYPE: WP, RADAR, INT

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 | FAC FEET | MRA | MAA |
|-----|-------------|-------|--------|-------|------------|-------------|-----|---------------------|-------------|------|-------|
| 1 | COATESVILLE | I-MQS | LOC | | 112.64 | 101.64 | | 12.34 | | 2400 | 5100 |
| 2 | DUPONT | DQO | VORTAC | L | 008.50 | 358.50 | | 15.65 | | 2400 | 17500 |

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|----------|-------------------|------|-----|---------------|-------------|---------|
| IAP | ILS OR LOC RWY 29 | 1, 2 | | KMQS | COATESVILLE | PA (US) |
| IAP | RNAV (GPS) RWY 29 | | | KMQS | COATESVILLE | PA (US) |

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 10/07/2021

REASON FOR REVISION:

ADDED FAC 1 DIST FROM FAC 12.34 NM.
ADDED FAC 2 DIST FROM FAC 15.65 NM.
REMOVED FAC 3 KMQS R29 FROM FIX MAKE-UP FACILITIES.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A422

NAME: ANTHONY CAPPABIANCO

APPROVED BY:

DATE:

OFFICE: AJV-A420

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: EST
ARTCC: ZNY
ATC FACILITY: PHL APP CON
OTHER:

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 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 INBOUND | TURN (L OR R) | LEG LENGTH TIME DME | HOLDING ALTITUDES MIN MAX | TEMPLATES 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 | V214 | | 1 | | | (US) |
| EN ROUTE | V252 | | | | | (US) |
| EN ROUTE | V29 | | | | | (US) |
| EN ROUTE | V433 | | 1 | | | (US) |
| EN ROUTE | V445 | | 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 | | 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 | DYLIN | | | 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: 14

DATE OF REVISION: 10/07/2021

REASON FOR REVISION:

REMOVED AIRSPACE DOCKET 19-ASO-18.
REMOVED KMQS ILS OR LOC RWY 29 FROM FIX USE.
REMOVED "CHART 210 KIAS ICON PAT 1 ENROUTE LOW" FROM REMARKS.

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

AJV-A422

NAME: ANTHONY CAPPABIANCO**APPROVED BY:****DATE:****OFFICE:** AJV-A420**NAME:** MARLON ROBINSON**SIGNATURE:****DISTRIBUTION:****NFDC****FPO:** EST**ARTCC:** ZDC**ATC FACILITY:** DOV RAPCON, PHL APP CON**OTHER:**

RADIO FIX AND HOLDING DATA RECORD

NAME: EFECO

STATE: PA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 395734.54N/0754437.30W

TYPE: WP, RADAR, INT

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 | COATESVILLE | I-MQS | LOC | | 112.64 | 101.64 | | 6.32 38387 | 2400 | 5100 |
| 2 | DUPONT | DQO | VORTAC | L | 349.31 | 339.31 | | 18.02 109473 | 2400 | 5100 |

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|----------|-------------------|------|-----|---------------|-------------|---------|
| IAP | ILS OR LOC RWY 29 | 1, 2 | | KMQS | COATESVILLE | PA (US) |
| IAP | RNAV (GPS) RWY 29 | | | KMQS | COATESVILLE | PA (US) |

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 10/07/2021

REASON FOR REVISION:

FIX COORDINATES CHANGED FROM 395735.55N/0754443.44W TO 395734.54N/0754437.30W, 488.92 FT E.
ADDED FAC 1 DIST FROM FAC 6.32 NM, 38387 FT.
ADDED FAC 2 DIST FROM FAC 18.02 NM, 109473 FT.
REMOVED FAC 3 FROM FIX MAKE-UP FACILITIES.
REMOVED "KMQS R29 (FAC 3) USED TO ESTALISH FIX COORDINATES" FROM REMARKS.
REMOVED "FIX COORDINATED REFLECT LOCATION OF RNP PFAF" FROM REMARKS.
UPDATED K40N TO KMQS IN FIX USE.
REMOVED KMQS RNAV (GPS) RWY 11 FROM FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A422

NAME: ANTHONY CAPPABIANCO

APPROVED BY:

DATE:

OFFICE: AJV-A420

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: EST
ARTCC: ZNY
ATC FACILITY: PHL APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: GLOMO STATE: PA COUNTRY: US ICAO REGION CODE: K6
 LATITUDE/LONGITUDE: 395154.76N/0755845.22W 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 | POTTSTOWN | PTW | VORTAC | L | 231.18 | 222.18 | 28.83 | 28.83 | 3000 | 17500 |
| 2 | MODENA | MXE | VORTAC | L | 266.56 | 257.56 | 14.59 | 14.59 | 3500 | 17500 |
| 3 | DUPONT | DQO | VORTAC | L | 313.20 | 303.20 | | 20.55 | 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 | NE | PTW | VORTAC | 231.18 | 231.18 | R | 1 | | 3000 | 6000 | 5 | 13 |
| 2 | NE | | WP | 051.18 | 231.18 | R | | 4 | 3000 | 6000 | 5 | 13 |

CONTROLLING OBSTRUCTIONS:

| PAT | AIRSPEED | OBSTRUCTION | COORDINATES | ELEVATION | ACCURACY CODE |
|-----|----------|-------------------|------------------------|-----------|---------------|
| 1 | 200 | AAO | 395957.00N/0755721.00W | 1096 | 4E |
| 1 | 310 | TOWER (42-001206) | 400445.05N/0760043.70W | 1485 | 5E |
| 2 | 200 | AAO | 395957.00N/0755721.00W | 1096 | 4E |
| 2 | 310 | TOWER (42-001206) | 400445.05N/0760043.70W | 1485 | 5E |

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S)

PROCEDURES REQUIRING CLIMB-IN-HOLD:

| PAT | PROCEDURE TITLE | AIRPORT IDENT | CITY | STATE |
|-----|-------------------|---------------|-------------|---------|
| 1 | ILS OR LOC RWY 29 | KMQS | COATESVILLE | PA (US) |
| 2 | RNAV (GPS) RWY 11 | KMQS | COATESVILLE | PA (US) |
| 2 | RNAV (GPS) RWY 29 | KMQS | COATESVILLE | PA (US) |

REMARKS:

POTTSTOWN (FAC 1) AND MODENA (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 | V3 | 2 | | | | (US) |
| EN ROUTE | V403 | 1, 2 | | | | (US) |
| EN ROUTE | V405 | 1, 2 | | | | (US) |
| EN ROUTE | V408 | 2 | | | | (US) |
| IAP | ILS OR LOC RWY 29 | 1, 3 | 1 | KMQS | COATESVILLE | PA (US) |
| IAP | RNAV (GPS) RWY 11 | | 2 | KMQS | COATESVILLE | PA (US) |
| IAP | RNAV (GPS) RWY 29 | | 2 | KMQS | COATESVILLE | PA (US) |
| IAP | RNAV (GPS) Y RWY 9 | | | KOQN | WEST CHESTER | PA (US) |
| IAP | RNAV (GPS) Z RWY 9 | | | KOQN | WEST CHESTER | PA (US) |

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6

DATE OF REVISION: 10/07/2021

REASON FOR REVISION:

CHANGED FAC 1 MRA FROM 3500 TO 3000.
 ADDED PAT 1 AND ASSOCIATED OBJECTS.
 ADDED PAT 2 AND ASSOCIATED OBJECTS.
 ADDED "HOLDING LIMITED TO ESTABLISHED PATTERNS" TO HOLDING RESTRICTIONS.
 ADDED "PRECIPITOUS TERRAIN EVALUATION COMPLETED" TO REMARKS.
 ADDED PAT 2 TO KMQS RNAV (GPS) RWY 11 IN FIX USE.
 ADDED KMQS ILS OR LOC RWY 29, KMQS RNAV (GPS) RWY 29 TO FIX USE.
 ADDED KMQS ILS OR LOC RWY 29, RNAV (GPS) RWY 11, AND RNAV (GPS) RWY 29 TO PROCEDURES REQUIRING CLIMB-IN-HOLD.

INITIATED BY: DATE: ORGANIZATION: NAME:
 OFFICE OF PRIMARY RESPONSIBILITY: AJV-A422 NAME: ANTHONY CAPPABIANCO
 APPROVED BY: DATE: OFFICE: AJV-A420 NAME: MARLON ROBINSON
 SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: MODENA VORTAC STATE: PA COUNTRY: US ICAO REGION CODE: K6
 LATITUDE/LONGITUDE: 395504.98N/0754014.96W 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 | MODENA | MXE | VORTAC | L | | | | | | | 17500 |

FIX RESTRICTIONS:

MCA V474 10000 WESTBOUND
 MCA V184 10000 WESTBOUND

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 | MXE | VORTAC | 234.00 | 054.00 | R | 1 | | 2000 | 7000 | 4 | 8 |
| 2 | SW | | WP | 237.00 | 057.00 | R | | 4 | 3000 | 6000 | 5 | 6 |

CONTROLLING OBSTRUCTIONS:

| PAT | AIRSPEED | OBSTRUCTION | COORDINATES | ELEVATION | ACCURACY CODE |
|-----|----------|-------------|------------------------|-----------|---------------|
| 1 | 200 | AAO | 395327.00N/0754803.00W | 752 | 4E |
| 2 | 200 | AAO | 395300.00N/0754912.00W | 768 | 4E |

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S)

REMARKS:

ASSIGNED FACILITY MAGVAR: 9W (1965).
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|----------|-----------------------------|-----|-----|---------------|--------------|---------|
| DP | PHILADELPHIA | | | KPHL | PHILADELPHIA | PA (US) |
| EN ROUTE | Q75 | | | | | (US) |
| EN ROUTE | V170 | | | | | (US) |
| EN ROUTE | V184 | | | | | (US) |
| EN ROUTE | V29 | | | | | (US) |
| EN ROUTE | V3 | | | | | (US) |
| EN ROUTE | V378 | | | | | (US) |
| EN ROUTE | V408 | | | | | (US) |
| EN ROUTE | V419 | | | | | (US) |
| EN ROUTE | V474 | | | | | (US) |
| IAP | RNAV (GPS) RWY 19 | | | KILG | WILMINGTON | DE (US) |
| IAP | RNAV (GPS) RWY 9 | | | KILG | WILMINGTON | DE (US) |
| IAP | RNAV (GPS) RWY 25 | | | 7N7 | PEDRICKTOWN | NJ (US) |
| IAP | RNAV (GPS) RWY 7 | | | 7N7 | PEDRICKTOWN | NJ (US) |
| IAP | VOR/DME RWY 26 | | | KLNS | LANCASTER | PA (US) |
| IAP | RNAV (GPS) RWY 6 | | | KLOM | PHILADELPHIA | PA (US) |
| IAP | FREEDOM VISUAL RWY 9L | | | KPHL | PHILADELPHIA | PA (US) |
| IAP | ILS OR LOC RWY 27L | | 1 | KPHL | PHILADELPHIA | PA (US) |
| IAP | ILS OR LOC RWY 27R | | 1 | KPHL | PHILADELPHIA | PA (US) |
| IAP | ILS OR LOC RWY 9L | | | KPHL | PHILADELPHIA | PA (US) |
| IAP | ILS RWY 27R (SA CAT I & II) | | 1 | KPHL | PHILADELPHIA | PA (US) |
| IAP | ILS V RWY 17 (CONVERGING) | | | KPHL | PHILADELPHIA | PA (US) |
| IAP | ILS V RWY 9R (CONVERGING) | | | KPHL | PHILADELPHIA | PA (US) |
| IAP | ILS Z OR LOC RWY 17 | | | KPHL | PHILADELPHIA | PA (US) |
| IAP | ILS Z OR LOC Z RWY 9R | | | KPHL | PHILADELPHIA | PA (US) |
| IAP | ILS Z RWY 9R (CAT II & III) | | | KPHL | PHILADELPHIA | PA (US) |
| IAP | ILS Z RWY 9R (SA CAT I) | | | KPHL | PHILADELPHIA | PA (US) |
| IAP | LIBERTY VISUAL RWY 27L | | | KPHL | PHILADELPHIA | PA (US) |
| IAP | RNAV (GPS) RWY 27R | | 2 | 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 | ILS OR LOC RWY 13 | | | KRDG | READING | PA (US) |
| IAP | ILS OR LOC RWY 36 | | | KRDG | READING | PA (US) |
| IAP | RNAV (GPS) RWY 36 | | | KRDG | READING | PA (US) |
| IAP | RNAV (GPS) RWY 27 | | | KOQN | WEST CHESTER | PA (US) |
| IAP | VOR-A | | 1 | KOQN | WEST CHESTER | PA (US) |
| STAR | CLIPR (RNAV) | | | KDCA | WASHINGTON | DC (US) |
| STAR | HYPER (RNAV) | | | KHEF | WASHINGTON | DC (US) |
| STAR | DELRO | | | KIAD | WASHINGTON | DC (US) |
| STAR | HYPER (RNAV) | | | KIAD | WASHINGTON | DC (US) |
| STAR | BUNTS | | | KILG | WILMINGTON | DE (US) |
| STAR | BUNTS | | | KTTN | TRENTON | NJ (US) |
| STAR | HARRISBURG | | | KWRI | WRIGHTSTOWN | NJ (US) |
| STAR | BUNTS | | | KMQS | COATESVILLE | PA (US) |

| | | | | |
|------|--------------|------|----------------|---------|
| STAR | BUNTS | KPHL | PHILADELPHIA | PA (US) |
| STAR | BUNTS | KPNE | PHILADELPHIA | PA (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) | 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, IAP, EN ROUTE LOW, EN ROUTE HIGH, CONTROLLER LOW, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 22

DATE OF REVISION: 10/07/2021

REASON FOR REVISION:

REMOVED PAT 1 AND ASSOCIATED OBJECTS.

REMOVED PAT 3 AND ASSOCIATED OBJECTS.

PAT 2 CHANGED TO PAT 1.

PAT 4 CHANGED TO PAT 2.

REMOVED KMQS ILS OR LOC RWY 29, RNAV (GPS) RWY 11, AND RNAV (GPS) RWY 29 FROM FIX USE.

REMOVED AIRSPACE DOCKET 19-ASO-18.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A422

NAME: ANTHONY CAPPABIANCO

APPROVED BY:

DATE:

OFFICE: AJV-A420

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

NFDC

FPO: EST

ARTCC: ZNY

ATC FACILITY: PHL APP CON

OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: POTTSTOWN VORTAC

STATE: PA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 401320.03N/0753336.90W

TYPE:

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

FIX MAKE-UP FACILITIES:

| FAC | NAME | IDENT | TYPE | CLASS | MAG BRG | TRUE BRG | DME | DIST FROM FAC NM | FAC FEET | MRA | MAA |
|-----|-----------|-------|--------|-------|---------|----------|-----|------------------|----------|-----|-------|
| 1 | POTTSTOWN | PTW | 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 LENGTH TIME DME | HOLDING ALTITUDES MIN MAX | TEMPLATES MIN MAX |
|-----|-----|-------|--------|-------------|-------------|---------------|---------------------|---------------------------|-------------------|
| 1 | SE | PTW | VORTAC | 123.27 | 303.27 | R | 1 | 2100 6000 | 4 5 |
| 2 | W | PTW | VORTAC | 290.05 | 110.05 | R | 1 | 3000 6000 | 4 5 |
| 3 | SE | PTW | VORTAC | 152.00 | 332.00 | R | 1 | 3000 8000 | 4 8 |

CONTROLLING OBSTRUCTIONS:

| PAT | AIRSPEED | OBSTRUCTION | COORDINATES | ELEVATION | ACCURACY CODE |
|-----|----------|-------------------|------------------------|-----------|---------------|
| 1 | 200 | TOWER (42-000214) | 400928.00N/0752504.00W | 774 | 5D |
| 2 | 200 | AAO | 401309.00N/0754527.00W | 1198 | 5E |
| 3 | 200 | TOWER (42-000214) | 400928.00N/0752504.00W | 774 | 5D |
| UPN | 230 | AAO | 402333.00N/0753945.00W | 1309 | 4E |

HOLDING RESTRICTIONS:

UNPLANNED HOLDING AUTHORIZED FROM 2500 TO 8000.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|----------|-----------------------------|-----|-----|---------------|--------------|---------|
| DP | LIBERTY | | | KEWR | NEWARK | NJ (US) |
| DP | NEWARK | | | KEWR | NEWARK | NJ (US) |
| DP | LA GUARDIA | | | KLGA | NEW YORK | NY (US) |
| DP | TNNIS (RNAV) | | | KLGA | NEW YORK | NY (US) |
| DP | PROP | | | KHPN | WHITE PLAINS | NY (US) |
| DP | WESTCHESTER | | | KHPN | WHITE PLAINS | NY (US) |
| DP | PHILADELPHIA | | | KPHL | PHILADELPHIA | PA (US) |
| EN ROUTE | J48 | | | | | (US) |
| EN ROUTE | Q448 | | | | | (US) |
| EN ROUTE | V12 | | | | | (US) |
| EN ROUTE | V143 | | | | | (US) |
| EN ROUTE | V29 | | | | | (US) |
| EN ROUTE | V403 | | | | | (US) |
| EN ROUTE | V405 | | | | | (US) |
| EN ROUTE | V408 | | | | | (US) |
| IAP | RNAV (GPS) RWY 29 | | | KMQS | COATESVILLE | PA (US) |
| IAP | RNAV (GPS)-C | | | KN10 | COLLEGEVILLE | PA (US) |
| IAP | RNAV (GPS) RWY 8 | | | KCKZ | PERKASIE | PA (US) |
| IAP | RNAV (GPS) RWY 6 | | | KLOM | PHILADELPHIA | PA (US) |
| IAP | ILS OR LOC RWY 26 (ALT MA) | | 3 | KPHL | PHILADELPHIA | PA (US) |
| IAP | ILS OR LOC RWY 27R | | 3 | KPHL | PHILADELPHIA | PA (US) |
| IAP | ILS RWY 27R (SA CAT I & II) | | 3 | KPHL | PHILADELPHIA | PA (US) |
| IAP | ILS V RWY 17 (CONVERGING) | | | 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) |
| IAP | RNAV (GPS) RWY 15 | | | KPNE | PHILADELPHIA | PA (US) |
| IAP | RNAV (GPS) RWY 26 | | | KN47 | POTTSTOWN | PA (US) |
| IAP | VOR-B | | 1 | KN47 | POTTSTOWN | PA (US) |
| IAP | VOR/DME-A | | | KPTW | POTTSTOWN | PA (US) |
| IAP | ILS OR LOC RWY 36 | | | KRDG | READING | PA (US) |
| IAP | RNAV (GPS) RWY 36 | | | KRDG | READING | PA (US) |
| IAP | RNAV (GPS) Y RWY 9 | | | KOQN | WEST CHESTER | PA (US) |
| IAP | RNAV (GPS) Z RWY 9 | | | KOQN | WEST CHESTER | PA (US) |
| STAR | DYLIN | | | KEWR | NEWARK | NJ (US) |
| STAR | SLATT | | | KPHL | PHILADELPHIA | PA (US) |

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 08/12/2021

REASON FOR REVISION:

UPDATED FIX USE, ADDED RNAV (GPS) Z RWY 9 @ KOQN CHANGED RNAV (GPS) RWY 9 TO RNAV (GPS) Y RWY 9 @ KOQN.

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

AJV-A422

NAME: HEIDI SNIDER**APPROVED BY:****DATE:****OFFICE:** AJV-A420**NAME:** MARLON ROBINSON**SIGNATURE:****DISTRIBUTION:****NFDC****FPO:** EST**ARTCC:** ZNY**ATC FACILITY:** PHL APP CON**OTHER:**