

RADIO FIX AND HOLDING DATA RECORD

NAME: CAPE CHARLES VORTAC

STATE: VA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 372051.14N/0755951.55W

TYPE:

AIRSPACE DOCKET: 24-AEA-9

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 | CAPE CHARLES | CCV | VORTAC | L | 010.00 | 000.00 | | | | 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 DME | HOLDING ALTITUDES MIN MAX | TEMPLATES MIN MAX |
|-----|-----|-------|--------|-------------|----------------|------------------|------------------------|------------------------------|----------------------|
| 1 | SW | CCV | VORTAC | 209.00 | 029.00 | L | 1 | 2000 6000 | 4 5 |
| 2 | SW | CCV | VORTAC | 210.00 | 030.00 | L | 1 1/2 | 24000 32000 | 19 23 |

CONTROLLING OBSTRUCTIONS:

| PAT | AIRSPEED | OBSTRUCTION | COORDINATES | ELEVATION | ACCURACY CODE |
|-----|----------|-------------------|------------------------|-----------|---------------|
| 1 | 200 | TOWER (51-001347) | 371545.00N/0760044.00W | 757 | 5D |

REASON FOR NONSTANDARD HOLDING:

PAT 1 REMAIN CLEAR OF WARNING AREA.

PAT 2 REMAIN CLEAR OF WARNING AREA.

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S)

REMARKS:

CHART PAT 2 ON ENROUTE HIGH CHART.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

ASSIGNED FACILITY MAG VAR: 10W/1985.

FIX USE:

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|----------|-----------------------|-----|-----|---------------|----------------|---------|
| DP | SWABY | | | KNHK | PATUXENT RIVER | MD (US) |
| DP | CHAMBERS | | | KNGU | NORFOLK | VA (US) |
| DP | COPTER PRIDE | | | KNHU | NORFOLK | VA (US) |
| DP | OCEANA | | | KNTU | VIRGINIA BEACH | VA (US) |
| IAP | ILS OR LOC RWY 07 | | | KPHF | NEWPORT NEWS | VA (US) |
| IAP | ILS OR LOC RWY 25 | | | KPHF | NEWPORT NEWS | VA (US) |
| IAP | LOC RWY 20 | | | KPHF | NEWPORT NEWS | VA (US) |
| IAP | RNAV (GPS) RWY 20 | | | KPHF | NEWPORT NEWS | VA (US) |
| IAP | RNAV (GPS) RWY 25 | | | KPHF | NEWPORT NEWS | VA (US) |
| IAP | RNAV (GPS) RWY 28 | | | KNGU | NORFOLK | VA (US) |
| IAP | COPTER RNAV (GPS) 276 | | | KNHU | NORFOLK | VA (US) |
| IAP | ILS OR LOC RWY 23 | | | KORF | NORFOLK | VA (US) |
| IAP | ILS OR LOC RWY 5 | | 1 | KORF | NORFOLK | VA (US) |
| IAP | RNAV (GPS) RWY 14 | | | KORF | NORFOLK | VA (US) |
| IAP | RNAV (GPS) RWY 32 | | | KORF | NORFOLK | VA (US) |
| IAP | RNAV (GPS) Z RWY 23 | | | KORF | NORFOLK | VA (US) |
| IAP | RNAV (GPS)-B | | | KTGI | TANGIER | VA (US) |
| IAP | VOR/DME-A | | | KTGI | TANGIER | VA (US) |
| IAP | HI-TACAN RWY 23L/R | | | KNTU | VIRGINIA BEACH | VA (US) |
| STAR | TERKS | | | KCPK | CHESAPEAKE | VA (US) |
| STAR | TERKS | | | KNGU | NORFOLK | VA (US) |
| STAR | TERKS | | | KORF | NORFOLK | VA (US) |
| STAR | TERKS | | | KPVG | PORTSMOUTH | VA (US) |
| STAR | TERKS | | | KSFQ | SUFFOLK | VA (US) |
| STAR | TERKS | | | KNTU | VIRGINIA BEACH | VA (US) |

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 21

DATE OF REVISION: 08/07/2025

REASON FOR REVISION:

AIRSPACE DOCKET: ADDED 24-AEA-9

FIX USE: REMOVED V1, V38, V139, V286 AND DP KISRR KORF NORFOLK VA

04/07/25: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 01/15/25.

1. FIX USE: REMOVED DP HENRY KPHF NEWPORT NEWS VA

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: GALE SHELTON**APPROVED BY:****DATE:** 07/03/2025**OFFICE:** AJV-A423**NAME:** ALLAN WILL**SIGNATURE:**

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: 22-AEA-21

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 | FLAT ROCK | FAK | 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 | 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 | 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 | T287 | | | | | (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 | | | KSFQ | 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: 27

DATE OF REVISION: 07/11/2024

REASON FOR REVISION:

AIRSPACE DOCKET: ADDED 22-AEA-21
FIX USE: ADDED T287

| | | | |
|--|-------------------------|-------------------------|---------------------------|
| INITIATED BY: | DATE: | ORGANIZATION: | NAME: |
| OFFICE OF PRIMARY RESPONSIBILITY: | | AJV-A423 | NAME: GALE SHELTON |
| APPROVED BY: | DATE: 07/11/2024 | OFFICE: AJV-A423 | NAME: ALLAN WILL |
| | SIGNATURE: | | |

RADIO FIX AND HOLDING DATA RECORD

NAME: HARCUM VORTAC STATE: VA COUNTRY: US ICAO REGION CODE: K6
 LATITUDE/LONGITUDE: 372655.18N/0764240.87W 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 | HARCUM | HCM | 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 | SE | HCM | VORTAC | 155.00 | 335.00 | R | 1 | | 1700 | 6000 | 4 | 5 |
| 2 | W | HCM | VORTAC | 283.60 | 103.60 | L | 1 | | 2000 | 14000 | 4 | 10 |
| 3 | W | WP | WP | 283.60 | 103.60 | L | | 4 | 2000 | 6000 | 4 | 6 |

CONTROLLING OBSTRUCTIONS:

| PAT | AIRSPEED | OBSTRUCTION | COORDINATES | ELEVATION | ACCURACY CODE |
|-----|----------|-------------------|------------------------|-----------|---------------|
| 1 | 200 | AAO | 373039.00N/0764045.00W | 332 | 4E |
| 1 | 310 | TOWER (51-000309) | 371233.70N/0763232.20W | 564 | 5D |
| 2 | 200 | TOWER (51-001121) | 372700.20N/0764846.06W | 417 | 4D |
| 3 | 200 | TOWER (51-001121) | 372700.20N/0764846.06W | 417 | 4D |

REASON FOR NONSTANDARD HOLDING:

PAT 2 ATC REQUEST.
 PAT 3 ATC REQUEST.

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S)

PROCEDURES REQUIRING CLIMB-IN-HOLD:

| PAT | PROCEDURE TITLE | AIRPORT IDENT | CITY | STATE |
|-----|-----------------|---------------|------------|---------|
| 1 | LOC RWY 10 | KFYJ | WEST POINT | VA (US) |

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
 ASSIGNED FACILITY MAG VAR: 7W/1965.

FIX USE:

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|----------|--------------------------|-----|-----|---------------|----------------|---------|
| DP | SWABY | | | KNHK | PATUXENT RIVER | MD (US) |
| DP | HENRY | | | KPHF | NEWPORT NEWS | VA (US) |
| DP | CHAMBERS (OBSTACLE) | | | KNGU | NORFOLK | VA (US) |
| DP | KISRR | | | KORF | NORFOLK | VA (US) |
| DP | COLIN | | | KRIC | RICHMOND | VA (US) |
| DP | OCEANA | | | KNTU | VIRGINIA BEACH | VA (US) |
| EN ROUTE | T291 | | | | | (US) |
| EN ROUTE | V38 | | | | | (US) |
| IAP | COPTER RNAV (GPS) RWY 14 | | | KFAF | FORT EUSTIS | VA (US) |
| IAP | RNAV (GPS) RWY 14 | | | KFAF | FORT EUSTIS | VA (US) |
| IAP | LOC RWY 3 | | | KMFV | MELFA | VA (US) |
| IAP | ILS OR LOC RWY 25 | | 2 | KPHF | NEWPORT NEWS | VA (US) |
| IAP | ILS OR LOC RWY 7 | | 2 | KPHF | NEWPORT NEWS | VA (US) |
| IAP | LOC RWY 20 | | 2 | KPHF | NEWPORT NEWS | VA (US) |
| IAP | RNAV (GPS) RWY 2 | | | KPHF | NEWPORT NEWS | VA (US) |
| IAP | RNAV (GPS) RWY 20 | | | KPHF | NEWPORT NEWS | VA (US) |
| IAP | RNAV (GPS) RWY 25 | | | KPHF | NEWPORT NEWS | VA (US) |
| IAP | RNAV (GPS) RWY 7 | | | KPHF | NEWPORT NEWS | VA (US) |
| IAP | COPTER RNAV (GPS) 141 | | | KNHU | NORFOLK | VA (US) |
| IAP | ILS OR LOC RWY 23 | | 1 | KORF | NORFOLK | VA (US) |
| IAP | ILS OR LOC RWY 5 | | | KORF | NORFOLK | VA (US) |
| IAP | RNAV (GPS) RWY 14 | | | KORF | NORFOLK | VA (US) |
| IAP | VOR RWY 14 | | | KORF | NORFOLK | VA (US) |
| IAP | VOR/DME RWY 32 | | | KORF | NORFOLK | VA (US) |
| IAP | VOR RWY 23 | | | KPTB | PETERSBURG | VA (US) |
| IAP | RNAV (GPS) RWY 29 | | | W96 | QUINTON | VA (US) |
| IAP | ILS OR LOC RWY 02 | | | 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 | VOR RWY 2 | | | KRIC | RICHMOND | VA (US) |
| IAP | VOR RWY 34 | | | KRIC | RICHMOND | VA (US) |
| IAP | RNAV (GPS) RWY 1 | | | W75 | SALUDA | VA (US) |
| IAP | RNAV (GPS) RWY 28 | | | KXSA | TAPPAHANNOCK | VA (US) |
| IAP | LOC RWY 10 | | 1 | KFYJ | WEST POINT | VA (US) |
| IAP | VOR-A | | 1 | KFYJ | WEST POINT | VA (US) |
| IAP | RNAV (GPS)-C | | 3 | KJGG | WILLIAMSBURG | VA (US) |

| | | | | | |
|------|-------------------|---|------|----------------|---------|
| IAP | VOR-B | 2 | KJGG | WILLIAMSBURG | VA (US) |
| IAP | RNAV (GPS) RWY 23 | | W94 | WILLIAMSBURG | VA (US) |
| IAP | RNAV (GPS) RWY 5 | | W94 | WILLIAMSBURG | VA (US) |
| STAR | IRONS | | KDCA | 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 | | KSFQ | SUFFOLK | VA (US) |
| STAR | TERKS | | KNTU | VIRGINIA BEACH | VA (US) |

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 29

DATE OF REVISION: 12/26/2024

REASON FOR REVISION:

1. CHANGED "GPS RWY 1" TO "RNAV (GPS) RWY 1" AT W75 IN FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: DANIEL JOHNSEN

APPROVED BY:

DATE: 12/26/2024

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: HOPEWELL VORTAC **STATE:** VA **COUNTRY:** US **ICAO REGION CODE:** K6

LATITUDE/LONGITUDE: 371943.93N/0770657.40W **TYPE:**

AIRSPACE DOCKET: 22-ASO-23 **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 | HOPEWELL | HPW | 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 | NE | HPW | VORTAC | 025.00 | 205.00 | L | 1 | 2000 6000 | 4 5 |
| 2 | E | HPW | VORTAC | 072.00 | 252.00 | L | 1 | 3000 6000 | 4 5 |
| 3 | S | HPW | VORTAC | 183.00 | 003.00 | R | 1 | 2000 6000 | 4 5 |

CONTROLLING OBSTRUCTIONS:

| PAT | AIRSPEED | OBSTRUCTION | COORDINATES | ELEVATION | ACCURACY CODE |
|-----|----------|-------------------|------------------------|-----------|---------------|
| 1 | 200 | TOWER (51-000322) | 372315.00N/0770343.00W | 530 | 5D |
| 2 | 200 | TOWER (51-000322) | 372315.00N/0770343.00W | 530 | 5D |
| 3 | 200 | TOWER (51-000322) | 372315.00N/0770343.00W | 530 | 5D |

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST
PAT 2 ATC REQUEST

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ASSIGNED FACILITY MAG VAR: 6W/1965.

FIX USE:

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|----------|---------------------------|-----|-----|---------------|----------------|---------|
| DP | SWABY | | | KNHK | PATUXENT RIVER | MD (US) |
| DP | HENRY | | | KPHF | NEWPORT NEWS | VA (US) |
| DP | CHAMBERS (OBSTACLE) | | | KNGU | NORFOLK | VA (US) |
| DP | KISRR | | | KORF | NORFOLK | VA (US) |
| DP | OCEANA | | | KNTU | VIRGINIA BEACH | VA (US) |
| EN ROUTE | V213 | | | | | (US) |
| EN ROUTE | V260 | | | | | (US) |
| EN ROUTE | V615 | | | | | (US) |
| IAP | LOC RWY 34 | | | KEMV | EMPORIA | VA (US) |
| IAP | COPTER RNAV (GPS) RWY 14 | | | KFAF | FORT EUSTIS | VA (US) |
| IAP | RNAV (GPS) RWY 14 | | | KFAF | FORT EUSTIS | VA (US) |
| IAP | RNAV (GPS) RWY 27 | | | KFKN | FRANKLIN | VA (US) |
| IAP | ILS OR LOC RWY 7 | | | KPHF | NEWPORT NEWS | VA (US) |
| IAP | ILS OR LOC RWY 10 | | | KPVG | NORFOLK | VA (US) |
| IAP | LOC RWY 5 | | 3 | KPTB | PETERSBURG | VA (US) |
| IAP | RNAV (GPS) RWY 23 | | | KPTB | PETERSBURG | VA (US) |
| IAP | VOR RWY 23 | | 2 | KPTB | PETERSBURG | VA (US) |
| IAP | RNAV (GPS) RWY 29 | | | W96 | QUINTON | VA (US) |
| IAP | VOR-A | | 3 | W96 | QUINTON | VA (US) |
| IAP | ILS OR LOC RWY 33 | | | KFCI | RICHMOND | VA (US) |
| IAP | ILS OR LOC RWY 16 | | 1 | KRIC | RICHMOND | VA (US) |
| IAP | ILS OR LOC RWY 2 | | 3 | KRIC | RICHMOND | VA (US) |
| IAP | ILS OR LOC RWY 34 | | 1 | KRIC | RICHMOND | VA (US) |
| IAP | ILS RWY 34 (CAT II - III) | | 1 | KRIC | RICHMOND | VA (US) |
| IAP | ILS RWY 34 (SA CAT I) | | 1 | 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 16 | | 1 | KRIC | RICHMOND | VA (US) |
| IAP | VOR RWY 2 | | | KRIC | RICHMOND | VA (US) |
| IAP | VOR RWY 20 | | | KRIC | RICHMOND | VA (US) |
| IAP | LOC RWY 1 | | | KAVC | SOUTH HILL | VA (US) |
| IAP | NDB RWY 20 | | | KAKQ | WAKEFIELD | VA (US) |
| IAP | LOC RWY 10 | | 3 | KFYJ | WEST POINT | VA (US) |
| IAP | RNAV (GPS) RWY 10 | | | KFYJ | WEST POINT | VA (US) |
| IAP | RNAV (GPS)-C | | | KJGG | WILLIAMSBURG | VA (US) |
| IAP | VOR - B | | | KJGG | WILLIAMSBURG | VA (US) |
| IAP | RNAV (GPS) RWY 5 | | | W94 | WILLIAMSBURG | VA (US) |

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

COMPULSORY REPORTING POINT: NO**RECORD REVISION NUMBER: 33****DATE OF REVISION: 09/05/2024****REASON FOR REVISION:**AIRSPACE DOCKET: ADDED 22-ASO-23.
FIX USE: REMOVED V189 AND V454.**INITIATED BY:****DATE:****ORGANIZATION:****NAME:****OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A423

NAME: BARRY SMITH**APPROVED BY:****DATE: 09/05/2024****OFFICE: AJV-A423****NAME: ALLAN WILL****SIGNATURE:**

RADIO FIX AND HOLDING DATA RECORD

NAME: NORFOLK VOR/DME **STATE:** NE **COUNTRY:** US **ICAO REGION CODE:** K3

LATITUDE/LONGITUDE: 415916.54N/0972604.45W **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 | FEET | MRA | MAA |
|-----|---------|-------|---------|-------|---------|----------|-----|------------------|------|-----|-------|
| 1 | NORFOLK | OFK | 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 | DME | HOLDING ALTITUDES MIN | MAX | TEMPLATES MIN | MAX |
|-----|-----|-------|---------|-------------|-------------|---------------|-----------------|-----|-----------------------|-------|---------------|-----|
| 1 | NW | OFK | VOR/DME | 306.00 | 126.00 | R | 1 | | 4000 | 17500 | 4 | 16 |
| 2 | SE | OFK | VOR/DME | 142.00 | 322.00 | R | 1 | | 4000 | 17500 | 4 | 16 |
| 3 | NW | OFK | VOR/DME | 305.00 | 125.00 | R | 1 | | 3400 | 17500 | 4 | 16 |

CONTROLLING OBSTRUCTIONS:

| PAT | AIRSPEED | OBSTRUCTION | COORDINATES | ELEVATION | ACCURACY CODE |
|-----|----------|-------------------|------------------------|-----------|---------------|
| 1 | 200 | AAO | 420420.42N/0973355.93W | 2000 | 2C |
| 2 | 200 | TOWER (31-000621) | 420152.93N/0972126.96W | 2076 | 1C |
| 3 | 200 | AAO | 420420.42N/0973355.93W | 2000 | 2C |

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
FACILITY MAGVAR: 8E/1980

FIX USE:

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|----------|-------------------|-----|-----|---------------|----------|---------|
| DP | OMAHA | | | KOMA | OMAHA | NE (US) |
| EN ROUTE | V181 | | | | | (US) |
| IAP | LOC RWY 14 | 1 | | KOLU | COLUMBUS | NE (US) |
| IAP | VOR RWY 14 | | | KFET | FREMONT | NE (US) |
| IAP | ILS OR LOC RWY 2 | | 1 | KOFK | NORFOLK | NE (US) |
| IAP | VOR RWY 14 | | 3 | KOFK | NORFOLK | NE (US) |
| IAP | VOR RWY 32 | | 2 | KOFK | NORFOLK | NE (US) |
| IAP | RNAV (GPS) RWY 36 | | | KLCG | WAYNE | NE (US) |

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 22 **DATE OF REVISION:** 11/30/2023

REASON FOR REVISION:

REMOVED CATTLE DP FROM FIX USE AND ADDED OMAHA DP AT KOMA TO FIX USE.

9/13/23 THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 7/26/23.
1. REMOVED V219 FROM FIX USE.

INITIATED BY: **DATE:** **ORGANIZATION:** **NAME:**

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A433 **NAME:** FRANK MOORE

APPROVED BY: **DATE:** 08/10/2023 **OFFICE:** AJV-A430 **NAME:** JOHNNIE BAKER

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: SALISBURY VORTAC STATE: MD COUNTRY: US ICAO REGION CODE: K6
 LATITUDE/LONGITUDE: 382042.02N/0753038.07W TYPE:

AIRSPACE DOCKET: FIX TYPE OF ACTION: CANCEL

FIX MAKE-UP FACILITIES:

| FAC | NAME | IDENT | TYPE | CLASS | MAG BRG | TRUE BRG | DME | DIST FROM FAC NM | MRA | MAA |
|-----|-----------|-------|--------|-------|---------|----------|-----|------------------|-----|-------|
| 1 | SALISBURY | SBY | VORTAC | L | | | | | | 45000 |

FIX RESTRICTIONS:

MCA V29 5000 NORTHBOUND

HOLDING:

HOLDING TYPE OF ACTION: CANCEL

PATTERNS:

| PAT | DIR | IDENT | TYPE | RAD/CRS/BRG | CRS INBOUND | TURN (L OR R) | LEG TIME | LENGTH DME | HOLDING MIN | ALTITUDES MAX | TEMPLATES MIN | MAX |
|-----|-----|-------|--------|-------------|-------------|---------------|----------|------------|-------------|---------------|---------------|-----|
| 1 | NE | SBY | VORTAC | 039.00 | 219.00 | L | 1 | | 2000 | 6000 | 4 | 5 |

CONTROLLING OBSTRUCTIONS:

| PAT | AIRSPEED | OBSTRUCTION | COORDINATES | ELEVATION | ACCURACY CODE |
|-----|----------|-------------------|------------------------|-----------|---------------|
| 1 | 200 | TOWER (24-000750) | 382300.26N/0752451.85W | 407 | 5D |

REASON FOR NONSTANDARD HOLDING:

PAT 1 TO AVOID RESTRICTED AREA R-4006

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
 MAGNETIC VARIATION: 12W/EPOCH YEAR 2000.

FIX USE:

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|----------|-------------------------|-----|-----|---------------|----------------|---------|
| DP | ATLANTIC CITY | | | KACY | ATLANTIC CITY | NJ (US) |
| DP | LEEAH | | | KMIV | MILLVILLE | NJ (US) |
| DP | HENRY | | | KPHF | NEWPORT NEWS | VA (US) |
| DP | CHAMBERS | | | KNGU | NORFOLK | VA (US) |
| DP | COPTER PRIDE | | | KNHU | NORFOLK | VA (US) |
| DP | KISRR | | | KORF | NORFOLK | VA (US) |
| EN ROUTE | V1 | | | | | (US) |
| EN ROUTE | V29 | | | | | (US) |
| IAP | RNAV (GPS)-A | | | N06 | LAUREL | DE (US) |
| IAP | ILS OR LOC RWY 32 | | | KSBY | SALISBURY | MD (US) |
| IAP | RNAV (GPS) RWY 14 | | | KSBY | SALISBURY | MD (US) |
| IAP | RNAV (GPS) RWY 23 | | | KSBY | SALISBURY | MD (US) |
| IAP | RNAV (GPS) RWY 32 | | | KSBY | SALISBURY | MD (US) |
| IAP | RNAV (GPS) RWY 5 | | | KSBY | SALISBURY | MD (US) |
| IAP | VOR RWY 5 | | 1 | KSBY | SALISBURY | MD (US) |
| IAP | VOR/DME OR TACAN RWY 10 | | | KWAL | WALLOPS ISLAND | VA (US) |

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 21

DATE OF REVISION: 06/12/2025

REASON FOR REVISION:

FIX USE: REMOVED FAC 1 FROM KNGU CHAMBERS AND KNHU COPTER PRIDE.
 FIX USE: REMOVED KOXB RNAV (GPS) RWY 2 AND VOR-A.
 FIX USE: REMOVED KCGE RNAV (GPS) RWY 34.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: ANDRE TUCKER

APPROVED BY:

DATE: 07/03/2025

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: SNOW HILL VORTAC

STATE: MD

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 380323.74N/0752750.04W

TYPE:

AIRSPACE DOCKET:

FIX TYPE OF ACTION: CANCEL

FIX MAKE-UP FACILITIES:

| FAC | NAME | IDENT | TYPE | CLASS | MAG BRG | TRUE BRG | DME | DIST FROM FAC NM FEET | MRA | MAA |
|-----|-----------|-------|--------|-------|---------|----------|-----|--------------------------|-----|-------|
| 1 | SNOW HILL | SWL | VORTAC | L | | | | | | 45000 |

HOLDING:

HOLDING TYPE OF ACTION: CANCEL

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 | SWL | VORTAC | 219.05 | 039.05 | L | 1 | 2000 6000 | 5 7 |
| 2 | NE | WP | WP | 052.00 | 232.00 | R | 4 | 2000 6000 | 4 6 |

CONTROLLING OBSTRUCTIONS:

| PAT | AIRSPEED | OBSTRUCTION | COORDINATES | ELEVATION | ACCURACY CODE |
|-----|----------|-------------------|------------------------|-----------|---------------|
| 1 | 230 | TOWER (24-000639) | 380436.36N/0753216.74W | 424 | 1A |
| 2 | 200 | TOWER (24-000639) | 380436.36N/0753216.74W | 424 | 1A |

REASON FOR NONSTANDARD HOLDING:

PAT 1 TO AVOID RESTRICTED AREA R-6604

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
PAT 1 EVALUATED AT 230 KIAS FOR HIGH PERFORMANCE NASA AIRCRAFT.
SWL ASSIGNED MAGNETIC VARIATION: 8W/EPOCH YEAR 1965.
USED ON SID AND STAR UP TO 45000 ESV ON FILE.
CHART SUBDUED ON EN ROUTE HIGH.

FIX USE:

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|----------|---------------------|-----|-----|---------------|----------------|---------|
| DP | HENRY | | | KPHF | NEWPORT NEWS | VA (US) |
| DP | CHAMBERS (OBSTACLE) | | | KNGU | NORFOLK | VA (US) |
| DP | KISRR | | | KORF | NORFOLK | VA (US) |
| EN ROUTE | V139 | | | | | (US) |
| EN ROUTE | V29 | | | | | (US) |
| IAP | RNAV (GPS)-B | | 2 | W41 | CRISFIELD | MD (US) |
| IAP | ILS OR LOC RWY 32 | | | KSBY | SALISBURY | MD (US) |
| IAP | RNAV (GPS) RWY 32 | | | KSBY | SALISBURY | MD (US) |
| IAP | VOR OR TACAN RWY 17 | | 1 | KWAL | WALLOPS ISLAND | VA (US) |

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 20

DATE OF REVISION:

REASON FOR REVISION:

FIX USE: REMOVED STAR CEDAR LAKE KILG.
FIX USE: REMOVED STAR CEDAR LAKE KTTN.
FIX USE: REMOVED STAR CEDAR LAKE KMQS.
FIX USE: REMOVED STAR CEDAR LAKE KPHL.
FIX USE: REMOVED STAR CEDAR LAKE KPNE.
FIX USE: REMOVED KOXB RNAV (GPS) RWY 2 AND VOR-A.
REQUIRED CHARTING: REMOVED STAR.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: ANDRE TUCKER

APPROVED BY:

DATE: 07/03/2025

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE: