

RADIO FIX AND HOLDING DATA RECORD

NAME: HAGERSTOWN VOR **STATE:** MD **COUNTRY:** US **ICAO REGION CODE:** K6

LATITUDE/LONGITUDE: 394151.82N/0775120.59W **TYPE:**

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

| FAC | NAME | IDENT | TYPE | CLASS | MAG BRG | TRUE BRG | DME | DIST FROM NM | FAC FEET | MRA | MAA |
|-----|------------|-------|------|-------|---------|----------|-----|--------------|----------|-----|-------|
| 1 | HAGERSTOWN | HGR | VOR | L | | | | | | | 17500 |

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

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 | HGR | L-VOR | 246.21 | 066.21 | R | 1 | | 3600 | 8000 | 4 | 8 |
| 2 | E | HGR | L-VOR | 095.56 | 275.56 | R | 1 | | 3600 | 8000 | 4 | 8 |

CONTROLLING OBSTRUCTIONS:

| PAT | AIRSPEED | OBSTRUCTION | COORDINATES | ELEVATION | ACCURACY CODE |
|-----|----------|-------------|------------------------|-----------|---------------|
| 1 | 200 | AAO | 394242.80N/0775820.12W | 2229 | 2C |
| 1 | 310 | AAO | 394342.44N/0775929.50W | 2262 | 2C |
| 2 | 200 | AAO | 394409.69N/0775456.57W | 1979 | 2C |

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

| PAT | PROCEDURE TITLE | AIRPORT IDENT | CITY | STATE |
|-----|-----------------|---------------|------------|---------|
| 1 | VOR RWY 09 | KHGR | HAGERSTOWN | MD (US) |

REMARKS:

PRECIPITOUS TERRAIN EVALUATIONS COMPLETED.
HGR VOR MAGNETIC VARIATION W 07.

FIX USE:

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|----------|-------------------|-----|-----|---------------|------------------|---------|
| DP | TAKEOFF MINS | | | KHGR | HAGERSTOWN | MD (US) |
| DP | TAKEOFF MINS | | | KN68 | CHAMBERSBURG | PA (US) |
| DP | PTOMC (RNAV) | | | KJYO | LEESBURG | VA (US) |
| DP | TAKEOFF MINS | | | KW35 | BERKELEY SPRINGS | WV (US) |
| EN ROUTE | V268 | | | | | (US) |
| EN ROUTE | V377 | | | | | (US) |
| EN ROUTE | V438 | | | | | (US) |
| EN ROUTE | V501 | | | | | (US) |
| IAP | LOC/DME RWY 23 | | | KCBE | CUMBERLAND | MD (US) |
| IAP | VOR RWY 09 | | 1 | KHGR | HAGERSTOWN | MD (US) |
| IAP | RNAV (GPS) RWY 6 | | | KN68 | CHAMBERSBURG | PA (US) |
| IAP | RNAV (GPS) RWY 29 | | | KW35 | BERKELEY SPRINGS | WV (US) |
| IAP | VOR RWY 29 | | 2 | KW35 | BERKELEY SPRINGS | WV (US) |

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 11 **DATE OF REVISION:** 09/13/2018

REASON FOR REVISION:

CHANGE HOLDING PTN 2 INBOUND COURSE FROM 276.56. TO 275.56.
ADD FACILITY MAGNETIC VARIATION TO REMARKS.

DEVELOPED BY: **DATE:** 05/10/2018 **OFFICE:** AJV-5400 **NAME:** LONNIE EVERHART (BARRY SMITH)

APPROVED BY: **DATE:** **OFFICE:** AJV-5400 **NAME:** LONNIE EVERHART

SIGNATURE:

DISTRIBUTION: NFDC
FPO: EST
ARTCC: ZOB, ZDC
ATC FACILITY: PCT APP CON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: KESSEL VOR/DME STATE: WV COUNTRY: US ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 391331.77N/0785922.20W 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 | KESSEL | ESL | 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 TIME | LENGTH DME | HOLDING ALTITUDES MIN | MAX | TEMPLATES MIN | MAX |
|-----|-----|-------|---------|-------------|-------------|---------------|----------|------------|-----------------------|-------|---------------|-----|
| 1 | NE | ESL | VOR/DME | 033.00 | 213.00 | L | 1 | | 5000 | 14000 | 5 | 10 |
| 2 | NE | | WP | 033.00 | 213.00 | L | | 5 | 5000 | 6000 | 6 | 6 |
| 3 | NE | | WP | 033.00 | 213.00 | L | | 4 | 5000 | 6000 | 4 | 4 |

CONTROLLING OBSTRUCTIONS:

| PAT | AIRSPEED | OBSTRUCTION | COORDINATES | ELEVATION | ACCURACY CODE |
|-----|----------|-------------------|------------------------|-----------|---------------|
| UPN | 265 | TOWER (54-000882) | 391024.60N/0791840.30W | 4279 | 5E |
| 1 | 200 | AAO | 391006.00N/0790139.00W | 2907 | 4E |
| 2 | 200 | AAO | 391006.00N/0790139.00W | 2907 | 4E |
| 3 | 100 | AAO | 391006.00N/0790139.00W | 2907 | 4E |

PRECIPITOUS TERRAIN ADDITIONS:

| PAT | SPEED | ADDITION |
|-----|-------|----------|
| 2 | 200 | 180 |
| 3 | 100 | 160 |

REASON FOR NONSTANDARD HOLDING:

PAT 1 HIGH TERRAIN WEST OF INBOUND COURSE.
PAT 2 HIGH TERRAIN WEST OF INBOUND COURSE.
PAT 3 HIGH TERRAIN WEST OF INBOUND COURSE.

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 6000.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ESL VOR/DME MAG VAR: 1965/W06.

FIX USE:

| USE TYPE | USE TITLE | FAC | PAT | AIRPORT IDENT | CITY | STATE |
|----------|--------------------------|-----|-----|---------------|----------------------|---------|
| DP | TRIXY | | | KMRB | MARTINSBURG | WV (US) |
| DP | TAKEOFF MINIMUMS | | | KW99 | PETERSBURG | WV (US) |
| EN ROUTE | J30 | | | | | (US) |
| EN ROUTE | J34 | | | | | (US) |
| EN ROUTE | V144 | | | | | (US) |
| EN ROUTE | V166 | | | | | (US) |
| EN ROUTE | V377 | | | | | (US) |
| EN ROUTE | V4 | | | | | (US) |
| IAP | LOC/DME RWY 23 | | | KCBE | CUMBERLAND | MD (US) |
| IAP | RNAV (GPS) RWY 14 | | | KHMZ | BEDFORD | PA (US) |
| IAP | RNAV (GPS) RWY 32 | | | KHMZ | BEDFORD | PA (US) |
| IAP | COPTER RNAV (GPS) RWY 31 | | 3 | KW99 | PETERSBURG | WV (US) |
| IAP | LDA/DME-B | | 1 | KW99 | PETERSBURG | WV (US) |
| IAP | RNAV (GPS) Y RWY 31 | | 2 | KW99 | PETERSBURG | WV (US) |
| IAP | RNAV (GPS) Z RWY 31 | | 2 | KW99 | PETERSBURG | WV (US) |
| IAP | RNAV (GPS)-C | | 2 | KW99 | PETERSBURG | WV (US) |
| IAP | VOR/DME-A | | 1 | KW99 | PETERSBURG | WV (US) |
| STAR | TIKEE (RNAV) | | | KHEF | DISTRICT OF COLUMBIA | DC (US) |
| STAR | NUMMY | | | KDCA | WASHINGTON | DC (US) |
| STAR | TIKEE (RNAV) | | | KDCA | WASHINGTON | DC (US) |
| STAR | DOCCS | | | KIAD | WASHINGTON | DC (US) |
| STAR | WESTMINSTER | | | KBWI | BALTIMORE | MD (US) |
| STAR | WESTMINSTER | | | KMTN | BALTIMORE | MD (US) |
| STAR | NUMMY | | | KADW | CAMP SPRINGS | MD (US) |
| STAR | TIKEE (RNAV) | | | KADW | CAMP SPRINGS | MD (US) |
| STAR | TIKEE (RNAV) | | | KW32 | CLINTON | MD (US) |
| STAR | TIKEE (RNAV) | | | KVKX | FRIENDLY | MD (US) |
| STAR | TIKEE (RNAV) | | | K2W5 | INDIAN HEAD | MD (US) |
| STAR | TIKEE (RNAV) | | | KW00 | MITCHELLVILLE | MD (US) |
| STAR | TIKEE (RNAV) | | | KCJR | CULPEPER | VA (US) |
| STAR | NUMMY | | | KDAA | FORT BELVOIR | VA (US) |
| STAR | TIKEE (RNAV) | | | KDAA | FORT BELVOIR | VA (US) |
| STAR | TIKEE (RNAV) | | | KEZF | FREDERICKSBURG | VA (US) |
| STAR | DOCCS | | | KJYO | LEESBURG | VA (US) |

| | | | | |
|------|--------------|-------|------------|---------|
| STAR | TIKEE (RNAV) | KNYG | QUANTICO | VA (US) |
| STAR | TIKEE (RNAV) | KRMN | STAFFORD | VA (US) |
| STAR | TIKEE (RNAV) | K2VG2 | UPPERVILLE | VA (US) |
| STAR | TIKEE (RNAV) | KHWY | WARRENTON | VA (US) |

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 10

DATE OF REVISION: 05/24/2018

REASON FOR REVISION:

REMARKS: ADDED FACILITY MAG VAR.
FIX USE: REMOVED KEKN LDA-C.

DEVELOPED BY: **DATE:** 11/22/2017 **OFFICE:** AJV-5422 **NAME:** DAVID DOWLING

APPROVED BY: **DATE:** **OFFICE:** AJV-5420 **NAME:** JULIE MORGAN

SIGNATURE:

DISTRIBUTION: **NFDC**
 FPO: EST
 ARTCC: ZDC
 ATC FACILITY: POTOMAC APP CON
 OTHER: