

# RADIO FIX AND HOLDING DATA RECORD

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

LATITUDE/LONGITUDE: 392647.56N/0772147.67W TYPE: WP

AIRSPACE DOCKET: FIX TYPE OF ACTION: NO CHANGE

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<br>MIN | ALTITUDES<br>MAX | TEMPLATES<br>MIN MAX |
|-----|-----|-------|------|-------------|----------------|------------------|------------------------|----------------|------------------|----------------------|
| 1   | W   |       | WP   | 281.68      | 101.68         | R                | 5                      | 11000          | 12000            | 10 10                |

## CONTROLLING OBSTRUCTIONS:

| PAT | AIRSPEED | OBSTRUCTION | COORDINATES            | ELEVATION | ACCURACY CODE |
|-----|----------|-------------|------------------------|-----------|---------------|
| 1   | 230      | AAO         | 392939.00N/0772957.00W | 1959      | 4B            |

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

## FIX USE:

| USE TYPE | USE TITLE    | FAC | PAT | AIRPORT IDENT | CITY      | STATE   |
|----------|--------------|-----|-----|---------------|-----------|---------|
| STAR     | ANTHM (RNAV) |     | 1   | KBWI          | BALTIMORE | MD (US) |
| STAR     | ANTHM (RNAV) |     | 1   | KMTN          | BALTIMORE | MD (US) |

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 DATE OF REVISION: 09/05/2024

## REASON FOR REVISION:

1. CHARTING: ADDED "EN ROUTE HIGH", "EN ROUTE LOW", "CONTROLLER HIGH", AND "CONTROLLER LOW"
2. CONT OBS: UPDATED PAT 1 OBS FROM "AAO 393239.00N/0773000.00W 1979 4E" TO "AAO 392939.00N/0772957.00W 1959 4B"

INITIATED BY: DATE: ORGANIZATION: NAME:

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A423 NAME: HENRY BRADSHAW

APPROVED BY: DATE: 09/05/2024 OFFICE: AJV-A423 NAME: ALLAN WILL

SIGNATURE:

Digitally signed by  
**ALLAN WILL**  
May 06, 2024



# RADIO FIX AND HOLDING DATA RECORD

NAME: ARYIA

STATE: MD

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 392833.22N/0771350.97W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:  
USE TYPE  
STAR

USE TITLE  
ANTHM (RNAV)

FAC

PAT

AIRPORT IDENT  
KBWI

CITY  
BALTIMORE

STATE  
MD (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 09/05/2024

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: HENRY BRADSHAW

APPROVED BY:

DATE: 09/05/2024

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

*Digitally signed by*

**ALLAN WILL**

May 06, 2024

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: ASHOR

STATE: MD

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 391427.03N/0762343.78W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

**REMARKS:**

NAME RETAINED DUE TO ATC OPERATIONAL REQUIREMENT.

**FIX USE:**

**USE TYPE**

STAR  
STAR

**USE TITLE**

ANTHM (RNAV)  
TRISH (RNAV)

**FAC**

**PAT**

**AIRPORT IDENT**

KBWI  
KBWI

**CITY**

BALTIMORE  
BALTIMORE

**STATE**

MD (US)  
MD (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 09/05/2024

**REASON FOR REVISION:**

1. LATITUDE/LONGITUDE: RELOCATED 1.03 NM NE.
2. REMARKS: REMOVED "REMOVED ANTHM AND TRISH STARS FOR KMTN"

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: HENRY BRADSHAW

APPROVED BY:

DATE: 09/05/2024

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

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**ALLAN WILL**

May 06, 2024

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: BUBBI

STATE: WV

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 392703.29N/0780814.71W

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<br>NM FEET | MRA  | MAA   |
|-----|-------------|-------|--------|-------|---------|----------|-------|--------------------------|------|-------|
| 1   | MARTINSBURG | MRB   | VORTAC | L     | 293.34  | 286.34   | 14.00 | 14.00                    | 5000 | 17500 |
| 2   | LINDEN      | LDN   | VORTAC | L     | 011.06  | 005.06   |       | 35.90                    | 5000 | 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   | NW  | MRB   | VORTAC | 293.34      | 113.34         | R                | 1-1 1/2                | 6000 17000                   | 8 18                 |
| 2   | NW  |       | WP     | 297.14      | 117.14         | R                | 10                     | 15000 17000                  | 16 17                |
| 3   | NW  |       | WP     | 297.35      | 117.35         | R                | 10                     | 15000 18000                  | 16 17                |

## CONTROLLING OBSTRUCTIONS:

| PAT | AIRSPEED | OBSTRUCTION       | COORDINATES            | ELEVATION | ACCURACY CODE |
|-----|----------|-------------------|------------------------|-----------|---------------|
| 1   | 210      | TOWER (54-020004) | 392639.32N/0782051.08W | 2905      | 2C            |
| 2   | 265      | TOWER (54-020004) | 392639.32N/0782051.08W | 2905      | 2C            |
| 3   | 265      | TOWER (54-020004) | 392639.32N/0782051.08W | 2905      | 2C            |

## HOLDING RESTRICTIONS:

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

## REMARKS:

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

## FIX USE:

| USE TYPE | USE TITLE    | FAC  | PAT | AIRPORT IDENT | CITY           | STATE   |
|----------|--------------|------|-----|---------------|----------------|---------|
| STAR     | ARLFT (RNAV) |      | 3   | KDOV          | DOVER          | DE (US) |
| STAR     | ARLFT (RNAV) |      | 3   | 33N           | DOVER/CHESWOLD | DE (US) |
| STAR     | ARLFT (RNAV) |      | 3   | KILG          | WILMINGTON     | DE (US) |
| STAR     | ANTHM (RNAV) |      | 2   | KBWI          | BALTIMORE      | MD (US) |
| STAR     | WESTMINSTER  | 1, 2 | 1   | KBWI          | BALTIMORE      | MD (US) |
| STAR     | ANTHM (RNAV) |      | 2   | KMTN          | BALTIMORE      | MD (US) |
| STAR     | WESTMINSTER  | 1, 2 | 1   | KMTN          | BALTIMORE      | MD (US) |

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 09/05/2024

## REASON FOR REVISION:

1. CHARTING: ADDED "EN ROUTE HIGH" AND "EN ROUTE LOW"

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: HENRY BRADSHAW

APPROVED BY:

DATE: 09/05/2024

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

Digitally signed by

ALLAN WILL

May 06, 2024

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: BYNER

STATE: PA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 394621.42N/0793532.46W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

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 | ALTITUDES<br>MAX | TEMPLATES<br>MIN | TEMPLATES<br>MAX |
|-----|-----|-------|------|-------------|----------------|------------------|------------------------|--------------------------|------------------|------------------|------------------|
| 1   | NW  |       | WP   | 295.09      | 115.09         | R                | 10                     | 18000                    | 45000            | 17               | 30               |

## CONTROLLING OBSTRUCTIONS:

| PAT | AIRSPEED | OBSTRUCTION | COORDINATES            | ELEVATION | ACCURACY CODE |
|-----|----------|-------------|------------------------|-----------|---------------|
| 1   | 265      | AAO         | 393430.00N/0792954.00W | 3245      | 4B            |

## PRECIPITOUS TERRAIN ADDITIONS:

| PAT | SPEED | ADDITION |
|-----|-------|----------|
| 1   | 265   | 90       |

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

## FIX USE:

| USE TYPE | USE TITLE    | FAC | PAT | AIRPORT IDENT | CITY      | STATE   |
|----------|--------------|-----|-----|---------------|-----------|---------|
| STAR     | ANTHM (RNAV) |     | 1   | KBWI          | BALTIMORE | MD (US) |
| STAR     | ANTHM (RNAV) |     | 1   | KMTN          | BALTIMORE | MD (US) |

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 09/05/2024

## REASON FOR REVISION:

1. PATTERNS: UPDATED PAT 1 MIN/MAX TEMPLATES FROM "18/31" TO "17/30"
2. CHARTING: ADDED "EN ROUTE HIGH", "EN ROUTE LOW", "CONTROLLER HIGH" AND "CONTROLLER LOW"
3. CONT OBS: ADDED "AAO 393430.00N/0792954.00W 3245 4B"
4. REMARKS: ADDED "PRECIPITOUS TERRAIN EVALUATION COMPLETED."

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: HENRY BRADSHAW

APPROVED BY:

DATE: 09/05/2024

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

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**ALLAN WILL**

May 06, 2024

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: CURBY

STATE: MD

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 393317.96N/0783635.74W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## FIX USE:

### USE TYPE

STAR  
STAR  
STAR  
STAR  
STAR

### USE TITLE

ARLFT (RNAV)  
ARLFT (RNAV)  
ARLFT (RNAV)  
ANTHM (RNAV)  
ANTHM (RNAV)

### FAC

### PAT

### AIRPORT IDENT

KDOV  
33N  
KILG  
KBWI  
KMTN

### CITY

DOVER  
DOVER/CHESWOLD  
WILMINGTON  
BALTIMORE  
BALTIMORE

### STATE

DE (US)  
DE (US)  
DE (US)  
MD (US)  
MD (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 09/05/2024

## REASON FOR REVISION:

1. CHARTING: ADDED "EN ROUTE HIGH". "EN ROUTE LOW", "CONTROLLER HIGH", AND "CONTROLLER LOW"

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: HENRY BRADSHAW

APPROVED BY:

DATE: 09/05/2024

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

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**ALLAN WILL**

May 06, 2024

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: EAGLL

STATE: MD

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 392702.08N/0774407.71W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

**FIX USE:**

USE TYPE  
STAR  
STAR

USE TITLE  
ANTHM (RNAV)  
ANTHM (RNAV)

FAC

PAT

AIRPORT IDENT  
KBWI  
KMTN

CITY  
BALTIMORE  
BALTIMORE

STATE  
MD (US)  
MD (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 09/05/2024

**REASON FOR REVISION:**

1. CHARTING: ADDED "EN ROUTE HIGH", "EN ROUTE LOW", "CONTROLLER HIGH", AND "CONTROLLER LOW"

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: HENRY BRADSHAW

APPROVED BY:

DATE: 09/05/2024

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

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**ALLAN WILL**

May 06, 2024

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: GRAMZ

STATE: MD

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 391414.65N/0762031.37W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

NAME RETAINED FOR ATC OPERATIONAL REQUIREMENTS.

## FIX USE:

### USE TYPE

STAR  
STAR

### USE TITLE

ANTHM (RNAV)  
TRISH (RNAV)

### FAC

### PAT

### AIRPORT IDENT

KBWI  
KBWI

### CITY

BALTIMORE  
BALTIMORE

### STATE

MD (US)  
MD (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 09/05/2024

## REASON FOR REVISION:

1. LATITUDE/LONGITUDE: RELOCATED 1.68 NM NW.
2. REMARKS: REMOVED "REMOVED ANTHM AND TRISH STARS FOR KMTN"

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: HENRY BRADSHAW

APPROVED BY:

DATE: 09/05/2024

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

*Digitally signed by*

**ALLAN WILL**

May 06, 2024

QUALITY  
14  
CHECKED



# RADIO FIX AND HOLDING DATA RECORD

NAME: HOIST

STATE: MD

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 391539.16N/0770203.55W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: CANCEL

HOLDING:

HOLDING TYPE OF ACTION:

REMARKS:

REMOVED ANTHM AND TRISH STARS FOR KMTN

FIX USE:

USE TYPE

STAR  
STAR

USE TITLE

ANTHM (RNAV)  
TRISH (RNAV)

FAC

PAT

AIRPORT IDENT

KBWI  
KBWI

CITY

BALTIMORE  
BALTIMORE

STATE

MD (US)  
MD (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 03/31/2016

REASON FOR REVISION:

FIX IS NOT USED FOR TRANSITION TO KMTN

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 10/27/2015

OFFICE: AJV-5441

NAME: EUGENE NEWTON

APPROVED BY:

DATE: 09/05/2024

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

*Digitally signed by*

**ALLAN WILL**

May 06, 2024

DISTRIBUTION:

NFDC

FPO: EST

ARTCC: ZDC

ATC FACILITY: PCT APP CON

OTHER:

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: JABRR

STATE: MD

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 392604.46N/0770357.57W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE  
STAR  
STAR

USE TITLE  
ANTHM (RNAV)  
ANTHM (RNAV)

FAC

PAT

AIRPORT IDENT  
KBWI  
KMTN

CITY  
BALTIMORE  
BALTIMORE

STATE  
MD (US)  
MD (US)

REQUIRED CHARTING: STAR, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 09/05/2024

REASON FOR REVISION:

1. CHARTING: ADDED "EN ROUTE LOW" AND "CONTROLLER LOW"

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: HENRY BRADSHAW

APPROVED BY:

DATE: 09/05/2024

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

*Digitally signed by*

**ALLAN WILL**

May 06, 2024

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: KEESH

STATE: WV

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 393038.33N/0782408.14W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## FIX USE:

### USE TYPE

STAR  
STAR  
STAR  
STAR  
STAR

### USE TITLE

ARLFT (RNAV)  
ARLFT (RNAV)  
ARLFT (RNAV)  
ANTHM (RNAV)  
ANTHM (RNAV)

### FAC

### PAT

### AIRPORT IDENT

KDOV  
33N  
KILG  
KBWI  
KMTN

### CITY

DOVER  
DOVER/CHESWOLD  
WILMINGTON  
BALTIMORE  
BALTIMORE

### STATE

DE (US)  
DE (US)  
DE (US)  
MD (US)  
MD (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 09/05/2024

## REASON FOR REVISION:

1. CHARTING: ADDED "EN ROUTE HIGH" AND "CONTROLLER HIGH"

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: HENRY BRADSHAW

APPROVED BY:

DATE: 09/05/2024

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

*Digitally signed by*

**ALLAN WILL**

May 06, 2024

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: KEMAN

STATE: PA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 395137.81N/0800230.15W

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 | FAC FEET | MRA   | MAA   |
|-----|--------------|-------|---------|-------|---------|----------|-------|------------------|----------|-------|-------|
| 1   | BELLAIRE     | AIR   | VOR/DME | H     | 111.44  | 104.44   | 37.00 | 37.00            |          | 18000 | 45000 |
| 2   | ELLWOOD CITY | EWC   | VOR/DME | VH    | 180.27  | 172.27   |       | 58.35            |          | 18000 | 45000 |

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

BELLAIRE (FAC 1) AND ELLWOOD CITY (FAC 2) USED TO ESTABLISH FIX COORDINATES.

## FIX USE:

| USE TYPE | USE TITLE    | FAC  | PAT | AIRPORT IDENT | CITY       | STATE   |
|----------|--------------|------|-----|---------------|------------|---------|
| DP       | ALLEGHENY    | 1, 2 |     | KAGC          | PITTSBURGH | PA (US) |
| DP       | PITTSBURGH   | 1, 2 |     | KPIT          | PITTSBURGH | PA (US) |
| STAR     | ANTHM (RNAV) |      |     | KBWI          | BALTIMORE  | MD (US) |
| STAR     | WESTMINSTER  | 1, 2 |     | KBWI          | BALTIMORE  | MD (US) |
| STAR     | ANTHM (RNAV) |      |     | KMTN          | BALTIMORE  | MD (US) |
| STAR     | WESTMINSTER  | 1, 2 |     | KMTN          | BALTIMORE  | MD (US) |

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 09/05/2024

## REASON FOR REVISION:

1. FIX MAKE-UP: UPDATED FAC 2 ELLWOOD CITY EWC VOR/DME CLASS FROM "H" TO "VH".
2. CHARTING: UPDATED "CONTROLLER" TO "CONTROLLER HIGH"; ADDED "EN ROUTE LOW" AND "CONTROLLER LOW".

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: HENRY BRADSHAW

APPROVED BY:

DATE: 09/05/2024

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

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**ALLAN WILL**

May 06, 2024



# RADIO FIX AND HOLDING DATA RECORD

NAME: LUNDY

STATE: MD

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 393939.40N/0790534.57W

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 | FEET | MRA   | MAA   |
|-----|-------------|-------|---------|-------|---------|----------|-------|------------------|------|-------|-------|
| 1   | BELLAIRE    | AIR   | VOR/DME | H     | 111.44  | 104.44   | 82.50 | 82.50            |      | 18000 | 45000 |
| 2   | KESSEL      | ESL   | VOR/DME | L     | 355.60  | 349.60   |       | 26.54            |      | 18000 | 45000 |
| 3   | MARTINSBURG | MRB   | VORTAC  | L     | 293.34  | 286.34   | 60.09 | 60.09            |      | 18000 | 45000 |

## EXPANDED SERVICE VOLUME (ESV):

| FAC IDENT | FAC TYPE | RADIAL/BEARING | DISTANCE | MIN ALTITUDE | MAX ALTITUDE |
|-----------|----------|----------------|----------|--------------|--------------|
| ESL       | VOR/DME  | R-356          | 27       | 18000        | 45000        |
| MRB       | VORTAC   | R-293          | 61       | 18000        | 45000        |

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

BELLAIRE (FAC 1) AND KESSEL (FAC 2) USED TO ESTABLISH FIX COORDINATES.

## FIX USE:

| USE TYPE | USE TITLE    | FAC     | PAT | AIRPORT IDENT | CITY           | STATE   |
|----------|--------------|---------|-----|---------------|----------------|---------|
| STAR     | ARLFT (RNAV) |         |     | KDOV          | DOVER          | DE (US) |
| STAR     | ARLFT (RNAV) |         |     | 33N           | DOVER/CHESWOLD | DE (US) |
| STAR     | ARLFT (RNAV) |         |     | KILG          | WILMINGTON     | DE (US) |
| STAR     | ANTHM (RNAV) |         |     | KBWI          | BALTIMORE      | MD (US) |
| STAR     | WESTMINSTER  | 1, 2, 3 |     | KBWI          | BALTIMORE      | MD (US) |
| STAR     | ANTHM (RNAV) |         |     | KMTN          | BALTIMORE      | MD (US) |
| STAR     | WESTMINSTER  | 1, 2, 3 |     | KMTN          | BALTIMORE      | MD (US) |

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 09/05/2024

## REASON FOR REVISION:

1. ESV: UPDATED MRB VORTAC DISTANCE FROM "60" TO "61"
2. FIX USE: UPDATED ARLFT (RNAV) KILG FROM "IAP" TO "STAR"
3. CHARTING: ADDED "EN ROUTE LOW" AND "CONTROLLER LOW"

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: HENRY BRADSHAW

APPROVED BY:

DATE: 09/05/2024

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

*Digitally signed by*

**ALLAN WILL**

May 06, 2024

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: NUSMM

STATE: OH

COUNTRY: US

ICAO REGION CODE: K5

LATITUDE/LONGITUDE: 400201.29N/0804902.02W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## PATTERNS:

| PAT | DIR | IDENT | TYPE | RAD/CRS/BRG | CRS<br>INBOUND | TURN<br>(L OR R) | LEG<br>TIME | LENGTH<br>DME | HOLDING<br>MIN | ALTITUDES<br>MAX | TEMPLATES<br>MIN | MAX |
|-----|-----|-------|------|-------------|----------------|------------------|-------------|---------------|----------------|------------------|------------------|-----|
| 1   | NW  |       | WP   | 296.93      | 116.93         | L                |             | 10            | 18000          | 45000            | 17               | 30  |

## CONTROLLING OBSTRUCTIONS:

| PAT | AIRSPEED | OBSTRUCTION       | COORDINATES            | ELEVATION | ACCURACY CODE |
|-----|----------|-------------------|------------------------|-----------|---------------|
| 1   | 265      | TOWER (39-000613) | 400532.25N/0811718.40W | 2314      | 5E            |

## REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

## FIX USE:

| USE TYPE | USE TITLE    | FAC | PAT | AIRPORT IDENT | CITY          | STATE   |
|----------|--------------|-----|-----|---------------|---------------|---------|
| DP       | AHMET (RNAV) |     |     | KBKL          | CLEVELAND     | OH (US) |
| DP       | AHMET (RNAV) |     |     | KCGF          | CLEVELAND     | OH (US) |
| DP       | KKIDS (RNAV) |     |     | KCLE          | CLEVELAND     | OH (US) |
| DP       | AHMET (RNAV) |     |     | KLPR          | LORAIN/ELYRIA | OH (US) |
| DP       | AHMET (RNAV) |     |     | KLNN          | WILLOUGHBY    | OH (US) |
| STAR     | ANTHM (RNAV) |     | 1   | KBWI          | BALTIMORE     | MD (US) |
| STAR     | ANTHM (RNAV) |     | 1   | KMTN          | BALTIMORE     | MD (US) |

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 09/05/2024

## REASON FOR REVISION:

1. CHARTING: UPDATED "CONTROLLER" TO "CONTROLLER HIGH"; ADDED "EN ROUTE LOW" AND "CONTROLLER LOW"
2. PATTERNS: UPDATED PAT 1 MIN/MAX TEMPLATE FROM "18/31" TO "17/30"
3. CONT OBS: PAT 1 ADDED "265 TOWER (39-000613)"

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: HENRY BRADSHAW

APPROVED BY:

DATE: 09/05/2024

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

*Digitally signed by*

**ALLAN WILL**

May 06, 2024

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: ROKTT

STATE: MD

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 392707.15N/0771332.84W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE  
STAR

USE TITLE  
ANTHM (RNAV)

FAC

PAT

AIRPORT IDENT  
KBWI

CITY  
BALTIMORE

STATE  
MD (US)

REQUIRED CHARTING: STAR, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 09/05/2024

REASON FOR REVISION:

1. REMARKS: REMOVED "REMOVED ANTHM STAR FOR KMTN"
2. CHARTING: ADDED "EN ROUTE LOW" AND "CONTROLLER LOW"

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: HENRY BRADSHAW

APPROVED BY:

DATE: 09/05/2024

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

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**ALLAN WILL**

May 06, 2024

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: SHEPH

STATE: WV

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 392703.31N/0775755.05W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

**FIX USE:**

USE TYPE  
STAR  
STAR

USE TITLE  
ANTHM (RNAV)  
ANTHM (RNAV)

FAC

PAT

AIRPORT IDENT  
KBWI  
KMTN

CITY  
BALTIMORE  
BALTIMORE

STATE  
MD (US)  
MD (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 09/05/2024

**REASON FOR REVISION:**

1. CHARTING: ADDED "EN ROUTE HIGH", "EN ROUTE LOW", "CONTROLLER HIGH", AND "CONTROLLER LOW"

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: HENRY BRADSHAW

APPROVED BY:

DATE: 09/05/2024

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

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**ALLAN WILL**

May 06, 2024

QUALITY  
14  
CHECKED



# RADIO FIX AND HOLDING DATA RECORD

NAME: SPNGL

STATE: MD

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 391527.03N/0765813.52W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE  
STAR  
STAR

USE TITLE  
ANTHM (RNAV)  
TRISH (RNAV)

FAC

PAT

AIRPORT IDENT  
KBWI  
KBWI

CITY  
BALTIMORE  
BALTIMORE

STATE  
MD (US)  
MD (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 09/05/2024

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: HENRY BRADSHAW

APPROVED BY:

DATE: 09/05/2024

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

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**ALLAN WILL**

May 06, 2024

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: STARZ

STATE: MD

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 392023.71N/0764958.65W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE  
STAR  
STAR

USE TITLE  
ANTHM (RNAV)  
TRISH (RNAV)

FAC

PAT

AIRPORT IDENT  
KBWI  
KBWI

CITY  
BALTIMORE  
BALTIMORE

STATE  
MD (US)  
MD (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 09/05/2024

REASON FOR REVISION:

1. LATITUDE/LONGITUDE: RELOCATED 4098 FT NE.
2. REMARKS: REMOVED "REMOVED ANTHM AND TRISH STARS FOR KMTN"

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: HENRY BRADSHAW

APPROVED BY:

DATE: 09/05/2024

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

*Digitally signed by*

**ALLAN WILL**

May 06, 2024

QUALITY  
14  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: STRPS

STATE: MD

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 391728.38N/0765114.67W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

**FIX USE:**

USE TYPE  
IAP  
STAR  
STAR

USE TITLE  
RNAV (RNP) Z RWY 10  
ANTHM (RNAV)  
TRISH (RNAV)

FAC

PAT

AIRPORT IDENT  
KBWI  
KBWI  
KBWI

CITY  
BALTIMORE  
BALTIMORE  
BALTIMORE

STATE  
MD (US)  
MD (US)  
MD (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 09/05/2024

**REASON FOR REVISION:**

1. LATITUDE/LONGITUDE: RELOCATED 4562 FT NE.
2. REMARKS: REMOVED "REMOVED ANTHM AND TRISH STARS FOR KMTN"

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: HENRY BRADSHAW

APPROVED BY:

DATE: 09/05/2024

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

*Digitally signed by*

**ALLAN WILL**

May 06, 2024

QUALITY  
14  
CHECKED