

# RADIO FIX AND HOLDING DATA RECORD

NAME: DROSA

STATE: MD

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 391830.32N/0765806.22W

TYPE: WP

AIRSPACE DOCKET: 18-AEA-21

FIX TYPE OF ACTION: ESTABLISH

FIX USE:

USE TYPE  
EN ROUTE

USE TITLE  
T356

FAC PAT AIRPORT IDENT CITY

STATE  
(US)

REQUIRED CHARTING: AREA, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 05/21/2020

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: JACOB MAXFIELD

APPROVED BY:

DATE:

OFFICE: AJV-A430

NAME: GEORGE DAVIS

SIGNATURE:

*Digitally signed by*

**DONALD H LANIER**

Feb 05, 2020

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZDC  
ATC FACILITY:  
OTHER:

QUALITY  
9  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** ELUDE **STATE:** MD **COUNTRY:** US **ICAO REGION CODE:** K6

**LATITUDE/LONGITUDE:** 393911.28N/0754808.43W **TYPE:** WP, DME

**AIRSPACE DOCKET:** 18-AEA-21 **FIX TYPE OF ACTION:** NO CHANGE

**FIX MAKE-UP FACILITIES:**

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	DUPONT	DQO	VORTAC	L	270.65	260.65	9.17	9.17		2000	17500

**FIX RESTRICTIONS:**

MCA T356 4000 SOUTHBOUND

**HOLDING:**

**HOLDING TYPE OF ACTION:** MODIFY

**PATTERNS:**

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	HOLDING DME	ALTITUDES MIN	ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	W		WP	270.65	090.65	R		4	2000	8000	4	9

**CONTROLLING OBSTRUCTIONS:**

PAT	AIRSPED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (24-001021)	394202.55N/0755053.71W	719	4D

**HOLDING RESTRICTIONS:**

HOLDING LIMITED TO ESTABLISHED PATTERN.

**REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	T356					(US)
EN ROUTE	V166	1				(US)
IAP	RNAV (GPS) RWY 1		1	KILG	WILMINGTON	DE (US)
IAP	RNAV (GPS) RWY 27		1	KILG	WILMINGTON	DE (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 10

**DATE OF REVISION:** 05/21/2020

**REASON FOR REVISION:**

AIRSPACE DOCKET: ADDED "18-AEA-21"  
 FIX RESTRICTIONS: ADDED "MCA T356 4000 SOUTH BOUND"  
 HOLDING: DELETED DQO VORTAC INBOUND 90.65.  
 REMARKS: DELETED "OE 2001-AEA-4427-OE USED TO ESTABLISH 4D ACCURACY CODE FOR 24-001021"  
 FIX USE: ADDED "T356"; DELETED KILG - ILS OR LOC RWY 1.  
 REQUIRED CHARTING: CHANGED "CONTROLLER" TO "CONTROLLER LOW"

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A431

**NAME:** JACOB MAXFIELD

**APPROVED BY:**

**DATE:**

**OFFICE:** AJV-A430

**NAME:** GEORGE DAVIS

**SIGNATURE:**

*Digitally signed by*

**DONALD H LANIER**

**DISTRIBUTION:**

NFDC

FPO: EST

ARTCC: ZDC

ATC FACILITY: PHL APP CO / ILG ATCT

OTHER:

Feb 05, 2020

QUALITY  
9  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** GATBY **STATE:** MD **COUNTRY:** US **ICAO REGION CODE:** K6

**LATITUDE/LONGITUDE:** 391540.02N/0760601.84W **TYPE:** WP, INT, DME

**AIRSPACE DOCKET:** 18-AEA-21 **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	DUPONT	DQO	VORTAC	L	232.68	222.68					
2	SMYRNA	ENO	VORTAC	L	282.89	273.89	27.30	33.92	27.30	2000	17500

**FIX RESTRICTIONS:**

MCA T356 6000 SOUTHWEST BOUND

**HOLDING:**

**HOLDING TYPE OF ACTION:** NO CHANGE

**REMARKS:**

DUPONT (FAC 1) AND SMYRNA (FAC 2) USED TO ESTABLISH FIX COORDINATES  
DQO R-233 UNUSABLE BEYOND 22 NM

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	T356					(US)
EN ROUTE	V170	1, 2				(US)
EN ROUTE	V214	1, 2				(US)
EN ROUTE	V433	1, 2				(US)
EN ROUTE	V445	1, 2				(US)
EN ROUTE	V445	1, 2				(US)
STAR	MAZIE (RNAV)			KCDW	CALDWELL	NJ (US)
STAR	MAZIE (RNAV)			KLDJ	LINDEN	NJ (US)
STAR	MAZIE (RNAV)			K47N	MANVILLE	NJ (US)
STAR	MAZIE (RNAV)			KMMU	MORRISTOWN	NJ (US)
STAR	BRAND (RNAV)			KEWR	NEWARK	NJ (US)
STAR	MAZIE (RNAV)			KSMQ	SOMERVILLE	NJ (US)
STAR	MAZIE (RNAV)			KTEB	TETERBORO	NJ (US)
STAR	APPLE (RNAV)			KLGA	NEW YORK	NY (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 2

**DATE OF REVISION:** 05/21/2020

**REASON FOR REVISION:**

FIX TYPE: ADDED "WP"  
AIRSPACE DOCKET: ADDED "18-AEA-21"  
FIX RESTRICTIONS: ADDED "MCA T356 6000 SOUTHWEST BOUND"  
FIX MAKE-UP: FAC 1 ADDED DIST FROM FAC NM AND DELETED MRA AND MAA (DQO VORTAC BEING RETAINED AS PART OF FIX MAKEUP BECAUSE DQO IS NOT ON VOR MON LIST AND FUTURE CAPABILITIES MAY ENABLE FACILITY USE); FAC 2 CHANGED DME FROM 27.31 TO 27.30 AND ADDED DIST FROM FAC NM; DELETED FAC 3 (ESV DISAPPROVED).  
REMARKS: ADDED "DQO R-233 UNUSABLE BEYOND 22 NM" AND "DUPONT (FAC 1) AND SMYRNA (FAC 2) USED TO ESTABLISH FIX COORDINATES"; DELETED "MAG VAR: ENO 9W; DQO 10W; PXT 10W", "FAC 2 & 3 STAR CHARTING" AND "ESV FOR PXT R-023/60 RQSTD 12/07/02"  
FIX USE: SPLIT V170-214-433-445 AND ADDED FAC 1 AND 2 TO MATCH WHAT IS PUBLISHED; ADDED T356; DELETED RUUTH STAR AND GATBY STAR; ADDED APPLE (RNAV) STAR AND BRAND (RNAV) STAR.  
REQUIRED CHARTING: CHANGED "CONTROLLER" TO "CONTROLLER LOW"

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

**OFFICE OF PRIMARY RESPONSIBILITY:** AJV-A431 **NAME:** JACOB MAXFIELD

**APPROVED BY:** **DATE:** **OFFICE:** AJV-A430 **NAME:** GEORGE DAVIS

**SIGNATURE:** *Digitally signed by*  
**DONALD H LANIER**

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

Feb 05, 2020



# RADIO FIX AND HOLDING DATA RECORD

NAME: KERNO STATE: MD COUNTRY: US ICAO REGION CODE: K6  
 LATITUDE/LONGITUDE: 391836.25N/0760234.92W TYPE: WP, INT, DME

AIRSPACE DOCKET: 18-AEA-21 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	DUPONT	DQO	VORTAC	L	232.68	222.68		29.95		
2	SMYRNA	ENO	VORTAC	L	290.00	281.00	25.00	25.00	2000	30000

## EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
ENO	VORTAC	R-290	25	18000	30000

HOLDING: HOLDING TYPE OF ACTION: ESTABLISH

## PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	HOLDING ALTITUDES DME	MIN	MAX	MIN	MAX
1	SW		WP	235.00	055.00	R		7	10000	13000	10	10

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	210	TOWER (24-000681)	391220.05N/0755642.21W	483	1A

## HOLDING RESTRICTIONS:

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

## REMARKS:

DUPONT (FAC 1) AND SMYRNA (FAC 2) USED TO ESTABLISH FIX COORDINATES  
 DQO R-233 UNUSABLE BEYOND 22 NM.  
 DQO MRA/MAA LEFT BLANK PENDING EQUIPMENT REPAIR.(GPS SUBSTITUTION IN USE.)  
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
 HOLDING PATTERN 1: 7 DME/210 KIAS REQUESTED BY ATC.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	J51	1, 2				(US)
EN ROUTE	T356					(US)
EN ROUTE	V170	1, 2				(US)
EN ROUTE	V214	1, 2				(US)
EN ROUTE	V433	1, 2				(US)
EN ROUTE	V445	1, 2				(US)
IAP	RNAV (GPS) RWY 33			KMTN	BALTIMORE	MD (US)
STAR	BRAND (RNAV)		1	KEWR	NEWARK	NJ (US)
STAR	APPLE (RNAV)		1	KLGA	NEW YORK	NY (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 10 DATE OF REVISION: 05/21/2020

## REASON FOR REVISION:

TYPE: ADDED "INT" TO MATCH WHAT IS PUBLISHED  
 AIRSPACE DOCKET: ADDED "18-AEA-21"  
 FIX MAKE-UP: ADDED DQO VORTAC AS FAC 1 AND CHANGED ENO VORTAC TO FAC 2 TO MATCH WHAT IS PUBLISHED.  
 REMARKS: CHANGED NOTE FROM "SMYRNA (FAC 1) USED TO ESTABLISH FIX COORDINATES" TO "DUPONT (FAC 1) AND SMYRNA (FAC 2) USED TO ESTABLISH FIX COORDINATES"; ADDED "DQO R-233 UNUSABLE BEYOND 22 NM".  
 FIX USE: ADDED T356, V170, V214, V433, V445, J51; DELETED RUUTH STAR AND GATBY STAR; ADDED APPLE (RNAV) STAR AND BRAND (RNAV) STAR.  
 REQUIRED CHARTING: ADDED "AREA", "CONTROLLER LOW" AND "CONTROLLER HIGH"; DELETED "CONTROLLER".  
 ADDED HOLDING PATTERN 1.  
 ADDED "PRECIPITOUS TERRAIN EVALUATION COMPLETED." TO REMARKS  
 ADDED "HOLDING LIMITED TO ESTABLISHED PATTERNS." TO HOLDING RESTRICTIONS.

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
OFFICE OF PRIMARY RESPONSIBILITY:		AJV-A431	NAME: JACOB MAXFIELD
APPROVED BY:	DATE:	OFFICE: AJV-A430	NAME: GEORGE DAVIS

QUALITY  
34  
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**SIGNATURE:**

*Digitally signed by*  
**DONALD H LANIER**

Feb 04, 2020

**DISTRIBUTION:**

**NFDC**  
**FPO: EST**  
**ARTCC: ZDC**  
**ATC FACILITY: PCT TRACON**  
**OTHER:**

QUALITY  
34  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: OBWON

STATE: MD

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 391154.69N/0763204.84W

TYPE: WP

AIRSPACE DOCKET: 18-AEA-21

FIX TYPE OF ACTION: ESTABLISH

**FIX USE:**

USE TYPE

USE TITLE

FAC

PAT

AIRPORT IDENT CITY

STATE

EN ROUTE

T356

(US)

EN ROUTE

T358

(US)

REQUIRED CHARTING: AREA, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 05/21/2020

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: JACOB MAXFIELD

APPROVED BY:

DATE:

OFFICE: AJV-A430

NAME: GEORGE DAVIS

SIGNATURE:

*Digitally signed by*

**DONALD H LANIER**

DISTRIBUTION:

NFDC

FPO: EST

ARTCC: ZDC

ATC FACILITY:

OTHER:

Feb 05, 2020

QUALITY  
9  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: ODESA

STATE: MD

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 392929.00N/0754944.37W

TYPE: WP, INT, DME

AIRSPACE DOCKET: 18-AEA-21

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	DUPONT	DQO	VORTAC	L	232.67	222.67	15.21	15.21		2000	17500
2	SMYRNA	ENO	VORTAC	L	326.01	317.01		21.32		4900	17500

## FIX RESTRICTIONS:

MRA V170-214-433-445 4900

## HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

DUPONT (FAC 1) AND SMYRNA (FAC 2) USED TO ESTABLISH FIX COORDINATES

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	T356					(US)
EN ROUTE	V170	1, 2				(US)
EN ROUTE	V214	1, 2				(US)
EN ROUTE	V433	1, 2				(US)
EN ROUTE	V445	1, 2				(US)
IAP	ILS OR LOC RWY 1	1, 2		KILG	WILMINGTON	DE (US)
IAP	RNAV (GPS) RWY 1			KILG	WILMINGTON	DE (US)
SPECIAL IAP	RNAV (GPS) RWY 31			KMD31	FOREST HILL	MD (US)
STAR	BRAND (RNAV)			KEWR	NEWARK	NJ (US)
STAR	APPLE (RNAV)			KLGA	NEW YORK	NY (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 9

DATE OF REVISION: 05/21/2020

## REASON FOR REVISION:

AIRSPACE DOCKET: ADDED "18-AEA-21"

FIX MAKE-UP: CHANGED FAC 1 MAG/TRUE FROM 232.68/222.68 TO 232.67/222.67 (DQO VORTAC BEING RETAINED AS PART OF FIX MAKEUP BECAUSE DQO IS NOT ON VOR MON LIST AND FUTURE CAPABILITIES MAY ENABLE FACILITY USE); CHANGED FAC 2 MRA FROM 2000 TO 4900 DUE TO FACILITY RESTRICTION.

FIX RESTRICTIONS: REMOVED FIX RESTRICTIONS NOTE; ADDED "MRA V170-214-433-445 4900"

FIX USE: CHANGED MD31 - RNAV (GPS) RWY 31 FIX USE TYPE TO SPECIAL IAP AND REMOVED (SPECIAL) FROM RNAV (GPS) RWY 31

NAME; ADDED T356, APPLE (RNAV) STAR, AND BRAND (RNAV) STAR; DELETED RUUTH STAR AND GATBY STAR.

REQUIRED CHARTING: ADDED "SPECIAL IAP" AND "AREA"; CHANGED "CONTROLLER" TO "CONTROLLER LOW".

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: JACOB MAXFIELD

APPROVED BY:

DATE:

OFFICE: AJV-A430

NAME: GEORGE DAVIS

SIGNATURE:

*Digitally signed by*

**DONALD H LANIER**

DISTRIBUTION:

NFDC

FPO: EST

ARTCC: ZDC

ATC FACILITY: PHL APP CON / ILG ATCT

OTHER: POTOMAC APP CON

Feb 05, 2020

QUALITY  
9  
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# RADIO FIX AND HOLDING DATA RECORD

NAME: SWANN

STATE: MD

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 390905.28N/0761343.94W

TYPE: WP, INT, DME

AIRSPACE DOCKET: 18-AEA-21

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	BALTIMORE	BAL	VORTAC	L	104.20	093.20	20.21	20.21	2000	29000
2	SMYRNA	ENO	VORTAC	L	271.00	262.00		33.60	2000	29000
3	NOTTINGHAM	OTT	VORTAC	L	051.96	041.96		36.01		
4	WASHINGTON	DCA	VOR/DME	L	073.88	064.88	41.63	41.63	7000	17500
5	DUPONT	DQO	VORTAC	L	232.68	222.68		42.81		

## EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
BAL	VORTAC	R-104	21	18000	29000
ENO	VORTAC	R-271	34	18000	29000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

BALTIMORE (FAC 1) AND NOTTINGHAM (FAC 3) USED TO ESTABLISH FIX COORDINATES  
DQO R-233 UNUSABLE BEYOND 22 NM

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	NATIONAL			KDCA	WASHINGTON	DC (US)
DP	SOOKI (RNAV)			KDCA	WASHINGTON	DC (US)
DP	CAPITAL	1, 2		KIAD	WASHINGTON	DC (US)
DP	JCOBY (RNAV)			KIAD	WASHINGTON	DC (US)
DP	WOOLY (RNAV)			KIAD	WASHINGTON	DC (US)
DP	SWANN	1, 2, 3, 4, 5		KBWI	BALTIMORE	MD (US)
DP	PTOMC (RNAV)			KJYO	LEESBURG	VA (US)
EN ROUTE	J51	1, 2, 3, 4				(US)
EN ROUTE	T356					(US)
EN ROUTE	T358					(US)
EN ROUTE	V123	4, 5				(US)
EN ROUTE	V170	1, 3, 5				(US)
EN ROUTE	V214	1, 2, 3				(US)
EN ROUTE	V268	1, 2, 3				(US)
EN ROUTE	V433	1, 3, 5				(US)
EN ROUTE	V445	4, 5				(US)
STAR	SMYRNA	1, 2, 3, 4, 5		KDOV	DOVER	DE (US)
STAR	MAZIE (RNAV)			KCDW	CALDWELL	NJ (US)
STAR	MAZIE (RNAV)			KLDJ	LINDEN	NJ (US)
STAR	MAZIE (RNAV)			K47N	MANVILLE	NJ (US)
STAR	MAZIE (RNAV)			KMMU	MORRISTOWN	NJ (US)
STAR	BRAND (RNAV)			KEWR	NEWARK	NJ (US)
STAR	MAZIE (RNAV)			KSMQ	SOMERVILLE	NJ (US)
STAR	MAZIE (RNAV)			KTEB	TETERBORO	NJ (US)
STAR	APPLE (RNAV)			KLGA	NEW YORK	NY (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 17

DATE OF REVISION: 05/21/2020

## REASON FOR REVISION:

AIRSPACE DOCKET: ADDED "18-AEA-21"

FIX MAKE-UP: DELETED OTT MRA/MAA BECAUSE THE FACILITY IS UNUSABLE; ADDED DQO VOR/DME TO MATCH WHAT IS PUBLISHED (DQO VORTAC BEING RETAINED AS PART OF FIX MAKEUP BECAUSE DQO IS NOT ON VOR MON LIST AND FUTURE CAPABILITIES MAY ENABLE FACILITY USE).

ESV: DELETED OTT R-052 BECAUSE THE FACILITY IS PERMANENTLY OUT OF SERVICE.

REMARKS: ADDED "DQO R-233 UNUSABLE BEYOND 22 NM".

FIX USE: ADDED T356 AND T358. ADDED FAC 5 TO SWANN DP, J51, V123, V170, V433, V445, AND SMYRNA STAR TO MATCH WHAT IS PUBLISHED; ADDED FAC 3 TO SWANN DP; DELETED RUUTH STAR AND GATBY STAR; ADDED APPLE (RNAV) STAR AND BRAND (RNAV) STAR.

REQUIRED CHARTING: ADDED "AREA", "CONTROLLER LOW" AND "CONTROLLER HIGH"; DELETED "CONTROLLER" AND "IAP".

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: JACOB MAXFIELD

QUALITY  
9  
CHECKED



APPROVED BY:

DATE:

OFFICE: AJV-A430

NAME: GEORGE DAVIS

SIGNATURE:

*Digitally signed by***DONALD H LANIER**

DISTRIBUTION:

NFDC

FPO: EST

ARTCC: ZDC

ATC FACILITY: POTOMAC APP CON

OTHER:

Feb 05, 2020

QUALITY  
9  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: WOOLY STATE: MD COUNTRY: US ICAO REGION CODE: K6  
 LATITUDE/LONGITUDE: 392019.18N/0770211.17W TYPE: WP, INT, DME

AIRSPACE DOCKET: 18-AEA-21 FIX TYPE OF ACTION: NO CHANGE

## FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	BALTIMORE	BAL	VORTAC	L	311.00	300.00	20.17	20.17		2600	17500
2	WESTMINSTER	EMI	VORTAC	H	204.04	196.04		9.75		2600	17500
3	MARTINSBURG	MRB	VORTAC	L	101.00	094.00	37.89	37.89		3200	17500

## FIX RESTRICTIONS:

MCA T356 6000 SOUTHEAST BOUND

## 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 MIN	ALTITUDES MAX	TEMPLATES MIN	MAX
1	NE		WP	039.64	219.64	R		4	3200	6000	5	6

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	393021.00N/0765829.00W	1099	2C

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

## REMARKS:

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

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	NATIONAL			KDCA	WASHINGTON	DC (US)
DP	HIICH (RNAV)			KHEF	WASHINGTON	DC (US)
DP	CAPITAL			KIAD	WASHINGTON	DC (US)
DP	WOOLY (RNAV)			KIAD	WASHINGTON	DC (US)
DP	PTOMC (RNAV)			KJYO	LEESBURG	VA (US)
DP	ARSENAL	3		KHEF	MANASSAS	VA (US)
EN ROUTE	T356					(US)
EN ROUTE	V214	1, 2, 3				(US)
EN ROUTE	V44	1, 2, 3				(US)
IAP	RNAV (GPS) RWY 10			KFME	FORT MEADE (ODENTON)	MD (US)
IAP	RNAV (GPS)-A		1	KGAI	GAITHERSBURG	MD (US)
IAP	RNAV (GPS) RWY 34			KDMW	WESTMINSTER	MD (US)
STAR	SMYRNA	3		KDOV	DOVER	DE (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 13

DATE OF REVISION: 05/21/2020

## REASON FOR REVISION:

AIRSPACE DOCKET: ADDED "18-AEA-21"  
 FIX RESTRICTIONS: ADDED "MCA T356 6000 SOUTHEAST BOUND"  
 FIX USE: ADDED T356.  
 REQUIRED CHARTING: ADDED "AREA"; CHANGED "CONTROLLER" TO "CONTROLLER LOW".

INITIATED BY: DATE: ORGANIZATION: NAME:  
 OFFICE OF PRIMARY RESPONSIBILITY: AJV-A431 NAME: JACOB MAXFIELD  
 APPROVED BY: DATE: OFFICE: AJV-A430 NAME: GEORGE DAVIS

SIGNATURE: Digitally signed by  
 DONALD H LANIER

DISTRIBUTION: NFDC  
 FPO: EST Feb 05, 2020  
 ARTCC: ZDC  
 ATC FACILITY: POTOMAC APP CONTROL  
 OTHER:

QUALITY  
 9  
 CHECKED