

RADIO FIX AND HOLDING DATA RECORD

NAME: ARLFT

STATE: DE

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 391431.32N/0752710.88W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:
USE TYPE

STAR ARLFT (RNAV)
STAR ARLFT (RNAV)
STAR ARLFT (RNAV)

FAC PAT

AIRPORT IDENT

KDOV
K33N
KILG

CITY

DOVER
DOVER/CHESWOLD
WILMINGTON

STATE

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

REQUIRED CHARTING: STAR, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 11/05/2020

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A442

NAME: JOSEPH ZEDER

APPROVED BY:

DATE:

OFFICE: AJV-A440

NAME: PATRICK MULQUEEN

SIGNATURE:

Digitally signed by

DAVID DANNER

DISTRIBUTION:

NFDC
FPO: EST
ARTCC: ZDC
ATC FACILITY: ACY APP CON
OTHER:

QUALITY
16
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: BROSS **STATE:** MD **COUNTRY:** US **ICAO REGION CODE:** K6
LATITUDE/LONGITUDE: 391128.40N/0755249.88W **TYPE:** WP, INT, DME
AIRSPACE DOCKET: 19-ASO-27 **FIX TYPE OF ACTION:** NO CHANGE

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	MRA	MAA
1	WOODSTOWN	OOD	VORTAC	L	235.38	225.38	37.84	37.84	2000	45000
2	SMYRNA	ENO	VORTAC	L	271.00	262.00	17.17	17.17	2000	45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
OOD	VORTAC	R-235	38	18000	45000
ENO	VORTAC	R-271	18	18000	45000

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

REMARKS:

WOODSTOWN (FAC 1) AND SMYRNA (FAC 2) USED TO ESTABLISH FIX COORDINATES
CONTROLLER LOW PER ATC REQUEST.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	WOOLY (RNAV)			KIAD	WASHINGTON	DC (US)
DP	SWANN	1, 2		KBWI	BALTIMORE	MD (US)
DP	PTOMC (RNAV)			KJYO	LEESBURG	VA (US)
EN ROUTE	Q419					(US)
EN ROUTE	T358					(US)
EN ROUTE	V268	1, 2				(US)
IAP	RNAV (GPS) RWY 12			KRJD	RIDGELY	MD (US)
STAR	ARLFT (RNAV)			KDOV	DOVER	DE (US)
STAR	ARLFT (RNAV)			K33N	DOVER/CHESWOLD	DE (US)
STAR	ARLFT (RNAV)			KILG	WILMINGTON	DE (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 11 **DATE OF REVISION:** 11/05/2020

REASON FOR REVISION:

UPDATED AIRSPACE DOCKET: 19-ASO-27.
 FIX USE: DELETED J42, J150 ENROUTE - NPA CNX.
 FIX USE: ADDED STAR, ARLFT (RNAV) TO K33N, KDOV, KILG.
 REQUIRED CHARTING: ADDED STAR.

INITIATED BY: **DATE:** **ORGANIZATION:** **NAME:**
OFFICE OF PRIMARY RESPONSIBILITY: AJV-A422 **NAME:** HEIDI SNIDER
APPROVED BY: **DATE:** **OFFICE:** AJV-A420 **NAME:** MARLON ROBINSON
SIGNATURE: *Digitally signed by*
 DAVID DANNER
DISTRIBUTION: NFDC Sep 17, 2020
FPO: EST
ARTCC: ZDC
ATC FACILITY: POTOMAC APP CON
OTHER:



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 NM	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: 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	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	AIR SPEED	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	K33N	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, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 11/05/2020

REASON FOR REVISION:

FIX USE: ADDED ARLFT (RNAV) STAR.
 HOLDING: ADDED PATTERN 3.
 UPDATED PAT 2 MIN/MAX PAT TEMPLATE FROM 17/18 TO 16/17.
 CHARTING: ADDED CONTROLLER LOW.

INITIATED BY: DATE: ORGANIZATION: NAME:

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A442 NAME: JOSEPH ZEDER

APPROVED BY: DATE: OFFICE: AJV-A440 NAME: PATRICK MULQUEEN

SIGNATURE: Digitally signed by
DAVID DANNER

Sep 17, 2020

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

QUALITY
16
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	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	ARLFT (RNAV)			KDOV	DOVER	DE (US)
STAR	ARLFT (RNAV)			K33N	DOVER/CHESWOLD	DE (US)
STAR	ARLFT (RNAV)			KILG	WILMINGTON	DE (US)
STAR	ANTHM (RNAV)			KBWI	BALTIMORE	MD (US)
STAR	ANTHM (RNAV)			KMTN	BALTIMORE	MD (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 11/05/2020

REASON FOR REVISION:

FIX USE: ADDED ARLFT (RNAV) STAR.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A442

NAME: JOSEPH ZEDER

APPROVED BY:

DATE:

OFFICE: AJV-A440

NAME: PATRICK MULQUEEN

SIGNATURE:

Digitally signed by

DAVID DANNER

DISTRIBUTION:

NFDC

FPO: EST

ARTCC: ZDC

ATC FACILITY: PCT APP CON, DOVER APP CON

OTHER:

Sep 17, 2020

QUALITY
16
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: GOFER STATE: MD COUNTRY: US ICAO REGION CODE: K6
 LATITUDE/LONGITUDE: 382507.84N/0761645.30W TYPE: WP

AIRSPACE DOCKET: FIX TYPE OF ACTION: NO CHANGE

HOLDING: HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:		IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME DME	HOLDING MIN	ALTITUDES		TEMPLATES	
PAT	DIR								MIN	MAX	MIN	MAX
1	NE		WP	045.99	225.99	R	4	2000	6000	4	6	

CONTROLLING OBSTRUCTIONS:			COORDINATES	ELEVATION	ACCURACY CODE
PAT	AIRSPEED	OBSTRUCTION			
1	200	TOWER (24-001061)	382447.60N/0761357.20W	375	4D

HOLDING RESTRICTIONS:
 HOLDING LIMITED TO ESTABLISHED PATTERN.
 PRIOR COORDINATION REQUIRED WITH CONTROLLING AGENCY FOR HOLDING.

REMARKS:
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:	USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP		RNAV (GPS) -A			KCGE	CAMBRIDGE	MD (US)
IAP		RNAV (GPS) RWY 34			KCGE	CAMBRIDGE	MD (US)
IAP		RNAV (GPS) RWY 11		1	K2W6	LEONARDTOWN	MD (US)
IAP		RNAV (GPS) RWY 29			K2W6	LEONARDTOWN	MD (US)
STAR		ARLFT (RNAV)			KDOV	DOVER	DE (US)
STAR		ARLFT (RNAV)			K33N	DOVER/CHESWOLD	DE (US)
STAR		ARLFT (RNAV)			KILG	WILMINGTON	DE (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 15 **DATE OF REVISION:** 11/05/2020

REASON FOR REVISION:
 FIX USE: ADDED ARLFT (RNAV) STAR.
 CHART USE: ADDED STAR.

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
OFFICE OF PRIMARY RESPONSIBILITY:		AJV-A442	NAME: JOSEPH ZEDER
APPROVED BY:	DATE:	OFFICE: AJV-A440	NAME: PATRICK MULQUEEN

SIGNATURE: *Digitally signed by*
DAVID DANNER

DISTRIBUTION: NFDC
 FPO: EST
 ARTCC: ZDC
 ATC FACILITY: NHK APP CON, DOV APP CON
 OTHER:
 Sep 17, 2020

QUALITY
16
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: HEDGE

STATE: MD

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 385332.11N/0755014.46W

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 NM	FAC FEET	MRA	MAA
1	SMYRNA	ENO	VORTAC	L	225.54	216.54	25.29	25.29		2000	17500
2	WATERLOO	ATR	VOR/DME	L	288.76	279.76	29.76	29.76		2000	17500
3	SEA ISLE	SIE	VORTAC	H	265.23	256.23	50.02	50.02		7000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
SIE	VORTAC	R-265	51	7000	14500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V157	1, 2, 3				(US)
EN ROUTE	V16	1, 2, 3				(US)
EN ROUTE	V213	1, 2, 3				(US)
STAR	ARLFT (RNAV)			KDOV	DOVER	DE (US)
STAR	ARLFT (RNAV)			K33N	DOVER/CHESWOLD	DE (US)
STAR	ARLFT (RNAV)			KILG	WILMINGTON	DE (US)
STAR	WAALK (RNAV)			KBLM	BELMAR/FARMINGDALE	NJ (US)
STAR	WAALK (RNAV)			KN14	LUMBERTON	NJ (US)
STAR	WAALK (RNAV)			KVAY	MOUNT HOLLY	NJ (US)
STAR	WAALK (RNAV)			KN87	ROBBINSVILLE	NJ (US)
STAR	WAALK (RNAV)			KMJX	TOMS RIVER	NJ (US)
STAR	PAATS (RNAV)			KTTN	TRENTON	NJ (US)
STAR	WAALK (RNAV)			KWRI	WRIGHTSTOWN	NJ (US)
STAR	PAATS (RNAV)			KMQS	COATESVILLE	PA (US)
STAR	PAATS (RNAV)			KPHL	PHILADELPHIA	PA (US)
STAR	PAATS (RNAV)			KPNE	PHILADELPHIA	PA (US)

REQUIRED CHARTING: STAR, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 9

DATE OF REVISION: 11/05/2020

REASON FOR REVISION:

FIX USE: DELETED KDOV SMYRNA STAR. ADDED ARLFT (RNAV) STAR.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A442

NAME: JOSEPH ZEDER

APPROVED BY:

DATE:

OFFICE: AJV-A440

NAME: PATRICK MULQUEEN

SIGNATURE:

Digitally signed by

DAVID DANNER

Sep 17, 2020

DISTRIBUTION:

NFDC

FPO: EST

ARTCC: ZDC

ATC FACILITY: ACY APP CON, DOV APP CON

OTHER:

09/17/2020: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 07/24/2020.

1. FIX USE: ADDED WAALK (RNAV) STAR FOR KBLM, KN14, KWRI, KMJX, KVAY, KN87.

QUALITY
38
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	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	ARLFT (RNAV)			KDOV	DOVER	DE (US)
STAR	ARLFT (RNAV)			K33N	DOVER/CHESWOLD	DE (US)
STAR	ARLFT (RNAV)			KILG	WILMINGTON	DE (US)
STAR	ANTHM (RNAV)			KBWI	BALTIMORE	MD (US)
STAR	ANTHM (RNAV)			KMTN	BALTIMORE	MD (US)

REQUIRED CHARTING: STAR, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 11/05/2020

REASON FOR REVISION:

FIX USE: ADDED ARLFT (RNAV) STAR.
CHARTING: ADDED CONTROLLER LOW.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A442

NAME: JOSEPH ZEDER

APPROVED BY:

DATE:

OFFICE: AJV-A440

NAME: PATRICK MULQUEEN

SIGNATURE:

Digitally signed by

DAVID DANNER

DISTRIBUTION:

NFDC

FPO: EST

ARTCC: ZDC

ATC FACILITY: PCT APP CON, DOV APP CON

OTHER:

QUALITY
16
CHECKED

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	FAC 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	60	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
IAP	ARLFT (RNAV)			KILG	WILMINGTON	DE (US)
STAR	ARLFT (RNAV)			KDOV	DOVER	DE (US)
STAR	ARLFT (RNAV)			K33N	DOVER/CHESWOLD	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 HIGH, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 11/05/2020

REASON FOR REVISION:

FIX USE: ADDED ARLFT (RNAV) STAR.
CHARTING: ADD CONTROLLER HIGH.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A442

NAME: JOSEPH ZEDER

APPROVED BY:

DATE:

OFFICE: AJV-A440

NAME: PATRICK MULQUEEN

SIGNATURE:

Digitally signed by

DAVID DANNER

DISTRIBUTION:

NFDC
FPO: NYC
ARTCC: ZOB, ZDC
ATC FACILITY: POTOMAC TRACON
OTHER:

Sep 17, 2020



RADIO FIX AND HOLDING DATA RECORD

NAME: MARTINSBURG VORTAC

STATE: WV

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 392308.06N/0775054.08W

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	MRA FEET	MAA
1	MARTINSBURG	MRB	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	E	MRB	VORTAC	109.00	289.00	L	1		3000	17500	8	16
2	E		WP	112.00	292.00	L		7	3000	6000	9	10
3	E	MRB	VORTAC	110.00	290.00	L	1		3000	6000	4	9

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	265	AAO	392158.00N/0774216.00W	1676	2C
1	310	AAO	392700.50N/0773734.20W	1958	2C
2	265	AAO	392158.00N/0774216.00W	1676	2C
3	200	AAO	392158.00N/0774216.00W	1676	2C
3	310	AAO	392158.00N/0774216.00W	1676	2C

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST.

PAT 2 ATC REQUEST.

PAT 3 ATC REQUEST.

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	ILS OR LOC RWY 26	KMRB	MARTINSBURG	WV (US)
3	VOR-A	KMRB	MARTINSBURG	WV (US)

REMARKS:

PRECIPITOUS TERRAIN EVALUATIONS COMPLETED.

FACILITY MAGVAR: 7W/1965.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	CAPITAL			KIAD	WASHINGTON	DC (US)
DP	TAKE-OFF MINIMUMS			KFRR	FRONT ROYAL	VA (US)
DP	PTOMC (RNAV)			KJYO	LEESBURG	VA (US)
DP	ARSENAL			KHEF	MANASSAS	VA (US)
DP	TAKE-OFF MINIMUMS			KMRB	MARTINSBURG	WV (US)
EN ROUTE	J162					(US)
EN ROUTE	J6					(US)
EN ROUTE	T358					(US)
EN ROUTE	V143					(US)
EN ROUTE	V166					(US)
EN ROUTE	V214					(US)
EN ROUTE	V3					(US)
EN ROUTE	V39					(US)
EN ROUTE	V44					(US)
EN ROUTE	V457					(US)
EN ROUTE	V501					(US)
EN ROUTE	V8					(US)
IAP	ILS OR LOC RWY 01R			KIAD	WASHINGTON	DC (US)
IAP	ILS OR LOC RWY 19L			KIAD	WASHINGTON	DC (US)
IAP	ILS OR LOC/DME RWY 01C		1	KIAD	WASHINGTON	DC (US)
IAP	ILS OR LOC/DME RWY 12			KIAD	WASHINGTON	DC (US)
IAP	ILS OR LOC/DME RWY 19C			KIAD	WASHINGTON	DC (US)
IAP	ILS OR LOC/DME RWY 19R			KIAD	WASHINGTON	DC (US)
IAP	ILS RWY 01C (SA CAT II)		1	KIAD	WASHINGTON	DC (US)
IAP	ILS RWY 01R (CAT II)			KIAD	WASHINGTON	DC (US)
IAP	ILS RWY 01R (CAT III)			KIAD	WASHINGTON	DC (US)
IAP	ILS RWY 19C (CAT II)			KIAD	WASHINGTON	DC (US)
IAP	ILS RWY 19C (CAT III)			KIAD	WASHINGTON	DC (US)
IAP	ILS RWY 19L (SA CAT II)			KIAD	WASHINGTON	DC (US)
IAP	ILS RWY 19R (CAT II)			KIAD	WASHINGTON	DC (US)
IAP	ILS RWY 19R (CAT III)			KIAD	WASHINGTON	DC (US)
IAP	RNAV (GPS) RWY 01L		2	KIAD	WASHINGTON	DC (US)
IAP	LOC/DME RWY 23			KCBE	CUMBERLAND	MD (US)
IAP	RNAV (GPS) RWY 05			KFDK	FREDERICK	MD (US)

QUALITY
16
CHECKED

IAP	ILS OR LOC RWY 09	3	KHGR	HAGERSTOWN	MD (US)
IAP	ILS OR LOC RWY 27	3	KHGR	HAGERSTOWN	MD (US)
IAP	ILS OR LOC RWY 17		KJYO	LEESBURG	VA (US)
IAP	RNAV (GPS) RWY 17		KJYO	LEESBURG	VA (US)
IAP	VOR/DME-A	3	KOKV	WINCHESTER	VA (US)
IAP	RNAV (GPS) RWY 29		KW35	BERKELEY SPRINGS	WV (US)
IAP	ILS OR LOC RWY 26	1	KMRB	MARTINSBURG	WV (US)
IAP	RNAV (GPS) RWY 08		KMRB	MARTINSBURG	WV (US)
IAP	RNAV (GPS) RWY 26		KMRB	MARTINSBURG	WV (US)
IAP	VOR-A	3	KMRB	MARTINSBURG	WV (US)
STAR	NUMMY		KDCA	WASHINGTON	DC (US)
STAR	DELRO		KIAD	WASHINGTON	DC (US)
STAR	DOCCS		KIAD	WASHINGTON	DC (US)
STAR	SELINGSGROVE		KIAD	WASHINGTON	DC (US)
STAR	ARLFT (RNAV)		KDOV	DOVER	DE (US)
STAR	ARLFT (RNAV)		K33N	DOVER/CHESWOLD	DE (US)
STAR	ARLFT (RNAV)		KILG	WILMINGTON	DE (US)
STAR	BRUSH		KCVG	COVINGTON	KY (US)
STAR	BRUSH		KK62	FALMOUTH	KY (US)
STAR	WESTMINSTER		KBWI	BALTIMORE	MD (US)
STAR	WESTMINSTER		KMTN	BALTIMORE	MD (US)
STAR	NUMMY		KADW	CAMP SPRINGS	MD (US)
STAR	BRUSH		KI69	BATAVIA	OH (US)
STAR	BRUSH		KLUK	CINCINNATI	OH (US)
STAR	BRUSH		KHAO	HAMILTON	OH (US)
STAR	NUMMY		KDAA	FORT BELVOIR	VA (US)
STAR	DOCCS		KJYO	LEESBURG	VA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 31

DATE OF REVISION: 11/05/2020

REASON FOR REVISION:

DELETED AIRSPACE DOCKET "18-AEA-21"
 FIX USE: DELETED SMYRNA KDOV STAR.
 FIX USE: ADDED ARLFT (RNAV) STAR.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A442

NAME: JOSEPH ZEDER

APPROVED BY:

DATE:

OFFICE: AJV-A440

NAME: PATRICK MULQUEEN

SIGNATURE:

Digitally signed by

DAVID DANNER

DISTRIBUTION:

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

Sep 17, 2020

QUALITY
 16
 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: MAULS

STATE: VA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 375249.36N/0791949.19W

TYPE: WP, RADAR

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	CLTCH (RNAV)			KDCA	WASHINGTON	DC (US)
DP	GABBE (RNAV)			KHEF	WASHINGTON	DC (US)
DP	CLTCH (RNAV)			KIAD	WASHINGTON	DC (US)
DP	CANNY (RNAV)			KDOV	DOVER	DE (US)
DP	FIXET (RNAV)			KBWI	BALTIMORE	MD (US)
DP	TERPZ (RNAV)			KBWI	BALTIMORE	MD (US)
DP	TERPZ (RNAV)			KMTN	BALTIMORE	MD (US)
DP	JEFSN (RNAV)			KADW	CAMP SPRINGS	MD (US)
DP	TERPZ (RNAV)			KESN	EASTON	MD (US)
DP	TERPZ (RNAV)			KFDK	FREDERICK	MD (US)
DP	TERPZ (RNAV)			KGAI	GAITHERSBURG	MD (US)
DP	TERPZ (RNAV)			KDMW	WESTMINSTER	MD (US)
DP	CLTCH (RNAV)			KDAA	FORT BELVOIR	VA (US)
DP	CLTCH (RNAV)			KJYO	LEESBURG	VA (US)
DP	CLTCH (RNAV)			KOKV	WINCHESTER	VA (US)
DP	CLTCH (RNAV)			KMRB	MARTINSBURG	WV (US)
EN ROUTE	Q40					(US)
STAR	ARLFT (RNAV)			KDOV	DOVER	DE (US)
STAR	ARLFT (RNAV)			K33N	DOVER/CHESWOLD	DE (US)
STAR	ARLFT (RNAV)			KILG	WILMINGTON	DE (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 11/05/2020

REASON FOR REVISION:

FIX USE: ADDED (RNAV) TO KDOV CANNY DEPARTURE.

ADDED ARLFT (RNAV) STAR.

REQUIRED CHARTING: CONTROLLER REPLACED WITH CONTROLLER HIGH. ADDED STAR.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A442

NAME: JOSEPH ZEDER

APPROVED BY:

DATE:

OFFICE: AJV-A440

NAME: PATRICK MULQUEEN

SIGNATURE:

Digitally signed by

DAVID DANNER

DISTRIBUTION:

NFDC

FPO: EST

ARTCC: ZDC

ATC FACILITY: POTOMAC DEP CON

OTHER:

Sep 17, 2020

QUALITY
16
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: MARTINSBURG VORTAC

STATE: WV

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 392308.06N/0775054.08W

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	MRA FEET	MAA
1	MARTINSBURG	MRB	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	E	MRB	VORTAC	109.00	289.00	L	1		3000	17500	8	16
2	E		WP	112.00	292.00	L		7	3000	6000	9	10
3	E	MRB	VORTAC	110.00	290.00	L	1		3000	6000	4	9

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	265	AAO	392158.00N/0774216.00W	1676	2C
1	310	AAO	392700.50N/0773734.20W	1958	2C
2	265	AAO	392158.00N/0774216.00W	1676	2C
3	200	AAO	392158.00N/0774216.00W	1676	2C
3	310	AAO	392158.00N/0774216.00W	1676	2C

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST.

PAT 2 ATC REQUEST.

PAT 3 ATC REQUEST.

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	ILS OR LOC RWY 26	KMRB	MARTINSBURG	WV (US)
3	VOR-A	KMRB	MARTINSBURG	WV (US)

REMARKS:

PRECIPITOUS TERRAIN EVALUATIONS COMPLETED.

FACILITY MAGVAR: 7W/1965.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	CAPITAL			KIAD	WASHINGTON	DC (US)
DP	TAKE-OFF MINIMUMS			KFRR	FRONT ROYAL	VA (US)
DP	PTOMC (RNAV)			KJYO	LEESBURG	VA (US)
DP	ARSENAL			KHEF	MANASSAS	VA (US)
DP	TAKE-OFF MINIMUMS			KMRB	MARTINSBURG	WV (US)
EN ROUTE	J162					(US)
EN ROUTE	J6					(US)
EN ROUTE	T358					(US)
EN ROUTE	V143					(US)
EN ROUTE	V166					(US)
EN ROUTE	V214					(US)
EN ROUTE	V3					(US)
EN ROUTE	V39					(US)
EN ROUTE	V44					(US)
EN ROUTE	V457					(US)
EN ROUTE	V501					(US)
EN ROUTE	V8					(US)
IAP	ILS OR LOC RWY 01R			KIAD	WASHINGTON	DC (US)
IAP	ILS OR LOC RWY 19L			KIAD	WASHINGTON	DC (US)
IAP	ILS OR LOC/DME RWY 01C		1	KIAD	WASHINGTON	DC (US)
IAP	ILS OR LOC/DME RWY 12			KIAD	WASHINGTON	DC (US)
IAP	ILS OR LOC/DME RWY 19C			KIAD	WASHINGTON	DC (US)
IAP	ILS OR LOC/DME RWY 19R			KIAD	WASHINGTON	DC (US)
IAP	ILS RWY 01C (SA CAT II)		1	KIAD	WASHINGTON	DC (US)
IAP	ILS RWY 01R (CAT II)			KIAD	WASHINGTON	DC (US)
IAP	ILS RWY 01R (CAT III)			KIAD	WASHINGTON	DC (US)
IAP	ILS RWY 19C (CAT II)			KIAD	WASHINGTON	DC (US)
IAP	ILS RWY 19C (CAT III)			KIAD	WASHINGTON	DC (US)
IAP	ILS RWY 19L (SA CAT II)			KIAD	WASHINGTON	DC (US)
IAP	ILS RWY 19R (CAT II)			KIAD	WASHINGTON	DC (US)
IAP	ILS RWY 19R (CAT III)			KIAD	WASHINGTON	DC (US)
IAP	RNAV (GPS) RWY 01L		2	KIAD	WASHINGTON	DC (US)
IAP	LOC/DME RWY 23			KCBE	CUMBERLAND	MD (US)
IAP	RNAV (GPS) RWY 05			KFDK	FREDERICK	MD (US)

QUALITY
16
CHECKED

IAP	ILS OR LOC RWY 09	3	KHGR	HAGERSTOWN	MD (US)
IAP	ILS OR LOC RWY 27	3	KHGR	HAGERSTOWN	MD (US)
IAP	ILS OR LOC RWY 17		KJYO	LEESBURG	VA (US)
IAP	RNAV (GPS) RWY 17		KJYO	LEESBURG	VA (US)
IAP	VOR/DME-A	3	KOKV	WINCHESTER	VA (US)
IAP	RNAV (GPS) RWY 29		KW35	BERKELEY SPRINGS	WV (US)
IAP	ILS OR LOC RWY 26	1	KMRB	MARTINSBURG	WV (US)
IAP	RNAV (GPS) RWY 08		KMRB	MARTINSBURG	WV (US)
IAP	RNAV (GPS) RWY 26		KMRB	MARTINSBURG	WV (US)
IAP	VOR-A	3	KMRB	MARTINSBURG	WV (US)
STAR	NUMMY		KDCA	WASHINGTON	DC (US)
STAR	DELRO		KIAD	WASHINGTON	DC (US)
STAR	DOCCS		KIAD	WASHINGTON	DC (US)
STAR	SELINGSGROVE		KIAD	WASHINGTON	DC (US)
STAR	ARLFT (RNAV)		KDOV	DOVER	DE (US)
STAR	ARLFT (RNAV)		K33N	DOVER/CHESWOLD	DE (US)
STAR	ARLFT (RNAV)		KILG	WILMINGTON	DE (US)
STAR	BRUSH		KCVG	COVINGTON	KY (US)
STAR	BRUSH		KK62	FALMOUTH	KY (US)
STAR	WESTMINSTER		KBWI	BALTIMORE	MD (US)
STAR	WESTMINSTER		KMTN	BALTIMORE	MD (US)
STAR	NUMMY		KADW	CAMP SPRINGS	MD (US)
STAR	BRUSH		KI69	BATAVIA	OH (US)
STAR	BRUSH		KLUK	CINCINNATI	OH (US)
STAR	BRUSH		KHAO	HAMILTON	OH (US)
STAR	NUMMY		KDAA	FORT BELVOIR	VA (US)
STAR	DOCCS		KJYO	LEESBURG	VA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 31

DATE OF REVISION: 11/05/2020

REASON FOR REVISION:

DELETED AIRSPACE DOCKET "18-AEA-21"
 FIX USE: DELETED SMYRNA KDOV STAR.
 FIX USE: ADDED ARLFT (RNAV) STAR.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A442

NAME: JOSEPH ZEDER

APPROVED BY:

DATE:

OFFICE: AJV-A440

NAME: PATRICK MULQUEEN

SIGNATURE:

Digitally signed by

DAVID DANNER

DISTRIBUTION:

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

Sep 17, 2020

QUALITY
16
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: PRNCZ

STATE: MD

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 383738.10N/0760508.20W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

FIX USE:
USE TYPE

STAR ARLFT (RNAV)
STAR ARLFT (RNAV)
STAR ARLFT (RNAV)

FAC PAT

AIRPORT IDENT

KDOV
K33N
KILG

CITY

DOVER
DOVER/CHESWOLD
WILMINGTON

STATE

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

REQUIRED CHARTING: STAR, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 11/05/2020

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A422

NAME: JOSEPH ZEDER

APPROVED BY:

DATE:

OFFICE: AJV-A440

NAME: JENNIFER MUNROE

SIGNATURE:

Digitally signed by

DAVID DANNER

Sep 17, 2020

DISTRIBUTION:

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

QUALITY
16
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: SMYRNA VORTAC

STATE: DE

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 391353.93N/0753057.49W

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	MRA	MAA
1	SMYRNA	ENO	VORTAC	L						45000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
ENO	VORTAC	R-044	50	18000	33000
ENO	VORTAC	R-226	40	18000	45000

FIX RESTRICTIONS:

J191 MAA FL330 NORTHEAST BOUND 1100-0300Z

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	W	ENO	VORTAC	250.66	070.66	L	1		1600	6000	5	7
2	E	ENO	VORTAC	088.40	268.40	R	1		1500	6000	5	7
3	W		WP	254.94	074.94	L		10	24000	45000	20	30

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	TOWER (10-000007)	391202.00N/0753352.00W	433	4D
2	230	TOWER (10-000007)	391202.00N/0753352.00W	433	4D

REASON FOR NONSTANDARD HOLDING:

PAT 1 SEPARATION WITH DOVER AFB TRAFFIC
PAT 3 ATC REQUEST

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
PAT 1 FOR ATC USE.
FACILITY MAGVAR: 9W/1965.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	CAPITAL			KIAD	WASHINGTON	DC (US)
DP	PALEO			KBWI	BALTIMORE	MD (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	HIGH CHART		3			(US)
EN ROUTE	J191					(US)
EN ROUTE	Q127					(US)
EN ROUTE	T358					(US)
EN ROUTE	V157					(US)
EN ROUTE	V16					(US)
EN ROUTE	V213					(US)
EN ROUTE	V268					(US)
EN ROUTE	V29					(US)
EN ROUTE	V379					(US)
IAP	ILS OR LOC RWY 1			KDOV	DOVER	DE (US)
IAP	ILS RWY 1 (CAT II)			KDOV	DOVER	DE (US)
IAP	TACAN RWY 1			KDOV	DOVER	DE (US)
IAP	RNAV (GPS) RWY 9			K33N	DOVER/CHESWOLD	DE (US)
IAP	VOR RWY 27		2	K33N	DOVER/CHESWOLD	DE (US)
IAP	NDB-A			KEVY	MIDDLETOWN	DE (US)
IAP	RNAV (GPS) RWY 35			KEVY	MIDDLETOWN	DE (US)
IAP	VOR 9			KILG	WILMINGTON	DE (US)
IAP	VOR RWY 27			KILG	WILMINGTON	DE (US)
IAP	LDA RWY 33			KMTN	BALTIMORE	MD (US)
IAP	RNAV (GPS) RWY 33			KMTN	BALTIMORE	MD (US)
IAP	ILS OR LOC RWY 4			KESN	EASTON	MD (US)
IAP	RNAV (GPS)-B			K58M	ELKTON	MD (US)
IAP	VOR/DME-A			K58M	ELKTON	MD (US)
IAP	ILS OR LOC RWY 10			KMIV	MILLVILLE	NJ (US)
IAP	RNAV (GPS) RWY 10			KMIV	MILLVILLE	NJ (US)
IAP	RNAV (GPS) RWY 32			KMIV	MILLVILLE	NJ (US)

QUALITY
16
CHECKED

IAP	RNAV (GPS) RWY 19	KWWD	WILDWOOD	NJ (US)
STAR	ARLFT (RNAV)	KDOV	DOVER	DE (US)
STAR	SMYRNA	KDOV	DOVER	DE (US)
STAR	ARLFT (RNAV)	K33N	DOVER/CHESWOLD	DE (US)
STAR	ARLFT (RNAV)	KILG	WILMINGTON	DE (US)
STAR	RIPKN	KBWI	BALTIMORE	MD (US)
STAR	RIPKN	KMTN	BALTIMORE	MD (US)
STAR	RIPKN	KDMV	WESTMINSTER	MD (US)
STAR	KORRY	KLGA	NEW YORK	NY (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 25

DATE OF REVISION: 11/05/2020

REASON FOR REVISION:

DELETED AIRSPACE DOCKET 18-AEA-16

FIX USE: ADDED ARLFT (RNAV) STAR FOR KDOV, K33N, KILG.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A442

NAME: JOSEPH ZEDER

APPROVED BY:

DATE:

OFFICE: AJV-A440

NAME: PATRICK MULQUEEN

SIGNATURE:

Digitally signed by

DAVID DANNER

DISTRIBUTION:

NFDC

FPO: EST

ARTCC: ZDC, ZNY

ATC FACILITY: DOV APP CON, DCA ATCT

OTHER: NYC APP CON, PTC APP CON

Sep 17, 2020

QUALITY
16
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: STPBV STATE: VA COUNTRY: US ICAO REGION CODE: K6
 LATITUDE/LONGITUDE: 375441.76N/0775937.96W TYPE: WP

AIRSPACE DOCKET: FIX TYPE OF ACTION: NO CHANGE

HOLDING: HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:		IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME DME	HOLDING MIN	ALTITUDES		TEMPLATES	
PAT	DIR								MIN	MAX	MIN	MAX
1	W		WP	264.49	084.49	R	4	3000	6000	5	6	

CONTROLLING OBSTRUCTIONS:			COORDINATES	ELEVATION	ACCURACY CODE
PAT	AIRSPEED	OBSTRUCTION			
1	200	TOWER (51-001287)	375700.00N/0780641.00W	838	5D

HOLDING RESTRICTIONS:
 HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
 PRECIPITIOUS TERRAIN EVALUATION COMPLETED.

FIX USE:	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 26		1	K7W4	BUMPASS	VA (US)
IAP	RNAV (GPS) RWY 8		1	K7W4	BUMPASS	VA (US)
STAR	ARLFT (RNAV)			KDOV	DOVER	DE (US)
STAR	ARLFT (RNAV)			K33N	DOVER/CHESWOLD	DE (US)
STAR	ARLFT (RNAV)			KILG	WILMINGTON	DE (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 DATE OF REVISION: 11/05/2020

REASON FOR REVISION:
 FIX USE: ADDED ARLFT (RNAV) STAR.
 CHARTING: ADDED STAR.
 DELETED AIRSPACE DOCKET NUMBER.

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
OFFICE OF PRIMARY RESPONSIBILITY:		AJV-A442	NAME: JOSEPH ZEDER
APPROVED BY:	DATE:	OFFICE: AJV-A440	NAME: PATRICK MULQUEEN

SIGNATURE: *Digitally signed by*
DAVID DANNER

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

Sep 17, 2020

QUALITY
16
CHECKED

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:

FIX TYPE OF ACTION: NO CHANGE

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	17500
2	SMYRNA	ENO	VORTAC	L	271.00	262.00		33.60	2000	17500
3	NOTTINGHAM	OTT	VORTAC	L	051.96	041.96		36.01	2000	17500
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		

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 (FAC 5 LEFT ON UNTIL PROCEDURES CAN BE UPDATED)

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	T356					(US)
EN ROUTE	T358					(US)
EN ROUTE	V123	4, 5				(US)
EN ROUTE	V170	1, 3, 5				(US)
EN ROUTE	V214	1, 2				(US)
EN ROUTE	V268	1, 2				(US)
EN ROUTE	V445	4, 5				(US)
STAR	ARLFT (RNAV)			KDOV	DOVER	DE (US)
STAR	ARLFT (RNAV)			K33N	DOVER/CHESWOLD	DE (US)
STAR	ARLFT (RNAV)			KILG	WILMINGTON	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, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 19

DATE OF REVISION: 11/05/2020

REASON FOR REVISION:

DELETED AIRSPACE DOCKET 19-ASO-18.
FIX USE: DELETED SMYRNA KDOV STAR.
DELETED V433 (CURRENTLY CHARTED UNUSABLE, CANCELLING 4/21)
ADDED ARLFT (RNAV) STAR.
FAC 3: ADDED MRA/MAA

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A442

NAME: JOSEPH ZEDER

APPROVED BY:

DATE:

OFFICE: AVJ-A442

NAME: PATRICK MULQUEEN

SIGNATURE:

Digitally signed by

DAVID DANNER

DISTRIBUTION:

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

Sep 17, 2020



RADIO FIX AND HOLDING DATA RECORD

NAME: THHMP STATE: VA COUNTRY: US ICAO REGION CODE: K6
 LATITUDE/LONGITUDE: 372929.47N/0771908.75W TYPE: WP

AIRSPACE DOCKET: FIX TYPE OF ACTION: NO CHANGE

HOLDING: HOLDING TYPE OF ACTION: NO CHANGE

PATTERNS:		IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME DME	HOLDING MIN	ALTITUDES		TEMPLATES	
PAT	DIR								MIN	MAX	MIN	MAX
1	S		WP	193.11	013.11	L	10	25000	45000	21	30	

REASON FOR NONSTANDARD HOLDING:
 PAT 1 ATC REQUEST

HOLDING RESTRICTIONS:
 HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
 ATC REQUESTED 10 NM LEG LENGTH.

FIX USE:	USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR		TRSTN (RNAV)			KHEF	DISTRICT OF COLUMBIA	DC (US)
STAR		CAPSS (RNAV)			KDCA	WASHINGTON	DC (US)
STAR		CAVLR (RNAV)			KIAD	WASHINGTON	DC (US)
STAR		ARLFT (RNAV)			KDOV	DOVER	DE (US)
STAR		ARLFT (RNAV)			K33N	DOVER/CHESWOLD	DE (US)
STAR		ARLFT (RNAV)			KILG	WILMINGTON	DE (US)
STAR		RAVNN (RNAV)		1	KBWI	BALTIMORE	MD (US)
STAR		RAVNN (RNAV)		1	KMTN	BALTIMORE	MD (US)
STAR		VUDOO (RNAV)			KADW	CAMP SPRINGS	MD (US)
STAR		TRSTN (RNAV)			KFDK	FREDERICK	MD (US)
STAR		TRSTN (RNAV)			KGAI	GAITHERSBURG	MD (US)
STAR		TRSTN (RNAV)			KHGR	HAGERSTOWN	MD (US)
STAR		TRSTN (RNAV)			KW50	LAYTONSVILLE	MD (US)
STAR		RAVNN (RNAV)		1	KDMW	WESTMINSTER	MD (US)
STAR		TRSTN (RNAV)			KDMW	WESTMINSTER	MD (US)
STAR		TRSTN (RNAV)			KCJR	CULPEPER	VA (US)
STAR		TRSTN (RNAV)			KEZF	FREDERICKSBURG	VA (US)
STAR		TRSTN (RNAV)			KFRR	FRONT ROYAL	VA (US)
STAR		TRSTN (RNAV)			KJYO	LEESBURG	VA (US)
STAR		TRSTN (RNAV)			KNYG	QUANTICO	VA (US)
STAR		TRSTN (RNAV)			KRMN	STAFFORD	VA (US)
STAR		TRSTN (RNAV)			KHWY	WARRENTON	VA (US)
STAR		TRSTN (RNAV)			KOKV	WINCHESTER	VA (US)
STAR		TRSTN (RNAV)			KMRB	MARTINSBURG	WV (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 DATE OF REVISION: 11/05/2020

REASON FOR REVISION:
 FIX USE: ADDED ARLFT (RNAV) STAR.
 CHARTING: ADDED CONTROLLER HIGH/LOW.

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
OFFICE OF PRIMARY RESPONSIBILITY:		AJV-A442	NAME: JOSEPH ZEDER
APPROVED BY:	DATE:	OFFICE: AJV-A440	NAME: PATRICK MULQUEEN
	SIGNATURE:	Digitally signed by DAVID DANNER Sep 17, 2020	
DISTRIBUTION:	NFDC FPO: EST ARTCC: ZDC ATC FACILITY: PCT APP CON OTHER:		



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: 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	HOLDING DME	ALTITUDES MIN	ALTITUDES MAX	TEMPLATES MIN	TEMPLATES 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	ARLFT (RNAV)			KDOV	DOVER	DE (US)
STAR	ARLFT (RNAV)			K33N	DOVER/CHESWOLD	DE (US)
STAR	ARLFT (RNAV)			KILG	WILMINGTON	DE (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 14

DATE OF REVISION: 11/05/2020

REASON FOR REVISION:

AIRSPACE DOCKET DELETED "18-AEA-21"
 FIX USE: DELETED SMYRNA KDOV STAR.
 ADDED ARLFT (RNAV) STAR.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A442

NAME: JOSEPH ZEDER

APPROVED BY:

DATE:

OFFICE: AVJ-A442

NAME: PATRICK MULQUEEN

SIGNATURE:

Digitally signed by

DAVID DANNER

DISTRIBUTION:

NFDC

FPO: EST

ARTCC: ZDC

ATC FACILITY: POTOMAC APP CONTROL

OTHER:

Sep 17, 2020

