

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: **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	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	218.00	038.00	L	1 1/2		21000	37000	18	26

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	TOWER (51-000705)	373023.00N/0774202.00W	1538	3D

REASON FOR NONSTANDARD HOLDING:

PAT 1 AIR TRAFFIC REQUEST

HOLDING RESTRICTIONS:

UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 3000.

REMARKS:

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	HICKORY (OBSTACLE)			KHKY	HICKORY	NC (US)
DP	OXFRD (RNAV)			KRDU	RALEIGH/DURHAM	NC (US)
DP	RALEIGH			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	J109					(US)
EN ROUTE	J24					(US)
EN ROUTE	J51		1			(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			KW81	CREWE	VA (US)
IAP	NDB RWY 3			KFVX	FARMVILLE	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) RWY 7			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	RIPKN			KBWI	BALTIMORE	MD (US)
STAR	RIPKN			KMTN	BALTIMORE	MD (US)
STAR	RIPKN			KDMW	WESTMINSTER	MD (US)
STAR	JAIKE (RNAV)			KCDW	CALDWELL	NJ (US)
STAR	JAIKE (RNAV)			KLDJ	LINDEN	NJ (US)
STAR	JAIKE (RNAV)			K47N	MANVILLE	NJ (US)
STAR	JAIKE (RNAV)			KMMU	MORRISTOWN	NJ (US)
STAR	DYLIN			KEWR	NEWARK	NJ (US)
STAR	PHLBO (RNAV)			KEWR	NEWARK	NJ (US)
STAR	JAIKE (RNAV)			KSMQ	SOMERVILLE	NJ (US)
STAR	JAIKE (RNAV)			KTEB	TETERBORO	NJ (US)

STAR	PAATS (RNAV)	KTTN	TRENTON	NJ (US)
STAR	PAATS (RNAV)	KMQS	COATESVILLE	PA (US)
STAR	PAATS (RNAV)	KPHL	PHILADELPHIA	PA (US)
STAR	PAATS (RNAV)	KPNE	PHILADELPHIA	PA (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, IAP, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 17

DATE OF REVISION: 12/07/2017

REASON FOR REVISION:

1. AMENDED UNPLANNED HOLDING CONTROLLING OBSTACLE FROM 1539 MSL TOWER TO 1538 MSL TOWER TO MATCH AIRNAV VALUE FOR OBSTACLE 51-000705.
2. ADDED BLACKSTONE DP AT KBKT TO FIX USE.
3. DELETED COATT STAR AT KHEF AND KJYO FROM FIX USE.
4. DELETED BARIN (RNAV) STAR AT KIAD FROM FIX USE.
5. DELETED LOC/NDB RWY 5 AND VOR RWY 23 AT KPTB FROM FIX USE.
6. DELETED IRONS STAR AT KW00, KADW, KW32, KCGS, KVKX, AND K2W5 FROM FIX USE.

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
DEVELOPED BY:	DATE: 06/28/2017	OFFICE: AJV-5422	NAME: PETER GUIMOND
APPROVED BY:	DATE:	OFFICE: AJV-5420	NAME: JULIE MORGAN
	SIGNATURE:		
DISTRIBUTION:	NFDC FPO: EST ARTCC: ZDC ATC FACILITY: OTHER:		

RADIO FIX AND HOLDING DATA RECORD

NAME: MANGE

STATE: VA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 370127.74N/0774343.08W

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 NM	FAC FEET	MRA	MAA
1	RICHMOND	RIC	VORTAC	H	223.45	214.45	34.68	34.68		4000	17500
2	FLAT ROCK	FAK	VORTAC	H	177.00	171.00	30.58	30.58		5000	17500

FIX RESTRICTIONS:

MRA V155 5000

HOLDING:

HOLDING TYPE OF ACTION: ESTABLISH

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH DME	HOLDING ALTITUDES MIN	ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	NE		WP	044.14	224.14	L	4	2000	6000	4	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (51-002071)	365740.80N/0774245.60W	633	4D

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST TO AVOID R-6602.

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

RICHMOND (FAC 1) AND FLAT ROCK (FAC 2) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V155	1, 2				(US)
EN ROUTE	V157	1, 2				(US)
IAP	RNAV (GPS)-A		1	KLVL	LAWRENCEVILLE	VA (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6

DATE OF REVISION: 09/15/2016

REASON FOR REVISION:

1. INCREASED FAC 1 MRA FROM 2000 TO 4000 TO MATCH AIRWAY MEA.
2. ESTABLISHED HOLDING PATTERN 1 AND ADDED ASSOCIATED HOLDING DOCUMENTATION.
3. AMENDED RNAV (GPS) RWY 18 AT KLVL TO RNAV (GPS)-A IN FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 05/07/2016

OFFICE: AJV-5412

NAME: PETER GUIMOND

APPROVED BY:

DATE: 07/27/2016

OFFICE: AJV-5410

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: MELIA

STATE: VA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 371656.34N/0774645.89W

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	RICHMOND	RIC	VORTAC	H	248.15	239.15	25.61	25.61		2000	17500
2	FLAT ROCK	FAK	VORTAC	H	177.00	171.00	14.94	14.94		5000	17500
3	BLACKSTONE	BKT	NDB	MH	062.78	053.78		15.74		3000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

RICHMOND (FAC 1) AND FLAT ROCK (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BLACKSTONE	1, 2, 3		KBKT	BLACKSTONE	VA (US)
EN ROUTE	V155	1, 2				(US)
EN ROUTE	V20	1, 2				(US)
IAP	NDB-A	1, 2		KBKT	BLACKSTONE	VA (US)
IAP	RNAV (GPS)-B			KW81	CREWE	VA (US)
IAP	RNAV (GPS) RWY 07			KRIC	RICHMOND	VA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 10

DATE OF REVISION: 10/12/2017

REASON FOR REVISION:

1. UPDATED FIX USE FOR KW81: CHANGED RNAV (GPS) RWY 33 TO RNAV (GPS)-B.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 05/02/2017

OFFICE: AJV-5433

NAME: DAVID TEFFETELLER (ANDREA CHANEY)

APPROVED BY:

DATE:

OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: EST
ARTCC: ZDC
ATC FACILITY: RIC APP CON
OTHER: BKT ATCT

RADIO FIX AND HOLDING DATA RECORD

NAME: WIPER

STATE: NC

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 360909.03N/0783131.80W

TYPE: 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	RALEIGH/DURHAM	RDU	VORTAC	H	045.73	036.73	20.95	20.95		2300	17500
2	TAR RIVER	TYI	VORTAC	L	290.00	285.00		41.34		2300	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
TYI	VORTAC	R-290	42	2300	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

RALEIGH/DURHAM (FAC 1) AND TAR RIVER (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V155	1, 2				(US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 07/19/2018

REASON FOR REVISION:

UPDATED FAC 1 RDU VORTAC MAGVAR CHANGE FROM 4W TO 9W; UPDATED MAG BRG FROM 040.73 TO 045.73.
UPDATED FIX USE.
ADDED CONTROLLER LOW TO REQUIRED CHARTING.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 05/01/2018

OFFICE: AJV-5442

NAME: BRYAN BLUE

APPROVED BY:

DATE:

OFFICE: AJV-5440

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

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