

# RADIO FIX AND HOLDING DATA RECORD

NAME: BILLA

STATE: NC

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 361436.35N/0785322.44W

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	RALEIGH/DURHAM	RDU	VORTAC	H	355.94	346.94	22.82	22.82		2600	17500
2	LIBERTY	LIB	VORTAC	L	056.46	053.46		43.67		6000	17500

## EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
LIB	VORTAC	R-056	44	6000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

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

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V136	1				(US)
EN ROUTE	V454	2				(US)
IAP	RNAV (GPS) RWY 9			KIGX	CHAPEL HILL	NC (US)
STAR	SOUTH BOSTON	1, 2		KIGX	CHAPEL HILL	NC (US)
STAR	SOUTH BOSTON	1, 2		KLHZ	LOUISBURG	NC (US)
STAR	SOUTH BOSTON	1, 2		KHNZ	OXFORD	NC (US)
STAR	ALDAN (RNAV)			KRDU	RALEIGH/DURHAM	NC (US)
STAR	SOUTH BOSTON	1, 2		KRDU	RALEIGH/DURHAM	NC (US)
STAR	SOUTH BOSTON	1, 2		KTDF	ROXBORO	NC (US)
STAR	SOUTH BOSTON	1, 2		KTTA	SANFORD	NC (US)
STAR	SOUTH BOSTON	1, 2		KJNX	SMITHFIELD	NC (US)

REQUIRED CHARTING: STAR, IAP, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 05/24/2018

## REASON FOR REVISION:

UPDATED FAC 1, RDU MAGVAR CHANGED FROM W4 TO W9, MAG BRG CHANGED FROM 350.94 TO 355.94.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 04/02/2018

OFFICE: AJV-5411

NAME: BRYAN BLUE

APPROVED BY:

DATE:

OFFICE: AJV-5410

NAME: DOUGLAS DAVIS

SIGNATURE:

DISTRIBUTION:

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

# RADIO FIX AND HOLDING DATA RECORD

NAME: JUNKI

STATE: VA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 371159.11N/0771859.94W

TYPE: WP, RADAR, 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	I-CFU	LOC/DME		151.11	141.11	16.51	16.51		2000	4500
2	HOPEWELL	HPW	VORTAC	L	237.23	231.23	12.34	12.34		2000	17500
3	RICHMOND	RIC	VORTAC	H	188.45	179.45		18.13		2000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

RICHMOND (FAC 1) AND HOPEWELL (FAC 2) USED TO ESTABLISH FIX COORDINATES  
CHART FAC 1/2/3 ON ENROUTE LOW  
FAC 1 DME COORDINATES: 372453.42N/0773156.02W.  
FAC 1 AND 3 USED TO DETERMINE LEAST DIVERGENCE ANGLE.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V454	1, 2, 3				(US)
IAP	ILS OR LOC RWY 33	1, 2	KFCI		RICHMOND	VA (US)
IAP	RNAV (GPS) RWY 33		KFCI		RICHMOND	VA (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 12

DATE OF REVISION: 09/23/2010

## REASON FOR REVISION:

UPDATED FIX USE.  
DELETED FAC 4 AND 5.  
ADDED DIST FROM FAC.  
ADDED DME DIST FOR FAC 2.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 01/28/2010

OFFICE: AVN-110

NAME: MARCELLO SADORRA (MARY LYNNE  
HOEGSTROM)

APPROVED BY:

DATE: 07/28/2010

OFFICE: AVN-110

NAME: GEORGE DAVIS

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: NYC  
ARTCC: ZDC  
ATC FACILITY: PCT TRACON/RIC ATCT  
OTHER:

# RADIO FIX AND HOLDING DATA RECORD

NAME: LAWRENCEVILLE VORTAC

STATE: VA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 364904.93N/0775410.69W

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 NM	FAC FEET	MRA	MAA
1	LAWRENCEVILLE	LVL	VORTAC	L							17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	230	TOWER (51-000428)	365202.50N/0775329.90W	873	5D

## HOLDING RESTRICTIONS:

UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 2000.

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BEXGO (RNAV)			KRDU	RALEIGH/DURHAM	NC (US)
DP	RALEIGH			KRDU	RALEIGH/DURHAM	NC (US)
EN ROUTE	V155					(US)
EN ROUTE	V157					(US)
EN ROUTE	V266					(US)
EN ROUTE	V454					(US)
IAP	RNAV (GPS) RWY 05			KPTB	PETERSBURG	VA (US)
IAP	RNAV (GPS) RWY 23			KPTB	PETERSBURG	VA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 13

DATE OF REVISION: 08/17/2017

## REASON FOR REVISION:

REMOVED KLVV RNAV (GPS) RWY 36 FROM FIX USE.  
REMOVED KIXA RNAV (GPS) RWY 20 FROM FIX USE.  
REMOVED KEMV RNAV (GPS) RWY 16 FROM FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 01/11/2017

OFFICE: AJV-5422

NAME: DANIEL OLSON (LEO PALMER)

APPROVED BY:

DATE:

OFFICE: AJV-5420

NAME: JULIE MORGAN

SIGNATURE:

DISTRIBUTION:

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

# RADIO FIX AND HOLDING DATA RECORD

NAME: OXFRD

STATE: NC

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 362513.02N/0783520.30W

TYPE: WP, 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	RALEIGH/DURHAM	RDU	VORTAC	H	025.00	016.00	34.15	34.15		3000	17500
2	LIBERTY	LIB	VORTAC	L	056.46	053.46	61.69	61.69		6000	17500

## EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
LIB	VORTAC	R-056	62	6000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

RALEIGH/DURHAM (FAC 1) USED TO ESTABLISH FIX COORDINATES

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	OXFRD (RNAV)			KRDU	RALEIGH/DURHAM	NC (US)
EN ROUTE	V3	1				(US)
EN ROUTE	V454	2				(US)

REQUIRED CHARTING: DP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 07/19/2018

## REASON FOR REVISION:

UPDATED FAC 1 RDU VORTAC MAGVAR CHANGE FROM 4W TO 9W; UPDATED MAG BRG FROM 020.00 TO 025.00.  
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:

# RADIO FIX AND HOLDING DATA RECORD

NAME: STASE

STATE: NC

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 360444.80N/0790959.63W

TYPE: DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

## FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	LIBERTY	LIB	VORTAC	L	056.46	053.46	27.00	27.00		6000	17500

## REMARKS:

ESTABLISH NAMED 27 DME CCW ARC START POINT FOR FIX USE PROCEDURE.  
MEA FOR V-454 IS 6000.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V-454	1				(US)
IAP	VOR/DME-A	1		KBUY	BURLINGTON	NC (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 02/06/2014

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 09/18/2013

OFFICE: AJV-352

NAME: ROBERT COOK

APPROVED BY:

DATE: 02/06/2014

OFFICE: AJV-352

NAME: SUE CRUMB

SIGNATURE:

DISTRIBUTION:

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