

# RADIO FIX AND HOLDING DATA RECORD

NAME: COFIELD VORTAC

STATE: NC

COUNTRY: US

LATITUDE/LONGITUDE: 362222.49N/0765217.56W

TYPE:

INFO ONLY

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	COFIELD	CVI	VORTAC	L							17500

HOLDING:

HOLDING TYPE OF ACTION: MODIFY

**PATTERNS:**

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG TIME	LENGTH DME	HOLDING MIN	ALTITUDES MAX	TEMPLATES MIN	MAX
1	E	CVI	VORTAC	082.00	262.00	R	1		2000	14000	4	10

**CONTROLLING OBSTRUCTIONS:**

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (37-020104)	362612.18N/0764324.88W	434	4D

**HOLDING RESTRICTIONS:**

HOLDING LIMITED TO ESTABLISHED PATTERNS.

**REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	J193					(US)
EN ROUTE	V1					(US)
EN ROUTE	V194					(US)
EN ROUTE	V260					(US)
EN ROUTE	V70					(US)
IAP	VOR/DME-A	1		KASJ	AHOSKIE	NC (US)
IAP	ILS OR LOC RWY 19			KEDE	EDENTON	NC (US)
IAP	RNAV (GPS) RWY 19			KEDE	EDENTON	NC (US)
IAP	ILS OR LOC RWY 10			KECG	ELIZABETH CITY	NC (US)
IAP	ILS OR LOC RWY 7			KPHF	NEWPORT NEWS	VA (US)
IAP	RNAV (GPS) RWY 7			KPHF	NEWPORT NEWS	VA (US)
IAP	ILS OR LOC RWY 5			KCPK	NORFOLK	VA (US)
IAP	LOC RWY 4			KSFQ	SUFFOLK	VA (US)
IAP	RNAV (GPS) RWY 4			KSFQ	SUFFOLK	VA (US)
IAP	RNAV (GPS) RWY 7			KSFQ	SUFFOLK	VA (US)
STAR	DRONE ONE			KORF	NORFOLK	VA (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 8

**DATE OF REVISION:** 04/30/2015

**REASON FOR REVISION:**

1. CHANGED PAT 1 CRS INBOUND FROM 261.80 TO 262.00.
2. CHANGED CONTROLLING OBSTRUCTIONS PAT 1 ACCURACY CODE FROM 1A TO 4D.
3. UPDATED FIX USE.

**DEVELOPED BY:** DATE: 12/05/2014

**OFFICE:** AJV-352

**NAME:** JULIE MORGAN (JOHN THORNTON)

**APPROVED BY:** DATE: 03/02/2015

**OFFICE:** AJV-352

**NAME:** SUE CRUMB

**SIGNATURE:**

**DISTRIBUTION:**

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

QUALITY  
4  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** FRANKLIN VORTAC      **STATE:** VA      **COUNTRY:** US      **ICAO REGION CODE:** K6

**LATITUDE/LONGITUDE:** 364251.25N/0770044.56W      **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	FRANKLIN	FKN	VORTAC	L						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	W	FKN	VORTAC	290.00	110.00	R	1		1600	6000	4	5
2	W		WP	290.00	110.00	R		4	2000	5000	4	6

**CONTROLLING OBSTRUCTIONS:**

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (51-000975)	364116.00N/0770058.48W	524	5D
2	200	TOWER (51-000975)	364116.00N/0770058.48W	524	5D

**HOLDING RESTRICTIONS:**

HOLDING LIMITED TO ESTABLISHED PATTERNS.

**REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	MOUNTY			KFAY	FAYETTEVILLE	NC (US)
DP	RALEIGH			KRDU	RALEIGH/DURHAM	NC (US)
EN ROUTE	J207					(US)
EN ROUTE	J79					(US)
EN ROUTE	V189					(US)
EN ROUTE	V260					(US)
EN ROUTE	V266					(US)
EN ROUTE	V66					(US)
IAP	RNAV (GPS) RWY 2			KIXA	ROANOKE RAPIDS	NC (US)
IAP	RNAV (GPS) RWY 20			KIXA	ROANOKE RAPIDS	NC (US)
IAP	LOC RWY 34			KEMV	EMPORIA	VA (US)
IAP	RNAV (GPS) RWY 34			KEMV	EMPORIA	VA (US)
IAP	COPTER RNAV (GPS) RWY 14			KFAF	FORT EUSTIS	VA (US)
IAP	RNAV (GPS) RWY 14			KFAF	FORT EUSTIS	VA (US)
IAP	ILS OR LOC RWY 7			KPHF	NEWPORT NEWS	VA (US)
IAP	RNAV (GPS) RWY 7			KPHF	NEWPORT NEWS	VA (US)
IAP	ILS OR LOC RWY 23		1	KORF	NORFOLK	VA (US)
IAP	RNAV (GPS) RWY 10			KPVG	NORFOLK	VA (US)
IAP	VOR RWY 23			KPTB	PETERSBURG	VA (US)
IAP	RNAV (GPS) RWY 20		2	KAKQ	WAKEFIELD	VA (US)
STAR	NASCR			KVUJ	ALBEMARLE	NC (US)
STAR	CHSLY (RNAV)			KCLT	CHARLOTTE	NC (US)
STAR	NASCR			KJQF	CONCORD	NC (US)
STAR	ARGAL			KRDU	RALEIGH/DURHAM	NC (US)
STAR	KAROO (RNAV)			KRDU	RALEIGH/DURHAM	NC (US)
STAR	NASCR			KRUQ	SALISBURY	NC (US)
STAR	DRONE			KLFI	HAMPTON	VA (US)
STAR	DRONE			KPHF	NEWPORT NEWS	VA (US)
STAR	DRONE			KCPK	NORFOLK	VA (US)
STAR	DRONE			KNGU	NORFOLK	VA (US)
STAR	DRONE			KORF	NORFOLK	VA (US)
STAR	DRONE			KPVG	NORFOLK	VA (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 19

**DATE OF REVISION:** 11/10/2016

**REASON FOR REVISION:**

REMOVED KCLT IVANE (RNAV) STAR FROM FIX USE.  
 UPDATED PATTERN 1 AND 2 CONTROLLING OBSTRUCTION ELEVATION FROM 528 TO 524.  
 ADDED KFAF RNAV (GPS) RWY 14 AND COPTER RNAV (GPS) RWY 14 TO FIX USE.

**DEVELOPED BY:**

**DATE:** 05/26/2016

**OFFICE:** AJV-5413

**NAME:** MIKE MELSSSEN

QUALITY  
4  
CHECKED

APPROVED BY:

DATE:

OFFICE: AJV-5410

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

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

QUALITY  
4  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: NORFOLK VORTAC

STATE: VA

COUNTRY: US

LATITUDE/LONGITUDE: 365330.84N/0761201.17W

TYPE:

INFO ONLY

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	NORFOLK	ORF	VORTAC	H							45000
2	CAPE CHARLES	CCV	VORTAC	L	209.67	199.67	28.98	28.98		2000	24500
3	FRANKLIN	FKN	VORTAC	L	083.54	074.54	40.55	40.55		2500	45000

## EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
CCV	VORTAC	R-210	30	18000	45000
FKN	VORTAC	R-084	41	2500	45000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

FAC 2 AND 3 ADDED TO COVER SUBSTITUTE ROUTES.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	WINSTON			KINT	WINSTON-SALEM	NC (US)
DP	HENRY			KPHF	NEWPORT NEWS	VA (US)
DP	KISRR			KORF	NORFOLK	VA (US)
EN ROUTE	AR9					(US)
EN ROUTE	J121					(US)
EN ROUTE	J174					(US)
EN ROUTE	J209					(US)
EN ROUTE	V1					(US)
EN ROUTE	V139					(US)
IAP	ILS OR LOC RWY 25			KPHF	NEWPORT NEWS	VA (US)
IAP	RNAV (GPS) RWY 20			KPHF	NEWPORT NEWS	VA (US)
IAP	RNAV (GPS) RWY 25			KPHF	NEWPORT NEWS	VA (US)
IAP	ILS OR LOC RWY 5			KCPK	NORFOLK	VA (US)
IAP	RNAV (GPS) RWY 23			KCPK	NORFOLK	VA (US)
IAP	VOR/DME RWY 23			KCPK	NORFOLK	VA (US)
IAP	ILS OR LOC RWY 23			KORF	NORFOLK	VA (US)
IAP	ILS OR LOC RWY 5			KORF	NORFOLK	VA (US)
IAP	RIVER VISUAL RWY 5			KORF	NORFOLK	VA (US)
IAP	VOR/DME RWY 14			KORF	NORFOLK	VA (US)
IAP	VOR/DME RWY 32			KORF	NORFOLK	VA (US)
IAP	LOC RWY 4			KSFQ	SUFFOLK	VA (US)
IAP	RNAV (GPS) RWY 25			KSFQ	SUFFOLK	VA (US)
IAP	RNAV (GPS) RWY 4			KSFQ	SUFFOLK	VA (US)
IAP	RNAV (GPS) RWY 20			KAKQ	WAKEFIELD	VA (US)
STAR	SMYRNA			KDOV	DOVER	DE (US)
STAR	DRONE			KCPK	NORFOLK	VA (US)
STAR	DRONE			KNGU	NORFOLK	VA (US)
STAR	DRONE			KORF	NORFOLK	VA (US)
STAR	DRONE			KPVG	NORFOLK	VA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7

DATE OF REVISION: 02/04/2016

## REASON FOR REVISION:

1. DELETED FIX USE KORF VOR/DME RWY 5 AND VOR RWY 23.

DEVELOPED BY:

DATE: 12/14/2015

OFFICE: AJV-5422

NAME: STEVE NELSON

APPROVED BY:

DATE: 12/23/2015

OFFICE: AJV-5410

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

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

QUALITY  
4  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** OLUCE **STATE:** NC **COUNTRY:** US **ICAO REGION CODE:** K7

**LATITUDE/LONGITUDE:** 362921.03N/0764409.83W **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	MRA	MAA
1	SUFFOLK	I-RKH	LOC		220.00	210.00		13.92	2000	4500
2	ELIZABETH CITY	ECG	VOR/DME	L	304.23	297.23		30.50	2000	17500
3	COFIELD	CVI	VORTAC	L	052.24	043.24	9.57	9.57	2000	17500
4	NORFOLK	ORF	VORTAC	H	234.13	227.13	35.36	35.36	2500	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	SW		WP	219.92	039.92	R	1	4	2000	6000	4	6
2	SW	I-RKH	LOC	220.00	040.00	R	1		2000	4500	5	7
3	SW	ORF	VORTAC	234.13	054.13	R	1		2500	4500	6	7

**CONTROLLING OBSTRUCTIONS:**

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (37-020104)	362612.18N/0764324.88W	434	4D
2	200	TOWER (37-020104)	362612.18N/0764324.88W	434	4D
3	200	TOWER (37-020104)	362612.18N/0764324.88W	434	4D

**HOLDING RESTRICTIONS:**

HOLDING LIMITED TO ESTABLISHED PATTERNS.

**REMARKS:**

SUFFOLK (FAC 1) AND ELIZABETH CITY (FAC 2) USED TO ESTABLISH FIX COORDINATES  
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	LOC RWY 4	1, 2, 3, 2	4	KSFQ	SUFFOLK	VA (US)
IAP	LOC RWY 4 (ALT MA)	1, 2, 3, 3	4	KSFQ	SUFFOLK	VA (US)
IAP	RNAV (GPS) RWY 22		1	KSFQ	SUFFOLK	VA (US)
IAP	RNAV (GPS) RWY 4		1	KSFQ	SUFFOLK	VA (US)

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 5

**DATE OF REVISION:** 11/10/2016

**REASON FOR REVISION:**

ADDED INT AND DME TO FIX TYPE.  
FIX MOVED 3587.72 FEET TO THE SOUTHWEST; COORDINATES UPDATED.  
ADDED FACILITIES 1, 2, 3, 4.  
HOLD PAT 1 MIN ALTITUDE CHANGED FROM 2100 TO 2000; MIN TEMPLATE SIZE CHANGED FROM 5 TO 4.  
ADDED HOLD PAT 2 AND 3.  
ADDED FIX ESTABLISHMENT REMARKS.  
UPDATED FIX USE (KSFQ LOC RWY 4).

**DEVELOPED BY:** **DATE:** 04/15/2016 **OFFICE:** AJV-5413 **NAME:** DAN POWELL

**APPROVED BY:** **DATE:** **OFFICE:** AJV-5410 **NAME:** MARLON ROBINSON

**SIGNATURE:**

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

QUALITY  
4  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: SIMLE

STATE: VA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 363900.46N/0763715.86W

TYPE: WP, 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	SUFFOLK	I-RKH	LOC		220.00	210.00		2.79		580	4500
2	COFIELD	CVI	VORTAC	L	045.03	036.03	20.56	20.56		580	4500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

SUFFOLK (FAC 1) AND COFIELD (FAC 2) USED TO ESTABLISH FIX COORDINATES

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	LOC RWY 4	1, 2		KSFQ	SUFFOLK	VA (US)
IAP	RNAV (GPS) RWY 4			KSFQ	SUFFOLK	VA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 11/10/2016

## REASON FOR REVISION:

ADDED DME TO FIX TYPE.  
FIX MOVED 1215.24 FEET TO THE NORTHWEST; COORDINATES UPDATED.  
ADDED FIX ESTABLISHMENT REMARK.

DEVELOPED BY:

DATE: 04/13/2016

OFFICE: AJV-5413

NAME: DAN POWELL

APPROVED BY:

DATE:

OFFICE: AJV-5410

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

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

QUALITY  
4  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: VEZVA

STATE: NC

COUNTRY: US

LATITUDE/LONGITUDE: 363251.43N/0765015.18W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: CANCEL

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE  
IAP

USE TITLE  
RNAV (GPS) RWY 4

FAC

PAT

AIRPORT IDENT  
KSFQ

CITY  
SUFFOLK

STATE  
VA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 05/02/2013

REASON FOR REVISION:

MOVED FIX 6 FT SOUTHWEST.

DEVELOPED BY:

DATE:

OFFICE:

NAME:

APPROVED BY:

DATE:

OFFICE: AJV-5410

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

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

QUALITY  
4  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: SUFSO

STATE: NC

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 362421.16N/0763326.26W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE  
IAP

USE TITLE  
RNAV (GPS) RWY 4

FAC

PAT

AIRPORT IDENT  
KSFQ

CITY  
SUFFOLK

STATE  
VA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 11/10/2016

REASON FOR REVISION:

CORRECT REVISION COMMENT: FIX MOVED 0.59 NM SOUTHEAST; COORDINATES UPDATED.

DEVELOPED BY:

DATE: 06/21/2016

OFFICE: AJV-5413

NAME: DAN POWELL

APPROVED BY:

DATE:

OFFICE: AJV-5410

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

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

QUALITY  
4  
CHECKED



# RADIO FIX AND HOLDING DATA RECORD

NAME: ZAXIB

STATE: VA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 363525.47N/0763949.69W

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	SUFFOLK	I-RKH	LOC		220.00	210.00		6.92	42045	2000	4500
2	ELIZABETH CITY	ECG	VOR/DME	L	317.30	310.30		30.93		2000	17500
3	COFIELD	CVI	VORTAC	L	046.58	037.58	16.46	16.46		2000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

SUFFOLK (FAC 1) AND ELIZABETH CITY (FAC 2) USED TO ESTABLISH FIX COORDINATES

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	LOC RWY 4	1, 2, 3		KSFQ	SUFFOLK	VA (US)
IAP	RNAV (GPS) RWY 4			KSFQ	SUFFOLK	VA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 11/10/2016

## REASON FOR REVISION:

ADDED INT AND DME TO FIX TYPE.  
FIX MOVED 3720.70 FEET TO THE SOUTHWEST; COORDINATES UPDATED.  
ADDED FACILITIES 1, 2, 3.  
ADDED FIX ESTABLISHMENT REMARKS.  
UPDATED FIX USE (KSFQ LOC RWY 4).

DEVELOPED BY:

DATE: 04/13/2016

OFFICE: AJV-5413

NAME: DAN POWELL

APPROVED BY:

DATE:

OFFICE: AJV-5410

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

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

QUALITY  
4  
CHECKED