

# RADIO FIX AND HOLDING DATA RECORD

NAME: HARCUM VORTAC STATE: VA COUNTRY: US ICAO REGION CODE: K6  
 LATITUDE/LONGITUDE: 372655.18N/0764240.87W 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	HARCUM	HCM	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 LENGTH TIME	DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	SE	HCM	VORTAC	155.00	335.00	R	1		1700	6000	4	5
2	W	HCM	VORTAC	283.60	103.60	L	1		2000	14000	4	10
3	W	WP	WP	283.60	103.60	L		4	2000	6000	4	6

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	373039.00N/0764045.00W	332	4E
1	310	TOWER (51-000309)	371234.00N/0763234.00W	568	5D
2	200	TOWER (51-001121)	372701.00N/0764852.00W	405	5D
3	200	TOWER (51-001121)	372701.00N/0764852.00W	405	5D

## REASON FOR NONSTANDARD HOLDING:

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	LOC RWY 10	KFYJ	WEST POINT	VA (US)

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
 ASSIGNED FACILITY MAG VAR: W07

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	HENRY			KPHF	NEWPORT NEWS	VA (US)
DP	KISRR			KORF	NORFOLK	VA (US)
DP	COLIN			KRIC	RICHMOND	VA (US)
EN ROUTE	J193					(US)
EN ROUTE	J24					(US)
EN ROUTE	V33					(US)
EN ROUTE	V38					(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 25		2	KPHF	NEWPORT NEWS	VA (US)
IAP	ILS OR LOC RWY 7		2	KPHF	NEWPORT NEWS	VA (US)
IAP	LOC RWY 20		2	KPHF	NEWPORT NEWS	VA (US)
IAP	RNAV (GPS) RWY 2			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	RNAV (GPS) RWY 7			KPHF	NEWPORT NEWS	VA (US)
IAP	ILS OR LOC RWY 23		1	KORF	NORFOLK	VA (US)
IAP	ILS OR LOC RWY 5			KORF	NORFOLK	VA (US)
IAP	RNAV (GPS) RWY 14			KORF	NORFOLK	VA (US)
IAP	VOR RWY 14			KORF	NORFOLK	VA (US)
IAP	VOR/DME RWY 32			KORF	NORFOLK	VA (US)
IAP	VOR RWY 23			KPTB	PETERSBURG	VA (US)
IAP	RNAV (GPS) RWY 29			KW96	QUINTON	VA (US)
IAP	ILS OR LOC RWY 02			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	VOR RWY 2			KRIC	RICHMOND	VA (US)
IAP	VOR RWY 34			KRIC	RICHMOND	VA (US)
IAP	GPS RWY 1			KW75	SALUDA	VA (US)
IAP	RNAV (GPS) RWY 28			KXSA	TAPPAHANNOCK	VA (US)
IAP	LOC RWY 10		1	KFYJ	WEST POINT	VA (US)
IAP	VOR-A		1	KFYJ	WEST POINT	VA (US)
IAP	RNAV (GPS) - C		3	KJGG	WILLIAMSBURG	VA (US)
IAP	VOR-B		2	KJGG	WILLIAMSBURG	VA (US)
IAP	RNAV (GPS) RWY 23			KW94	WILLIAMSBURG	VA (US)
IAP	RNAV (GPS) RWY 5			KW94	WILLIAMSBURG	VA (US)

QUALITY  
23  
CHECKED

STAR	IRONS	KDCA	WASHINGTON	DC (US)
STAR	SMYRNA	KDOV	DOVER	DE (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, MILITARY IAP, IAP, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 20

**DATE OF REVISION:** 10/12/2017

**REASON FOR REVISION:**

UPDATED FIX USE (KORF ILS OR LOC RWY 23).

**DEVELOPED BY:**            **DATE:** 05/03/2017            **OFFICE:** AJV-5431            **NAME:** ROBERT GRIM

**APPROVED BY:**            **DATE:**            **OFFICE:** AJV-5430            **NAME:** PATRICK MULQUEEN

**SIGNATURE:**

**DISTRIBUTION:**

NFDC  
FPO: EST  
ARTCC: ZDC  
ATC FACILITY: POTOMAC APP CON, KORF ATCT  
OTHER: USAASA

QUALITY  
23  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** KLINK **STATE:** VA **COUNTRY:** US **ICAO REGION CODE:** K6

**LATITUDE/LONGITUDE:** 370253.25N/0760304.46W **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	NORFOLK	I-JZQ	LOC/DME		046.80	037.80	10.67	12.48	2000	4500
2	HARCUM	HCM	VORTAC	L	134.00	127.00		39.70	2000	17500
3	NORFOLK	ORF	VORTAC	H	044.40	037.40	11.79	11.79	2000	4000

**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	NE	I-JZQ	LOC/DME	046.80	226.80	L	1	2000 4000	5 6
2	NE	ORF	VORTAC	044.40	224.40	L	1	2000 4000	5 6

**CONTROLLING OBSTRUCTIONS:**

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	TOWER (51-001700)	371054.00N/0755746.00W	527	5D
2	230	TOWER (51-001700)	371054.00N/0755746.00W	527	5D

**REASON FOR NONSTANDARD HOLDING:**

PAT 1 TO AVOID LANGLEY AFB AREA, AS REQUESTED BY ATC  
PAT 2 AS REQUESTED BY ATC

**HOLDING RESTRICTIONS:**

HOLDING LIMITED TO ESTABLISHED PATTERNS.

**REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETED  
I-JZQ DME 365428.04N/0761116.38W

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 23	1, 2	1	KORF	NORFOLK	VA (US)
IAP	ILS OR LOC RWY 5	2, 3	2	KORF	NORFOLK	VA (US)
IAP	RNAV (GPS) Z RWY 23			KORF	NORFOLK	VA (US)
IAP	RNAV (RNP) Y RWY 23			KORF	NORFOLK	VA (US)

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 7 **DATE OF REVISION:** 10/12/2017

**REASON FOR REVISION:**

CORRECTED HOLD PATTERN (1,2) AIRSPEED FROM 200 KTS TO 230 KTS TO MATCH OBSTACLE AND PATTERN SIZE.

**DEVELOPED BY:** **DATE:** 05/02/2017 **OFFICE:** AJV-5431 **NAME:** ROBERT GRIM

**APPROVED BY:** **DATE:** **OFFICE:** AJV-5431 **NAME:** PATRICK MULQUEEN

**SIGNATURE:**

**DISTRIBUTION:** NFDC  
FPO: EST  
ARTCC: ZDC  
ATC FACILITY: KORF ATCT  
OTHER:

QUALITY  
23  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: LUF SY

STATE: VA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 365807.38N/0760741.56W

TYPE: WP, RADAR, 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	NORFOLK	I-JZQ	LOC/DME		046.80	037.80	4.64	6.45	39186	1600	4500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

I-JZQ DME 365428.04N/0761116.38W

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 23	1		KORF	NORFOLK	VA (US)

REQUIRED CHARTING: IAP, CONTROLLER

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 10/12/2017

## REASON FOR REVISION:

FIX MOVED .81 FT TO MATCH ILS PFAF LOCATION.  
FAC 1 DISTANCE TO FACILITY CHANGED FROM 29184 FT TO 39186 FT.  
DELETED RNAV (GPS) Z RWY 23 FROM FIX USE.

DEVELOPED BY:

DATE: 05/03/2017

OFFICE: AJV-5431

NAME: ROBERT GRIM

APPROVED BY:

DATE:

OFFICE: AJV-5430

NAME: PATRICK MULQUEEN

SIGNATURE:

DISTRIBUTION:

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

QUALITY  
23  
CHECKED