



STAR	FLOSI (RNAV)	EWR	NEWARK	NJ (US)
STAR	SHAFF	EWR	NEWARK	NJ (US)
STAR	PAWLN (RNAV)	FRG	FARMINGDALE	NY (US)
STAR	LOVES (RNAV)	ISP	NEW YORK	NY (US)
STAR	NELIE (RNAV)	ISP	NEW YORK	NY (US)
STAR	PAWLN (RNAV)	JFK	NEW YORK	NY (US)
STAR	NOBBI (RNAV)	LGA	NEW YORK	NY (US)
STAR	VADDR (RNAV)	LGA	NEW YORK	NY (US)
STAR	TRESA (RNAV)	SWF	NEW YORK	NY (US)
STAR	TRESA (RNAV)	POU	POUGHKEEPSIE	NY (US)
STAR	NELIE (RNAV)	FOK	WESTHAMPTON BEACH	NY (US)
STAR	NOBBI (RNAV)	HPN	WHITE PLAINS	NY (US)
STAR	WIPOR (RNAV)	UUU	NEWPORT	RI (US)
STAR	WIPOR (RNAV)	OQU	NORTH KINGSTOWN	RI (US)
STAR	WIPOR (RNAV)	SFZ	PAWTUCKET	RI (US)
STAR	WIPOR (RNAV)	PVD	PROVIDENCE	RI (US)
STAR	HYPER (RNAV)	CJR	CULPEPER	VA (US)
STAR	HYPER (RNAV)	EZF	FREDERICKSBURG	VA (US)
STAR	HYPER (RNAV)	FRR	FRONT ROYAL	VA (US)
STAR	HYPER (RNAV)	JYO	LEESBURG	VA (US)
STAR	HYPER (RNAV)	NYG	QUANTICO	VA (US)
STAR	HYPER (RNAV)	RMN	STAFFORD	VA (US)
STAR	HYPER (RNAV)	HWY	WARRENTON	VA (US)
STAR	HYPER (RNAV)	OKV	WINCHESTER	VA (US)
STAR	HYPER (RNAV)	MRB	MARTINSBURG	WV (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 32

**DATE OF REVISION:** 05/14/2026

**REASON FOR REVISION:**

1. REMOVED "MCA V489 13300 SOUTHWEST BOUND" FROM FIX RESTRICTIONS.

**INITIATED BY:**                      **DATE:**                      **ORGANIZATION:**                      **NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:**                      AJV-A433                      **NAME:** KWEKU DONKOR

**APPROVED BY:**                      **DATE:** 04/09/2026                      **OFFICE:** AJV-A430                      **NAME:** BEV L BORDY

**SIGNATURE:**

# RADIO FIX AND HOLDING DATA RECORD

NAME: ATWAN STATE: NY COUNTRY: US ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 414415.03N/0734914.27W 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	FEET	MRA	MAA
1	KINGSTON	IGN	VOR/DME	L	012.95	000.95	4.32	4.32		3000	17500
2	PAWLING	PWL	VOR/DME	L	271.00	259.00		10.07		3000	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	N	IGN	VOR/DME	013.00	193.00	R	1	3000 8000	4 8

### CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	414412.00N/0734445.00W	1070	4E
1	310	TOWER (36-000979)	414307.49N/0735945.41W	2000	1A

### HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

### PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	VOR/DME RWY 24	KPOU	POUGHKEEPSIE	NY (US)

### REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

### FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	VOR/DME RWY 24	1, 2	1	POU	POUGHKEEPSIE	NY (US)
STAR	HYPER (RNAV)			HEF	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			IAD	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			CJR	CULPEPER	VA (US)
STAR	HYPER (RNAV)			EZF	FREDERICKSBURG	VA (US)
STAR	HYPER (RNAV)			FRR	FRONT ROYAL	VA (US)
STAR	HYPER (RNAV)			JYO	LEESBURG	VA (US)
STAR	HYPER (RNAV)			NYG	QUANTICO	VA (US)
STAR	HYPER (RNAV)			RMN	STAFFORD	VA (US)
STAR	HYPER (RNAV)			HWY	WARRENTON	VA (US)
STAR	HYPER (RNAV)			OKV	WINCHESTER	VA (US)
STAR	HYPER (RNAV)			MRB	MARTINSBURG	WV (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 08/20/2015

### REASON FOR REVISION:

1. ADDED WP TO FIX TYPE.
2. AMENDED FAC 1 MAG BRG FROM 012.99 TO 012.95.
3. ADDED DIST FROM FAC TO FAC 1 AND FAC 2.
4. AMENDED FAC 1 AND 2 MAA FROM 8000 TO 17500.
5. ADDED STAR TO REQUIRED CHARTING.
6. ADDED HYPER STAR TO FIX USE.

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
DEVELOPED BY:	DATE: 04/07/2015	OFFICE: AJV-352	NAME: PETER GUIMOND
APPROVED BY:	DATE: 08/04/2015	OFFICE: AJV-352	NAME: ADOLFO URRUTIA

SIGNATURE:

DISTRIBUTION: NFDC  
FPO: EST  
ARTCC: ZBW  
ATC FACILITY: NY TRACON  
OTHER:

# RADIO FIX AND HOLDING DATA RECORD

NAME: BARNES VORTAC STATE: MA COUNTRY: US ICAO REGION CODE: K6  
LATITUDE/LONGITUDE: 420943.05N/0724258.32W 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	MRA	MAA
								NM FEET		
1	BARNES	BAF	VORTAC	VL						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	TEMPLATES
									MIN MAX	MIN MAX
1	E	BAF	VORTAC	094.75	274.75	L	1		4000 45000	4 29

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	421109.00N/0724742.00W	1306	4E

## REASON FOR NONSTANDARD HOLDING:

PAT 1 AIR TRAFFIC CONTROL REQUESTED TO PROTECT SECTOR BOUNDARIES

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

## PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	ILS OR LOC RWY 33	KBDL	WINDSOR LOCKS	CT (US)

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
FACILITY MAG VAR: 14W 1980.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BRADLEY			KBDL	WINDSOR LOCKS	CT (US)
DP	HANSCOM			KBED	BEDFORD	MA (US)
DP	BEVERLY			KBVY	BEVERLY	MA (US)
DP	BLZZR (RNAV)			KBOS	BOSTON	MA (US)
DP	LOGAN			KBOS	BOSTON	MA (US)
DP	REVSS (RNAV)			KBOS	BOSTON	MA (US)
DP	WYLYY (RNAV)			KBOS	BOSTON	MA (US)
DP	LAWRENCE			KLWM	LAWRENCE	MA (US)
DP	NORWOOD			KOWD	NORWOOD	MA (US)
DP	NUBLE (RNAV)			KPWM	PORTLAND	ME (US)
DP	PPORT (RNAV)			KMHT	MANCHESTER	NH (US)
EN ROUTE	Q406					(US)
EN ROUTE	Q448					(US)
EN ROUTE	Q480					(US)
EN ROUTE	T314					(US)
EN ROUTE	T460					(US)
EN ROUTE	V146					(US)
EN ROUTE	V292					(US)
EN ROUTE	V405					(US)
IAP	ILS OR LOC RWY 24		1	KBDL	WINDSOR LOCKS	CT (US)
IAP	ILS OR LOC RWY 33		1	KBDL	WINDSOR LOCKS	CT (US)
IAP	ILS OR LOC RWY 6		1	KBDL	WINDSOR LOCKS	CT (US)
IAP	ILS RWY 24 (SA CAT I - II)		1	KBDL	WINDSOR LOCKS	CT (US)
IAP	ILS RWY 6 (CAT II - III)		1	KBDL	WINDSOR LOCKS	CT (US)
IAP	ILS RWY 6 (SA CAT I)		1	KBDL	WINDSOR LOCKS	CT (US)
IAP	VOR/DME-B			7B2	NORTHAMPTON	MA (US)
IAP	ILS OR LOC RWY 20			KBAF	WESTFIELD/SPRINGFIELD	MA (US)
IAP	VOR OR TACAN RWY 2			KBAF	WESTFIELD/SPRINGFIELD	MA (US)
IAP	VOR RWY 20			KBAF	WESTFIELD/SPRINGFIELD	MA (US)
IAP	RNAV (GPS) RWY 11			KORH	WORCESTER	MA (US)
STAR	NOBBI (RNAV)			KDXR	DANBURY	CT (US)
STAR	HYPER (RNAV)			KHEF	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			KIAD	WASHINGTON	DC (US)
STAR	STELA (RNAV)			KCEF	SPRINGFIELD/CHICOPEE	MA (US)
STAR	STELA (RNAV)			KBAF	WESTFIELD/SPRINGFIELD	MA (US)
STAR	STELA (RNAV)			KORH	WORCESTER	MA (US)
STAR	FLOSI (RNAV)			KEWR	NEWARK	NJ (US)
STAR	SHAFF			KEWR	NEWARK	NJ (US)
STAR	NOBBI (RNAV)			KLGA	NEW YORK	NY (US)
STAR	NOBBI (RNAV)			KHPN	WHITE PLAINS	NY (US)
STAR	HYPER (RNAV)			KCJR	CULPEPER	VA (US)
STAR	HYPER (RNAV)			KEZF	FREDERICKSBURG	VA (US)
STAR	HYPER (RNAV)			KFRR	FRONT ROYAL	VA (US)

STAR	HYPER (RNAV)	KJYO	LEESBURG	VA (US)
STAR	HYPER (RNAV)	KNYG	QUANTICO	VA (US)
STAR	HYPER (RNAV)	KRMN	STAFFORD	VA (US)
STAR	HYPER (RNAV)	KHWY	WARRENTON	VA (US)
STAR	HYPER (RNAV)	KOKV	WINCHESTER	VA (US)
STAR	HYPER (RNAV)	KMRB	MARTINSBURG	WV (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:** 24

**DATE OF REVISION:** 05/14/2026

**REASON FOR REVISION:**

FIX USE REMOVED COPTER ILS OR LOC RWY 6 @ KBDL

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A433

**NAME:** JOSHUA DUGAN

**APPROVED BY:**

**DATE:** 04/09/2026

**OFFICE:** AJV-A433

**NAME:** ROBERT HAMILTON

**SIGNATURE:**

# RADIO FIX AND HOLDING DATA RECORD

NAME: BANKK

STATE: PA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 401600.95N/0745400.03W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION:

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	HYPER (RNAV)			HEF	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			IAD	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			CJR	CULPEPER	VA (US)
STAR	HYPER (RNAV)			EZF	FREDERICKSBURG	VA (US)
STAR	HYPER (RNAV)			FRR	FRONT ROYAL	VA (US)
STAR	HYPER (RNAV)			JYO	LEESBURG	VA (US)
STAR	HYPER (RNAV)			NYG	QUANTICO	VA (US)
STAR	HYPER (RNAV)			RMN	STAFFORD	VA (US)
STAR	HYPER (RNAV)			HWY	WARRENTON	VA (US)
STAR	HYPER (RNAV)			OKV	WINCHESTER	VA (US)
STAR	HYPER (RNAV)			MRB	MARTINSBURG	WV (US)

REQUIRED CHARTING: STAR, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 03/21/2024

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: TYLER MITCHELL

APPROVED BY:

DATE: 03/21/2024

OFFICE: AJV-A432

NAME: CASIMIR TABAKA

SIGNATURE:

# RADIO FIX AND HOLDING DATA RECORD

NAME: BIGGO

STATE: CT

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 415720.91N/0730404.59W

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
EN ROUTE	Q406					(US)
EN ROUTE	Q448					(US)
STAR	HYPER (RNAV)			HEF	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			IAD	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			CJR	CULPEPER	VA (US)
STAR	HYPER (RNAV)			EZF	FREDERICKSBURG	VA (US)
STAR	HYPER (RNAV)			FRR	FRONT ROYAL	VA (US)
STAR	HYPER (RNAV)			JYO	LEESBURG	VA (US)
STAR	HYPER (RNAV)			NYG	QUANTICO	VA (US)
STAR	HYPER (RNAV)			RMN	STAFFORD	VA (US)
STAR	HYPER (RNAV)			HWY	WARRENTON	VA (US)
STAR	HYPER (RNAV)			OKV	WINCHESTER	VA (US)
STAR	HYPER (RNAV)			MRB	MARTINSBURG	WV (US)

REQUIRED CHARTING: STAR, EN ROUTE HIGH, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 03/21/2024

**REASON FOR REVISION:**

1. CHANGED REQUIRED CHARTING FROM CONTROLLER TO CONTROLLER HIGH.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: TYLER MITCHELL

APPROVED BY:

DATE: 03/21/2024

OFFICE: AJV-A432

NAME: CASIMIR TABAKA

SIGNATURE:

# RADIO FIX AND HOLDING DATA RECORD

NAME: BINNS

STATE: PA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 394706.22N/0770039.58W

TYPE: WP, INT, DME

AIRSPACE DOCKET: 23-AEA-2

FIX TYPE OF ACTION: MODIFY

### FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FEET	MRA	MAA
1	LANCASTER	LRP	VOR/DME	L	248.07	239.07	38.81	38.81		9000	17500
2	WESTMINSTER	EMI	VORTAC	VH	003.07	355.07	17.45	17.45		3400	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	E		WP	068.61	248.61	R		7	10000	13000	12	14
2	E	LRP	VOR/DME	248.07	248.07	R	1		9000	17000	13	18

### CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	265	TOWER (42-000370)	395126.00N/0765655.00W	1547	4D
2	265	TOWER (42-000370)	395126.00N/0765655.00W	1547	4D

### HOLDING RESTRICTIONS:

PAT 1 CHART 265K ICON  
HOLDING LIMITED TO ESTABLISHED PATTERNS.  
PAT 2 CHART 265K ICON

### REMARKS:

LANCASTER (FAC 1) AND WESTMINSTER (FAC 2) USED TO ESTABLISH FIX COORDINATES.  
PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
265K UTILIZED ON PAT 1 AND PAT 2 PER ATC REQUEST.

### FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V143	1, 2				(US)
EN ROUTE	V265	1, 2				(US)
EN ROUTE	V39	1, 2				(US)
IAP	RNAV (GPS) Y RWY 23			FDK	FREDERICK	MD (US)
IAP	RNAV (GPS) Z RWY 23			FDK	FREDERICK	MD (US)
IAP	RNAV (GPS) RWY 16			DMW	WESTMINSTER	MD (US)
STAR	HYPER (RNAV)		1	HEF	WASHINGTON	DC (US)
STAR	DELRO	1, 2	2	IAD	WASHINGTON	DC (US)
STAR	HYPER (RNAV)		1	IAD	WASHINGTON	DC (US)
STAR	HYPER (RNAV)		1	CJR	CULPEPER	VA (US)
STAR	HYPER (RNAV)		1	EZF	FREDERICKSBURG	VA (US)
STAR	HYPER (RNAV)		1	FRR	FRONT ROYAL	VA (US)
STAR	HYPER (RNAV)		1	JYO	LEESBURG	VA (US)
STAR	HYPER (RNAV)		1	NYG	QUANTICO	VA (US)
STAR	HYPER (RNAV)		1	RMN	STAFFORD	VA (US)
STAR	HYPER (RNAV)		1	HWY	WARRENTON	VA (US)
STAR	HYPER (RNAV)		1	OKV	WINCHESTER	VA (US)
STAR	HYPER (RNAV)		1	MRB	MARTINSBURG	WV (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 12

DATE OF REVISION: 01/25/2024

### REASON FOR REVISION:

AIRSPACE DOCKET: ADDED 23-AEA-2.  
FIX RESTRICTIONS: REMOVED V265 MRA - NOT DOCUMENTED OR CHARTED.  
FIX USE: REMOVED T445.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: BARRY SMITH

APPROVED BY:

DATE: 01/25/2024

OFFICE: AJV-A421

NAME: JASON KRETSCHMER

SIGNATURE:

# RADIO FIX AND HOLDING DATA RECORD

NAME: BOTLS

STATE: NJ

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 405508.24N/0744948.79W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION:

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	HYPER (RNAV)			HEF	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			IAD	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			CJR	CULPEPER	VA (US)
STAR	HYPER (RNAV)			EZF	FREDERICKSBURG	VA (US)
STAR	HYPER (RNAV)			FRR	FRONT ROYAL	VA (US)
STAR	HYPER (RNAV)			JYO	LEESBURG	VA (US)
STAR	HYPER (RNAV)			NYG	QUANTICO	VA (US)
STAR	HYPER (RNAV)			RMN	STAFFORD	VA (US)
STAR	HYPER (RNAV)			HWY	WARRENTON	VA (US)
STAR	HYPER (RNAV)			OKV	WINCHESTER	VA (US)
STAR	HYPER (RNAV)			MRB	MARTINSBURG	WV (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 08/20/2015

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 04/07/2015

OFFICE: AJV-352

NAME: PETER GUIMOND

APPROVED BY:

DATE: 08/04/2015

OFFICE: AJV-352

NAME: ADOLFO URRUTIA

SIGNATURE:

DISTRIBUTION:

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

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** CRAIN

**STATE:** MD

**COUNTRY:** US

**ICAO REGION CODE:** K6

**LATITUDE/LONGITUDE:** 391914.47N/0773501.25W

**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	HYPER (RNAV)			IAD	WASHINGTON	DC (US)
STAR	PRTZL (RNAV)			IAD	WASHINGTON	DC (US)
STAR	TRSTN (RNAV)			FDK	FREDERICK	MD (US)
STAR	TRSTN (RNAV)			HGR	HAGERSTOWN	MD (US)
STAR	TRSTN (RNAV)			FRR	FRONT ROYAL	VA (US)
STAR	TRSTN (RNAV)			JYO	LEESBURG	VA (US)
STAR	TRSTN (RNAV)			OKV	WINCHESTER	VA (US)
STAR	TRSTN (RNAV)			MRB	MARTINSBURG	WV (US)

**REQUIRED CHARTING:** STAR

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 2

**DATE OF REVISION:** 02/20/2025

**REASON FOR REVISION:**

- FIX USE: ADDED TRSTN (RNAV) TO FIX MAKE UP FOR KMRB, KFDK, KFRR, KJYO, KHGR, KOKV.
- REMARKS: DELETE "FIX NAME RETAINED PER ATC REQUEST FOR OPERATIONAL NECESSITY".

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A421

**NAME:** STEVEN DOUGHERTY

**APPROVED BY:**

**DATE:** 01/16/2025

**OFFICE:** AJV-A421

**NAME:** DAVID DANNER

**SIGNATURE:**

# RADIO FIX AND HOLDING DATA RECORD

NAME: DELRO

STATE: PA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 395755.71N/0763731.24W

TYPE: WP, INT, DME

AIRSPACE DOCKET: 23-AEA-10

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	LANCASTER	LRP	VOR/DME	L	248.07	239.07	17.97	17.97	3000	17500
2	BALTIMORE	BAL	VORTAC	L	012.99	001.99		47.65	4000	17500
3	MODENA	MXE	VORTAC	L	283.00	274.00	44.14	44.14	10000	17500
4	RAVINE	RAV	VORTAC	L	192.95	181.95		35.27	3000	17500
5	HARRISBURG	HAR	VORTAC	L	144.50	134.50	28.73	28.73	3000	17500

### EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
BAL	VORTAC	R-013	48	4000	17500
MXE	VORTAC	R-283	45	10000	17500

### FIX RESTRICTIONS:

MCA V184 10000 EASTBOUND

### HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

### REMARKS:

LANCASTER (FAC 1) AND HARRISBURG (FAC 5) USED TO ESTABLISH FIX COORDINATES.  
ATC REQUEST SECTIONAL CHARTING.

### FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	T307					(US)
EN ROUTE	T456					(US)
EN ROUTE	V143					(US)
EN ROUTE	V184					(US)
EN ROUTE	V39					(US)
IAP	RNAV (GPS) RWY 8			LNS	LANCASTER	PA (US)
STAR	HYPER (RNAV)			HEF	WASHINGTON	DC (US)
STAR	DELRO			IAD	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			IAD	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			CJR	CULPEPER	VA (US)
STAR	HYPER (RNAV)			EZF	FREDERICKSBURG	VA (US)
STAR	HYPER (RNAV)			FRR	FRONT ROYAL	VA (US)
STAR	HYPER (RNAV)			JYO	LEESBURG	VA (US)
STAR	HYPER (RNAV)			NYG	QUANTICO	VA (US)
STAR	HYPER (RNAV)			RMN	STAFFORD	VA (US)
STAR	HYPER (RNAV)			HWY	WARRENTON	VA (US)
STAR	HYPER (RNAV)			OKV	WINCHESTER	VA (US)
STAR	HYPER (RNAV)			MRB	MARTINSBURG	WV (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 20

DATE OF REVISION: 05/16/2024

### REASON FOR REVISION:

AIRSPACE DOCKET: CHANGED 22-AEA-34 TO 23-AEA-10.  
FIX USE: ADDED T307. ADDED FACS 2 AND 4 TO V143 AND V39 - MEETS EN ROUTE INT CRITERIA. ADDED FACS 1 AND 2 TO V184 - MEETS EN ROUTE INT CRITERIA.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: BARRY SMITH

APPROVED BY:

DATE: 05/16/2024

OFFICE: AVJ-A423

NAME: MICHAEL GARRITY

SIGNATURE:

# RADIO FIX AND HOLDING DATA RECORD

NAME: FILGA

STATE: NY

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 412428.13N/0740112.37W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 34			SWF	NEWBURGH	NY (US)
STAR	HYPER (RNAV)			HEF	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			IAD	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			CJR	CULPEPER	VA (US)
STAR	HYPER (RNAV)			EZF	FREDERICKSBURG	VA (US)
STAR	HYPER (RNAV)			FRR	FRONT ROYAL	VA (US)
STAR	HYPER (RNAV)			JYO	LEESBURG	VA (US)
STAR	HYPER (RNAV)			NYG	QUANTICO	VA (US)
STAR	HYPER (RNAV)			RMN	STAFFORD	VA (US)
STAR	HYPER (RNAV)			HWY	WARRENTON	VA (US)
STAR	HYPER (RNAV)			OKV	WINCHESTER	VA (US)
STAR	HYPER (RNAV)			MRB	MARTINSBURG	WV (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 08/20/2015

## REASON FOR REVISION:

1. ADDED STAR TO REQUIRED CHARTING.
2. ADDED HYPER STAR TO FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 04/07/2015

OFFICE: AJV-352

NAME: PETER GUIMOND

APPROVED BY:

DATE: 08/04/2015

OFFICE: AJV-352

NAME: ADOLFO URRUTIA

SIGNATURE:

DISTRIBUTION:

NFDC  
FPO: EST  
ARTCC: ZBW  
ATC FACILITY: NY TRACON, SWF TOWER  
OTHER:



# RADIO FIX AND HOLDING DATA RECORD

NAME: HUSEL

STATE: MD

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 390951.60N/0772127.60W

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 FAC NM	MRA	MAA
1	FREDERICK	FDK	VOR/DME	L	184.86	176.86		14.88	4000	17500
2	BALTIMORE	BAL	VORTAC	L	280.51	269.51		32.50	4000	17500
3	BROOKE	BRV	VORTAC	L	008.74	359.74	49.64	49.64	4000	17500

## EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
BRV	VORTAC	R-009	50	4000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

FREDERICK (FAC 1) AND BALTIMORE (FAC 2) USED TO ESTABLISH FIX COORDINATES.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	HYPER (RNAV)			HEF	WASHINGTON	DC (US)
STAR	PRTZL (RNAV)			HEF	WASHINGTON	DC (US)
STAR	WAYNZ (RNAV)			HEF	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			IAD	WASHINGTON	DC (US)
STAR	PRTZL (RNAV)			IAD	WASHINGTON	DC (US)
STAR	WAYNZ (RNAV)			IAD	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			EZF	FREDERICKSBURG	VA (US)
STAR	PRTZL (RNAV)			EZF	FREDERICKSBURG	VA (US)
STAR	WAYNZ (RNAV)			EZF	FREDERICKSBURG	VA (US)
STAR	HYPER (RNAV)			NYG	QUANTICO	VA (US)
STAR	PRTZL (RNAV)			NYG	QUANTICO	VA (US)
STAR	WAYNZ (RNAV)			NYG	QUANTICO	VA (US)
STAR	HYPER (RNAV)			RMN	STAFFORD	VA (US)
STAR	PRTZL (RNAV)			RMN	STAFFORD	VA (US)
STAR	WAYNZ (RNAV)			RMN	STAFFORD	VA (US)

REQUIRED CHARTING: STAR, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 9

DATE OF REVISION: 07/09/2026

## REASON FOR REVISION:

FIX USE: ADDED PRTZL (RNAV), HYPER (RNAV), AND WAYNZ (RNAV) STAR FOR EZF, HEF, NYG, AND RMN AIRPORTS.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A430

NAME: JAY BAGGETT

APPROVED BY:

DATE: 06/04/2026

OFFICE: AJV-A430

NAME: CASIMIR TABAKA

SIGNATURE:

# RADIO FIX AND HOLDING DATA RECORD

NAME: JETTZ

STATE: PA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 403935.00N/0752244.00W

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	HYPER (RNAV)			HEF	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			IAD	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			CJR	CULPEPER	VA (US)
STAR	HYPER (RNAV)			EZF	FREDERICKSBURG	VA (US)
STAR	HYPER (RNAV)			FRR	FRONT ROYAL	VA (US)
STAR	HYPER (RNAV)			JYO	LEESBURG	VA (US)
STAR	HYPER (RNAV)			NYG	QUANTICO	VA (US)
STAR	HYPER (RNAV)			RMN	STAFFORD	VA (US)
STAR	HYPER (RNAV)			HWY	WARRENTON	VA (US)
STAR	HYPER (RNAV)			OKV	WINCHESTER	VA (US)
STAR	HYPER (RNAV)			MRB	MARTINSBURG	WV (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 03/21/2024

**REASON FOR REVISION:**

1. REMOVED CONTROLLER FROM REQUIRED CHARTING.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: TYLER MITCHELL

APPROVED BY:

DATE: 03/21/2024

OFFICE: AJV-A432

NAME: CASIMIR TABAKA

SIGNATURE:



# RADIO FIX AND HOLDING DATA RECORD

**NAME:** KEAVR

**STATE:** PA

**COUNTRY:** US

**ICAO REGION CODE:** K6

**LATITUDE/LONGITUDE:** 411128.24N/0741433.66W

**TYPE:** WP

**AIRSPACE DOCKET:**

**FIX TYPE OF ACTION:** ESTABLISH

**HOLDING:**

**HOLDING TYPE OF ACTION:**

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	HYPER (RNAV)			HEF	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			IAD	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			CJR	CULPEPER	VA (US)
STAR	HYPER (RNAV)			EZF	FREDERICKSBURG	VA (US)
STAR	HYPER (RNAV)			FRR	FRONT ROYAL	VA (US)
STAR	HYPER (RNAV)			JYO	LEESBURG	VA (US)
STAR	HYPER (RNAV)			NYG	QUANTICO	VA (US)
STAR	HYPER (RNAV)			RMN	STAFFORD	VA (US)
STAR	HYPER (RNAV)			HWY	WARRENTON	VA (US)
STAR	HYPER (RNAV)			OKV	WINCHESTER	VA (US)
STAR	HYPER (RNAV)			MRB	MARTINSBURG	WV (US)

**REQUIRED CHARTING:** STAR

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** ORIG

**DATE OF REVISION:** 08/20/2015

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**DEVELOPED BY:**

**DATE:** 04/07/2015

**OFFICE:** AJV-352

**NAME:** PETER GUIMOND

**APPROVED BY:**

**DATE:** 08/04/2015

**OFFICE:** AJV-352

**NAME:** ADOLFO URRUTIA

**SIGNATURE:**

**DISTRIBUTION:**

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

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** KUKSE

**STATE:** VA

**COUNTRY:** US

**ICAO REGION CODE:** K6

**LATITUDE/LONGITUDE:** 390850.86N/0773428.65W

**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	GIBBZ (RNAV)			IAD	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			IAD	WASHINGTON	DC (US)
STAR	PRTZL (RNAV)			IAD	WASHINGTON	DC (US)
STAR	WAYNZ (STAR)			IAD	WASHINGTON	DC (US)
STAR	GIBBZ (RNAV)			JYO	LEESBURG	VA (US)

**REQUIRED CHARTING:** STAR

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 2

**DATE OF REVISION:** 03/21/2024

**REASON FOR REVISION:**

ADDED STARS WAYNZ (RNAV) AND PRTZL (RNAV) AT KIAD TO FIX USE.  
REMOVED STARS MAPEL (RNAV) AND LEGGO (RNAV) AT KIAD FROM FIX USE.  
ADDED STAR GIBBZ (RNAV) TO KIAD AND KJYO TO FIX USE.

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A433

**NAME:** GUY COPELAND

**APPROVED BY:**

**DATE:** 03/21/2024

**OFFICE:** AJV-A430

**NAME:** JOHNNIE BAKER

**SIGNATURE:**

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** LIRCH **STATE:** PA **COUNTRY:** US **ICAO REGION CODE:** K6

**LATITUDE/LONGITUDE:** 394936.36N/0765520.03W **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	FEET	MRA	MAA
1	LANCASTER	LRP	VOR/DME	L	248.07	239.07	34.00	34.00		6000	17500
2	WESTMINSTER	EMI	VORTAC	H	015.46	007.46		20.06		6000	17500

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

**REMARKS:**

LANCASTER (FAC 1) AND WESTMINSTER (FAC 2) USED TO ESTABLISH FIX COORDINATES.

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	HYPER (RNAV)			HEF	WASHINGTON	DC (US)
STAR	DELRO	1, 2		IAD	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			IAD	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			CJR	CULPEPER	VA (US)
STAR	HYPER (RNAV)			EZF	FREDERICKSBURG	VA (US)
STAR	HYPER (RNAV)			FRR	FRONT ROYAL	VA (US)
STAR	HYPER (RNAV)			JYO	LEESBURG	VA (US)
STAR	HYPER (RNAV)			NYG	QUANTICO	VA (US)
STAR	HYPER (RNAV)			RMN	STAFFORD	VA (US)
STAR	HYPER (RNAV)			HWY	WARRENTON	VA (US)
STAR	HYPER (RNAV)			OKV	WINCHESTER	VA (US)
STAR	HYPER (RNAV)			MRB	MARTINSBURG	WV (US)

**REQUIRED CHARTING:** STAR

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 2 **DATE OF REVISION:** 09/15/2016

**REASON FOR REVISION:**

1. UPDATE FAC 1 FROM VORTAC TO VOR/DME.

<b>INITIATED BY:</b>	<b>DATE:</b>	<b>ORGANIZATION:</b>	<b>NAME:</b>
<b>DEVELOPED BY:</b>	<b>DATE:</b> 05/23/2016	<b>OFFICE:</b> AJV-5421	<b>NAME:</b> JACOB POWERS (DARREN HOOPER)
<b>APPROVED BY:</b>	<b>DATE:</b> 08/09/2016	<b>OFFICE:</b> AJV-5410	<b>NAME:</b> MARLON ROBINSON

**SIGNATURE:**

**DISTRIBUTION:** NFDC  
FPO: EST  
ARTCC: ZNY  
ATC FACILITY: POTOMAC APP CON  
OTHER:

# RADIO FIX AND HOLDING DATA RECORD

NAME: MODENA VORTAC

STATE: PA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 395504.98N/0754014.96W

TYPE:

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

**FIX MAKE-UP FACILITIES:**

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC	MRA	MAA
							NM	FEET		
1	MODENA	MXE	VORTAC	L						17500

**FIX RESTRICTIONS:**

MCA V184 10000 WESTBOUND

**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	TEMPLATES MAX
1	SW	MXE	VORTAC	234.00	054.00	R	1		2000	7000	4	8

**CONTROLLING OBSTRUCTIONS:**

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	395327.00N/0754803.00W	768	4B

**HOLDING RESTRICTIONS:**

HOLDING LIMITED TO ESTABLISHED PATTERN(S)

**REMARKS:**

ASSIGNED FACILITY MAGVAR: 9W (1965).  
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
 ATC REQUEST SECTIONAL CHARTING.

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	PHILADELPHIA			PHL	PHILADELPHIA	PA (US)
EN ROUTE	Q75					(US)
EN ROUTE	T356					(US)
EN ROUTE	T456					(US)
EN ROUTE	V170					(US)
EN ROUTE	V184					(US)
EN ROUTE	V29					(US)
EN ROUTE	V3					(US)
EN ROUTE	V378					(US)
EN ROUTE	V408					(US)
EN ROUTE	V419					(US)
IAP	RNAV (GPS) RWY 19			ILG	WILMINGTON	DE (US)
IAP	RNAV (GPS) RWY 9			ILG	WILMINGTON	DE (US)
IAP	VOR/DME RWY 26			LNS	LANCASTER	PA (US)
IAP	RNAV (GPS) RWY 6			LOM	PHILADELPHIA	PA (US)
IAP	FREEDOM VISUAL RWY 9L			PHL	PHILADELPHIA	PA (US)
IAP	ILS OR LOC RWY 27L (ALT MISS)		1	PHL	PHILADELPHIA	PA (US)
IAP	ILS OR LOC RWY 9L			PHL	PHILADELPHIA	PA (US)
IAP	ILS RWY 27L (SA CAT II) (ALT MISS)		1	PHL	PHILADELPHIA	PA (US)
IAP	ILS RWY 9L (SA CAT II)			PHL	PHILADELPHIA	PA (US)
IAP	ILS V RWY 17 (CONVERGING)			PHL	PHILADELPHIA	PA (US)
IAP	ILS V RWY 9R (CONVERGING)			PHL	PHILADELPHIA	PA (US)
IAP	ILS Z OR LOC RWY 17			PHL	PHILADELPHIA	PA (US)
IAP	ILS Z OR LOC Z RWY 9R			PHL	PHILADELPHIA	PA (US)
IAP	ILS Z RWY 9R (CAT II & III)			PHL	PHILADELPHIA	PA (US)
IAP	ILS Z RWY 9R (SA CAT I)			PHL	PHILADELPHIA	PA (US)
IAP	LIBERTY VISUAL RWY 27L			PHL	PHILADELPHIA	PA (US)
IAP	RNAV (GPS) Y RWY 9L			PHL	PHILADELPHIA	PA (US)
IAP	RNAV (GPS) Y RWY 9R			PHL	PHILADELPHIA	PA (US)
IAP	ILS OR LOC RWY 13			RDG	READING	PA (US)
IAP	ILS OR LOC RWY 36			RDG	READING	PA (US)
IAP	RNAV (GPS) RWY 36			RDG	READING	PA (US)
IAP	RNAV (GPS) RWY 27			OQN	WEST CHESTER	PA (US)
STAR	CLIPR (RNAV)			DCA	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			HEF	WASHINGTON	DC (US)
STAR	DELRO			IAD	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			IAD	WASHINGTON	DC (US)
STAR	HARRISBURG			WRI	WRIGHTSTOWN	NJ (US)
STAR	HYPER (RNAV)			CJR	CULPEPER	VA (US)
STAR	HYPER (RNAV)			EZF	FREDERICKSBURG	VA (US)
STAR	HYPER (RNAV)			FRR	FRONT ROYAL	VA (US)
STAR	HYPER (RNAV)			JYO	LEESBURG	VA (US)
STAR	HYPER (RNAV)			NYG	QUANTICO	VA (US)
STAR	HYPER (RNAV)			RMN	STAFFORD	VA (US)
STAR	HYPER (RNAV)			HWY	WARRENTON	VA (US)
STAR	HYPER (RNAV)			OKV	WINCHESTER	VA (US)



# RADIO FIX AND HOLDING DATA RECORD

**NAME:** MOWAT

**STATE:** MD

**COUNTRY:** US

**ICAO REGION CODE:** K6

**LATITUDE/LONGITUDE:** 391557.60N/0772136.60W

**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	HYPER (RNAV)			IAD	WASHINGTON	DC (US)
STAR	PRTZL (RNAV)			IAD	WASHINGTON	DC (US)
STAR	WAYNZ (RNAV)			IAD	WASHINGTON	DC (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 5

**DATE OF REVISION:** 03/21/2024

**REASON FOR REVISION:**

ADDED STARS WAYNZ (RNAV) AND PRTZL (RNAV) AT KIAD TO FIX USE.  
REMOVED STARS MAPEL (RNAV) AND LEGGO (RNAV) AT KIAD FROM FIX USE.  
CHANGED REQUIRED CHARTING FROM CONTROLLER TO CONTROLLER LOW.  
REMOVED STAR HYPER (RNAV) AT KHEF, KCJR, KEZF, KFRR, KJYO, KNYG, KRMN, KHWY, KOKV, KMRB FROM FIX USE.

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A433

**NAME:** GUY COPELAND

**APPROVED BY:**

**DATE:** 03/21/2024

**OFFICE:** AJV-A430

**NAME:** JOHNNIE BAKER

**SIGNATURE:**

# RADIO FIX AND HOLDING DATA RECORD

NAME: PARKE STATE: NJ COUNTRY: US ICAO REGION CODE: K6  
LATITUDE/LONGITUDE: 404059.46N/0750435.32W 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	FEET	MRA	MAA
1	BROADWAY	BWZ	VOR/DME	L	250.33	239.33	13.51	13.51		3000	39000
2	YARDLEY	ARD	VOR/DME	L	353.35	343.35		26.91		3000	28000
3	SOLBERG	SBJ	VOR/DME	VL	301.55	291.55		16.43		3000	39000

### EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
BWZ	VOR/DME	R-250	14	18000	39000
ARD	VOR/DME	R-353	27	18000	28000
SBJ	VOR/DME	R-302	17	18000	39000

HOLDING: HOLDING TYPE OF ACTION: NO CHANGE

### REMARKS:

BROADWAY (FAC 1) AND YARDLEY (FAC 2) USED TO ESTABLISH FIX COORDINATES.

### FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BRIDGEHAVEN			BDR	BRIDGEPORT	CT (US)
DP	BRIDGEHAVEN			HVN	NEW HAVEN	CT (US)
DP	MORRISTOWN	1, 3		MMU	MORRISTOWN	NJ (US)
DP	DEVIL	1		EWR	NEWARK	NJ (US)
DP	LIBERTY	1, 3		EWR	NEWARK	NJ (US)
DP	NEWARK	1, 3		EWR	NEWARK	NJ (US)
DP	PORTT (RNAV)			EWR	NEWARK	NJ (US)
DP	TETERBORO	1		TEB	TETERBORO	NJ (US)
DP	GLDMN (RNAV)			LGA	NEW YORK	NY (US)
DP	JUTES (RNAV)			LGA	NEW YORK	NY (US)
DP	LAGUARDIA	1		LGA	NEW YORK	NY (US)
DP	TNNIS (RNAV)			LGA	NEW YORK	NY (US)
DP	PROP	1		HPN	WHITE PLAINS	NY (US)
DP	WESTCHESTER	1		HPN	WHITE PLAINS	NY (US)
EN ROUTE	J6	1, 2, 3				NJ (US)
EN ROUTE	V457	1, 2, 3				NJ (US)
STAR	HYPER (RNAV)			HEF	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			IAD	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			CJR	CULPEPER	VA (US)
STAR	HYPER (RNAV)			EZF	FREDERICKSBURG	VA (US)
STAR	HYPER (RNAV)			FRR	FRONT ROYAL	VA (US)
STAR	HYPER (RNAV)			JYO	LEESBURG	VA (US)
STAR	HYPER (RNAV)			NYG	QUANTICO	VA (US)
STAR	HYPER (RNAV)			RMN	STAFFORD	VA (US)
STAR	HYPER (RNAV)			HWY	WARRENTON	VA (US)
STAR	HYPER (RNAV)			OKV	WINCHESTER	VA (US)
STAR	HYPER (RNAV)			MRB	MARTINSBURG	WV (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 11 DATE OF REVISION: 06/12/2025

### REASON FOR REVISION:

1. FIX USE: REMOVED "DP RUUDY (RNAV)" AT KTEB.

INITIATED BY: DATE: ORGANIZATION: NAME:  
OFFICE OF PRIMARY RESPONSIBILITY: AJV-A423 NAME: HENRY BRADSHAW  
APPROVED BY: DATE: 05/08/2025 OFFICE: AJV-A423 NAME: ALLAN WILL

SIGNATURE:



IAP	ILS RWY 4R (CAT II - III)		EWR	NEWARK	NJ (US)
IAP	RNAV (GPS) RWY 24		3N6	OLD BRIDGE	NJ (US)
IAP	RNAV (GPS) RWY 6	2	3N6	OLD BRIDGE	NJ (US)
IAP	VOR RWY 24		3N6	OLD BRIDGE	NJ (US)
IAP	RNAV (GPS) RWY 29		N87	ROBBINSVILLE	NJ (US)
IAP	VOR RWY 29	1	N87	ROBBINSVILLE	NJ (US)
IAP	VOR-A		TTN	TRENTON	NJ (US)
IAP	VOR/DME OR TACAN RWY 18		WRI	WRIGHTSTOWN	NJ (US)
IAP	VOR/DME OR TACAN RWY 36		WRI	WRIGHTSTOWN	NJ (US)
IAP	VOR/DME OR TACAN RWY 6		WRI	WRIGHTSTOWN	NJ (US)
IAP	ILS OR LOC RWY 22L		JFK	NEW YORK	NY (US)
IAP	ILS OR LOC RWY 22R		JFK	NEW YORK	NY (US)
IAP	ILS OR LOC RWY 31L		JFK	NEW YORK	NY (US)
IAP	ILS OR LOC RWY 31R		JFK	NEW YORK	NY (US)
IAP	ILS RWY 22L (CAT II - III)		JFK	NEW YORK	NY (US)
IAP	VOR RWY 22L		JFK	NEW YORK	NY (US)
IAP	VOR RWY 31L		JFK	NEW YORK	NY (US)
IAP	COPTER ILS OR LOC RWY 22		LGA	NEW YORK	NY (US)
IAP	ILS V RWY 17	3	PHL	PHILADELPHIA	PA (US)
IAP	ILS OR LOC RWY 24		PNE	PHILADELPHIA	PA (US)
IAP	RNAV (GPS) RWY 24		PNE	PHILADELPHIA	PA (US)
STAR	HYPER (RNAV)		HEF	WASHINGTON	DC (US)
STAR	HYPER (RNAV)		IAD	WASHINGTON	DC (US)
STAR	HARRISBURG		WRI	WRIGHTSTOWN	NJ (US)
STAR	CAMRN		FRG	FARMINGDALE	NY (US)
STAR	CAMRN		JFK	NEW YORK	NY (US)
STAR	MILTON		LGA	NEW YORK	NY (US)
STAR	HYPER (RNAV)		CJR	CULPEPER	VA (US)
STAR	HYPER (RNAV)		EZF	FREDERICKSBURG	VA (US)
STAR	HYPER (RNAV)		FRR	FRONT ROYAL	VA (US)
STAR	HYPER (RNAV)		JYO	LEESBURG	VA (US)
STAR	HYPER (RNAV)		NYG	QUANTICO	VA (US)
STAR	HYPER (RNAV)		RMN	STAFFORD	VA (US)
STAR	HYPER (RNAV)		HWY	WARRENTON	VA (US)
STAR	HYPER (RNAV)		OKV	WINCHESTER	VA (US)
STAR	HYPER (RNAV)		MRB	MARTINSBURG	WV (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 37                      **DATE OF REVISION:** 03/19/2026

**REASON FOR REVISION:**  
FIX USE - REMOVED DP KJFK SKORR (RNAV).

**INITIATED BY:**                      **DATE:**                      **ORGANIZATION:**                      **NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:**                      AJV-A433                      **NAME:** JOHN BRUNO

**APPROVED BY:**                      **DATE:** 02/12/2026                      **OFFICE:** AJV-A433                      **NAME:** ROBERT HAMILTON

**SIGNATURE:**

# RADIO FIX AND HOLDING DATA RECORD

NAME: SARAA

STATE: PA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 402621.57N/0755316.30W

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 FEET	MRA	MAA
1	RAVINE	RAV	VORTAC	L	112.63	101.63	33.28	33.28	18000	45000
2	LANCASTER	LRP	VOR/DME	L	052.92	043.92		26.64	18000	45000

## EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
RAV	VORTAC	R-113	34	18000	45000
LRP	VOR/DME	R-053	27	18000	45000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## REMARKS:

RAVINE (FAC 1) AND LANCASTER (FAC 2) USED TO ESTABLISH FIX COORDINATES.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	J64	1, 2				(US)
EN ROUTE	Q62					(US)
STAR	HYPER (RNAV)			HEF	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			IAD	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			CJR	CULPEPER	VA (US)
STAR	HYPER (RNAV)			EZF	FREDERICKSBURG	VA (US)
STAR	HYPER (RNAV)			FRR	FRONT ROYAL	VA (US)
STAR	HYPER (RNAV)			JYO	LEESBURG	VA (US)
STAR	HYPER (RNAV)			NYG	QUANTICO	VA (US)
STAR	HYPER (RNAV)			RMN	STAFFORD	VA (US)
STAR	HYPER (RNAV)			HWY	WARRENTON	VA (US)
STAR	HYPER (RNAV)			OKV	WINCHESTER	VA (US)
STAR	HYPER (RNAV)			MRB	MARTINSBURG	WV (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 03/21/2024

## REASON FOR REVISION:

1. CHANGED REQUIRED CHARTING FROM CONTROLLER TO CONTROLLER LOW/HIGH.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: TYLER MITCHELL

APPROVED BY:

DATE: 03/21/2024

OFFICE: AJV-A432

NAME: CASIMIR TABAKA

SIGNATURE:

# RADIO FIX AND HOLDING DATA RECORD

NAME: SIGBE

STATE: MD

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 392437.20N/0772149.20W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	HYPER (RNAV)			HEF	WASHINGTON	DC (US)
STAR	PRTZL (RNAV)			HEF	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			IAD	WASHINGTON	DC (US)
STAR	PRTZL (RNAV)			IAD	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			EZF	FREDERICKSBURG	VA (US)
STAR	PRTZL (RNAV)			EZF	FREDERICKSBURG	VA (US)
STAR	HYPER (RNAV)			NYG	QUANTICO	VA (US)
STAR	PRTZL (RNAV)			NYG	QUANTICO	VA (US)
STAR	HYPER (RNAV)			RMN	STAFFORD	VA (US)
STAR	PRTZL (RNAV)			RMN	STAFFORD	VA (US)

REQUIRED CHARTING: STAR, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 07/09/2026

**REASON FOR REVISION:**

FIX USE: ADDED PRTZL (RNAV) AND HYPER (RNAV) STAR TO EZF, HEF, NYG, AND RMN AIRPORTS.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A430

NAME: JAY BAGGETT

APPROVED BY:

DATE: 06/04/2026

OFFICE: AJV-A430

NAME: CASIMIR TABAKA

SIGNATURE:

# RADIO FIX AND HOLDING DATA RECORD

NAME: TICON

STATE: VA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 384045.60N/0772142.60W

TYPE: WP, RADAR

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	UDVAR VISUAL RWY 30			IAD	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			HEF	WASHINGTON	DC (US)
STAR	PRTZL (RNAV)			HEF	WASHINGTON	DC (US)
STAR	WAYNZ (RNAV)			HEF	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			EZF	FREDERICKSBURG	VA (US)
STAR	PRTZL (RNAV)			EZF	FREDERICKSBURG	VA (US)
STAR	WAYNZ (RNAV)			EZF	FREDERICKSBURG	VA (US)
STAR	HYPER (RNAV)			NYG	QUANTICO	VA (US)
STAR	PRTZL (RNAV)			NYG	QUANTICO	VA (US)
STAR	WAYNZ (RNAV)			NYG	QUANTICO	VA (US)
STAR	HYPER (RNAV)			RMN	STAFFORD	VA (US)
STAR	PRTZL (RNAV)			RMN	STAFFORD	VA (US)
STAR	WAYNZ (RNAV)			RMN	STAFFORD	VA (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7

DATE OF REVISION: 07/09/2026

**REASON FOR REVISION:**

FIX USE: ADDED PRZTL (RNAV) STAR, HYPER (RNAV), AND WAYNZ (RNAV) STAR TO EZF, HEF, NYG, AND RMN AIRPORTS. DELETED PRZTL (RNAV), HYPER (RNAV), AND WAYNZ (RNAV) STAR TO IAD AIRPORT.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A430

NAME: JAY BAGGETT

APPROVED BY:

DATE: 06/04/2026

OFFICE: AJV-A430

NAME: CASIMIR TABAKA

SIGNATURE:

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** YACKK

**STATE:** VA

**COUNTRY:** US

**ICAO REGION CODE:** K6

**LATITUDE/LONGITUDE:** 385428.80N/0772125.20W

**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
IAP	UDVAR VISUAL RWY 30			IAD	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			IAD	WASHINGTON	DC (US)
STAR	PRTZL (RNAV)			IAD	WASHINGTON	DC (US)
STAR	WAYNZ (RNAV)			IAD	WASHINGTON	DC (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 7

**DATE OF REVISION:** 03/21/2024

**REASON FOR REVISION:**

ADDED STARS WAYNZ (RNAV) AND PRTZL (RNAV) AT KIAD TO FIX USE.  
REMOVED STARS MAPEL (RNAV) AND LEGGO (RNAV) AT KIAD FROM FIX USE.  
CHANGED REQUIRED CHARTING FROM CONTROLLER TO CONTROLLER LOW.  
REMOVED STAR HYPER (RNAV) AT KHEF, KCJR, KEZF, KFRR, KJYO, KNYG, KRMN, KHWY, KOKV, KMRB FROM FIX USE.

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A433

**NAME:** GUY COPELAND

**APPROVED BY:**

**DATE:** 03/21/2024

**OFFICE:** AJV-A430

**NAME:** JOHNNIE BAKER

**SIGNATURE:**

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** YORKE

**STATE:** CT

**COUNTRY:** US

**ICAO REGION CODE:** K6

**LATITUDE/LONGITUDE:** 414821.75N/0731914.12W

**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	HYPER (RNAV)			HEF	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			IAD	WASHINGTON	DC (US)
STAR	HYPER (RNAV)			CJR	CULPEPER	VA (US)
STAR	HYPER (RNAV)			EZF	FREDERICKSBURG	VA (US)
STAR	HYPER (RNAV)			FRR	FRONT ROYAL	VA (US)
STAR	HYPER (RNAV)			JYO	LEESBURG	VA (US)
STAR	HYPER (RNAV)			NYG	QUANTICO	VA (US)
STAR	HYPER (RNAV)			RMN	STAFFORD	VA (US)
STAR	HYPER (RNAV)			HWY	WARRENTON	VA (US)
STAR	HYPER (RNAV)			OKV	WINCHESTER	VA (US)
STAR	HYPER (RNAV)			MRB	MARTINSBURG	WV (US)

**REQUIRED CHARTING:** STAR

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 1

**DATE OF REVISION:** 03/21/2024

**REASON FOR REVISION:**

1. REMOVED CONTROLLER FROM REQUIRED CHARTING.

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A432

**NAME:** TYLER MITCHELL

**APPROVED BY:**

**DATE:** 03/21/2024

**OFFICE:** AJV-A432

**NAME:** CASIMIR TABAKA

**SIGNATURE:**