

RADIO FIX AND HOLDING DATA RECORD

NAME: EAVER

STATE: TN

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 363044.40N/0822156.21W

TYPE: INT

AIRSPACE DOCKET:

FIX TYPE OF ACTION: CANCEL

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM FEET	MRA	MAA
1	BRISTOL/JOHNSON/KINGSPORT	I-TRI	LOC		049.57	042.57		4.10	2400	5900
2	HOLSTON MOUNTAIN	HMV	VORTAC	L	295.62	291.62		12.28	2400	17500

HOLDING:

HOLDING TYPE OF ACTION:

REMARKS:

BRISTOL/JOHNSON/KINGSPORT (FAC1) AND HOLSTON MOUNTAIN (FAC2) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 23	1, 2		TRI	BRISTOL/JOHNSON/KINGSPORT	TN (US)
IAP	ILS RWY 23 (CAT II)	1, 2		TRI	BRISTOL/JOHNSON/KINGSPORT	TN (US)
IAP	ILS RWY 23 (SA CAT I)	1, 2		TRI	BRISTOL/JOHNSON/KINGSPORT	TN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 12/07/2017

REASON FOR REVISION:

UPDATED FAC 1 AND FAC 2 FROM HISTORY TO ACTIVE STATUS.

DELETED DME FROM FAC 2.

CHANGED FAC 1 MAA FROM 5000 TO 5900.

CHANGED FAC 2 MAA FROM 5000 TO 17500.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 06/30/2017

OFFICE: AJV-5432

NAME: JACOB POWERS (IVAN BLANCO)

APPROVED BY:

DATE: 07/30/2026

OFFICE: AJV-A433

NAME: ROBERT HAMILTON

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: EST
ARTCC: ZTL
ATC FACILITY: TRI-CITIES RGNL APP CON
OTHER:

Digitally signed by
ROBERT G HAMILTON
Aug 06, 2026

QUALITY
37
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: GLADE SPRING VOR/DME

STATE: VA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 364930.36N/0820444.31W

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	FEET	MRA	MAA
1	GLADE SPRING	GZG	VOR/DME	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	E	GZG	VOR/DME	078.12	258.12	L	1	6600 14000	8 10
2	S	GZG	VOR/DME	188.02	008.02	R	1	6000 14000	7 10
3	W	GZG	VOR/DME	248.00	068.00	R	1	6000 14000	7 10

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	AAO	365523.00N/0815345.00W	4866	4E
2	230	AAO	365015.00N/0820233.00W	4416	4E
3	230	AAO	365015.00N/0820233.00W	4416	4E

REASON FOR NONSTANDARD HOLDING:

PAT 1 AIR TRAFFIC REQUEST

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

PAT 1 THRU 3 FOR ATC COORDINATION.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ASSIGNED FACILITY MAG VAR: W02/1970.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	KINGS			TRI	BRISTOL/JOHNSON/KINGSPORT	TN (US)
DP	TRICITIES			TRI	BRISTOL/JOHNSON/KINGSPORT	TN (US)
DP	KNOXVILLE			TYS	KNOXVILLE	TN (US)
EN ROUTE	V35					(US)
EN ROUTE	V466					(US)
EN ROUTE	V519					(US)
IAP	ILS OR LOC RWY 23 SA CAT I/CAT II			TRI	BRISTOL/JOHNSON/KINGSPORT	TN (US)
IAP	LOC RWY 24			VJI	ABINGDON	VA (US)
IAP	LOC/DME RWY 25			JFZ	RICHLANDS	VA (US)
IAP	LOC RWY 24			LNP	WISE	VA (US)
IAP	RNAV (GPS) RWY 24			LNP	WISE	VA (US)
STAR	BTSEY (RNAV)			CLT	CHARLOTTE	NC (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 13

DATE OF REVISION: 10/29/2026

REASON FOR REVISION:

1. FIX USE: COMBINED IAPS FROM "ILS OR LOC RWY 23, ILS RWY 23 (CAT II) AND ILS RWY 23 (SA CAT I)" TO "ILS OR LOC RWY 23 SA CAT I/CAT II AT TRI, BRISTOL/JOHNSON/KINGSPORT TN (US)."
2. FIX USE: UPDATED STAR FROM "BTSEY" TO "BTSEY (RNAV) AT CLT, CHARLOTTE NC (US)."

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A433

NAME: KAMARUDINI RAIMI

APPROVED BY:

DATE: 09/24/2026

OFFICE: AJV-A433

NAME: ROBERT HAMILTON

SIGNATURE:

Digitally signed by

ROBERT G HAMILTON

Aug 06, 2026



RADIO FIX AND HOLDING DATA RECORD

NAME: KEIPY

STATE: VA

COUNTRY: US

ICAO REGION CODE: K6

LATITUDE/LONGITUDE: 364036.92N/0821038.85W

TYPE: 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	FAC FEET	MRA	MAA
1	BRISTOL/JOHNSON/KINGSPORT	I-TRI	LOC		049.58	042.58		17.51		6000	10000
2	GLADE SPRING	GZG	VOR/DME	L	210.17	208.17	10.07	10.07	61181		17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-TRI	LOC	R-050	18	6000	10000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

BRISTOL/JOHNSON/KINGSPORT (FAC 1) AND GLADE SPRING VOR/DME (GZG) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 23 SA CAT I/CAT II	1, 2		TRI	BRISTOL/JOHNSON/KINGSPORT	TN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6

DATE OF REVISION: 10/29/2026

REASON FOR REVISION:

1. FIX TYPE: ADDED "DME AND RADAR."
2. FIX MAKE-UP FACILITIES: REMOVED FAC 2 AND ITS ASSOCIATIONS; CHANGED FAC 1 MAG/TRUE BRG FROM "049.57/042.57" TO "049.58/042.58."
3. FIX MAKE-UP FACILITIES: ADDED "GLADE SPRING VOR/DME" AND REMOVED "MOCCA AND ITS ASSOCIATIONS."
4. REMARKS: REMOVED "HOLSTON MOUNTAIN (FAC 2)" AND ADDED "GLADE SPRING VOR/DME (GZG)."
5. FIX USE: ADDED FAC 3 TO IAPS AND COMBINED IAPS FROM "ILS OR LOC RWY 23, ILS RWY 23 (CAT II) AND ILS RWY 23 (SA CAT I)" TO "ILS OR LOC RWY 23 SA CAT I/CAT II AT TRI, BRISTOL/JOHNSON/KINGSPORT TN (US)."

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A433

NAME: KAMARUDINI RAIMI

APPROVED BY:

DATE: 09/24/2026

OFFICE: AJV-A433

NAME: ROBERT HAMILTON

SIGNATURE:

Digitally signed by

ROBERT G HAMILTON

Aug 06, 2026

QUALITY
37
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: MOCCA LOM

STATE: TN

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 363317.73N/0821901.50W

TYPE: RADAR

AIRSPACE DOCKET: N

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	MOCCA	TR	LOM							3500	17500
2	BRISTOL/JOHNSON/KINGSPORT	I-TRI	LOC		049.58	042.58		7.56	45955	3500	6000

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	NE	TR	LOM	049.58	229.58	L	1		4900	17500	5	16

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	363909.00N/0821542.00W	2805	4B
1	310	TOWER (47-002282)	362658.20N/0820628.70W	4632	2C

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	310	170

REASON FOR NONSTANDARD HOLDING:

PAT 1 HIGH TERRAIN

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	ILS OR LOC RWY 5	TRI	BRISTOL/JOHNSON/KINGSPORT	TN (US)

REMARKS:

COORDINATES REFLECT LOCATION ON LOC/AZ CENTERLINE ABEAM THE MOCCA LOM.

ACTUAL FACILITY LOCATION IS 363319.79N/0821904.27W.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

PAT 1 310 KIAS CONTROLLING OBSTRUCTION LIES 9973.42 FT INTO THE SECONDARY AREA: SECONDARY ADJUSTMENT -910.35.

FAC MAG VAR: W7/2020.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 23 SA CAT I/CAT II	1, 2		TRI	BRISTOL/JOHNSON/KINGSPORT	TN (US)
IAP	ILS OR LOC RWY 5	1, 2	1	TRI	BRISTOL/JOHNSON/KINGSPORT	TN (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 17

DATE OF REVISION: 10/29/2026

REASON FOR REVISION:

1. FIX LATITUDE/LONGITUDE: CHANGED FROM "363317.50N/0821901.58W" TO "363317.73N/0821901.50W."

2. FIX TYPE: CHANGED FROM "INT" TO "RADAR."

3. FIX MAKE-UP FACILITIES: REMOVED FAC 3 AND ASSOCIATIONS

4. FIX MAKE-UP FACILITIES: CHANGED MAG/TRUE BRG FROM "049.57/042.57" TO "049.58/042.58" AND ADDED DIST FROM FAC FEET "45955" TO FAC 2.

5. HOLDING PATTERNS: CHANGED PAT 1 RAD/CRS INBOUND, LEG TIME AND MIN HOLDING ALTITUDE FROM "050.00/230.00, 1-1 1/2 & 4800" TO "049.58/229.58, 1 & 4900."

6. CONTROLLING OBSTRUCTIONS: UPDATED PAT 1 200 KTS AAO COORDINATES/ELEVATION/ACCURACY CODE FROM

"363913.20N/0821529.00W/2809/6C" TO "363909.00N/0821542.00W/2805/4B."

7. PRECIPITOUS TERRAIN ADDITIONS: ADDED PAT 1, SPEED/ADDITION "310/170."

8. REMARKS: UPDATED ACTUAL FACILITY LOCATION FROM "363319.80N/0821904.28W" TO "363319.79N/0821904.27W" AND ADDED "PAT 1

310 KIAS CONTROLLING OBSTRUCTION LIES 9973.42 FT INTO THE SECONDARY AREA: SECONDARY ADJUSTMENT -910.35."

9. FIX USE: COMBINED IAPS FROM "ILS OR LOC RWY 23, ILS RWY 23 (CAT II) AND ILS RWY 23 (SA CAT I)" TO "ILS OR LOC RWY 23 SA CAT I/CAT II."

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A433

NAME: KAMARUDINI RAIMI



APPROVED BY:

DATE: 09/24/2026

OFFICE: AJV-A433

NAME: ROBERT HAMILTON

SIGNATURE:

Digitally signed by
ROBERT G HAMILTON
Aug 06, 2026

QUALITY
37
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: VERAL

STATE: TN

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 362924.38N/0821249.84W

TYPE: INT

AIRSPACE DOCKET:

FIX TYPE OF ACTION: CANCEL

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM FEET	MRA	MAA
1	HOLSTON MOUNTAIN	HMV	VORTAC	L	311.97	307.97	5.17	5.17	6000	17500
2	GLADE SPRING	GZG	VOR/DME	L	200.01	198.01		21.10	6000	17500

HOLDING:

HOLDING TYPE OF ACTION:

REMARKS:

HOLSTON MOUNTAIN (FAC 1) AND GLADE SPRING (FAC 2) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 23	1, 2		TRI	BRISTOL/JOHNSON/KINGSPORT	TN (US)
IAP	ILS RWY 23 (CAT II)	1, 2		TRI	BRISTOL/JOHNSON/KINGSPORT	TN (US)
IAP	ILS RWY 23 (SA CAT I)	1, 2		TRI	BRISTOL/JOHNSON/KINGSPORT	TN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 12/07/2017

REASON FOR REVISION:

FAC 1 AND FAC2 CHANGED FROM HISTORY STATUS TO ACTIVE STATUS.
UPDATED FPO FROM ATL TO EST.
ADDED DME AND DISTANCE FROM FAC FOR FAC 1.
ADDED DISTANCE FROM FAC FOR FAC 2.
CHANGED FAC 1 AND 2 MAA FROM 10000 RO 17500.
UPDATED FIX USE.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 06/30/2017

OFFICE: AJV-5432

NAME: JACOB POWERS (IVAN BLANCO)

APPROVED BY:

DATE: 07/30/2026

OFFICE: AJV-A433

NAME: ROBERT HAMILTON

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: EST
ARTCC: ZTL
ATC FACILITY: TRI-CITIES RGNL APP CON
OTHER:

Digitally signed by
ROBERT G HAMILTON
Aug 06, 2026

QUALITY
37
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