

RADIO FIX AND HOLDING DATA RECORD

NAME: HOLSTON MOUNTAIN VORTAC STATE: TN COUNTRY: US ICAO REGION CODE: K7
LATITUDE/LONGITUDE: 362613.40N/0820746.56W 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	FEET	MRA	MAA
1	HOLSTON MOUNTAIN	HMV	VORTAC	L							45000

FIX RESTRICTIONS:

MCA V310 6900 EASTBOUND
MCA V259 6600 SOUTHEAST BOUND
MCA V605 8500 SOUTHBOUND

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 MIN	ALTITUDES MAX	TEMPLATES MIN	MAX
1	NE	HMV	VORTAC	064.00	244.00	R	1		6700	17500	8	16
2	NE	HMV	VORTAC	064.00	244.00	L	1		6700	17500	8	16
3	SW	HMV	VORTAC	244.00	064.00	R	1		6700	17500	8	16

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	TOWER (47-002282)	362658.20N/0820628.70W	4632	2C
2	230	TOWER (47-002282)	362658.20N/0820628.70W	4632	2C
3	230	TOWER (47-002282)	362658.20N/0820628.70W	4632	2C

REASON FOR NONSTANDARD HOLDING:

PAT 2 ATC REQUEST

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
HOLD PATTERNS 1, 2 AND 3 USED FOR FLOW CONTROL BETWEEN ATC SECTORS (DO NOT CHART ON LOW ENROUTE/ATC REQUEST).
MAG VAR W04/1985

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	HICKORY (OBSTACLE)			KHKY	HICKORY	NC (US)
EN ROUTE	V136					(US)
EN ROUTE	V16					(US)
EN ROUTE	V259					(US)
EN ROUTE	V310					(US)
EN ROUTE	V35					(US)
EN ROUTE	V364					(US)
EN ROUTE	V53					(US)
EN ROUTE	V605					(US)
IAP	ILS OR LOC RWY 17			KAVL	ASHEVILLE	NC (US)
IAP	ILS OR LOC RWY 35			KAVL	ASHEVILLE	NC (US)
IAP	ILS OR LOC RWY 23			KTRI	BRISTOL/JOHNSON/KINGSPORT	TN (US)
IAP	ILS OR LOC RWY 5			KTRI	BRISTOL/JOHNSON/KINGSPORT	TN (US)
IAP	ILS RWY 23 (CAT II)			KTRI	BRISTOL/JOHNSON/KINGSPORT	TN (US)
IAP	ILS RWY 23 (SA CAT I)			KTRI	BRISTOL/JOHNSON/KINGSPORT	TN (US)
STAR	BTSEY			KCLT	CHARLOTTE	NC (US)
STAR	LIINN			KCLT	CHARLOTTE	NC (US)
STAR	LIINN			KAKH	GASTONIA	NC (US)
STAR	LIINN			KIPJ	LINCOLNTON	NC (US)
STAR	LIINN			KEQY	MONROE	NC (US)
STAR	LIINN			KEHO	SHELBY	NC (US)
STAR	LIINN			KAFP	WADESBORO	NC (US)
STAR	LIINN			N52	WAXHAW	NC (US)
STAR	LIINN			KDCM	CHESTER	SC (US)
STAR	LIINN			KLKR	LANCASTER	SC (US)
STAR	LIINN			KUZA	ROCK HILL	SC (US)

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

COMPULSORY REPORTING POINT: LOW

RECORD REVISION NUMBER: 24

DATE OF REVISION: 09/05/2024

REASON FOR REVISION:

1. FIX USE: DELETED 6A4 RNAV (GPS) RWY 6, 6A4 RNAV (GPS) RWY 24, AND KVJI RNAV (GPS) RWY 24.

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
OFFICE OF PRIMARY RESPONSIBILITY:		AJV-A433	NAME: JILL SUPPES
APPROVED BY:	DATE: 07/11/2024	OFFICE: AJV-A433	NAME: ROBERT HAMILTON
	SIGNATURE:		

RADIO FIX AND HOLDING DATA RECORD

NAME: SPARTANBURG VORTAC STATE: SC COUNTRY: US ICAO REGION CODE: K7
 LATITUDE/LONGITUDE: 345417.21N/0815811.28W 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 NM	FEET	MRA	MAA
1	SPARTANBURG	SPA	VORTAC	H							45000

FIX RESTRICTIONS:

MCA V605 5200 NORTHBOUND
 MCA V53 5200 NORTHWEST BOUND

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	S	SPA	VORTAC	194.00	014.00	R	1	2700 17500	4 20

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (45-001852)	345126.00N/0815446.00W	1198	5D
1	310	TOWER (45-000490)	345311.14N/0814915.33W	1677	5D

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN(S)

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	ILS OR LOC RWY 5	KSPA	SPARTANBURG	SC (US)
1	VOR RWY 5	KSPA	SPARTANBURG	SC (US)
1	VOR RWY 22	KSPA	SPARTANBURG	SC (US)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
 MAGVAR 7W/2030.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ASHEVILLE			KAVL	ASHEVILLE	NC (US)
DP	CHARLOTTE			KCLT	CHARLOTTE	NC (US)
DP	KINGS			KTRI	BRISTOL/JOHNSON/KINGSPORT	TN (US)
EN ROUTE	V266					(US)
EN ROUTE	V415					(US)
EN ROUTE	V53					(US)
EN ROUTE	V605					(US)
IAP	ILS OR LOC RWY 35			KAVL	ASHEVILLE	NC (US)
IAP	ILS OR LOC RWY 1			KGMU	GREENVILLE	SC (US)
IAP	ILS OR LOC RWY 5		1	KGYH	GREENVILLE	SC (US)
IAP	ILS OR LOC RWY 22		1	KGSP	GREER	SC (US)
IAP	ILS OR LOC RWY 4		1	KGSP	GREER	SC (US)
IAP	ILS RWY 4 (CAT II-III)		1	KGSP	GREER	SC (US)
IAP	ILS RWY 4 (SA CAT I)		1	KGSP	GREER	SC (US)
IAP	ILS OR LOC RWY 5		1	KSPA	SPARTANBURG	SC (US)
IAP	VOR RWY 22		1	KSPA	SPARTANBURG	SC (US)
IAP	VOR RWY 5		1	KSPA	SPARTANBURG	SC (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 36

DATE OF REVISION: 10/02/2025

REASON FOR REVISION:

- 1.FIX MAKEUP LAT/LONG CHANGED FROM 350201.05N/0815537.24W TO 345419.19N/0815811.30W, NAVAID RELOCATED 7.96 NM SOUTHWEST.
- 2.FIX USE REMOVED KEHO NDB RWY 23.
- 3.FIX USE REMOVED KEHO RNAV (GPS) RWY 5.
- 4.FIX USE REMOVED KFQD LOC RWY 1.
- 5.FIX USE REMOVED KFQD RNAV (GPS) RWY 1.
- 6.FIX USE REMOVED KGSO BROOK STAR.
- 7.FIX USE REMOVED KINT BROOK STAR.
- 8.FIX USE REMOVED ROUTE J83.
- 9.FIX USE REMOVED ROUTE J85.
- 10.FIX USE ADDED KSPA VOR RWY 5.
- 11.FIX USE ADDED KSPA VOR RWY 22.
- 1.11. REMARKS CHANGED MAGVAR FROM 2W/1965 TO 7W/2030.
- 12.REMARKS CHANGED FROM "PRECIPITOUS TERRAIN EVALUATION COMPLETE" TO "PRECIPITOUS TERRAIN EVALUATION COMPLETED".
- 13.CONTROLLING OBSTRUCTIONS CHANGED HP1 200 KNOT OBSTRUCTION FROM "TOWER (45-054085) 1336 4D" TO "TOWER (45-001852) 1198 5D".
- 14.PROCEDURES REQUIRING CLIMB-IN-HOLD ADDED KSPA VOR RWY 5.
- 15.PROCEDURES REQUIRING CLIMB-IN-HOLD ADDED KSPA VOR RWY 22.
- 16.REQUIRED CHARTING ADDED SECTIONAL.

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

OFFICE OF PRIMARY RESPONSIBILITY: AJV-A431 **NAME:** CHARLES HIRST

APPROVED BY: **DATE:** 08/28/2025 **OFFICE:** AJV-A431 **NAME:** ROBERT HAMILTON

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: TUXDO

STATE: SC

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 350823.51N/0822433.52W

TYPE: WP, INT, DME

AIRSPACE DOCKET: 24-ASO-32

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	SUGARLOAF MOUNTAIN	SUG	VORTAC	L	205.44	203.44	17.40	17.40	5000	17500
2	SPARTANBURG	SPA	VORTAC	H	310.10	303.10		25.82	5000	17500
3	ASHEVILLE	I-AVL	LOC/DME		166.83	159.83	19.76	19.74	5100	6600

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-AVL	LOC/DME	R-167	20	5100	6600

FIX RESTRICTIONS:

MRA V20 7000
MRA V35 7000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

SUGARLOAF MOUNTAIN (FAC 1) AND SPARTANBURG (FAC 2) AND ASHEVILLE (FAC 3) USED TO ESTABLISH FIX COORDINATES.
SECTIONAL CHARTING REQUESTED BY ATC

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	T224					(US)
EN ROUTE	V20	1, 2, 3				(US)
EN ROUTE	V35	1, 2, 3				(US)
IAP	ILS OR LOC RWY 35	1, 2, 3		KAVL	ASHEVILLE	NC (US)
IAP	RNAV (GPS) RWY 19			KGMU	GREENVILLE	SC (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 15

DATE OF REVISION: 10/02/2025

REASON FOR REVISION:

AIRSPACE DOCKET: ADDED DOCKET NUMBER 24-ASO-32 SPA RELOCATION PROJECT.
FIX MAKE-UP FAC 2: CHANGED MAG BRG FROM 287.14 TO 310.10, TRUE BRG FROM 185.14 TO 303.10, DIST FROM FAC FROM 24.59 TO 25.82.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A423

NAME: RICHARD CAMPBELL

APPROVED BY:

DATE: 08/28/2025

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: UMUXE

STATE: NC

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 352009.26N/0822949.64W

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 FEET	MRA	MAA
1	ASHEVILLE	I-AVL	LOC/DME		166.83	159.83	7.25	7.23 43920	4000	6600
2	SUGARLOAF MOUNTAIN	SUG	VORTAC	L	251.40	249.40		11.98	4000	6600

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
SUG	VORTAC	R-251	12	4000	5000

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

ASHEVILLE (FAC 1) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 35	1, 2		KAVL	ASHEVILLE	NC (US)
IAP	RNAV (GPS) RWY 35			KAVL	ASHEVILLE	NC (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4

DATE OF REVISION: 04/22/2021

REASON FOR REVISION:

MOVED FIX NE 2.68 FT AND UPDATED FIX COORDINATES.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A422

NAME: JOHN LINDSEY

APPROVED BY:

DATE: 04/01/2021

OFFICE: AJV-A420

NAME: MARLON ROBINSON

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: EST
ARTCC: ZTL
ATC FACILITY: AVL APP CON, AVL TOWER
OTHER: