

RADIO FIX AND HOLDING DATA RECORD

NAME: CLEVA

STATE: SC

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 350042.82N/0822835.44W

TYPE: 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	FAC FEET	MRA	MAA
1	SUGARLOAF MOUNTAIN	SUG	VORTAC	L	205.44	203.44	25.75	25.75		3400	17500
2	SPARTANBURG	SPA	VORTAC	H	291.47	284.47	25.79	25.79		7000	17500

FIX RESTRICTIONS:

MCA V35 6200 NORTHEAST BOUND
MCA V20 6200 NORTHEAST BOUND
MRA V35 7000
MRA V20 7000

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	W	SPA	VORTAC	269.41	089.41	R	1	7000 17500	9 17

CONTROLLING OBSTRUCTIONS:

PAT	AIR SPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	350200.00N/0824430.00W	3527	4E

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	200	170

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

SUGARLOAF MOUNTAIN (FAC 1) AND SPARTANBURG (FAC 2) USED TO ESTABLISH FIX COORDINATES.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
CLEVA IS DME ONLY FIX BELOW 7000.
HOLD PATTERN 1 REQUESTED BY ATC FOR FLOW CONTROL/DO NOT CHART. (NORTH/SOUTH APP CON JURISDICTIONS).
FIX MAKE-UP FACILITIES SPA VORTAC MRA SET 7000 DUE TO FACILITY RESTRICTION AND FIX ERROR.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V20	1, 2				(US)
EN ROUTE	V35	1, 2				(US)

REQUIRED CHARTING: EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 13

DATE OF REVISION: 10/02/2025

REASON FOR REVISION:

FIX MAKE-UP FAC 2: CHANGED MAG BRG-FROM-269.41 TO 291.47, TRUE MAG-FROM 267.41 TO 269.41 AND DIST FROM FAC-FROM 27.11 TO 25.79
FIX MAKE-UP FAC 2: ADDED DME 25.79.
AIRSPACE DOCKET: ADDED DOCKET NUMBER-24-ASO-32 SPA VORTAC RELOCATION PROJECT.

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: DOODD

STATE: SC

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 350131.95N/0822809.69W

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	FAC FEET	MRA	MAA
1	SUGARLOAF MOUNTAIN	SUG	VORTAC	L	205.44	203.44	24.86	24.86		5000	17500
2	SPARTANBURG	SPA	VORTAC	H	293.44	286.44	25.67	25.67		5000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

SUGARLOAF MOUNTAIN (FAC 1) AND SPARTANBURG (FAC 2) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	T224					(US)
EN ROUTE	V20	1, 2				(US)
EN ROUTE	V35	1, 2				(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: 2

DATE OF REVISION: 10/02/2025

REASON FOR REVISION:

AIRSPACE DOCKET: ADDED DOCKET NUMBER - 24-ASO-32 PART OF THE SPA RELOCATION PROJECT.

FIX MAKE-UP FAC 2: CHANGED MAG BRG-FROM 271.12 TO 293.44, TRUE MAG-FROM 269.12 TO 286.44, AND DIST FROM FAC-FROM 26.73 TO 25.67

FIX MAKE-UP FAC 2: ADDED DME TO 25.67.

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:

QUALITY
18
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: EHAXY

STATE: SC

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 345652.00N/0812439.04W

TYPE: DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: CANCEL

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM NM	FAC FEET	MRA	MAA
1	SPARTANBURG	SPA	VORTAC	H	103.28	101.28	25.96	25.96		2300	17500

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V 415	1				(US)

REQUIRED CHARTING: EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3

DATE OF REVISION: 09/05/2024

REASON FOR REVISION:

FIX TYPE: REMOVED WP.

FIX USE: REMOVED IAP RNAV (GPS) RWY 17 KDCM.

REQUIRED CHARTING: REMOVED IAP, CHANGED CONTROLLER TO CONTROLLER LOW.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A421

NAME: TIA FERONTI

APPROVED BY:

DATE: 08/28/2025

OFFICE: AJV-A423

NAME: ALLAN WILL

SIGNATURE:



RADIO FIX AND HOLDING DATA RECORD

NAME: LOCKS

STATE: SC

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 345539.79N/0811732.69W

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	FAC FEET	MRA	MAA
1	SPARTANBURG	SPA	VORTAC	H	094.50	087.50	33.45	33.45		2300	17500
2	CHARLOTTE	CLT	VOR/DME	L	231.95	226.95	23.00	23.00		2300	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

SPARTANBURG (FAC 1) AND CHARLOTTE (FAC 2) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V415	1, 2				(US)
IAP	RNAV (GPS) RWY 6			KLKR	LANCASTER	SC (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 22

DATE OF REVISION: 10/02/2025

REASON FOR REVISION:

AIRSPACE DOCKET: ADDED DOCKET NUMBER 24-ASO-32 SPA RELOCATION PROJECT.

FIX USE: DELETED RNAV (GPS) RWY 3 AT KAKH.

FIX MAKE-UP FAC 1: CHANGED MAG BRG FROM 103.28 TO 094.50, TRUE BRG FROM 101.28 TO 087.50, DME FROM 31.92 TO 33.45, DIST FROM FAC NM FROM 31.92 TO 33.45.

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: PEDAL

STATE: SC

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 345302.47N/0823236.15W

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	FAC FEET	MRA	MAA
1	SUGARLOAF MOUNTAIN	SUG	VORTAC	L	269.58	267.58	28.33	28.33		3400	17500
2	SPARTANBURG	SPA	VORTAC	H	274.58	267.58	28.33	28.33		4000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

SUGARLOAF MOUNTAIN (FAC 1) AND SPARTANBURG (FAC 2) USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	T224					(US)
EN ROUTE	V20		1, 2			(US)
EN ROUTE	V35		1, 2			(US)

REQUIRED CHARTING: SECTIONAL, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 13

DATE OF REVISION: 10/02/2025

REASON FOR REVISION:

AIRSPACE DOCKET: ADDED DOCKET NUMBER 24-ASO-32 PART OF THE SPA RELOCATION PROJECT.

FIX USE: REMOVED EN ROUTE V415.

FIX MAKE-UP FAC 1: CHANGED MAG BRG FROM 205.44 TO 269.58, TRUE BRG FROM 203.44 TO 267.58, DME FROM 34.09 TO 28.33 AND DIST FROM FAC NM 34.09 TO 28.33.

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:

QUALITY
18
CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: PELAM

STATE: SC

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 345743.12N/0821327.00W

TYPE: WP

AIRSPACE DOCKET: 24-ASO-32

FIX TYPE OF ACTION: MODIFY

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 MIN	ALTITUDES MAX	TEMPLATES MIN	MAX
1	E		WP	078.75	258.75	R	4	3400	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (45-000914)	350336.00N/0821123.00W	1495	2C

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:

CHART ON SECTIONAL - ATC REQUEST.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	T209					(US)
IAP	RNAV (GPS) RWY 1		1	KGMU	GREENVILLE	SC (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6

DATE OF REVISION: 10/02/2025

REASON FOR REVISION:

FIX TYPE: REMOVED INT AND DME.
AIRSPACE DOCKET: ADDED DOCKET NUMBER 24-ASO-32 SPA RELOCATION PROJECT.
FIX MAKE-UP FAC: REMOVED FAC 1 AND 2.

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:

QUALITY
18
CHECKED

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 V35 7000
MRA V20 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:

