

RADIO FIX AND HOLDING DATA RECORD

NAME: COLUMBIA VORTAC

STATE: SC

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 335126.10N/0810314.05W

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	COLUMBIA	CAE	VORTAC	H						45000

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	SE	CAE	VORTAC	155.00	335.00	L	1	2000 6000	4 5
2	SE	CAE	VORTAC	149.00	329.00	L	1	2000 6000	4 5
3	SW	CAE	VORTAC	205.00	025.00	L	1 1/2	18000 45000	20 31
4	SE	CAE	VORTAC	155.00	335.00	L	1	2100 6000	4 12

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (45-001033)	335011.00N/0810538.00W	749	2C
2	200	TOWER (45-001033)	335011.00N/0810538.00W	749	2C
4	200	TOWER (45-001033)	335011.00N/0810538.00W	749	2C
4	310	TOWER (45-000656)	334652.54N/0805512.65W	1064	2C

REASON FOR NONSTANDARD HOLDING:

PAT 1 TO AVOID SHAW RAPCONS AIRSPACE.
PAT 2 TO AVOID SHAW RAPCONS AIRSPACE.
PAT 3 ATC REQUEST.
PAT 4 TO AVOID SHAW RAPCONS AIRSPACE.

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.
PAT 3 - PRIOR COORDINATION REQUIRED WITH CONTROLLING AGENCY FOR HOLDING OVER R-6001B.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
4	ILS OR LOC RWY 11	KCAE	COLUMBIA	SC (US)
4	ILS OR LOC RWY 29	KCAE	COLUMBIA	SC (US)
4	ILS OR LOC RWY 5	KCAE	COLUMBIA	SC (US)
4	ILS RWY 11 (CAT II & III)	KCAE	COLUMBIA	SC (US)

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETE.
PAT 3 FOR ATC USE. EVALUATED AT 310 KT FOR MILITARY.
MAGVAR 2W/1965.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	CHARLOTTE			KCLT	CHARLOTTE	NC (US)
DP	HICKORY (OBSTACLE)			KHKY	HICKORY	NC (US)
EN ROUTE	J52					SC (US)
EN ROUTE	V311					SC (US)
EN ROUTE	V325					SC (US)
EN ROUTE	V37					SC (US)
EN ROUTE	V53					SC (US)
EN ROUTE	V56					SC (US)
IAP	ILS OR LOC RWY 17			KAGS	AUGUSTA	GA (US)
IAP	NDB RWY 11			KDNL	AUGUSTA	GA (US)
IAP	ILS OR LOC/DME RWY 7			KAIK	AIKEN	SC (US)
IAP	NDB RWY 25			KAIK	AIKEN	SC (US)
IAP	ILS OR LOC RWY 11		4	KCAE	COLUMBIA	SC (US)
IAP	ILS OR LOC RWY 29		4	KCAE	COLUMBIA	SC (US)
IAP	ILS OR LOC RWY 5		4	KCAE	COLUMBIA	SC (US)
IAP	ILS RWY 11 (CAT II & III)		4	KCAE	COLUMBIA	SC (US)
IAP	VOR-A		2	KCAE	COLUMBIA	SC (US)
IAP	LOC RWY 31		1	KCUB	COLUMBIA	SC (US)
IAP	RNAV (GPS) RWY 23			KOGB	ORANGEBURG	SC (US)
IAP	RNAV (GPS) RWY 5			KOGB	ORANGEBURG	SC (US)
IAP	VOR-A		1	6J0	PELION	SC (US)
STAR	STUGE			KAGS	AUGUSTA	GA (US)
STAR	STWRT			KAGS	AUGUSTA	GA (US)
STAR	UNARM			KVUJ	ALBEMARLE	NC (US)
STAR	UNARM			KCLT	CHARLOTTE	NC (US)
STAR	UNARM			KJQF	CONCORD	NC (US)
STAR	UNARM			KAKH	GASTONIA	NC (US)
STAR	BLOCC			KGSO	GREENSBORO	NC (US)

STAR	UNARM	KIPJ	LINCOLNTON	NC (US)
STAR	UNARM	KEQY	MONROE	NC (US)
STAR	BUZZY	KRDU	RALEIGH/DURHAM	NC (US)
STAR	UNARM	KRUQ	SALISBURY	NC (US)
STAR	UNARM	KEHO	SHELBY	NC (US)
STAR	UNARM	KAFP	WADESBORO	NC (US)
STAR	UNARM	N52	WAXHAW	NC (US)
STAR	BLOCC	KINT	WINSTON SALEM	NC (US)
STAR	UNARM	KDCM	CHESTER	SC (US)
STAR	UNARM	KLKR	LANCASTER	SC (US)
STAR	UNARM	KUZA	ROCK HILL	SC (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: 26

DATE OF REVISION: 03/24/2022

REASON FOR REVISION:

ADDED HOLDING PATTERN 4 TO KCAE ILS OR LOC PROCEDURES.

ADDED CIH TO KCAE ILS OR LOC PROCEDURES.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: KELLY DEAN

APPROVED BY:

DATE: 01/27/2022

OFFICE: AJV-A430

NAME: LONNIE EVERHART

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: WIDER STATE: SC COUNTRY: US ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 340927.05N/0811626.39W 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	MRA	MAA
1	COLUMBIA	CAE	VORTAC	H	330.66	328.66	21.07	21.07	4000	17500
2	COLLIERS	IRQ	VORTAC	H	062.45	058.45	51.89	51.89	3000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
IRQ	VORTAC	R-062	52	2500	17500

FIX RESTRICTIONS:

MRA CAE VORTAC 4000

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	NW	CAE	VORTAC	150.66	150.66	L	1		4000	10000	6	11

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (45-001279)	341138.00N/0812217.00W	824	1A

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN

REMARKS:

COLUMBIA (FAC 1) AND COLLIERS (FAC 2) USED TO ESTABLISH FIX COORDINATES.
PRECIPITOUS TERRAIN EVALUATION COMPLETE.
HOLDING FOR ATC NON-RADAR USE, NOT REQUIRED IN IAPS

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V155	1, 2				(US)
EN ROUTE	V53	1, 2				(US)
IAP	RNAV (GPS) RWY 23			KCAE	COLUMBIA	SC (US)
IAP	RNAV (GPS) RWY 22			KEOE	NEWBERRY	SC (US)
IAP	RNAV (GPS) RWY 4			KEOE	NEWBERRY	SC (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 11

DATE OF REVISION: 03/24/2022

REASON FOR REVISION:

DELETED CAE RNAV (GPS) RWY 11, ILS OR LOC RWY 11, AND ILS RWY 11 PROCEDURES FROM FIX USE.
ADDED FIX MAKEUP REMARK.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: KELLY DEAN

APPROVED BY:

DATE: 03/24/2022

OFFICE: AJV-A430

NAME: LONNIE EVERHART

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: WILLS

STATE: SC

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 342943.48N/0813126.27W

TYPE: WP, INT, DME

AIRSPACE DOCKET: 21-ASO-7

FIX TYPE OF ACTION: NO CHANGE

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	150.17	148.17	37.90	37.90		2700	17500
2	GREENWOOD	GRD	VORTAC	H	065.81	064.81	34.54	34.54		4000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

REMARKS:

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	T258					(US)
EN ROUTE	V53	1, 2				SC (US)
IAP	NDB RWY 22	1, 2		KEOE	NEWBERRY	SC (US)
IAP	RNAV (GPS) RWY 23			35A	UNION	SC (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 9

DATE OF REVISION: 07/14/2022

REASON FOR REVISION:

1. ADDED T258 TO AND DELETED V66 FROM FIX USE.
2. ADDED 21-ASO-7 TO DOCKET.
3. ADDED SECTIONAL TO CHARTING.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: LIAM DONAHUE

APPROVED BY:

DATE: 12/02/2021

OFFICE: AJV-A430

NAME: LONNIE EVERHART

SIGNATURE: