

RADIO FIX AND HOLDING DATA RECORD

NAME: JIRUL

STATE: NC

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 351919.09N/0813122.57W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE
IAP
IAP

USE TITLE
RNAV (GPS) RWY 05
RNAV (GPS) RWY 23

FAC

PAT

AIRPORT IDENT
EHO
EHO

CITY
SHELBY
SHELBY

STATE
NC (US)
NC (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 08/25/2011

REASON FOR REVISION:

REMOVED FAC 1/ FIX MAKE-UP FACILITIES, FIX IS A WP.
UPDATED FIX USE INFORMATION, ADDED RNAV (GPS) RWY 23.
FIX MOVED 5594.46 FT NE TO SERVE AS RWY 23 PFAF.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 03/18/2011

OFFICE: AJV-352

NAME: DONALD SMITH (SHAWN REDDINGER)

APPROVED BY:

DATE: 05/27/2011

OFFICE: AJV-352

NAME: DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: EST
ARTCC: ZTL
ATC FACILITY: CLT TRACON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: LINCO

STATE: NC

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 352626.27N/0812401.66W

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	SUGARLOAF MOUNTAIN	SUG	VORTAC	L	089.00	087.00	42.62	42.62		6000	17500
2	BARRETTS MOUNTAIN	BZM	VOR/DME	H	203.00	197.00	26.82	26.82		4000	17500
3	CHARLOTTE	CLT	VOR/DME	L	309.37	304.37	26.65	26.65		4000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
SUG	VORTAC	R-089	43	6000	17000

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	NE		WP	023.00	203.00	L		5	4000	6000	5	6
2	SW		WP	230.00	050.00	R		5	4000	6000	6	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	353418.70N/0812159.90W	1500	6C
1	310	AAO	353929.40N/0812408.40W	1990	6C
2	200	AAO	352939.00N/0812718.00W	1293	4B

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC USE

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V133	2, 3				(US)
EN ROUTE	V364	1, 3				(US)
IAP	RNAV (GPS) RWY 21			AKH	GASTONIA	NC (US)
IAP	RNAV (GPS) RWY 1			HKY	HICKORY	NC (US)
IAP	RNAV (GPS) RWY 6			HKY	HICKORY	NC (US)
IAP	RNAV (GPS) RWY 23		1	EHO	SHELBY	NC (US)
IAP	RNAV (GPS) RWY 5		2	EHO	SHELBY	NC (US)

REQUIRED CHARTING: IAP, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 17

DATE OF REVISION: 01/22/2026

REASON FOR REVISION:

1. FIX MAKE-UP FACILITIES #2 BARRETTS MOUNTAIN BZM VOR/DME CLASS CHANGE FROM "L" TO "H."
2. HOLDING PATTERN 2 TEMPLATE MINIMUM AMENDED FROM "5" TO "6."
3. HOLDING PATTERN #2 CONTROLLING OBSTACLE CHANGED FROM "200 AAO 352848.00N/0812642.00W 1283 4E" TO "200 AAO 352939.00N/0812718.00W 1293 4B."
4. REQUIRED CHARTING ADDED "CONTROLLER LOW."

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A33

NAME: CORY SLANE

APPROVED BY:

DATE: 12/18/2025

OFFICE: AJV-A433

NAME: ROBERT HAMILTON

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: ZEMRO

STATE: NC

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 351718.05N/0813344.91W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

HOLDING:

HOLDING TYPE OF ACTION:

FIX USE:

USE TYPE
IAP

USE TITLE
RNAV (GPS) RWY 23

FAC

PAT

AIRPORT IDENT
EHO

CITY
SHELBY

STATE
NC (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 08/25/2011

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

DEVELOPED BY:

DATE: 03/18/2011

OFFICE: AJV-352

NAME: DONALD SMITH (SHAWN REDDINGER)

APPROVED BY:

DATE: 05/27/2011

OFFICE: AJV-352

NAME: DARRYEL ADAMS

SIGNATURE:

DISTRIBUTION:

NFDC
FPO: EST
ARTCC: ZTL
ATC FACILITY: CLT TRACON
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: ZISUG

STATE: SC

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 350548.23N/0814712.76W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

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 MIN	ALTITUDES MAX	TEMPLATES MIN	MAX
1	SW		WP	229.81	049.81	R	4	3000	14000	5	11

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (45-000578)	350654.90N/0814634.90W	1522	5E

REMARKS:

HOLDING LIMITED TO ESTABLISHED PATTERN.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 23		1	EHO	SHELBY	NC (US)
IAP	RNAV (GPS) RWY 5		1	EHO	SHELBY	NC (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 01/22/2026

REASON FOR REVISION:

1. REMOVED FIX MAKE-UP FACILITY "KEHO R05 223.91 12.80 17500."
2. AMENDED HOLDING CONTROLLING OBSTACLE FROM "230 200' AAO 350654.20N/0814603.40W 1480 6A" TO "200 TOWER (45-000578) 350654.90N/0814634.90W 1522 5E."
3. ADD REMARK "PRECIPITOUS TERRAIN EVALUATION COMPLETED."
4. AMENDED FIX USE FROM "IAP KEHO SHELBY NC (US)" TO "IAP RNAV (GPS) RWY 23 KEHO SHELBY NC (US)."
5. ADDED FIX USE "IAP RNAV (GPS) RWY 5 KEHO SHELBY NC (US)."

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A33

NAME: CORY SLANE

APPROVED BY:

DATE: 12/18/2025

OFFICE: AJV-A433

NAME: ROBERT HAMILTON

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