



STAR	RASLN	EQY	MONROE	NC (US)
STAR	LIINN	EHO	SHELBY	NC (US)
STAR	MAJIC	EHO	SHELBY	NC (US)
STAR	RASLN	EHO	SHELBY	NC (US)
STAR	LIINN	AFP	WADESBORO	NC (US)
STAR	MAJIC	AFP	WADESBORO	NC (US)
STAR	RASLN	AFP	WADESBORO	NC (US)
STAR	LIINN	N52	WAXHAW	NC (US)
STAR	MAJIC	N52	WAXHAW	NC (US)
STAR	RASLN	N52	WAXHAW	NC (US)
STAR	LIINN	DCM	CHESTER	SC (US)
STAR	MAJIC	DCM	CHESTER	SC (US)
STAR	RASLN	DCM	CHESTER	SC (US)
STAR	LIINN	LKR	LANCASTER	SC (US)
STAR	MAJIC	LKR	LANCASTER	SC (US)
STAR	RASLN	LKR	LANCASTER	SC (US)
STAR	LIINN	UZA	ROCK HILL	SC (US)
STAR	MAJIC	UZA	ROCK HILL	SC (US)
STAR	RASLN	UZA	ROCK HILL	SC (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 32                      **DATE OF REVISION:** 05/14/2026

**REASON FOR REVISION:**  
 FIX USE: REMOVED "ILS Y OR LOC Y RWY 28 AND ILS Z OR LOC Z RWY 28" AT KSVH

<b>INITIATED BY:</b>	<b>DATE:</b>	<b>ORGANIZATION:</b>	<b>NAME:</b>
<b>OFFICE OF PRIMARY RESPONSIBILITY:</b>		AJV-A433	<b>NAME:</b> ANA VEGA
<b>APPROVED BY:</b>	<b>DATE:</b> 06/04/2026	<b>OFFICE:</b> AJV-A431	<b>NAME:</b> CASEY HILL
	<b>SIGNATURE:</b>		

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** CYLOW

**STATE:** NC

**COUNTRY:** US

**ICAO REGION CODE:** K7

**LATITUDE/LONGITUDE:** 351840.31N/0805737.40W

**TYPE:** WP, RADAR, DME

**AIRSPACE DOCKET:**

**FIX TYPE OF ACTION:** MODIFY

**FIX MAKE-UP FACILITIES:**

<b>FAC</b>	<b>NAME</b>	<b>IDENT</b>	<b>TYPE</b>	<b>CLASS</b>	<b>MAG BRG</b>	<b>TRUE BRG</b>	<b>DME</b>	<b>DIST FROM FAC</b>	<b>MRA</b>	<b>MAA</b>
								<b>NM</b>	<b>FEET</b>	
1	CHARLOTTE	I-PEP	LOC/DME		002.96	355.96	6.84	6.87	41732	2400 4500

**HOLDING:**

**HOLDING TYPE OF ACTION:** NO CHANGE

**REMARKS:**

DME FACILITY COORDINATES 351150.24N/0805658.64W

**FIX USE:**

<b>USE TYPE</b>	<b>USE TITLE</b>	<b>FAC</b>	<b>PAT</b>	<b>AIRPORT IDENT</b>	<b>CITY</b>	<b>STATE</b>
IAP	ILS OR LOC RWY 19L	1		CLT	CHARLOTTE	NC (US)
IAP	RNAV (GPS) Y RWY 19L			CLT	CHARLOTTE	NC (US)
IAP	RNAV (RNP) Z RWY 19L			CLT	CHARLOTTE	NC (US)

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 1

**DATE OF REVISION:** 07/09/2026

**REASON FOR REVISION:**

1. FIX MAKE-UP FACILITIES: FAC 1 DME CHANGED FROM "6.85" TO "6.84", DIST FROM FAC IN FEET CHANGED FROM "41739" TO "41732".
2. FIX USE: CHANGED ALL INSTANCES OF KCLT "RWY 18C" TO "RWY 19L".

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A431

**NAME:** TIMOTHY JOHNSON

**APPROVED BY:**

**DATE:** 06/04/2026

**OFFICE:** AJV-A431

**NAME:** CASEY HILL

**SIGNATURE:**

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** DENNE **STATE:** SC **COUNTRY:** US **ICAO REGION CODE:** K7

**LATITUDE/LONGITUDE:** 345842.67N/0805554.50W **TYPE:** WP, RADAR, 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	CHARLOTTE	I-DQG	LOC		182.96	175.96		15.13		5000	5200
2	CHARLOTTE	CLT	VOR/DME	L			12.74	12.72		3000	17500

**EXPANDED SERVICE VOLUME (ESV):**

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-DQG	LOC	R-183	14	5000	5000

**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	S		WP	182.97	002.97	R		4	3000	5000	5	6

**CONTROLLING OBSTRUCTIONS:**

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (45-000099)	345328.58N/0805733.85W	1124	1A

**REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETED

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 1R	1, 2		CLT	CHARLOTTE	NC (US)
IAP	ILS RWY 1R (CAT II)	1, 2		CLT	CHARLOTTE	NC (US)
IAP	ILS RWY 1R (CAT III)	1, 2		CLT	CHARLOTTE	NC (US)
IAP	RNAV (RNP) Z RWY 19L		1	CLT	CHARLOTTE	NC (US)
IAP	RNAV (GPS) Y RWY 19L		1	CLT	CHARLOTTE	NC (US)
IAP	RNAV (GPS) Y RWY 1R			CLT	CHARLOTTE	NC (US)
IAP	RNAV (RNP) Z RWY 1R			CLT	CHARLOTTE	NC (US)

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 4

**DATE OF REVISION:** 07/09/2026

**REASON FOR REVISION:**

1. TYPE: REMOVED INT.
2. FIX MAKE-UP FACILITIES: FAC 1 DIST FROM FAC CHANGED FROM "15.20" TO "15.13".
3. FIX MAKE-UP FACILITIES: FAC 2 "L" REMOVED FROM CLASS.
4. FIX MAKE-UP FACILITIES: REMOVED FAC 3 CTF AND ASSOCIATIONS.
5. REMOVED PATTERN 1 (CLT). RENUMBERED PATTERN 3 (WP) TO PATTERN 1.
6. FIX USE: CHANGED KCLT ILS OR LOC RWY 18C TO ILS OR LOC RWY 19L, CHANGED "FAC 2,3" TO "FAC 3", CHANGED "PAT 1" TO "PAT 2".
7. FIX USE: REMOVED KCLT ILS OR LOC RWY 18C (ALT MA).
8. FIX USE: CHANGED KCLT ILS OR LOC RWY 36C TO ILS OR LOC RWY 1R AND CHANGED FAC FROM "1,3" TO FAC "1,2".
9. FIX USE: CHANGED KCLT ILS RWY 36C (CAT II) TO KCLT ILS RWY 1R AND CHANGED FAC FROM "1,3" TO FAC "1,2".
10. FIX USE: CHANGED KCLT ILS RWY 36C (CAT III) TO ILS RWY 1R (CAT III) AND CHANGED FAC FROM "1,3" TO FAC "1,2".
11. FIX USE: CHANGED KCLT RNAV (GPS) Y RWY 36C TO RNAV (GPS) Y RWY 1R.
12. FIX USE: CHANGED KCLT RNAV (RNP) Z RWY 36C TO RNAV (RNP) Z RWY 1R.
13. FIX USE: CHANGED KCLT RNAV (GPS) Y RWY 18C TO RNAV (GPS) Y RWY 19L AND CHANGED PAT FROM "3" TO "1".
14. FIX USE: CHANGED KCLT RNAV (RNP) Z RWY 18C TO RNAV (RNP) Z RWY 19L AND CHANGED PATTERN FROM "3" TO "1".
15. FIX USE: REMOVED ILS OR LOC RWY 19L AT KCLT.
16. HOLDING PATTERN ASSOCIATION 2,CTF,VOR/DME,07/09/2026 DELETED.
17. HOLDING PATTERN ASSOCIATION 2,VOR/DME,07/09/2026 DELETED.

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

**OFFICE OF PRIMARY RESPONSIBILITY:** AJV-A431 **NAME:** TIMOTHY JOHNSON

**APPROVED BY:** **DATE:** 06/04/2026 **OFFICE:** AJV-A431 **NAME:** CASEY HILL

**SIGNATURE:**

**SIGNATURE:**



# RADIO FIX AND HOLDING DATA RECORD

**NAME:** HAGUL

**STATE:** NC

**COUNTRY:** US

**ICAO REGION CODE:** K7

**LATITUDE/LONGITUDE:** 352341.90N/0805803.41W

**TYPE:** WP, RADAR, DME

**AIRSPACE DOCKET:**

**FIX TYPE OF ACTION:** NO CHANGE

**FIX MAKE-UP FACILITIES:**

<b>FAC</b>	<b>NAME</b>	<b>IDENT</b>	<b>TYPE</b>	<b>CLASS</b>	<b>MAG BRG</b>	<b>TRUE BRG</b>	<b>DME</b>	<b>DIST FROM FAC</b>	<b>MRA</b>	<b>MAA</b>
								<b>NM</b>	<b>FEET</b>	
1	CHARLOTTE	I-PEP	LOC/DME		002.96	355.96	11.88	11.90	4000	5100

**HOLDING:**

**HOLDING TYPE OF ACTION:** NO CHANGE

**REMARKS:**

DME FACILITY COORDINATES: 351150.24N/0805658.64W

**FIX USE:**

<b>USE TYPE</b>	<b>USE TITLE</b>	<b>FAC</b>	<b>PAT</b>	<b>AIRPORT IDENT</b>	<b>CITY</b>	<b>STATE</b>
IAP	ILS OR LOC RWY 19L	1		CLT	CHARLOTTE	NC (US)
IAP	RNAV (GPS) Y RWY 19L			CLT	CHARLOTTE	NC (US)
IAP	RNAV (RNP) Z RWY 19L			CLT	CHARLOTTE	NC (US)

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 5

**DATE OF REVISION:** 07/09/2026

**REASON FOR REVISION:**

REMARKS: REMOVED "ESV I-PEP GS R-003 D 11 4000/4000".  
FIX USE: CHANGED ALL INSTANCES OF KCLT "RWY 18C" TO "RWY 19L".

**INITIATED BY:**

**DATE:**

**ORGANIZATION:**

**NAME:**

**OFFICE OF PRIMARY RESPONSIBILITY:**

AJV-A431

**NAME:** TIMOTHY JOHNSON

**APPROVED BY:**

**DATE:** 06/04/2026

**OFFICE:** AJV-A431

**NAME:** CASEY HILL

**SIGNATURE:**



# RADIO FIX AND HOLDING DATA RECORD

**NAME:** LERDY **STATE:** NC **COUNTRY:** US **ICAO REGION CODE:** K7

**LATITUDE/LONGITUDE:** 353307.76N/0805852.37W **TYPE:** WP, RADAR, 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	MRA	MAA
								NM FEET		
1	CHARLOTTE	I-PEP	LOC/DME		002.96	355.96	21.32	21.34	7000	7000

**EXPANDED SERVICE VOLUME (ESV):**

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-PEP	LOC/DME	R-003	22	7000	7000

**HOLDING:** **HOLDING TYPE OF ACTION:** NO CHANGE

**REMARKS:**

DME FACILITY COORDINATES: 351150.24N/0805658.64W

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 19L	1		CLT	CHARLOTTE	NC (US)
IAP	RNAV (GPS) Y RWY 19L			CLT	CHARLOTTE	NC (US)
IAP	RNAV (RNP) Z RWY 19L			CLT	CHARLOTTE	NC (US)

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 3 **DATE OF REVISION:** 07/09/2026

**REASON FOR REVISION:**

REMARKS: REMOVED "ESV: PEP GS R-003, 20, 7000-7000".  
FIX USE: CHANGED ALL INSTANCES OF KCLT "RWY 18C" TO "RWY 19L".

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

**OFFICE OF PRIMARY RESPONSIBILITY:** AJV-A431 **NAME:** TIMOTHY JOHNSON

**APPROVED BY:** **DATE:** 06/04/2026 **OFFICE:** AJV-A431 **NAME:** CASEY HILL

**SIGNATURE:**

# RADIO FIX AND HOLDING DATA RECORD

NAME: OZEJI

STATE: NC

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 352033.68N/0805747.17W

TYPE: WP, RADAR, 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	FAC	MRA	MAA
								NM	FEET		
1	CHARLOTTE	I-PEP	LOC/DME		002.96	355.96	8.74	8.76		3000	5100

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

**REMARKS:**

DME FACILITY COORDINATES 351150.24N/0805658.64W

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 19L	1		CLT	CHARLOTTE	NC (US)
IAP	RNAV (GPS) Y RWY 19L			CLT	CHARLOTTE	NC (US)
IAP	RNAV (RNP) Z RWY 19L			CLT	CHARLOTTE	NC (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6

DATE OF REVISION: 07/09/2026

**REASON FOR REVISION:**

FIX USE: CHANGED ALL INSTANCES OF KCLT "RWY 18C" TO "RWY 19L".

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A431

NAME: TIMOTHY JOHNSON

APPROVED BY:

DATE: 06/04/2026

OFFICE: AJV-A431

NAME: CASEY HILL

SIGNATURE:

# RADIO FIX AND HOLDING DATA RECORD

**NAME:** TOMME **STATE:** NC **COUNTRY:** US **ICAO REGION CODE:** K7

**LATITUDE/LONGITUDE:** 352650.72N/0805819.72W **TYPE:** WP, RADAR, 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	CHARLOTTE	I-PEP	LOC/DME		002.96	355.96	15.03	15.05		5000	5100
2	BARRETT'S MOUNTAIN	BZM	VOR/DME	VL	158.46	152.46	28.45	28.45		3000	17500

**EXPANDED SERVICE VOLUME (ESV):**

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
I-PEP	LOC/DME	R-003	16	5000	5000

**HOLDING:** **HOLDING TYPE OF ACTION:** MODIFY

**PATTERNS:**

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	HOLDING ALTITUDES DME	MIN	MAX	MIN	MAX
1	N		WP	002.96	182.96	R		4	3000	5000	5	6

**CONTROLLING OBSTRUCTIONS:**

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (37-001216)	352716.00N/0810345.00W	1848	5E

**REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETED  
 I-PEP DME FACILITY COORDINATES: 351150.24N/0805658.64W  
 I-PEP ESV IS FOR GLIDESLOPE ONLY.

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 19L	1		CLT	CHARLOTTE	NC (US)
IAP	RNAV (GPS) Y RWY 1R		1	CLT	CHARLOTTE	NC (US)
IAP	RNAV (RNP) Z RWY 1R		1	CLT	CHARLOTTE	NC (US)
IAP	RNAV (GPS) Y RWY 19L			CLT	CHARLOTTE	NC (US)
IAP	RNAV (RNP) Z RWY 19L			CLT	CHARLOTTE	NC (US)

**REQUIRED CHARTING:** IAP

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 10 **DATE OF REVISION:** 07/09/2026

**REASON FOR REVISION:**

1. FIX MAKE-UP FACILITIES: REMOVED FAC 2 (CLT VOR/DME) AND RENUMBERED FAC 3 (BZM VOR/DME) TO FAC 2.
2. FIX MAKE-UP FACILITIES: BZM VOR/DME CLASS CHANGED FROM "L" TO "H".
3. PATTERNS: REMOVED PAT 1 (CLT VOR/DME) AND PAT 2 (BZM VOR/DME).
4. REMARKS: CHANGED FROM "DME FACILITY COORDINATES: 351150.24N/0805658.64W" TO "I-PEP DME FACILITY COORDINATES: 351150.24N/0805658.64W".
5. FIX USE: CHANGED ALL INSTANCES OF KCLT "RWY 36C" TO "RWY 1R".
6. FIX USE: CHANGED ALL INSTANCES OF KCLT "RWY 18C" TO "RWY 19L".
7. FIX USE: REMOVED ILS OR LOC RWY 36C (ALT MA), ILS RWY 36C (CAT II)(ALT MA), ILS RWY 36C (CAT III)(ALT MA).
8. HOLDING PATTERN ASSOCIATION 1,BZM,VOR/DME,07/09/2026 DELETED
9. HOLDING PATTERN ASSOCIATION 1,VOR/DME,07/09/2026 DELETED
10. EXPANDED SERVICE VOLUME: ADDED ESV FOR I-PEP GS.
11. FIX USE: REMOVED ILS OR LOC RWY 1R.
12. FIX USE: REMOVED ILS RWY 1R (CAT II).
13. FIX USE: REMOVED ILS RWY 1R (CAT III).

**INITIATED BY:** **DATE:** **ORGANIZATION:** **NAME:**  
**OFFICE OF PRIMARY RESPONSIBILITY:** AJV-A431 **NAME:** TIMOTHY JOHNSON  
**APPROVED BY:** **DATE:** 06/04/2026 **OFFICE:** AJV-A431 **NAME:** CASEY HILL  
**SIGNATURE:**