

# RADIO FIX AND HOLDING DATA RECORD

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

**LATITUDE/LONGITUDE:** 351108.04N/0813802.89W **TYPE:** WP, 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 FEET	MRA	MAA
1	CHARLOTTE	CLT	VOR/DME	L	274.71	269.71	33.55	33.56	8000	34000
2	FOOTHILLS	ODF	VOR/DME	H	069.85	069.85	87.14	87.14	8000	34000

**EXPANDED SERVICE VOLUME (ESV):**

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
CLT	VOR/DME	R-275	34	17500	34000
ODF	VOR/DME	R-070	88	8000	15000

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

**REMARKS:**  
CHARLOTTE (FAC 1) USED TO ESTABLISH FIX COORDINATES.

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BOBZY (RNAV)			KVUJ	ALBEMARLE	NC (US)
DP	KERMIT	1, 2		KVUJ	ALBEMARLE	NC (US)
DP	KNIGHTS	1, 2		KVUJ	ALBEMARLE	NC (US)
DP	BOBZY (RNAV)			KCLT	CHARLOTTE	NC (US)
DP	KERMIT	1, 2		KCLT	CHARLOTTE	NC (US)
DP	KNIGHTS	1, 2		KCLT	CHARLOTTE	NC (US)
DP	BOBZY (RNAV)			KJQF	CONCORD	NC (US)
DP	KERMIT	1, 2		KJQF	CONCORD	NC (US)
DP	KNIGHTS	1, 2		KJQF	CONCORD	NC (US)
DP	BOBZY (RNAV)			KAKH	GASTONIA	NC (US)
DP	KERMIT	1, 2		KAKH	GASTONIA	NC (US)
DP	KNIGHTS	1, 2		KAKH	GASTONIA	NC (US)
DP	BOBZY (RNAV)			KIPJ	LINCOLNTON	NC (US)
DP	KERMIT	1, 2		KIPJ	LINCOLNTON	NC (US)
DP	KNIGHTS	1, 2		KIPJ	LINCOLNTON	NC (US)
DP	BOBZY (RNAV)			KEQY	MONROE	NC (US)
DP	KERMIT	1, 2		KEQY	MONROE	NC (US)
DP	KNIGHTS	1, 2		KEQY	MONROE	NC (US)
DP	BOBZY (RNAV)			KRUQ	SALISBURY	NC (US)
DP	KERMIT	1, 2		KRUQ	SALISBURY	NC (US)
DP	KNIGHTS	1, 2		KRUQ	SALISBURY	NC (US)
DP	BOBZY (RNAV)			KLKR	LANCASTER	SC (US)
DP	KERMIT	1, 2		KLKR	LANCASTER	SC (US)
DP	KNIGHTS	1, 2		KLKR	LANCASTER	SC (US)
DP	BOBZY (RNAV)			KUZA	ROCK HILL	SC (US)
DP	KERMIT	1, 2		KUZA	ROCK HILL	SC (US)
DP	KNIGHTS	1, 2		KUZA	ROCK HILL	SC (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 2 **DATE OF REVISION:** 03/21/2024

**REASON FOR REVISION:**  
REQUIRED CHARTING: UPDATED "CONTROLLER" TO "CONTROLLER LOW".

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

**OFFICE OF PRIMARY RESPONSIBILITY:** AJV-A412 **NAME:** ANA VEGA

**APPROVED BY:** **DATE:** 08/10/2023 **OFFICE:** AJV-A410 **NAME:** JULIE MORGAN

**SIGNATURE:**

# RADIO FIX AND HOLDING DATA RECORD

NAME: CHARLOTTE VOR/DME STATE: NC COUNTRY: US ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 351125.04N/0805706.31W 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	CHARLOTTE	CLT	VOR/DME	L						17500

HOLDING: HOLDING TYPE OF ACTION: MODIFY

**PATTERNS:**

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH DME	HOLDING ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	S		WP	191.00	011.00	R	10	4000 6000	15 15

**CONTROLLING OBSTRUCTIONS:**

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	BUILDING (37-001250)	351339.00N/0805032.00W	1633	5D

**HOLDING RESTRICTIONS:**

HOLDING LIMITED TO ESTABLISHED PATTERN.

**REMARKS:**

ASSIGNED FACILITY MAGVAR: W05/1985.  
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
 PAT 1 USED FOR LOST COMM PROCEDURES WITH BANKR/PARQR STARS.

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	KERMIT			KVUJ	ALBEMARLE	NC (US)
DP	KNIGHTS			KVUJ	ALBEMARLE	NC (US)
DP	CHARLOTTE			KCLT	CHARLOTTE	NC (US)
DP	KERMIT			KCLT	CHARLOTTE	NC (US)
DP	KNIGHTS			KCLT	CHARLOTTE	NC (US)
DP	KERMIT			KJQF	CONCORD	NC (US)
DP	KNIGHTS			KJQF	CONCORD	NC (US)
DP	KERMIT			KAKH	GASTONIA	NC (US)
DP	KNIGHTS			KAKH	GASTONIA	NC (US)
DP	KERMIT			KIPJ	LINCOLNTON	NC (US)
DP	KNIGHTS			KIPJ	LINCOLNTON	NC (US)
DP	KERMIT			KEQY	MONROE	NC (US)
DP	KNIGHTS			KEQY	MONROE	NC (US)
DP	KERMIT			KRUQ	SALISBURY	NC (US)
DP	KNIGHTS			KRUQ	SALISBURY	NC (US)
DP	KERMIT			KLKR	LANCASTER	SC (US)
DP	KNIGHTS			KLKR	LANCASTER	SC (US)
DP	KERMIT			KUZA	ROCK HILL	SC (US)
DP	KNIGHTS			KUZA	ROCK HILL	SC (US)
EN ROUTE	V37					(US)
EN ROUTE	V409					(US)
IAP	ILS OR LOC RWY 18C			KCLT	CHARLOTTE	NC (US)
IAP	ILS OR LOC RWY 18L			KCLT	CHARLOTTE	NC (US)
IAP	ILS OR LOC RWY 18R			KCLT	CHARLOTTE	NC (US)
IAP	ILS OR LOC RWY 36C			KCLT	CHARLOTTE	NC (US)
IAP	ILS OR LOC RWY 36L			KCLT	CHARLOTTE	NC (US)
IAP	ILS OR LOC RWY 36R			KCLT	CHARLOTTE	NC (US)
IAP	ILS RWY 18R (CAT II & III)			KCLT	CHARLOTTE	NC (US)
IAP	ILS RWY 18R (SA CAT I)			KCLT	CHARLOTTE	NC (US)
IAP	ILS RWY 36C (CAT II & III)			KCLT	CHARLOTTE	NC (US)
IAP	ILS RWY 36L (CAT II & III)			KCLT	CHARLOTTE	NC (US)
IAP	ILS RWY 36L (SA CAT I)			KCLT	CHARLOTTE	NC (US)
IAP	ILS RWY 36R (CAT II & III)			KCLT	CHARLOTTE	NC (US)
IAP	ILS RWY 36R (SA CAT I)			KCLT	CHARLOTTE	NC (US)
IAP	NDB RWY 3			KAKH	GASTONIA	NC (US)
IAP	ILS Y OR LOC Y RWY 28			KSVH	STATESVILLE	NC (US)
IAP	ILS Z OR LOC Z RWY 28			KSVH	STATESVILLE	NC (US)
STAR	BANKR		1	KCLT	CHARLOTTE	NC (US)
STAR	BTSEY			KCLT	CHARLOTTE	NC (US)
STAR	LIINN			KCLT	CHARLOTTE	NC (US)
STAR	MAJIC			KCLT	CHARLOTTE	NC (US)
STAR	PARQR		1	KCLT	CHARLOTTE	NC (US)
STAR	RASLN			KCLT	CHARLOTTE	NC (US)
STAR	UNARM			KCLT	CHARLOTTE	NC (US)
STAR	LIINN			KAKH	GASTONIA	NC (US)
STAR	MAJIC			KAKH	GASTONIA	NC (US)
STAR	RASLN			KAKH	GASTONIA	NC (US)
STAR	LIINN			KIPJ	LINCOLNTON	NC (US)
STAR	MAJIC			KIPJ	LINCOLNTON	NC (US)
STAR	RASLN			KIPJ	LINCOLNTON	NC (US)

STAR	LIINN	KEQY	MONROE	NC (US)
STAR	MAJIC	KEQY	MONROE	NC (US)
STAR	RASLN	KEQY	MONROE	NC (US)
STAR	LIINN	KEHO	SHELBY	NC (US)
STAR	MAJIC	KEHO	SHELBY	NC (US)
STAR	RASLN	KEHO	SHELBY	NC (US)
STAR	LIINN	KAFP	WADESBORO	NC (US)
STAR	MAJIC	KAFP	WADESBORO	NC (US)
STAR	RASLN	KAFP	WADESBORO	NC (US)
STAR	LIINN	N52	WAXHAW	NC (US)
STAR	MAJIC	N52	WAXHAW	NC (US)
STAR	RASLN	N52	WAXHAW	NC (US)
STAR	LIINN	KDCM	CHESTER	SC (US)
STAR	MAJIC	KDCM	CHESTER	SC (US)
STAR	RASLN	KDCM	CHESTER	SC (US)
STAR	LIINN	KLKR	LANCASTER	SC (US)
STAR	MAJIC	KLKR	LANCASTER	SC (US)
STAR	RASLN	KLKR	LANCASTER	SC (US)
STAR	LIINN	KUZA	ROCK HILL	SC (US)
STAR	MAJIC	KUZA	ROCK HILL	SC (US)
STAR	RASLN	KUZA	ROCK HILL	SC (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 31                      **DATE OF REVISION:** 03/19/2026

**REASON FOR REVISION:**

1. FIX USE: REMOVED RNAV (GPS) RWY 4 AND RNAV (GPS) RWY 22 AT N52.
2. ADDED HOLDING RESTRICTION: HOLDING LIMITED TO ESTABLISHED PATTERN.  
HOLDING PATTERN ASSOCIATION UNP,03/19/2026 DELETED

<b>INITIATED BY:</b>	<b>DATE:</b>	<b>ORGANIZATION:</b>	<b>NAME:</b>
<b>OFFICE OF PRIMARY RESPONSIBILITY:</b>		AJV-A432	<b>NAME:</b> BARBARA GORMAN
<b>APPROVED BY:</b>	<b>DATE:</b> 02/12/2026	<b>OFFICE:</b> AJV-A430	<b>NAME:</b> CASIMIR TABAKA
	<b>SIGNATURE:</b>		









# RADIO FIX AND HOLDING DATA RECORD

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

**LATITUDE/LONGITUDE:** 345607.59N/0795548.73W **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	FAYETTEVILLE	FAY	VOR/DME	L	271.00	267.00	52.12	52.12		5000	17500
2	SANDHILLS	SDZ	VORTAC	L	228.23	225.23	23.78	23.78		8000	17500
3	CHESTERFIELD	CTF	VOR/DME	L	047.84	044.84	24.11	24.11		2300	17500
4	CHARLOTTE	CLT	VOR/DME	L	111.58	106.58	52.59	52.58		9000	17500

**EXPANDED SERVICE VOLUME (ESV):**

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
FAY	VOR/DME	R-271	53	5000	17500
CLT	VOR/DME	R-112	53	9000	17500

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

**REMARKS:**

FAYETTEVILLE (FAC 1) AND SANDHILLS (FAC 2) USED TO ESTABLISH FIX COORDINATES.  
 INCREASED FAC 4 (CLT) MRA ALTITUDE AND CLT ESV MIN ALTITUDE FROM 8000 TO 9000 PER FLIGHT INSPECTION RESULTS (2/8/2013).  
 DME ONLY FIX BELOW 9000.

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	KERMIT	2, 3, 4		KVUJ	ALBEMARLE	NC (US)
DP	KNIGHTS	2, 3, 4		KVUJ	ALBEMARLE	NC (US)
DP	LILLS (RNAV)			KVUJ	ALBEMARLE	NC (US)
DP	CHARLOTTE	4		KCLT	CHARLOTTE	NC (US)
DP	KERMIT	2, 3, 4		KCLT	CHARLOTTE	NC (US)
DP	KNIGHTS	2, 3, 4		KCLT	CHARLOTTE	NC (US)
DP	LILLS (RNAV)			KCLT	CHARLOTTE	NC (US)
DP	KERMIT	2, 3, 4		KJQF	CONCORD	NC (US)
DP	KNIGHTS	2, 3, 4		KJQF	CONCORD	NC (US)
DP	LILLS (RNAV)			KJQF	CONCORD	NC (US)
DP	KERMIT	2, 3, 4		KAKH	GASTONIA	NC (US)
DP	KNIGHTS	2, 3, 4		KAKH	GASTONIA	NC (US)
DP	LILLS (RNAV)			KAKH	GASTONIA	NC (US)
DP	KERMIT	2, 3, 4		KIPJ	LINCOLNTON	NC (US)
DP	KNIGHTS	2, 3, 4		KIPJ	LINCOLNTON	NC (US)
DP	LILLS (RNAV)			KIPJ	LINCOLNTON	NC (US)
DP	KERMIT	2, 3, 4		KEQY	MONROE	NC (US)
DP	KNIGHTS	2, 3, 4		KEQY	MONROE	NC (US)
DP	LILLS (RNAV)			KEQY	MONROE	NC (US)
DP	KERMIT	2, 3, 4		KRUQ	SALISBURY	NC (US)
DP	KNIGHTS	2, 3, 4		KRUQ	SALISBURY	NC (US)
DP	LILLS (RNAV)			KRUQ	SALISBURY	NC (US)
DP	KERMIT	2, 3, 4		KLKR	LANCASTER	SC (US)
DP	KNIGHTS	2, 3, 4		KLKR	LANCASTER	SC (US)
DP	LILLS (RNAV)			KLKR	LANCASTER	SC (US)
DP	KERMIT	2, 3, 4		KUZA	ROCK HILL	SC (US)
DP	KNIGHTS	2, 3, 4		KUZA	ROCK HILL	SC (US)
DP	LILLS (RNAV)			KUZA	ROCK HILL	SC (US)
EN ROUTE	V155	1, 2, 3, 4				(US)
EN ROUTE	V296	1, 2, 3, 4				(US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 14 **DATE OF REVISION:** 06/17/2021

**REASON FOR REVISION:**

1. DELETED KHFF CAMP MACKALL NDB OR GPS RWY 11 FROM FIX USE.
2. REMOVED MILITARY IAP AND IAP FROM REQUIRED CHARTING.
3. UPDATED FIX MAKE-UP FAC 3 CTF DISTANCE FROM FAC NM FROM 24.12 TO 24.11.

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

**OFFICE OF PRIMARY RESPONSIBILITY:** AJV-A450 **NAME:** RAKE MCGRAW

**APPROVED BY:** **DATE:** 03/09/2021 **OFFICE:** AJV-A450 **NAME:** GEORGE DAVIS

**SIGNATURE:**

**DISTRIBUTION:**    **NFDC**  
                          **FPO: EST**  
                          **ARTCC: ZDC**  
                          **ATC FACILITY: FAY APP CON**  
                          **OTHER: CLT APP, FLO APP, USAASA**

# RADIO FIX AND HOLDING DATA RECORD

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

**LATITUDE/LONGITUDE:** 353647.67N/0792601.91W **TYPE:** WP, INT, DME

**AIRSPACE DOCKET:** 22-AEA-21 **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	SANDHILLS	SDZ	VORTAC	L	020.55	017.55	25.00	25.00		2500	17500
2	LIBERTY	LIB	VORTAC	VL	146.64	143.64		14.75		2300	17500
3	CHARLOTTE	CLT	VOR/DME	L	075.77	070.77	78.65	78.64		8000	17500
4	RALEIGH/DURHAM	RDU	VORTAC	H	253.14	244.14		35.37		2300	17500

**EXPANDED SERVICE VOLUME (ESV):**

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
CLT	VOR/DME	R-076	79	8000	17500

**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	E	RDU	VORTAC	253.14	253.14	R	1	2300 6000	6 7

**CONTROLLING OBSTRUCTIONS:**

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (37-001534)	354132.40N/0792558.00W	1062	5D

**HOLDING RESTRICTIONS:**

HOLDING LIMITED TO ESTABLISHED PATTERN.

**REMARKS:**

SANDHILLS (FAC 1) AND LIBERTY (FAC 2) USED TO ESTABLISH FIX COORDINATES.  
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	KERMIT	2, 3, 4		KVUJ	ALBEMARLE	NC (US)
DP	KERMIT	2, 3, 4		KCLT	CHARLOTTE	NC (US)
DP	KERMIT	2, 3, 4		KJQF	CONCORD	NC (US)
DP	KERMIT	2, 3, 4		KAKH	GASTONIA	NC (US)
DP	KERMIT	2, 3, 4		KIPJ	LINCOLNTON	NC (US)
DP	KERMIT	2, 3, 4		KEQY	MONROE	NC (US)
DP	KERMIT	2, 3, 4		KRUQ	SALISBURY	NC (US)
DP	KERMIT	2, 3, 4		KLKR	LANCASTER	SC (US)
DP	KERMIT	2, 3, 4		KUZA	ROCK HILL	SC (US)
EN ROUTE	T287					(US)
EN ROUTE	V39	1, 2				(US)
IAP	ILS Z OR LOC Z RWY 3 (ALT MA)	2, 4	1	KTTA	SANFORD	NC (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 16 **DATE OF REVISION:** 07/11/2024

**REASON FOR REVISION:**

AIRSPACE DOCKET: ADDED 22-AEA-21  
FIX MAKE-UP FACILITIES: UPDATED (FAC 2) LIBERTY (LIB) VORTAC FROM CLASS "L" TO "VL"  
FIX USE: ADDED T287

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

**OFFICE OF PRIMARY RESPONSIBILITY:** AJV-A423 **NAME:** GALE SHELTON

**APPROVED BY:** **DATE:** 07/11/2024 **OFFICE:** AJV-A423 **NAME:** ALLAN WILL

**SIGNATURE:**

# RADIO FIX AND HOLDING DATA RECORD

NAME: NALEY

STATE: NC

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 362109.70N/0804824.51W

TYPE: WP, 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 FEET	MRA	MAA
1	CHARLOTTE	CLT	VOR/DME	L	010.76	005.76	69.99	70.00	8000	17500

## EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
CLT	VOR/DME	R-011	70	8000	17500

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	KERMIT	1		KVUJ	ALBEMARLE	NC (US)
DP	KERMIT	1		KCLT	CHARLOTTE	NC (US)
DP	KERMIT	1		KJQF	CONCORD	NC (US)
DP	KERMIT	1		KAKH	GASTONIA	NC (US)
DP	KERMIT	1		KIPJ	LINCOLNTON	NC (US)
DP	KERMIT	1		KEQY	MONROE	NC (US)
DP	KERMIT	1		KRUQ	SALISBURY	NC (US)
DP	KERMIT	1		KLKR	LANCASTER	SC (US)
DP	KERMIT	1		KUZA	ROCK HILL	SC (US)

REQUIRED CHARTING: DP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6

DATE OF REVISION: 10/12/2017

## REASON FOR REVISION:

1. UPDATED FIX USE - DELETED SID HORNET/AIRPORT IDENT: KVUJ, KCLT, KJQF, KAKH, KIPJ, KEQY, KRUQ, KLKR, AND KUZA.

INITIATED BY:                      DATE:                      ORGANIZATION:                      NAME:

DEVELOPED BY:                      DATE: 12/06/2016                      OFFICE: AJV-5422                      NAME: JOHN THORNTON

APPROVED BY:                      DATE:                      OFFICE: AJV-5420                      NAME: JULIE MORGAN

SIGNATURE:

DISTRIBUTION:                      NFDC  
   FPO: EST  
   ARTCC: ZTL  
   ATC FACILITY: CLT APP CON  
   OTHER:

# RADIO FIX AND HOLDING DATA RECORD

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

**LATITUDE/LONGITUDE:** 350452.86N/0815947.34W **TYPE:** 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	FOOTHILLS	ODF	VOR/DME	H	069.85	069.85	68.25	68.25		8000	33000
2	SUGARLOAF MOUNTAIN	SUG	VORTAC	L	147.45	145.45	23.63	23.63		8000	33000

**EXPANDED SERVICE VOLUME (ESV):**

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
ODF	VOR/DME	R-070	69	8000	15000
SUG	VORTAC	R-147	24	17000	33000

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

**REMARKS:**  
FOOTHILLS (FAC 1) AND SUGARLOAF MOUNTAIN (FAC 2) USED TO ESTABLISH FIX COORDINATES.

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	KERMIT	1, 2		KVUJ	ALBEMARLE	NC (US)
DP	KNIGHTS	1, 2		KVUJ	ALBEMARLE	NC (US)
DP	KERMIT	1, 2		KCLT	CHARLOTTE	NC (US)
DP	KNIGHTS	1, 2		KCLT	CHARLOTTE	NC (US)
DP	KERMIT	1, 2		KJQF	CONCORD	NC (US)
DP	KNIGHTS	1, 2		KJQF	CONCORD	NC (US)
DP	KERMIT	1, 2		KAKH	GASTONIA	NC (US)
DP	KNIGHTS	1, 2		KAKH	GASTONIA	NC (US)
DP	KERMIT	1, 2		KIPJ	LINCOLNTON	NC (US)
DP	KNIGHTS	1, 2		KIPJ	LINCOLNTON	NC (US)
DP	KERMIT	1, 2		KEQY	MONROE	NC (US)
DP	KNIGHTS	1, 2		KEQY	MONROE	NC (US)
DP	KERMIT	1, 2		KRUQ	SALISBURY	NC (US)
DP	KNIGHTS	1, 2		KRUQ	SALISBURY	NC (US)
DP	KERMIT	1, 2		KLKR	LANCASTER	SC (US)
DP	KNIGHTS	1, 2		KLKR	LANCASTER	SC (US)
DP	KERMIT	1, 2		KUZA	ROCK HILL	SC (US)
DP	KNIGHTS	1, 2		KUZA	ROCK HILL	SC (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 1 **DATE OF REVISION:** 03/21/2024

**REASON FOR REVISION:**

- FIX MAKE-UP FACILITIES: FOOTHILLS TYPE CHANGED FROM "VORTAC" TO "VOR/DME" - NAME CHANGED; MAA CHANGED FROM 15000 TO 33000 - CORRECT TYPO ERROR.
- REQUIRED CHARTING: UPDATED "CONTROLLER" TO "CONTROLLER LOW".

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

**OFFICE OF PRIMARY RESPONSIBILITY:** AJV-A412 **NAME:** ANA VEGA

**APPROVED BY:** **DATE:** 03/21/2024 **OFFICE:** AJV-A410 **NAME:** JULIE MORGAN

**SIGNATURE:**



