

# 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	MRA FEET	MAA
1	CHARLOTTE	CLT	VOR/DME	L						17500

HOLDING: HOLDING TYPE OF ACTION: NO CHANGE

## PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG TIME	LENGTH DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	S	CLT	VOR/DME	191.00	011.00	R	1		4000	6000	4	5

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	265	TOWER (37-001173)	352049.00N/0811014.00W	2755	5E
1	200	TOWER (37-002817)	351157.00N/0805235.00W	1234	5D

## HOLDING RESTRICTIONS:

UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 3800.

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETE.  
 UPN HOLDING 265 KTS USED FOR MILITARY OPERATIONS.

**INFORMATION ONLY**

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BOBCAT			KVUJ	ALBEMARLE	NC (US)
DP	HORNET			KVUJ	ALBEMARLE	NC (US)
DP	HUGO			KVUJ	ALBEMARLE	NC (US)
DP	KERMIT			KVUJ	ALBEMARLE	NC (US)
DP	KNIGHTS			KVUJ	ALBEMARLE	NC (US)
DP	PANTHER			KVUJ	ALBEMARLE	NC (US)
DP	ASHVILLE			KAVL	ASHEVILLE	NC (US)
DP	BOBCAT			KCLT	CHARLOTTE	NC (US)
DP	CHARLOTTE			KCLT	CHARLOTTE	NC (US)
DP	HORNET			KCLT	CHARLOTTE	NC (US)
DP	HUGO			KCLT	CHARLOTTE	NC (US)
DP	KERMIT			KCLT	CHARLOTTE	NC (US)
DP	KNIGHTS			KCLT	CHARLOTTE	NC (US)
DP	PANTHER			KCLT	CHARLOTTE	NC (US)
DP	BOBCAT			KJQF	CONCORD	NC (US)
DP	HORNET			KJQF	CONCORD	NC (US)
DP	HUGO			KJQF	CONCORD	NC (US)
DP	KERMIT			KJQF	CONCORD	NC (US)
DP	KNIGHTS			KJQF	CONCORD	NC (US)
DP	PANTHER			KJQF	CONCORD	NC (US)
DP	TAKE-OFF MINIMUMS			KJQF	CONCORD	NC (US)
DP	MOUNTY			KFAY	FAYETTEVILLE	NC (US)
DP	BOBCAT			KAKH	GASTONIA	NC (US)
DP	HORNET			KAKH	GASTONIA	NC (US)
DP	HUGO			KAKH	GASTONIA	NC (US)
DP	KERMIT			KAKH	GASTONIA	NC (US)
DP	KNIGHTS			KAKH	GASTONIA	NC (US)
DP	PANTHER			KAKH	GASTONIA	NC (US)
DP	HICKORY			KHKY	HICKORY	NC (US)
DP	BOBCAT			KIPJ	LINCOLNTON	NC (US)
DP	HORNET			KIPJ	LINCOLNTON	NC (US)
DP	HUGO			KIPJ	LINCOLNTON	NC (US)
DP	KERMIT			KIPJ	LINCOLNTON	NC (US)
DP	KNIGHTS			KIPJ	LINCOLNTON	NC (US)
DP	PANTHER			KIPJ	LINCOLNTON	NC (US)
DP	BOBCAT			KEQY	MONROE	NC (US)
DP	HORNET			KEQY	MONROE	NC (US)
DP	HUGO			KEQY	MONROE	NC (US)
DP	KERMIT			KEQY	MONROE	NC (US)
DP	KNIGHTS			KEQY	MONROE	NC (US)
DP	PANTHER			KEQY	MONROE	NC (US)
DP	BOBCAT			KRUQ	SALISBURY	NC (US)
DP	HORNET			KRUQ	SALISBURY	NC (US)
DP	HUGO			KRUQ	SALISBURY	NC (US)
DP	KERMIT			KRUQ	SALISBURY	NC (US)
DP	KNIGHTS			KRUQ	SALISBURY	NC (US)
DP	PANTHER			KRUQ	SALISBURY	NC (US)
DP	WINSTON			KINT	WINSTON-SALEM	NC (US)
DP	BOBCAT			KLKR	LANCASTER	SC (US)
DP	HORNET			KLKR	LANCASTER	SC (US)

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DP	HUGO	KLKR	LANCASTER	SC (US)
DP	KERMIT	KLKR	LANCASTER	SC (US)
DP	KNIGHTS	KLKR	LANCASTER	SC (US)
DP	PANTHER	KLKR	LANCASTER	SC (US)
DP	BOBCAT	KUZA	ROCK HILL	SC (US)
DP	HORNET	KUZA	ROCK HILL	SC (US)
DP	HUGO	KUZA	ROCK HILL	SC (US)
DP	KERMIT	KUZA	ROCK HILL	SC (US)
DP	KNIGHTS	KUZA	ROCK HILL	SC (US)
DP	PANTHER	KUZA	ROCK HILL	SC (US)
EN ROUTE	V37			(US)
EN ROUTE	V409			(US)
EN ROUTE	V54			(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 23	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 OR LOC RWY 5	KCLT	CHARLOTTE	NC (US)
IAP	ILS RWY 18R (CAT II-III)	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 36R (CAT II-III)	KCLT	CHARLOTTE	NC (US)
IAP	ILS OR LOC RWY 20	KJQF	CONCORD	NC (US)
IAP	NDB RWY 3	KAKH	GASTONIA	NC (US)
IAP	ILS OR LOC/DME Y RWY 28	KSVH	STATESVILLE	NC (US)
IAP	ILS OR LOC/DME Z RWY 28	KSVH	STATESVILLE	NC (US)
IAP	RNAV (GPS) RWY 22	KN52	WAXHAW	NC (US)
IAP	RNAV (GPS) RWY 4	KN52	WAXHAW	NC (US)
IAP	VOR/DME-A	KLKR	LANCASTER	SC (US)
IAP	ILS Y OR LOC Y RWY 2	KUZA	ROCK HILL	SC (US)
IAP	ILS Z OR LOC Z RWY 2	KUZA	ROCK HILL	SC (US)
STAR	UNARM	KVUJ	ALBEMARLE	NC (US)
STAR	BANKR (RNAV)	1 KCLT	CHARLOTTE	NC (US)
STAR	BTSEY	KCLT	CHARLOTTE	NC (US)
STAR	JOHNS (RNAV)	KCLT	CHARLOTTE	NC (US)
STAR	LIINN	KCLT	CHARLOTTE	NC (US)
STAR	MAJIC	KCLT	CHARLOTTE	NC (US)
STAR	PARQR (RNAV)	1 KCLT	CHARLOTTE	NC (US)
STAR	RASLN	KCLT	CHARLOTTE	NC (US)
STAR	SHINE	KCLT	CHARLOTTE	NC (US)
STAR	SUDSY (RNAV)	KCLT	CHARLOTTE	NC (US)
STAR	UNARM	KCLT	CHARLOTTE	NC (US)
STAR	UNARM	KJQF	CONCORD	NC (US)
STAR	BTSEY	KAKH	GASTONIA	NC (US)
STAR	LIINN	KAKH	GASTONIA	NC (US)
STAR	MAJIC	KAKH	GASTONIA	NC (US)
STAR	RASLN	KAKH	GASTONIA	NC (US)
STAR	SHINE	KAKH	GASTONIA	NC (US)
STAR	UNARM	KAKH	GASTONIA	NC (US)
STAR	BTSEY	KIPJ	LINCOLNTON	NC (US)
STAR	LIINN	KIPJ	LINCOLNTON	NC (US)
STAR	MAJIC	KIPJ	LINCOLNTON	NC (US)
STAR	RASLN	KIPJ	LINCOLNTON	NC (US)
STAR	SHINE	KIPJ	LINCOLNTON	NC (US)
STAR	UNARM	KIPJ	LINCOLNTON	NC (US)
STAR	BTSEY	KEQY	MONROE	NC (US)
STAR	LIINN	KEQY	MONROE	NC (US)
STAR	MAJIC	KEQY	MONROE	NC (US)
STAR	RASLN	KEQY	MONROE	NC (US)
STAR	SHINE	KEQY	MONROE	NC (US)
STAR	UNARM	KEQY	MONROE	NC (US)
STAR	UNARM	KRUQ	SALISBURY	NC (US)
STAR	BTSEY	KEHO	SHELBY	NC (US)
STAR	LIINN	KEHO	SHELBY	NC (US)
STAR	MAJIC	KEHO	SHELBY	NC (US)
STAR	RASLN	KEHO	SHELBY	NC (US)
STAR	SHINE	KEHO	SHELBY	NC (US)
STAR	UNARM	KEHO	SHELBY	NC (US)
STAR	BTSEY	KAFP	WADESBORO	NC (US)
STAR	LIINN	KAFP	WADESBORO	NC (US)
STAR	MAJIC	KAFP	WADESBORO	NC (US)
STAR	RASLN	KAFP	WADESBORO	NC (US)
STAR	SHINE	KAFP	WADESBORO	NC (US)
STAR	UNARM	KAFP	WADESBORO	NC (US)
STAR	BTSEY	KN52	WAXHAW	NC (US)
STAR	LIINN	KN52	WAXHAW	NC (US)
STAR	MAJIC	KN52	WAXHAW	NC (US)
STAR	RASLN	KN52	WAXHAW	NC (US)
STAR	SHINE	KN52	WAXHAW	NC (US)
STAR	UNARM	KN52	WAXHAW	NC (US)
STAR	BTSEY	KDCM	CHESTER	SC (US)
STAR	LIINN	KDCM	CHESTER	SC (US)
STAR	MAJIC	KDCM	CHESTER	SC (US)
STAR	RASLN	KDCM	CHESTER	SC (US)
STAR	SHINE	KDCM	CHESTER	SC (US)
STAR	UNARM	KDCM	CHESTER	SC (US)
STAR	BTSEY	KLKR	LANCASTER	SC (US)

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STAR	LIINN	KLKR	LANCASTER	SC (US)
STAR	MAJIC	KLKR	LANCASTER	SC (US)
STAR	RASLN	KLKR	LANCASTER	SC (US)
STAR	SHINE	KLKR	LANCASTER	SC (US)
STAR	UNARM	KLKR	LANCASTER	SC (US)
STAR	BTSEY	KUZA	ROCK HILL	SC (US)
STAR	LIINN	KUZA	ROCK HILL	SC (US)
STAR	MAJIC	KUZA	ROCK HILL	SC (US)
STAR	RASLN	KUZA	ROCK HILL	SC (US)
STAR	SHINE	KUZA	ROCK HILL	SC (US)
STAR	UNARM	KUZA	ROCK HILL	SC (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 22

**DATE OF REVISION:** 08/17/2017

**REASON FOR REVISION:**

FIX USE: ADDED CLT KERMIT AND KNIGHTS SIDS.

THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 03/01/2017.

1. DELETED REFERENCE TO FAC 1 IN FIX USE FOR KERMIT AND KNIGHTS SIDS.
2. FIX USE: ADDED CLT BANKR AND PARQR RNAV STARS.

**DEVELOPED BY:**

**DATE:** 07/25/2016

**OFFICE:** AJV-5412

**NAME:** LIAM DONAHUE

**APPROVED BY:**

**DATE:**

**OFFICE:** AJV-5410

**NAME:** MARLON ROBINSON

*Digitally signed by*

**CASIMIR L TABAKA**

Apr 18, 2017

**SIGNATURE:**

**DISTRIBUTION:**

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

QUALITY  
17  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: DSTEE STATE: SC COUNTRY: US ICAO REGION CODE: K7  
 LATITUDE/LONGITUDE: 343055.22N/0795757.35W TYPE: DME

AIRSPACE DOCKET: FIX TYPE OF ACTION: ESTABLISH

**FIX MAKE-UP FACILITIES:**

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FAC FEET	MRA	MAA
1	FLORENCE	FLO	VORTAC	H	320.89	317.89	22.83	22.83		6000	17500

HOLDING: HOLDING TYPE OF ACTION: ESTABLISH

**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	FLO	VORTAC	140.89	320.89	L	4	6000 10000	6 10

**CONTROLLING OBSTRUCTIONS:**

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (45-000780)	343019.00N/0795417.00W	679	5D

**REASON FOR NONSTANDARD HOLDING:**

PAT 1 ATC REQUEST FOR LT AND 4 NM LEG IN LIEU OF TIME HOLDNG.

**HOLDING RESTRICTIONS:**

HOLDING LIMITED TO ESTABLISHED PATTERN.

**REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

**FIX USE:**

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	RASLN	1	1	KCLT	CHARLOTTE	NC (US)
STAR	RASLN	1	1	KAKH	GASTONIA	NC (US)
STAR	RASLN	1	1	KIPJ	LINCOLNTON	NC (US)
STAR	RASLN	1	1	KEQY	MONROE	NC (US)
STAR	RASLN	1	1	KEHO	SHELBY	NC (US)
STAR	RASLN	1	1	KAFF	WADESBORO	NC (US)
STAR	RASLN	1	1	KN52	WAXHAW	NC (US)
STAR	RASLN	1	1	KDCM	CHESTER	SC (US)
STAR	RASLN	1	1	KLKR	LANCASTER	SC (US)
STAR	RASLN	1	1	KUZA	ROCK HILL	SC (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG DATE OF REVISION: 08/17/2017

DEVELOPED BY: DATE: 03/17/2017 OFFICE: AJV-5422 NAME: DAVID DOWLING

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

*Digitally signed by*

**CASIMIR L TABAKA**

SIGNATURE:

Apr 18, 2017

**DISTRIBUTION:**

NFDC  
 FPO: EST  
 ARTCC: ZJX  
 ATC FACILITY: CLT APP CON  
 OTHER:



# RADIO FIX AND HOLDING DATA RECORD

NAME: FLORENCE VORTAC STATE: SC COUNTRY: US ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 341358.69N/0793925.78W 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	FLORENCE	FLO	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	SW	FLO	VORTAC	215.00	035.00	R	1-1 1/2	10000 45000	9 29
2	SE	FLO	VORTAC	140.00	320.00	R	1	2000 6000	4 5
3	SE	FLO	VORTAC	140.00	320.00	L	1-1 1/2	6000 31000	5 23
4	SE	WP	WP	135.38	315.38	L	10	13000 18000	15 17

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	TOWER (45-000081)	341618.00N/0794333.00W	948	1A
2	200	TOWER (45-000081)	341618.00N/0794333.00W	948	1A
3	200	TOWER (45-000081)	341618.00N/0794333.00W	948	1A
4	230	TOWER (45-000081)	341618.00N/0794333.00W	948	1A

## REASON FOR NONSTANDARD HOLDING:

PAT 3 ATC REQUEST  
PAT 4 ATC REQUEST

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

**INFORMATION ONLY**

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
10NM LEG LENGTH REQUESTED BY ATC.  
MAG VAR W03/1965.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	PANTHER			KVUJ	ALBEMARLE	NC (US)
DP	CHARLOTTE			KCLT	CHARLOTTE	NC (US)
DP	PANTHER			KCLT	CHARLOTTE	NC (US)
DP	PANTHER			KJQF	CONCORD	NC (US)
DP	MOUNTY			KFAY	FAYETTEVILLE	NC (US)
DP	PANTHER			KAKH	GASTONIA	NC (US)
DP	HICKORY			KHKY	HICKORY	NC (US)
DP	PANTHER			KIPJ	LINCOLNTON	NC (US)
DP	PANTHER			KEQY	MONROE	NC (US)
DP	FAYETTEVILLE			KRDU	RALEIGH/DURHAM	NC (US)
DP	PANTHER			KRUQ	SALISBURY	NC (US)
DP	PANTHER			KLKR	LANCASTER	SC (US)
DP	PANTHER			KUZA	ROCK HILL	SC (US)
EN ROUTE	J207		1			(US)
EN ROUTE	J4					(US)
EN ROUTE	J55					(US)
EN ROUTE	V139					(US)
EN ROUTE	V259					(US)
EN ROUTE	V3					(US)
EN ROUTE	V3-157					(US)
EN ROUTE	V437					(US)
EN ROUTE	V56					(US)
EN ROUTE	V56-157					(US)
IAP	ILS OR LOC/DME RWY 4			KFAY	FAYETTEVILLE	NC (US)
IAP	LOC BC RWY 22			KFAY	FAYETTEVILLE	NC (US)
IAP	VOR RWY 22			KFAY	FAYETTEVILLE	NC (US)
IAP	VOR RWY 28			KFAY	FAYETTEVILLE	NC (US)
IAP	VOR RWY 4			KFAY	FAYETTEVILLE	NC (US)
IAP	ILS OR LOC RWY 5			KLBT	LUMBERTON	NC (US)
IAP	ILS OR LOC RWY 5			KMEB	MAXTON	NC (US)
IAP	NDB RWY 7			KBBP	BENNETTSVILLE	SC (US)
IAP	NDB RWY 23			KUDG	DARLINGTON	SC (US)
IAP	RNAV (GPS) RWY 5			KUDG	DARLINGTON	SC (US)
IAP	VOR/DME-A		2	KUDG	DARLINGTON	SC (US)
IAP	VOR/DME OR GPS RWY 7			KDLC	DILLON	SC (US)
IAP	ILS OR LOC RWY 9			KFLO	FLORENCE	SC (US)
IAP	RNAV (GPS) RWY 27			KFLO	FLORENCE	SC (US)
IAP	RNAV (GPS) RWY 9			KFLO	FLORENCE	SC (US)
IAP	VOR OR TACAN-A			KFLO	FLORENCE	SC (US)

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IAP	NDB RWY 14		KCKI	KINGSTREE	SC (US)
IAP	VOR/DME-A		KMAO	MARION	SC (US)
IAP	ILS OR LOC/DME RWY 23		KSMS	SUMTER	SC (US)
STAR	STWRT		KAGS	AUGUSTA	GA (US)
STAR	KABEE (RNAV)	4	KVUJ	ALBEMARLE	NC (US)
STAR	RASLN	3	KCLT	CHARLOTTE	NC (US)
STAR	KABEE (RNAV)	4	KJQF	CONCORD	NC (US)
STAR	NASCR		KJQF	CONCORD	NC (US)
STAR	RASLN	3	KAKH	GASTONIA	NC (US)
STAR	BLOCC		KGSO	GREENSBORO	NC (US)
STAR	RASLN	3	KIPJ	LINCOLNTON	NC (US)
STAR	RASLN	3	KEQY	MONROE	NC (US)
STAR	BUZZY		KRDU	RALEIGH/DURHAM	NC (US)
STAR	MALNR (RNAV)		KRDU	RALEIGH/DURHAM	NC (US)
STAR	KABEE (RNAV)	4	KRUQ	SALISBURY	NC (US)
STAR	RASLN	3	KEHO	SHELBY	NC (US)
STAR	KABEE (RNAV)	4	KSVH	STATESVILLE	NC (US)
STAR	RASLN	3	KAFP	WADESBORO	NC (US)
STAR	RASLN	3	KN52	WAXHAW	NC (US)
STAR	RASLN	3	KDCM	CHESTER	SC (US)
STAR	RASLN	3	KLKR	LANCASTER	SC (US)
STAR	RASLN	3	KUZA	ROCK HILL	SC (US)

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

**COMPULSORY REPORTING POINT:** NO

**RECORD REVISION NUMBER:** 19

**DATE OF REVISION:** 08/17/2017

**REASON FOR REVISION:**

1. HOLDING PAT 3: CHANGED MINIMUM ALTITUDE FROM 5000 TO 6000; CHANGED MINIMUM TEMPLATE FROM 8 TO 5; CHANGED LEG LENGTH FROM 10 NM TO 1-1 1/2 MINUTES.
2. FIX USE: KHVS REMOVED RNAV (GPS) RWY 3; RNAV (GPS) RWY 21; AND NDB RWY 21 FROM FIX USE.
3. ADDED FACILITY MAG VAR IN REMARKS.

**DEVELOPED BY:**      **DATE:** 03/27/2017

**OFFICE:** AJV-5423

**NAME:** DION LANCIA (WILLIAM HANBY)

**APPROVED BY:**      **DATE:**

**OFFICE:** AJV-5420

**NAME:** JULIE MORGAN      *Digitally signed by*

**SIGNATURE:**

**CASIMIR L TABAKA**

Apr 18, 2017

**DISTRIBUTION:**      **NFDC**  
**FPO:** EST  
**ARTCC:** ZJX  
**ATC FACILITY:** FLO APP CON  
**OTHER:**



# RADIO FIX AND HOLDING DATA RECORD

NAME: RASLN

STATE: SC

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 344823.27N/0801714.60W

TYPE: WP, INT, DME

AIRSPACE DOCKET:

FIX TYPE OF ACTION: ESTABLISH

## FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FEET	MRA	MAA
1	FLORENCE	FLO	VORTAC	H	320.89	317.89	46.44	46.44		5500	23000
2	CHESTERFIELD	CTF	VOR/DME	L	359.23	356.23		9.36		5500	23000
3	CHARLOTTE	CLT	VOR/DME	L	129.88	124.88	40.01	40.01		3000	23000

## EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
FLO	VORTAC	R-321	47	5500	23000
CTF	VOR/DME	R-359	10	18000	23000
CLT	VOR/DME	R-130	41	3000	23000

## REMARKS:

FLORENCE (FAC 1) AND CHESTERFIELD (FAC 2) USED TO ESTABLISH FIX COORDINATES.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	RASLN	1, 2, 3		KCLT	CHARLOTTE	NC (US)
STAR	RASLN	1, 2, 3		KAKH	GASTONIA	NC (US)
STAR	RASLN	1, 2, 3		KIPJ	LINCOLNTON	NC (US)
STAR	RASLN	1, 2, 3		KEQY	MONROE	NC (US)
STAR	RASLN	1, 2, 3		KEHO	SHELBY	NC (US)
STAR	RASLN	1, 2, 3		KAFP	WADESBORO	NC (US)
STAR	RASLN	1, 2, 3		KN52	WAXHAW	NC (US)
STAR	RASLN	1, 2, 3		KDCM	CHESTER	SC (US)
STAR	RASLN	1, 2, 3		KLKR	LANCASTER	SC (US)
STAR	RASLN	1, 2, 3		KUZA	ROCK HILL	SC (US)

REQUIRED CHARTING: STAR, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG

DATE OF REVISION: 07/21/2016

DEVELOPED BY:

DATE: 01/15/2016

OFFICE: AJV-5411

NAME: BRIAN SHAFFER

Digitally signed by

APPROVED BY:

DATE: 05/16/2016

OFFICE: AJV-5410

NAME: MARLON ROBINSON

CASIMIR L TABAKA

Apr 18, 2017

SIGNATURE:

DISTRIBUTION:

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

**INFORMATION ONLY**

QUALITY  
17  
CHECKED

# RADIO FIX AND HOLDING DATA RECORD

NAME: RODEZ STATE: SC COUNTRY: US ICAO REGION CODE: K7  
 LATITUDE/LONGITUDE: 343838.23N/0800627.19W TYPE: DME

AIRSPACE DOCKET: FIX TYPE OF ACTION: ESTABLISH

## FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FAC FEET	MRA	MAA
1	FLORENCE	FLO	VORTAC	H	320.89	317.89	33.25	33.25		6000	17500

HOLDING: HOLDING TYPE OF ACTION: ESTABLISH

## 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	FLO	VORTAC	140.89	320.89	L	5	6000 10000	7 11

## CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (45-001220)	343139.00N/0800839.00W	848	5D

## REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST FOR LT AND 5 NM LEG IN LIEU OF TIMED HOLDING.

## HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERN.

## REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

## FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	RASLN	1	1	KCLT	CHARLOTTE	NC (US)
STAR	RASLN	1	1	KAKH	GASTONIA	NC (US)
STAR	RASLN	1	1	KIPJ	LINCOLNTON	NC (US)
STAR	RASLN	1	1	KEQY	MONROE	NC (US)
STAR	RASLN	1	1	KEHO	SHELBY	NC (US)
STAR	RASLN	1	1	KAFP	WADESBORO	NC (US)
STAR	RASLN	1	1	KN52	WAXHAW	NC (US)
STAR	RASLN	1	1	KDCM	CHESTER	SC (US)
STAR	RASLN	1	1	KLKR	LANCASTER	SC (US)
STAR	RASLN	1	1	KUZA	ROCK HILL	SC (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG DATE OF REVISION: 08/17/2017

DEVELOPED BY: DATE: 03/17/2017 OFFICE: AJV-5422 NAME: DAVID DOWLING

APPROVED BY: DATE: OFFICE: AJV-5420 NAME: JULIE MORGAN Digitally signed by CASIMIR L TABAKA

SIGNATURE: Apr 18, 2017

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

QUALITY  
17  
CHECKED