

RADIO FIX AND HOLDING DATA RECORD

NAME: CEDOX

STATE: NC

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 351553.64N/0810422.20W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: NO CHANGE

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	BTSEY (RNAV)			CLT	CHARLOTTE	NC (US)
STAR	FILPZ (RNAV)			CLT	CHARLOTTE	NC (US)
STAR	LIINN (RNAV)			CLT	CHARLOTTE	NC (US)
STAR	PARQR (RNAV)			CLT	CHARLOTTE	NC (US)
STAR	LIINN (RNAV)			AKH	GASTONIA	NC (US)
STAR	LIINN (RNAV)			IPJ	LINCOLNTON	NC (US)
STAR	LIINN (RNAV)			EQY	MONROE	NC (US)
STAR	LIINN (RNAV)			EHO	SHELBY	NC (US)
STAR	LIINN (RNAV)			AFP	WADESBORO	NC (US)
STAR	LIINN (RNAV)			N52	WAXHAW	NC (US)
STAR	LIINN (RNAV)			DCM	CHESTER	SC (US)
STAR	LIINN (RNAV)			LKR	LANCASTER	SC (US)
STAR	LIINN (RNAV)			UZA	ROCK HILL	SC (US)

REQUIRED CHARTING: STAR

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 5

DATE OF REVISION: 09/03/2026

REASON FOR REVISION:

1. FIX USE: ADDED BTSEY ONE RNAV STAR FOR CLT, ADDED LIINN RNAV STAR FOR AFP, CLT, EQY, DCM, AKH, N52, LKR, IPJ, UZA, EHO - NEW RNAV STAR DEVELOPED.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

NAME: TODD DAMRON

APPROVED BY:

DATE: 07/30/2026

OFFICE: AJV-A432

NAME: CASIMIR TABAKA

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: CLRRY

STATE: NC

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 354027.51N/0821101.15W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	LIINN (RNAV)			CLT	CHARLOTTE	NC (US)
STAR	LIINN (RNAV)			AKH	GASTONIA	NC (US)
STAR	LIINN (RNAV)			IPJ	LINCOLNTON	NC (US)
STAR	LIINN (RNAV)			EQY	MONROE	NC (US)
STAR	LIINN (RNAV)			EHO	SHELBY	NC (US)
STAR	LIINN (RNAV)			AFP	WADESBORO	NC (US)
STAR	LIINN (RNAV)			N52	WAXHAW	NC (US)
STAR	LIINN (RNAV)			DCM	CHESTER	SC (US)
STAR	LIINN (RNAV)			LKR	LANCASTER	SC (US)
STAR	LIINN (RNAV)			UZA	ROCK HILL	SC (US)

REQUIRED CHARTING: STAR, EN ROUTE LOW, EN ROUTE HIGH, CONTROLLER LOW, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 09/03/2026

REASON FOR REVISION:

1. FIX TYPE: DELETED INT AND DME AND ADDED WP.
2. FIX MAKE-UP FACILITIES: DELETED VXV, ODF, SUG, CLT AND ASSOCIATED ESV INFORMATION.
3. REMARKS: DELETED "VOLUNTEER (FAC 1) AND FOOTHILLS (FAC 2) USED TO ESTABLISH FIX COORDINATES."
4. FIX USE: REPLACED "STAR LIINN" WITH "STAR LIINN (RNAV)" AT AFP, AKH, CLT, DCM, EHO, EQY, IPJ, LKR, UZA, N52.
5. REQUIRED CHARTING: DELETED CONTROLLER AND ADDED CONTROLLER LOW/HIGH.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: PARNELL PRASSADA

APPROVED BY:

DATE: 07/30/2026

OFFICE: AJV-A432

NAME: CASIMIR TABAKA

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: JALIT STATE: NC COUNTRY: US ICAO REGION CODE: K7
 LATITUDE/LONGITUDE: 353335.53N/0815317.26W TYPE: WP

AIRSPACE DOCKET: FIX TYPE OF ACTION: MODIFY

HOLDING: HOLDING TYPE OF ACTION: NO CHANGE

FIX USE: USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	LIINN (RNAV)			CLT	CHARLOTTE	NC (US)
STAR	LIINN (RNAV)			AKH	GASTONIA	NC (US)
STAR	LIINN (RNAV)			IPJ	LINCOLNTON	NC (US)
STAR	LIINN (RNAV)			EQY	MONROE	NC (US)
STAR	LIINN (RNAV)			EHO	SHELBY	NC (US)
STAR	LIINN (RNAV)			AFP	WADESBORO	NC (US)
STAR	LIINN (RNAV)			N52	WAXHAW	NC (US)
STAR	LIINN (RNAV)			DCM	CHESTER	SC (US)
STAR	LIINN (RNAV)			LKR	LANCASTER	SC (US)
STAR	LIINN (RNAV)			UZA	ROCK HILL	SC (US)

REQUIRED CHARTING: STAR, EN ROUTE LOW, EN ROUTE HIGH, CONTROLLER LOW, CONTROLLER HIGH

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 DATE OF REVISION: 09/03/2026

REASON FOR REVISION:

1. FIX TYPE: DELETED INT AND DME AND ADDED WP.
2. FIX MAKE-UP FACILITIES: DELETED CLT, SUG, SOT AND ASSOCIATED ESV AND FIX RESTRICTION INFORMATION.
3. REMARKS: DELETED "CHARLOTTE (FAC 1) AND SUGARLOAF MOUNTAIN (FAC 2) USED TO ESTABLISH FIX COORDINATES."
4. FIX USE: REPLACED "STAR LIINN" WITH "STAR LIINN (RNAV)" AT AFP, AKH, CLT, DCM, EHO, EQY, IPJ, LKR, UZA, N52.
5. REQUIRED CHARTING: DELETED CONTROLLER AND ADDED CONTROLLER LOW/HIGH.

INITIATED BY:	DATE:	ORGANIZATION:	NAME:
OFFICE OF PRIMARY RESPONSIBILITY:		AJV-A432	NAME: PARNELL PRASSADA
APPROVED BY:	DATE: 07/30/2026	OFFICE: AJV-A432	NAME: CASIMIR TABAKA
SIGNATURE:			

RADIO FIX AND HOLDING DATA RECORD

NAME: LIINN

STATE: NC

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 352916.72N/0814213.87W

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 ALTITUDES MIN MAX	TEMPLATES MIN MAX
1	NW		WP	301.00	121.00	R	10	8000 18000	15 17

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION
1	230	AAO

COORDINATES

353406.00N/0820724.00W

ELEVATION

3449

ACCURACY CODE

4B

PRECIPITOUS TERRAIN ADDITIONS:

PAT	SPEED	ADDITION
1	230	90

REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.
PAT 1 10 NM LEG LENGTH PER ATC REQUEST.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	LIINN (RNAV)		1	CLT	CHARLOTTE	NC (US)
STAR	FILPZ (RNAV)		1	CLT	CHARLOTTE	NC (US)
STAR	LIINN (RNAV)		1	AKH	GASTONIA	NC (US)
STAR	LIINN (RNAV)		1	IPJ	LINCOLNTON	NC (US)
STAR	LIINN (RNAV)		1	EQY	MONROE	NC (US)
STAR	LIINN (RNAV)		1	EHO	SHELBY	NC (US)
STAR	LIINN (RNAV)		1	AFP	WADESBORO	NC (US)
STAR	LIINN (RNAV)		1	N52	WAXHAW	NC (US)
STAR	LIINN (RNAV)		1	DCM	CHESTER	SC (US)
STAR	LIINN (RNAV)		1	LKR	LANCASTER	SC (US)
STAR	LIINN (RNAV)		1	UZA	ROCK HILL	SC (US)

REQUIRED CHARTING: STAR, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2

DATE OF REVISION: 09/03/2026

REASON FOR REVISION:

1. FIX TYPE: DELETED INT AND DME.
2. FIX MAKE-UP FACILITIES: DELETED CLT AND BZM AND ASSOCIATED ESV INFORMATION.
3. HOLDING: DELETED PAT 1 AND ASSOCIATED INFORMATION.
4. HOLDING: RENAMED PAT 2 TO PAT 1 AND ASSIGNED IT TO ALL AIRPORTS.
- HOLDING: UPDATED PAT 1 CONTROLLING OBSTRUCTION AND ADDED PRECIPITOUS TERRAIN ADJUSTMENT; REVISED OBSTACLE IS 3449 FT AAO.
5. REMARKS: DELETED "CHARLOTTE (FAC 1) AND BARRETT'S MOUNTAIN (FAC 2) USED TO ESTABLISH FIX COORDINATES."
6. REMARKS: CHANGED FROM "PAT 2 - LEG LENGTH 10NM REQUESTED BY ATC" TO "PAT 1 10 NM LEG LENGTH PER ATC REQUEST."
7. FIX USE: REPLACED "STAR LIINN" WITH "STAR LIINN (RNAV)" AT AFP, AKH, CLT, DCM, EHO, EQY, IPJ, LKR, UZA, N52.
8. REQUIRED CHARTING: UPDATED FROM "CONTROLLER" TO "CONTROLLER LOW."

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: PARNELL PRASSADA

APPROVED BY:

DATE: 07/30/2026

OFFICE: AJV-A432

NAME: CASIMIR TABAKA

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: LOOIE

STATE: NC

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 354540.12N/0815634.99W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	LIINN (RNAV)			CLT	CHARLOTTE	NC (US)
STAR	LIINN (RNAV)			AKH	GASTONIA	NC (US)
STAR	LIINN (RNAV)			IPJ	LINCOLNTON	NC (US)
STAR	LIINN (RNAV)			EQY	MONROE	NC (US)
STAR	LIINN (RNAV)			EHO	SHELBY	NC (US)
STAR	LIINN (RNAV)			AFP	WADESBORO	NC (US)
STAR	LIINN (RNAV)			N52	WAXHAW	NC (US)
STAR	LIINN (RNAV)			DCM	CHESTER	SC (US)
STAR	LIINN (RNAV)			LKR	LANCASTER	SC (US)
STAR	LIINN (RNAV)			UZA	ROCK HILL	SC (US)

REQUIRED CHARTING: STAR, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 09/03/2026

REASON FOR REVISION:

1. FIX TYPE: DELETED INT AND DME AND ADDED WP.
2. FIX MAKE-UP FACILITIES: DELETED BZM AND HNV AND ASSOCIATED ESV INFORMATION.
3. FIX USE: REPLACED "STAR LIINN" WITH "STAR LIINN (RNAV)" AT AFP, AKH, CLT, DCM, EHO, EQY, IPJ, LKR, UZA, N52.
4. REQUIRED CHARTING: UPDATED FROM "CONTROLLER" TO "CONTROLLER LOW."

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: PARNELL PRASSADA

APPROVED BY:

DATE: 07/30/2026

OFFICE: AJV-A432

NAME: CASIMIR TABAKA

SIGNATURE:

RADIO FIX AND HOLDING DATA RECORD

NAME: VOLUNTEER VORTAC

STATE: TN

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 355417.42N/0835340.99W

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	VOLUNTEER	VXV	VORTAC	H						45000

FIX RESTRICTIONS:

MCA V136 5000 EASTBOUND

HOLDING:

HOLDING TYPE OF ACTION: MODIFY

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	NE		WP	056.00	236.00	L		6	4000 6000	7 8
2	NE	VXV	VORTAC	056.00	236.00	R	1		4100 6000	7 7

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	TOWER (47-000184)	360019.00N/0835623.00W	2849	3C
1	310	TOWER (47-000184)	360019.00N/0835623.00W	2849	3C
2	230	TOWER (47-000184)	360019.00N/0835623.00W	2849	3C
2	310	TOWER (47-000192)	360806.00N/0834329.00W	3049	1D

REASON FOR NONSTANDARD HOLDING:

PAT 1 ATC REQUEST

HOLDING RESTRICTIONS:

HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	RNAV (GPS) RWY 5R	KTYS	KNOXVILLE	TN (US)
2	RADAR-1	KTYS	KNOXVILLE	TN (US)

REMARKS:

HOLDING EVALUATED AT 230 KIAS TO SUPPORT MILITARY AIRCRAFT (KC-135) BASED AT KTYS.
 PAT 1 230 KIAS CONTROLLING OBSTACLE LIES IN SECONDARY AREA 9359 FT FROM EDGE OF PRIMARY.
 PRECIPITOUS TERRAIN EVALUATION COMPLETED.
 ASSIGNED FACILITY MAGVAR: 3 DEGREES W

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	ASHEVILLE			AVL	ASHEVILLE	NC (US)
DP	KINGS			TRI	BRISTOL/JOHNSON/KINGSPORT	TN (US)
DP	CHATTANOOGA			CHA	CHATTANOOGA	TN (US)
DP	TAKEOFF MINIMUMS			JAU	JACKSBORO	TN (US)
DP	KNOXVILLE			TYS	KNOXVILLE	TN (US)
DP	TAKEOFF MINIMUMS			MOR	MORRISTOWN	TN (US)
DP	NASHVILLE			BNA	NASHVILLE	TN (US)
DP	TAKEOFF MINIMUMS			GKT	SEVIERVILLE	TN (US)
EN ROUTE	J43					(US)
EN ROUTE	J46					(US)
EN ROUTE	J99					(US)
EN ROUTE	V115					(US)
EN ROUTE	V136					(US)
EN ROUTE	V16					(US)
EN ROUTE	V185					(US)
EN ROUTE	V384					(US)
EN ROUTE	V466					(US)
EN ROUTE	V519					(US)
EN ROUTE	V97					(US)
IAP	LOC RWY 26			DKX	KNOXVILLE	TN (US)
IAP	VOR-B			DKX	KNOXVILLE	TN (US)
IAP	HI-ILS OR LOC RWY 23L			TYS	KNOXVILLE	TN (US)
IAP	HI-ILS OR LOC RWY 23R			TYS	KNOXVILLE	TN (US)
IAP	HI-ILS OR LOC RWY 5L			TYS	KNOXVILLE	TN (US)
IAP	HI-VOR OR TACAN RWY 23R			TYS	KNOXVILLE	TN (US)
IAP	HI-VOR OR TACAN RWY 5L			TYS	KNOXVILLE	TN (US)
IAP	ILS OR LOC RWY 23L			TYS	KNOXVILLE	TN (US)
IAP	ILS OR LOC RWY 23R			TYS	KNOXVILLE	TN (US)
IAP	ILS OR LOC RWY 5L			TYS	KNOXVILLE	TN (US)
IAP	ILS RWY 23R (CAT II)			TYS	KNOXVILLE	TN (US)
IAP	ILS RWY 23R (SA CAT I)			TYS	KNOXVILLE	TN (US)
IAP	RADAR-1		2	TYS	KNOXVILLE	TN (US)

IAP	RNAV (GPS) RWY 5L	1	TYS	KNOXVILLE	TN (US)
IAP	RNAV (GPS) RWY 5R	1	TYS	KNOXVILLE	TN (US)
IAP	VOR RWY 23L		TYS	KNOXVILLE	TN (US)
IAP	VOR RWY 23R		TYS	KNOXVILLE	TN (US)
IAP	RNAV (GPS) RWY 23		MNV	MADISONVILLE	TN (US)
IAP	RNAV (GPS) RWY 10		GKT	SEVIERVILLE	TN (US)
IAP	VOR/DME RWY 10		GKT	SEVIERVILLE	TN (US)
STAR	JAKIE (RNAV)		CVG	COVINGTON	KY (US)
STAR	LIINN (RNAV)		CLT	CHARLOTTE	NC (US)
STAR	LIINN (RNAV)		AKH	GASTONIA	NC (US)
STAR	LIINN (RNAV)		IPJ	LINCOLNTON	NC (US)
STAR	LIINN (RNAV)		EQY	MONROE	NC (US)
STAR	LIINN (RNAV)		EHO	SHELBY	NC (US)
STAR	LIINN (RNAV)		AFP	WADESBORO	NC (US)
STAR	LIINN (RNAV)		N52	WAXHAW	NC (US)
STAR	JAKIE (RNAV)		I69	BATAVIA	OH (US)
STAR	JAKIE (RNAV)		LUK	CINCINNATI	OH (US)
STAR	JAKIE (RNAV)		HAO	HAMILTON	OH (US)
STAR	LIINN (RNAV)		DCM	CHESTER	SC (US)
STAR	LIINN (RNAV)		LKR	LANCASTER	SC (US)
STAR	LIINN (RNAV)		UZA	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: 34

DATE OF REVISION: 09/03/2026

REASON FOR REVISION:

1. HOLDING: UPDATED PAT 2 MAX TEMPLATE FROM 13 TO 7.
2. REMARKS: UPDATED " MAG VAR W03/1985" TO "ASSIGNED FACILITY MAGVAR: 3 DEGREES W."
3. FIX USE: REPLACED "STAR LIINN" WITH "STAR LIINN (RNAV)" AT AFP, AKH, CLT, DCM, EHO, EQY, IPJ, LKR, UZA, N52.

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: PARNELL PRASSADA

APPROVED BY:

DATE: 07/30/2026

OFFICE: AJV-A432

NAME: CASIMIR TABAKA

SIGNATURE:

INFORMATION ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: WUUTN

STATE: NC

COUNTRY: US

ICAO REGION CODE: K7

LATITUDE/LONGITUDE: 353719.85N/0821148.49W

TYPE: WP

AIRSPACE DOCKET:

FIX TYPE OF ACTION: MODIFY

HOLDING:

HOLDING TYPE OF ACTION: NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
STAR	LIINN (RNAV)			CLT	CHARLOTTE	NC (US)
STAR	LIINN (RNAV)			AKH	GASTONIA	NC (US)
STAR	LIINN (RNAV)			IPJ	LINCOLNTON	NC (US)
STAR	LIINN (RNAV)			EQY	MONROE	NC (US)
STAR	LIINN (RNAV)			EHO	SHELBY	NC (US)
STAR	LIINN (RNAV)			AFP	WADESBORO	NC (US)
STAR	LIINN (RNAV)			N52	WAXHAW	NC (US)
STAR	LIINN (RNAV)			DCM	CHESTER	SC (US)
STAR	LIINN (RNAV)			LKR	LANCASTER	SC (US)
STAR	LIINN (RNAV)			UZA	ROCK HILL	SC (US)

REQUIRED CHARTING: STAR, EN ROUTE LOW, CONTROLLER LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1

DATE OF REVISION: 09/03/2026

REASON FOR REVISION:

1. FIX TYPE: DELETED INT AND DME AND ADDED WP.
2. FIX MAKE-UP FACILITIES: DELETED SOT AND SUG AND ASSOCIATED ESV INFORMATION.
3. REMARKS: DELETED "SNOWBIRD (FAC 1) AND SUGARLOAF MOUNTAIN (FAC 2) USED TO ESTABLISH FIX COORDINATES."
4. FIX USE: REPLACED "STAR LIINN" WITH "STAR LIINN (RNAV)" AT AFP, AKH, CLT, DCM, EHO, EQY, IPJ, LKR, UZA, N52.
5. REQUIRED CHARTING: UPDATED FROM "CONTROLLER" TO "CONTROLLER LOW."

INITIATED BY:

DATE:

ORGANIZATION:

NAME:

OFFICE OF PRIMARY RESPONSIBILITY:

AJV-A432

NAME: PARNELL PRASSADA

APPROVED BY:

DATE: 07/30/2026

OFFICE: AJV-A432

NAME: CASIMIR TABAKA

SIGNATURE: