

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD TERMINAL ARRIVAL (STAR)

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL. Altitudes are minimum altitudes unless otherwise indicated.
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Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
JOOLS (RNAV)	TWO	JOOLS.JOOLS2	ONE	06/15/2023	14 MAY 2026

TRANSITION ROUTES:

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
THRSR	THRSR.JOOLS2	THRSR	THRSR						
			PENFI	089.93	59.66	11000	3300		
			HRTWL	067.75	62.55	11000	2300		
			ZELLE	066.62	12.77	11000	2200		
			JOOLS	066.74	17.92	11000	2200		
WANSА	WANSА.JOOLS2	WANSА	WANSА						
			JEENI	007.59	07.91	11000	2300		
			HRTWL	007.72	24.69	11000	2300		
			ZELLE	066.62	12.77	11000	2200		
			JOOLS	066.74	17.92	11000	2200		

ARRIVAL ROUTE DESCRIPTION:

CLT: FROM JOOLS ON TRACK 066.92/10.00 TO CHPTR.

LANDING RWY 1L, 36C/R: FROM CHPTR ON TRACK 067.02/4.00 TO CROSS KEGGG AT OR ABOVE 4000, THEN ON TRACK 070.00. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 18L/C, 19R: FROM CHPTR ON TRACK 041.12/17.08 TO CROSS WHDRW AT OR ABOVE 4000, THEN ON TRACK 050.00. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING DCM/EQY/UZA/AFP/N52/VUJ/LKR: FROM JOOLS ON TRACK 066.92/10.00 TO CHPTR, THEN ON TRACK 067.02/4.00 TO CROSS KEGGG AT OR ABOVE 4000, THEN ON TRACK 070.00. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING AKH/RUQ/EHO/JQF/IPJ: FROM JOOLS ON TRACK 066.92/10.00 TO CHPTR, THEN ON TRACK 041.12/17.08 TO CROSS WHDRW AT OR ABOVE 4000, THEN ON TRACK 050.00. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

PBN REQUIREMENT NOTES:

RNAV 1 - DME/DME/IRU OR GPS

EQUIPMENT REQUIREMENT NOTES:

RADAR REQUIRED

PROCEDURAL DATA NOTES:

FIXES AND/OR HOLDING PATTERNS:

CHART HOLDING AT HRTWL: HOLD SW, RT, 066.62 INBOUND, 10 NM LEGS.

CHART HOLDING AT JOOLS: HOLD SW, LT, 066.92 INBOUND, 10 NM LEGS.

COMMUNICATIONS:



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AIRPORTS SERVED:

<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
CLT	CHARLOTTE	NC
AFP	WADESBORO	NC
EQY	MONROE	NC
DCM	CHESTER	SC
JQF	CONCORD	NC
AKH	GASTONIA	NC
N52	WAXHAW	NC
LKR	LANCASTER	SC
IPJ	LINCOLNTON	NC
RUQ	SALISBURY	NC
UZA	ROCK HILL	SC
EHO	SHELBY	NC
VUJ	ALBEMARLE	NC

LOST COMMUNICATIONS PREFERENCES:REMARKS:

ABBREVIATED AMENDMENT

ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: SAT (RNP 2.0)

MAG VAR: CLT 07W/2000

CHART AT KEGGG TERMINUS: CLT LDG RWY 1L, 36C/R

CHART AT WHDRW TERMINUS: CLT LDG RWY 18L/C, 19R

CHART AT KEGGG TERMINUS: LDG AFP/DCM/EQY/LKR/N52/UZA/VUJ

CHART AT WHDRW TERMINUS: LDG AKH/EHO/IPJ/JQF/RUQ

CHART: USE CAUTION: PARACHUTE JUMPING 17 NM NE OF CHPTR, 3 NM RADIUS DCM (CHESTER-CATAWBA RGNL), AT OR BELOW 14500 MSL.

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FLIGHT INSPECTED BY:**ORGANIZATION:** **DATE:**

PROCESSED IAW TECHNICAL SUPPORT GROUP (AJF-17) MEMO DATED 07/07/2021, SUBJECT: GUIDANCE FOR PROCEDURAL CHANGES REQUIRING FLIGHT INSPECTION VALIDATION.

Flight Inspected Signature:

*Digitally signed by***CASIMIR L TABAKA***Digitally signed by* Mar 06, 2026**CASIMIR L TABAKA**

Mar 06, 2026

DEVELOPED BY:

GUY COPELAND

AJV-A432

11/16/2025

Developed By Signature:

APPROVED BY:

BEV BORDY

AJV-A430

Approved By Signature:

*Digitally signed by***CASIMIR L TABAKA**

Mar 06, 2026

CHANGES:

1. AMENDED RWY NUMBERS: CHANGED RWY 18R TO RWY 19R AND RWY 36L TO RWY 1L.
2. REMOVED CHARLOTTE APP CONTROL FROM COMMUNICATIONS.
3. REMOVED K IDENT FROM 17.1 FORM.
4. INCREASED MOCA VALUES.

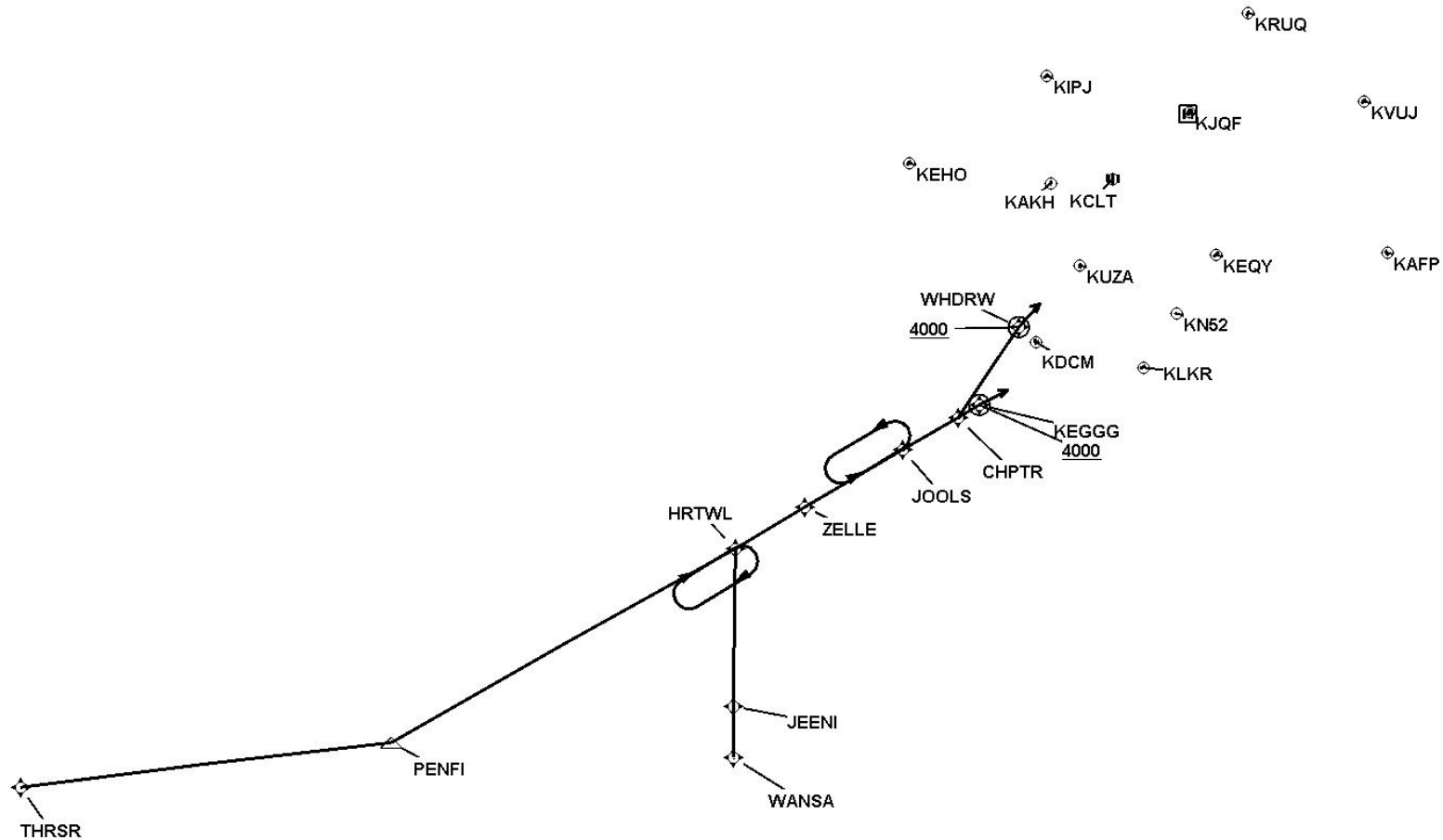
REASONS:

1. PHASE ONE OF THE CHARLOTTE AIRPORT RUNWAY RENUMBERING PROJECT.
2. APPROACH CONTROL AUTOMATICALLY CHARTED AND DOES NOT NEED TO BE DOCUMENTED IN THIS SECTION IAW 8260.19K 4-5-12F.
3. CURRENT DOCUMENTATION STANDARDS.
4. NEW OBSTACLE EVALUATION.

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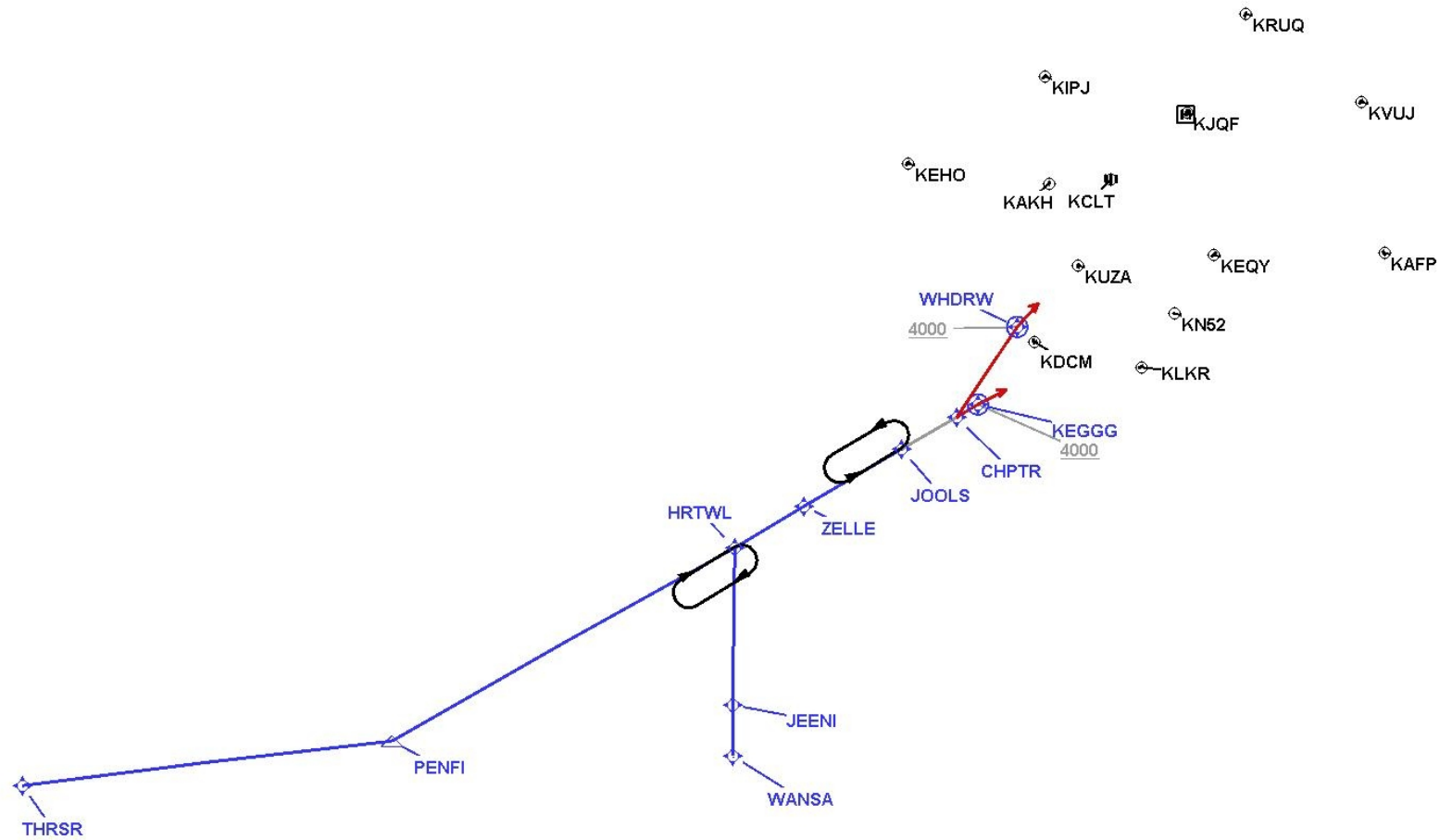
Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
JOOLS (RNAV)	TWO	JOOLS.JOOLS2	ONE	06/15/2023	14 MAY 2026
Graphic Depiction 1					



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Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
JOOLS (RNAV)	TWO	JOOLS.JOOLS2	ONE	06/15/2023	14 MAY 2026
Graphic Depiction 2					



**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STAR (DATA RECORD)**

Arrival Name JOOLS (RNAV)		Number TWO		STAR Computer Code JOOLS.JOOLS2		Superseded Number ONE		Dated 06/15/2023	Effective Date 14 MAY 2026
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
En Route Transition									
THRSR	333745.26N / 0842606.36W	Y		IF					THRSR.JOOLS2
PENFI	334445.98N / 0831506.14W	Y	FB	TF	082.93	59.66			
HRTWL	341505.33N / 0820915.55W	Y	FB	TF	060.75	62.55			
ZELLE	342132.78N / 0815557.14W	Y	FB	TF	059.62	12.77			
JOOLS	343034.01N / 0813713.32W	Y	FB	TF	059.74	17.92			
En Route Transition									
WANSA	334226.10N / 0820943.99W	Y		IF					WANSA.JOOLS2
JEENI	335021.72N / 0820938.11W	Y	FB	TF	000.59	07.91			
HRTWL	341505.33N / 0820915.55W	Y	FB	TF	000.72	24.69			
ZELLE	342132.78N / 0815557.14W	Y	FB	TF	059.62	12.77			
JOOLS	343034.01N / 0813713.32W	Y	FB	TF	059.74	17.92			
Common Route									
JOOLS	343034.01N / 0813713.32W	Y		IF					JOOLS.JOOLS2
CHPTR	343534.78N / 0812644.42W	Y	FB	TF	059.92	10.00			
Common Route									
JOOLS	343034.01N / 0813713.32W	Y		IF					JOOLS.JOOLS2
CHPTR	343534.78N / 0812644.42W	Y	FB	TF	059.92	10.00			
KEGGG	343734.84N / 0812232.51W	Y	FO	TF	060.02	04.00	AT/ABOVE 4000		
KAFP,KDCM,KEQY, KLKR,KN52,KUZA, KVUJ				FM	063.00				
Common Route									
JOOLS	343034.01N / 0813713.32W	Y		IF					JOOLS.JOOLS2
CHPTR	343534.78N / 0812644.42W	Y	FB	TF	059.92	10.00			



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Arrival Name JOOLS (RNAV)		Number TWO		STAR Computer Code JOOLS.JOOLS2		Superseded Number ONE		Dated 06/15/2023	Effective Date 14 MAY 2026
<u>FIX/NAVAID</u>	<u>LAT/LONG</u>	<u>C</u>	<u>FO/FB</u>	<u>LEG TYPE</u>	<u>TC</u>	<u>DIST (NM)</u>	<u>ALTITUDE</u>	<u>SPEED</u>	<u>REMARKS</u>
WHDRW	344943.82N / 0811506.33W	Y	FO	TF	034.12	17.08	AT/ABOVE 4000		
KAKH,KEHO,KIPJ, KJQF,KRUQ				FM	043.00				
Runway Transition									
CHPTR	343534.78N / 0812644.42W	Y		IF					
KEGGG	343734.84N / 0812232.51W	Y	FO	TF	060.02	04.00	AT/ABOVE 4000		
KCLT:RWY 1L,RWY 36C,RWY 36R				FM	063.00				
Runway Transition									
CHPTR	343534.78N / 0812644.42W	Y		IF					
WHDRW	344943.82N / 0811506.33W	Y	FO	TF	034.12	17.08	AT/ABOVE 4000		
KCLT:RWY 18C,RWY 18L,RWY 19R				FM	043.00				

