

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Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
CHSNE (RNAV)	THREE	CHSNE.CHSNE3	TWO	07/24/14	

TRANSITION ROUTES:

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
KISTS	KISTS.CHSNE3	KISTS	KISTS						
			DIERK	044.18	17.46	11000	2200		
			BNTLE	044.31	22.86	11000	2200		
			KNEEY	044.49	32.57	11000	2200		BETWEEN 15000 AND FL190
			CHSNE	072.07	10.64	11000	2100		AT/ABOVE 12000
LOPPY	LOPPY.CHSNE3	LOPPY	LOPPY						
			HUGHE	086.69	31.19	15000	2300		
			KNEEY	091.95	24.44	11000	2300		BETWEEN 15000 AND FL190
			CHSNE	072.07	10.64	11000	2100		AT/ABOVE 12000
MEMFS	MEMFS.CHSNE3	MEMFS	MEMFS						
			TPOPS	070.74	70.05	15000	2300		
			WITOS	071.50	27.46	15000	2300		
			KNEEY	071.76	24.07	11000	2300		BETWEEN 15000 AND FL190
			CHSNE	072.07	10.64	11000	2100		AT/ABOVE 12000

ARRIVAL ROUTE DESCRIPTION:

LANDING RWY 2L/C/R: FROM CHSNE ON TRACK 067.24/7.13 TO CROSS BAWLS AT OR BELOW 10000 AND AT 250 KIAS, THEN ON TRACK 104.28/13.96 TO CROSS MUUSC AT 7000 AND AT 210 KIAS, THEN ON TRACK 110.90. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 13: FROM CHSNE ON TRACK 079.94/34.72 TO CROSS CALYN AT 8000 AND AT 250 KIAS, THEN ON TRACK 022.63/6.09 TO BREDE, THEN ON TRACK 317.54/3.89 TO CROSS ALMEN AT 8000 AND AT 210 KIAS, THEN ON TRACK 317.54. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 20L/C/R: FROM CHSNE ON TRACK 069.57/28.80 TO CROSS WUGRL AT OR ABOVE 10000 AND AT 250 KIAS, THEN ON TRACK 069.89/6.00 TO CROSS NBORO AT OR ABOVE 9000 AND AT 230 KIAS, THEN ON TRACK 020.55/6.44 TO CROSS JOGLO AT 8000 AND AT 210 KIAS, THEN ON TRACK 020.55. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 31: FROM CHSNE ON TRACK 065.09/21.58 TO CROSS DUUGY AT OR ABOVE 10000 AND AT 250 KIAS, THEN ON TRACK 065.77/13.24 TO CROSS BGSTR AT 8000 AND AT 250 KIAS, THEN ON TRACK 119.69/5.35 TO CROSS TRKTR AT 8000 AND AT 210 KIAS, THEN ON TRACK 136.27. 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:

NOTE: JET AIRCRAFT ONLY

NOTE: LANDING NORTH USE RWY 2L TRANSITION, LANDING SOUTH USE RWY 20R TRANSITION.

NOTE: EXPECT TO RECEIVE LANDING DIRECTION AND DESCEND VIA CLEARENCE FROM MEMPHIS CENTER. EXPECT RWY ASSIGNMENT FROM NASHVILLE APPROACH PRIOR TO CHSNE.

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CHSNE (RNAV)	THREE	CHSNE.CHSNE3	TWO	07/24/14	

FIXES AND/OR HOLDING PATTERNS:

CHART HOLDING AT LOPPY: HOLD W, RT, 086.69 INBOUND, 10 NM LEGS.
CHART HOLDING AT TPOPS: HOLD W, RT, 070.05 INBOUND, 10 NM LEGS.
CHART HOLDING AT KNEEY: HOLD W, LT, 072.07 INBOUND, 10 NM LEGS.
CHART HOLDING AT DIERK: HOLD SW, RT, 044.31 INBOUND, 10 NM LEGS.

COMMUNICATIONS:

AIRPORTS SERVED:

<u>AIRPORT ID</u>	<u>CITY</u>	<u>STATE</u>
BNA	NASHVILLE	TN

LOST COMMUNICATIONS PREFERENCES:

REMARKS:

ENVIRONMENTAL REVIEW UNDER ORDER 1050.1 (LATEST EDITION) AND THE NOISE SCREENING HAVE BEEN ACCOMPLISHED.

ADDITIONAL FLIGHT DATA:

DME/DME ASSESSMENT: SAT (RNP 2.0)
MAG VAR: BNA 03W/2010
CHART AT JOGLO TERMINUS: BNA LDG RWY 20L/C/R
CHART AT ALMEN TERMINUS: BNA LDG RWY 13
CHART AT TRKTR TERMINUS: BNA LDG RWY 31
CHART AT MUUSC TERMINUS: BNA LDG RWY 2L/C/R

FLIGHT INSPECTED BY:

ORGANIZATION: **DATE:**

Flight Inspected Signature: _____

DEVELOPED BY:

JOEY TINSLEY, ESC OSG PBN CO-LEAD NATCA 09/26/24

Developed By Signature: _____

APPROVED BY:

Bev Bordy AJV-A420

Approved By Signature: _____

CHANGES:

1. REMOVED HRTUN AND TINCA EN ROUTE TRANSITIONS.
2. REPLACED MEM VORTAC WITH MEMFS WAYPOINT.

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CHSNE (RNAV)	THREE	CHSNE.CHSNE3	TWO	07/24/14	
3. KISTS TRANSITION: ADDED DIERK, BNTLE, AND KNEEY (BETWEEN 15000 AND FL 190 AND AT 280 KIAS). 4. ADDED HOLDING AT DIERK: HOLD SW, RT, 044.31 INBOUND, 10 NM LEGS. 5. ADDED NEW HOLDING AT LOPPY: HOLD W, 086.69 INBOUND, RT, 10 NM LEGS. 6. LOPPY TRANSITION: ADDED KNEEY (BETWEEN 15000 AND FL 190 AND AT 280 KIAS). 7. LOPPY TRANSITION: REMOVED AT/ABOVE FL210 ALTITUDE RESTRICTIONS AT HUGHE AND WITOS. 8. MEMFS TRANSITION: REMOVED AT/ABOVE FL210 ALTITUDE RESTRICTIONS AT WITOS. 9. MEMFS TRANSITION: ADDED TPOPS AND KNEEY (BETWEEN 15000 AND FL 190 AND AT 280 KIAS). 10. ADDED HOLDING AT TPOPS: HOLD W, RT, 070.05 INBOUND, 10 NM LEGS. 11. MEMFS TRANSITION: REMOVED AT/ABOVE FL210 ALTITUDE RESTRICTIONS AT WITOS. 12. ADDED HOLDING AT KNEEY: HOLD W, LT, 072.07 INBOUND, 10 NM LEGS. 13. AMENDED ALTITUDE RESTRICTION AT CHSNE FROM FL190-120 TO AT/ABOVE 12000. 14. DELETED HOLDING AT CHSNE. 15. DELETED COMMON ROUTE, AND REMOVED JATGO FROM STAR. 16. UPDATED ALL ARRIVAL ROUTE DESCRIPTIONS. 17. LANDING RWY 2L/C/R: ADDED MUUSC (AT 7000 AND AT 210 KIAS); CHANGED RESTRICTION AT BAWLS FROM AT/ABOVE 9000 TO AT/BELOW 10000 AND AT 250 KIAS; REMOVED FIXES AT OLNAB AND TUPIE. 18. LANDING RWY 13: ADDED FIXES BREDE, CALYN (AT 8000 AND AT 250 KIAS), AND ALMEN (AT 8000 AND AT 210 KIAS); REMOVED OLNAB AND PINSE. 19. LANDING RWY 20L/C/R: ADDED FIXES WUGRL (AT/ABOVE 10000 AND AT 250 KIAS), NBORO (AT/ABOVE 9000 AND AT 230 KIAS), AND JOGLO (AT 8000 AND AT 210 KIAS); REMOVED FIXES OLNAB, GDSTF, AND NUVOO. 20. LANDING RWY 31: ADDED FIXES DUUGY (AT/ABOVE 10000 AND AT 250 KIAS), AND TRKTR (AT 8000 AND AT 210 KIAS); MOVED BGSTR 8 NM NORTHWEST BETWEEN BUUGY AND TRKTR; REMOVED OLNAB, MLANI, TIKKI, BGEDD, RUNEE, AND IDOBE. 21. REMOVED MEAs FROM THE RUNWAY TRANSITIONS. 22. REMOVED CHART NOTE AT PINSE: LANDING RWY 13: AFTER PINSE, TRACK 040, EXPECT RADAR VECTORS TO FINAL APPROACH COURSE. 23. CHANGED TURBOJET NOTE TO REFLECT JET. 24. CONSOLIDATED CHART NOTES EXPECT TO RECEIVE LANDING DIRECTION (NORTH/SOUTH/NORTHWEST) AND "DESCEND VIA" CLEARANCE FROM MEMPHIS CENTER; NASHVILLE APPROACH WILL ISSUE LANDING RUNWAY TO READ NOTE: EXPECT TO RECEIVE LANDING DIRECTION AND DESCEND VIA CLEARANCE FROM MEMPHIS CENTER. EXPECT RWY ASSIGNMENT FROM NASHVILLE APPROACH PRIOR TO CHSNE. 25. CONSOLIDATED CHART NOTES LANDING SOUTH INDICATES RWY 20L/20C/20R. LANDING NORTH INDICATES RWY 2L/2C/2R. LANDING NORTHWEST INDICATES RWY 31. TO READ NOTE: LANDING NORTH USE RWY 02L TRANSITION, LANDING SOUTH USE RWY 20R TRANSITION. 26. LOWERED MEAs FROM LOPPY TO HUGHE FROM FL190 TO 15000. 27. ADDED MOCA VALUES TO ALL TRANSITION ROUTES. 28. REMOVED NOTES RNAV-1 AND DME/DME/IRU OR GPS REQUIRED FROM PROCEDURAL DATA NOTES AND ADDED NOTE RNAV 1 - DME/DME/IRU OR GPS TO PBN REQUIREMENT NOTES. 29. MOVED RADAR REQUIRED FROM PROCEDURAL DATA NOTES TO EQUIPMENT REQUIREMENT NOTES. 30. ADDED TERMINUS INFORMATION TO ADDITIONAL FLIGHT DATA FOR RWYS 20L/C/R, 13, 31, 2L/C/R. 31. RECOMMENDED NAVAID AND HOLDING INFORMATION REMOVED FROM 8260-17.2. 32. REMOVED NASHVILLE WEST APPROACH CONTROL (119.35/372.0) AND NASHVILLE INTL ATIS FROM COMMUNICATIONS. 33. REMOVED AIRPORT NAME FROM AIRPORTS SERVED AND ADDED AIRPORT ID; REMOVED K IDENT FROM 17.1 FORM.					

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CHSNE (RNAV)	THREE	CHSNE.CHSNE3	TWO	07/24/14	

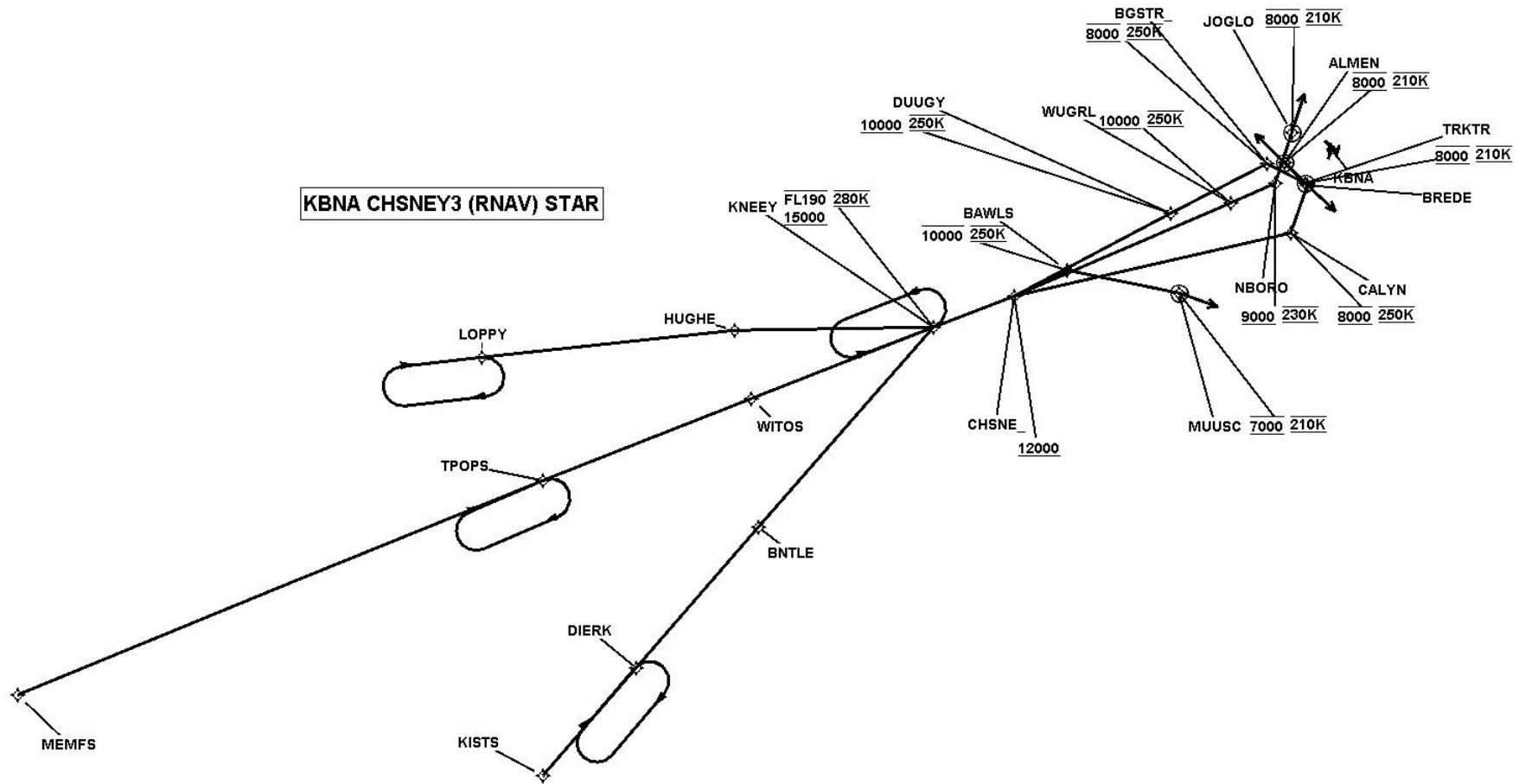
REASONS:

1. ATC REQUEST.
2. MEM VOR MON.
- 3-8. ATC REQUEST.
9. ATC REQUEST AND MITIGATE LEG LENGTH ERROR FROM NEW WAYPOINT KNEEY TO CHSNE.
- 10-22. ATC REQUEST.
23. DOCUMENTED IAW 8260.19J 4-5-12D(3)(a).
- 24-25. REDUCED CHART CLUTTER.
26. ADEQUATE DME/DME RESOLUTION.
27. MOCA VALUE ADDED IAW 8260.19J 4-5-12(B)8.
28. PBN REQUIREMENTS DOCUMENTED IAW 8260.19J PARA 4-5-3(D)1.
29. RADAR REQUIRED DOCUMENTED IAW 8260.19J PARA 4-5-12(D)2(b).
30. TERMINUS INFORMATION DOCUMENTED IAW 8260.19J 4-5-2(H)2.
31. NO LONGER REQUIRED.
32. APPROACH CONTROL AND ATIS AUTOMATICALLY CHARTED AND DO NOT NEED TO BE DOCUMENTED IN THIS SECTION IAW 8260.19J 4-5-12(F).
33. IAW CURRENT DOCUMENTATION STANDARDS.

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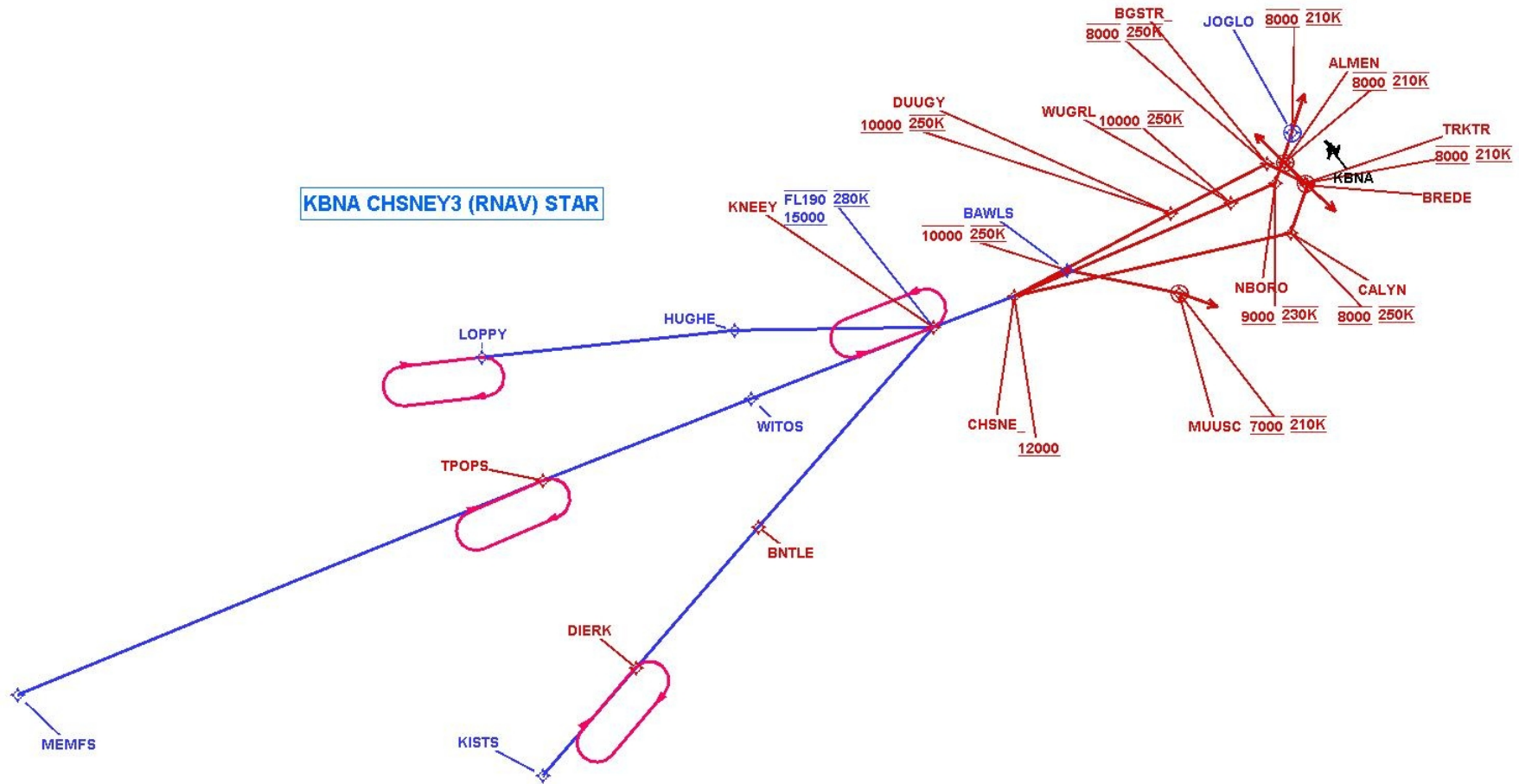
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CHSNE (RNAV)	THREE	CHSNE.CHSNE3	TWO	07/24/14	
Graphic Depiction 1					



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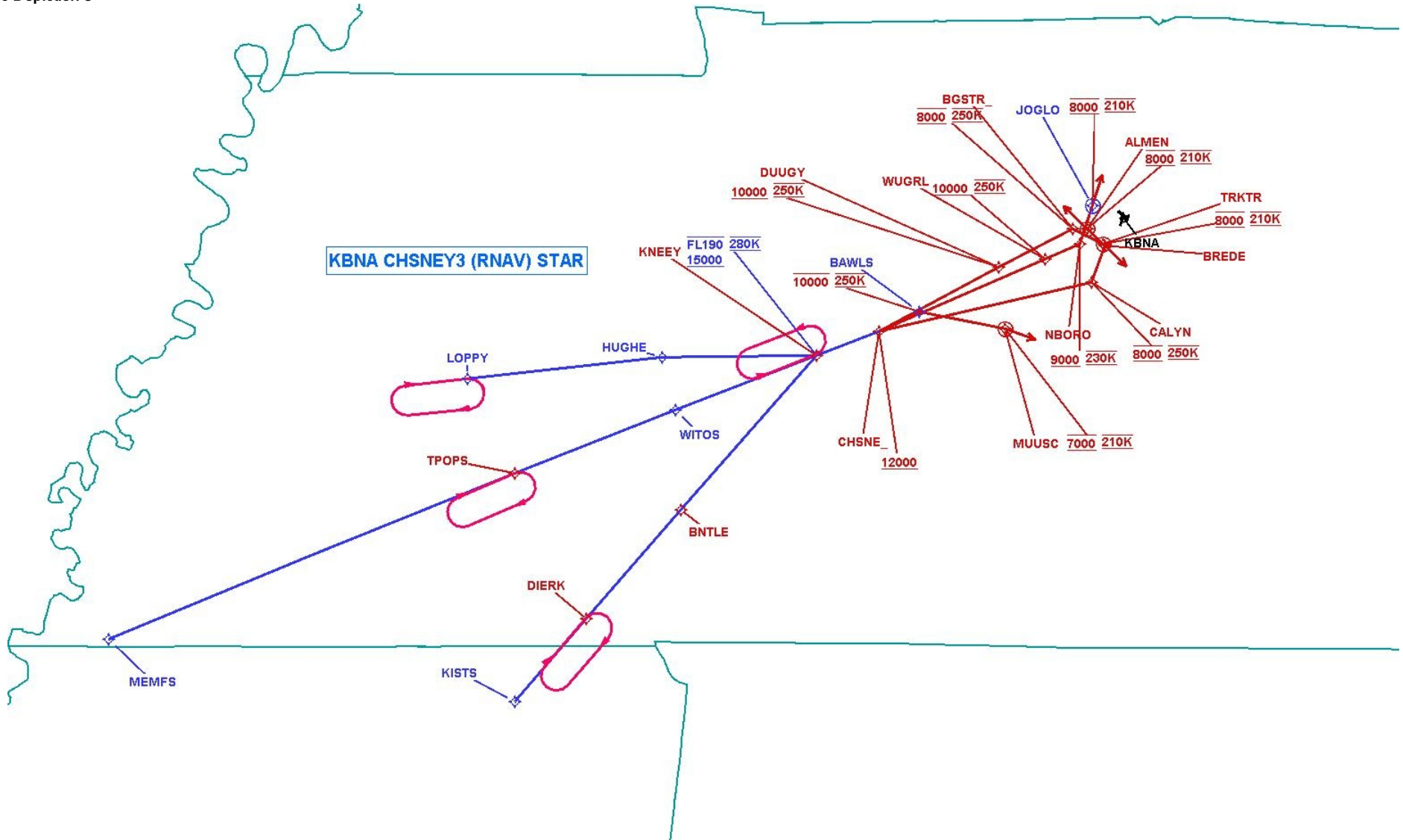
Arrival Name	Number	STAR Computer Code	Superseded Number	Dated	Effective Date
CHSNE (RNAV)	THREE	CHSNE.CHSNE3	TWO	07/24/14	
Graphic Depiction 2					



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CHSNE (RNAV)	THREE	CHSNE.CHSNE3	TWO	07/24/14	
Graphic Depiction 3					



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

Arrival Name CHSNE (RNAV)	Number THREE		STAR Computer Code CHSNE.CHSNE3		Superseded Number TWO		Dated 07/24/14		Effective Date
<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>
En Route Transition									
KISTS	345102.05N / 0883942.10W	Y		IF					KISTS.CHSNE3
DIERK	350411.24N / 0882541.61W	Y	FB	TF	041.18	17.46			
BNTLE	352121.94N / 0880714.44W	Y	FB	TF	041.31	22.86			
KNEEY	354545.14N / 0874043.77W	Y	FB	TF	041.49	32.57	15000BFL190	AT 280K	
CHSNE	354932.90N / 0872830.51W	Y	FB	TF	069.07	10.64	AT/ABOVE 12000		
En Route Transition									
LOPPY	354202.25N / 0884850.59W	Y		IF					LOPPY.CHSNE3
HUGHE	354522.06N / 0881045.49W	Y	FB	TF	083.69	31.19			
KNEEY	354545.14N / 0874043.77W	Y	FB	TF	088.95	24.44	15000BFL190	AT 280K	
CHSNE	354932.90N / 0872830.51W	Y	FB	TF	069.07	10.64	AT/ABOVE 12000		
En Route Transition									
MEMFS	350054.62N / 0895858.87W	Y		IF					MEMFS.CHSNE3
TPOPS	352703.56N / 0883938.01W	Y	FB	TF	067.74	70.05			
WITOS	353704.25N / 0880817.90W	Y	FB	TF	068.50	27.46			
KNEEY	354545.14N / 0874043.77W	Y	FB	TF	068.76	24.07	15000BFL190	AT 280K	
CHSNE	354932.90N / 0872830.51W	Y	FB	TF	069.07	10.64	AT/ABOVE 12000		
Runway Transition									
CHSNE	354932.90N / 0872830.51W	Y		IF			AT/ABOVE 12000		
BAWLS	355238.73N / 0872036.65W	Y	FB	TF	064.24	07.13	AT/BELOW 10000	AT 250K	
MUUSC	354953.41N / 0870346.14W	Y	FO	TF	101.28	13.96	AT 7000	AT 210K	
KBNA:RWY 2C,RWY 2L,RWY 2R				FM	107.90				
Runway Transition									
CHSNE	354932.90N / 0872830.51W	Y		IF			AT/ABOVE 12000		
CALYN	355717.27N / 0864650.62W	Y	FB	TF	076.94	34.72	AT 8000	AT 250K	

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

Arrival Name CHSNE (RNAV)		Number THREE		STAR Computer Code CHSNE.CHSNE3		Superseded Number TWO		Dated 07/24/14	Effective Date
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
BREDE	360301.87N / 0864419.22W	Y	FB	TF	019.63	06.09			
ALMEN	360545.87N / 0864744.62W	Y	FO	TF	314.54	03.89	AT 8000	AT 210K	
KBNA:RWY 13				FM	314.54				
Runway Transition									
CHSNE	354932.90N / 0872830.51W	Y		IF			AT/ABOVE 12000		
WUGRL	360056.54N / 0865556.14W	Y	FB	TF	066.57	28.80	AT/ABOVE 10000	AT 250K	
NBORO	360317.85N / 0864907.78W	Y	FB	TF	066.89	06.00	AT/ABOVE 9000	AT 230K	
JOGLO	360926.76N / 0864643.87W	Y	FO	TF	017.55	06.44	AT 8000	AT 210K	
KBNA:RWY 20C,RWY 20L,RWY 20R				FM	017.55				
Runway Transition									
CHSNE	354932.90N / 0872830.51W	Y		IF			AT/ABOVE 12000		
DUUGY	355937.52N / 0870500.72W	Y	FB	TF	062.09	21.58	AT/ABOVE 10000	AT 250K	
BGSTR	360540.64N / 0865029.27W	Y	FB	TF	062.77	13.24	AT 8000	AT 250K	
TRKTR	360316.05N / 0864435.44W	Y	FO	TF	116.69	05.35	AT 8000	AT 210K	
KBNA:RWY 31				FM	133.27				