

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. Ceilings are in feet above airport elevation. Distances are in nautical miles. Visibilities are in statute miles or feet RVR unless otherwise indicated.

Arrival Name <b>NITZR (RNAV)</b>	Number <b>FOUR</b>	STAR Computer Code <b>NITZR.NITZR4</b>	Superseded Number <b>THREE</b>	Dated <b>01/05/2017</b>	Effective Date
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**TRANSITION ROUTES:**

Transition Name	Transition Computer Codes	From FIX/NAVAID	To FIX/NAVAID	Course	Distance	MEA	MOCA	MAA	Crossing Altitudes / Fixes
DEMLL	DEMLL.NITZR4	DEMLL	DEMLL						AT/ABOVE 16000
			NITZR	004.71	13.30	8000	2600		AT/ABOVE 11000
ROKKK	ROKKK.NITZR4	ROKKK	ROKKK						
			FUZEE	029.69	16.31	13000	2800		
			RRAZZ	029.45	29.69	11000	2800		
			KBEEE	003.64	12.85	10000	2800		AT/ABOVE FL240
			DEMLL	003.65	28.14	8000	2800		AT/ABOVE 16000
			NITZR	004.71	13.30	8000	2600		AT/ABOVE 11000
RRAZZ	RRAZZ.NITZR4	RRAZZ	RRAZZ						
			KBEEE	003.64	12.85	10000	2800		AT/ABOVE FL240
			DEMLL	003.65	28.14	8000	2800		AT/ABOVE 16000
			NITZR	004.71	13.30	8000	2600		AT/ABOVE 11000

**ARRIVAL ROUTE DESCRIPTION:**

FROM NITZR ON TRACK 021.65/6.25 TO CROSS WRSWA AT OR ABOVE 11000 AND AT 280 KIAS, THEN ON TRACK 021.84/5.28 TO DAHRL.

LANDING RWY 4, 12R, 17, 22: FROM DAHRL ON TRACK 026.16/9.80 TO GDNEE, THEN ON TRACK 026.71/5.63 TO CROSS ELLKO AT OR ABOVE 11000 AND AT 250 KIAS, THEN ON TRACK 354.90/5.82 TO CROSS SAVVG AT 10000, THEN ON TRACK 328.34/8.02 TO CROSS GREAK AT 8000 AND AT 230 KIAS, THEN ON TRACK 301.32/2.25 TO CROSS TIETN AT 8000 AND AT 230 KIAS, THEN ON TRACK 301.32. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 12L: FROM DAHRL ON TRACK 026.16/9.80 TO GDNEE, THEN ON TRACK 026.71/5.63 TO CROSS ELLKO AT OR ABOVE 11000 AND AT 250 KIAS, THEN ON TRACK 354.90/5.82 TO CROSS SAVVG AT 10000, THEN ON TRACK 017.18/16.92 TO CROSS CMMOE AT 8000 AND AT 230 KIAS, THEN ON TRACK 300.77/2.47 TO CROSS FSCOT AT 8000 AND AT 230 KIAS, THEN ON TRACK 300.77. EXPECT RADAR VECTORS TO FINAL APPROACH COURSE.

LANDING RWY 30L/R: FROM DAHRL ON TRACK 026.93/2.00 TO CROSS AANAH AT OR ABOVE 9000, THEN ON TRACK 027.30/5.49 TO CROSS WBSTR AT 8000 AND AT 250 KIAS, THEN ON TRACK 056.15/14.10 TO CROSS CANDD AT 7000 AND AT 230 KIAS, THEN ON TRACK 035.87/1.63 TO CROSS HAPTN AT 7000 AND AT 210 KIAS. EXPECT RNAV (RNP), RNAV (GPS), OR ILS RWY 30L APPROACH OR RADAR VECTORS TO RWY 30L/R FINAL APPROACH COURSE.

LANDING RWY 35: FROM DAHRL ON TRACK 025.46/2.00 TO CROSS SHILD AT OR ABOVE 9000, THEN ON TRACK 026.35/7.80 TO GDNEE, THEN ON TRACK 022.86/1.50 TO CROSS NNEWW AT 7000 AND AT 210 KIAS. EXPECT RNAV (RNP), RNAV (GPS), OR ILS APPROACH OR RADAR VECTORS TO RWY 35 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: EXPECT "DESCEND VIA" CLEARANCE AND RUNWAY TRANSITION ASSIGNMENT BY CENTER. APPROACH WILL ASSIGN LANDING RUNWAY.

NOTE: JET AIRCRAFT DESCEND VIA MACH NUMBER UNTIL 280K, IF UNABLE, ADVISE ATC.



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**FIXES AND/OR HOLDING PATTERNS:**

CHART HOLDING AT DEMLL: HOLD S, RT, 003.65 INBOUND, 10 NM LEGS.

**COMMUNICATIONS:**

CHART: MINNEAPOLIS CENTER

**AIRPORTS SERVED:**

AIRPORT ID	CITY	STATE
MSP	MINNEAPOLIS	MN

**LOST COMMUNICATIONS PREFERENCES:**

**REMARKS:**

"DESCEND VIA" CLEARANCE VERBIAGE PER ATC REQUEST.

**ADDITIONAL FLIGHT DATA:**

DME/DME ASSESSMENT: SAT (RNP 2.0)

MAG VAR: MSP 00E/2015

CHART AT FSCOT TERMINUS: MSP LDG RWY 12L

CHART AT TIETN TERMINUS: MSP LDG RWY 4, 12R, 17, 22

CHART AT NNEWW TERMINUS: MSP LDG RWY 35

CHART AT HAPTN TERMINUS: MSP LDG RWY 30L/R

**FLIGHT INSPECTED BY:**

**ORGANIZATION:**    **DATE:**

Flight Inspected Signature: \_\_\_\_\_

**DEVELOPED BY:**

CASIMIR TABAKA (BARBARA GORMAN)    AJV-A432    02/03/2025

Developed By Signature: \_\_\_\_\_

**APPROVED BY:**

CASIMIR TABAKA    AJV-A430

Approved By Signature: \_\_\_\_\_

**CHANGES:**

1. TRANSITION ROUTES: UPDATED MEAS AND MOCAS; CROSSING ALTITUDE AT NITZR FROM AT/ABOVE 12000 TO AT/ABOVE 11000.
2. REMOVED MEAS AND MOCAS FROM ARRIVAL ROUTE DESCRIPTION.
3. ARRIVAL ROUTE DESCRIPTION: UPDATED "FROM NITZR ON TRACK 021.56/4.00 TO CROSS WRS AW AT OR ABOVE 11000, THEN ON TRACK 021.82/7.54 TO DAHRL" to "FROM NITZR ON TRACK 021.65/6.25 TO CROSS WRS AW AT OR ABOVE 11000 AND AT 280 KIAS, THEN ON TRACK 021.84/5.28 TO DAHRL."
4. LANDING RWY 4, 12R, 17, 22: REPLACED THEN ON TRACK "300.82/11.19 TO DOLEE, THEN ON TRACK 300.82" TO "301.32/2.25 TO CROSS TIETN AT 8000 AND AT 230 KIAS, THEN ON TRACK 301.32."



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<b>NITZR (RNAV)</b>	<b>FOUR</b>	<b>NITZR.NITZR4</b>	<b>THREE</b>	<b>01/05/2017</b>	
5. LANDING RWY 12L: UPDATED COURSE/DISTANCE TO CMMOE FROM 016.52/16.96 TO 017.18/16.92; UPDATED THEN ON TRACK "301.29/10.62 TO COZZZ, THEN ON TRACK 301.29" TO "300.77/2.47 TO CROSS FSCOT AT 8000 AND AT 230 KIAS, THEN ON TRACK 300.77." 6. LANDING RWY 30 L/R: UPDATED COURSE/DISTANCE TO AANAH FROM 026.93/4.26 TO 026.93/2.00, CHANGED ALTITUDE RESTRICTION FROM 10000 TO AT OR ABOVE 9000, REMOVED SPEED RESTRICTION. 7. LANDING RWY 30 L/R: UPDATED COURSE/DISTANCE TO WBSTR FROM 027.57/3.23 TO 027.30/5.49; CHANGED ALTITUDE RESTRICTION AT WBSTR FROM AT OR ABOVE 9000 TO 8000, ADDED 250K SPEED RESTRICTION. 8. LANDING RWY 30 L/R AND LANDING RWY 35: UPDATED VERBIAGE FROM "EXPECT RNAV(RNP), RNAV(GPS), OR ILS OR RADAR VECTORS TO FINAL APPROACH COURSE" TO "EXPECT RNAV (RNP), RNAV (GPS), OR ILS RWY 30L APPROACH OR RADAR VECTORS TO RWY 30L/R FINAL APPROACH COURSE." 9. LANDING RWY 35: CHANGED ALTITUDE RESTRICTION AT SHILD FROM 9000 TO AT OR ABOVE 9000 AND REMOVED SPEED RESTRICTION; ADDED 210 KIAS SPEED RESTRICTION AT NNEWW. 10. PROCEDURAL DATA NOTES: MOVED RADAR REQUIRED TO EQUIPMENT REQUIREMENT NOTES; COMBINED AND MOVED RNAV 1, DME/DME/IRU OR GPS REQUIRED TO PBN REQUIREMENT NOTES. 11. CHANGED TURBOJET TO JET IN SPEED CAPABILITY NOTE. 12. UPDATED NOTE: FROM "TURBOJET AIRCRAFT DESCEND VIA MACH NUMBER UNTIL INTERCEPTING 280K. MAINTAIN 280K UNTIL SLOWED BY THE STAR OR ASSIGNED BY ATC" TO "JET AIRCRAFT DESCEND VIA MACH NUMBER UNTIL 280K, IF UNABLE, ADVISE ATC." 13. REMOVED CHART: MINNEAPOLIS ARTCC, MSP ATIS, AND MSP APP CON. 14. ADDED AIRPORT ID AND REMOVED AIRPORT NAMES FROM AIRPORTS SERVED ALONG WITH K IDENT ON 17.1 FORM. 15. ADDED TERMINUS INFO TO ADDITIONAL FLIGHT DATA. 16. REMOVED RECOMMENDED NAVAID FROM 17.2 FORM.					

**REASONS:**

1. MEAS AMENDED TO LOWEST ALTITUDE THAT WILL PASS A DME/DME SCREEN AND MOCAS UPDATED TO CURRENT REQUIREMENTS; SEPARATE STAR FROM RWY 17 DEPARTURE TRAFFIC.
2. NO LONGER A REQUIREMENT.
3. FIX WRSWA MOVED TO CONNECT TO MSP IAPS.
4. FIX DOLEE REPLACED WITH FIX TIETN TO CONNECT TO MSP IAPS; TO MAINTAIN CURRENT TRACK AFTER TIETN.
5. FIX COMMOE MOVED; FIX COZZZ REPLACED WITH FIX FSCOT TO CONNECT TO MSP IAPS; TO MAINTAIN CURRENT TRACK AFTER FSCOT.
- 6/7. FIX AANAH MOVED; TO SEPARATE STAR FROM RWY 17 DEPARTURE TRAFFIC.
8. UPDATED VERBIAGE IAW 8260.19J.
9. TO SEPARATE STAR FROM RWY 17 DEPARTURE TRAFFIC; PER ATC REQUEST.
10. PER 8260.19J CRITERIA STANDARDS DOCUMENTATION.
11. IAW 8260.19J 4-5-12 D3(A).
12. IAW 8260.19J 4-5-2 F.
13. AUTOMATICALLY CHARTED IAW 8260.16J 4-5-12(F).
14. PER 8260.19J DOCUMENTATION STANDARDS.
15. 8260.19J 4-5-2 H(2).
16. CURRENT DOCUMENTATION STANDARDS.

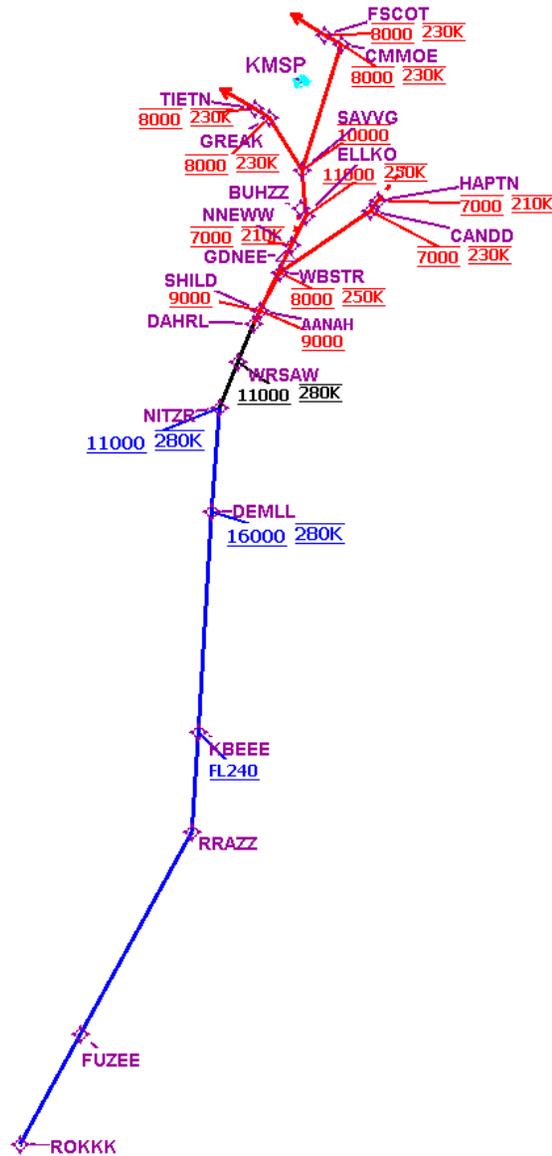


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Graphic Depiction 1



FEDERAL AVIATION ADMINISTRATION  
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 STAR (DATA RECORD)

Arrival Name NITZR (RNAV)	Number FOUR	STAR Computer Code NITZR.NITZR4		Superseded Number THREE		Dated 01/05/2017	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									
DEMLL	435755.00N / 0932929.00W	Y		IF			AT/ABOVE 16000	AT 280K	DEMLL.NITZR4
NITZR	441110.48N / 0932757.86W	Y	FB	TF	004.71	13.30	AT/ABOVE 11000	AT 280K	
En Route Transition									
ROKKK	423700.00N / 0940403.00W	Y		IF					ROKKK.NITZR4
FUZEE	425110.00N / 0935304.00W	Y	FB	TF	029.69	16.31			
RRAZZ	431700.00N / 0933305.00W	Y	FB	TF	029.45	29.69			
KBEEE	432949.83N / 0933157.68W	Y	FB	TF	003.64	12.85	AT/ABOVE FL240		
DEMLL	435755.00N / 0932929.00W	Y	FB	TF	003.65	28.14	AT/ABOVE 16000	AT 280K	
NITZR	441110.48N / 0932757.86W	Y	FB	TF	004.71	13.30	AT/ABOVE 11000	AT 280K	
En Route Transition									
RRAZZ	431700.00N / 0933305.00W	Y		IF					RRAZZ.NITZR4
KBEEE	432949.83N / 0933157.68W	Y	FB	TF	003.64	12.85	AT/ABOVE FL240		
DEMLL	435755.00N / 0932929.00W	Y	FB	TF	003.65	28.14	AT/ABOVE 16000	AT 280K	
NITZR	441110.48N / 0932757.86W	Y	FB	TF	004.71	13.30	AT/ABOVE 11000	AT 280K	
Common Route									
NITZR	441110.48N / 0932757.86W	Y		IF			AT/ABOVE 11000	AT 280K	NITZR.NITZR4
WRS AW	441659.22N / 0932445.16W	Y	FB	TF	021.65	06.25	AT/ABOVE 11000	AT 280K	
DAHRL	442153.52N / 0932200.75W	Y	FB	TF	021.84	05.28			
Runway Transition									
DAHRL	442153.52N / 0932200.75W	Y		IF					
GDNEE	443041.05N / 0931558.59W	Y	FB	TF	026.16	09.80			
ELLKO	443542.49N / 0931226.32W	Y	FB	TF	026.71	05.63	AT/ABOVE 11000	AT 250K	
SAVVG	444130.09N / 0931309.85W	Y	FB	TF	354.90	05.82	AT 10000		
GREAK	444819.40N / 0931904.57W	Y	FB	TF	328.34	08.02	AT 8000	AT 230K	



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Arrival Name NITZR (RNAV)	Number FOUR	STAR Computer Code NITZR.NITZR4		Superseded Number THREE		Dated 01/05/2017	Effective Date		
FIX/NAVAID	LAT/LONG	C	FO/FB	LEG TYPE	TC	DIST (NM)	ALTITUDE	SPEED	REMARKS
TIETN	444929.62N / 0932146.79W	Y	FO	TF	301.32	02.25	AT 8000	AT 230K	
KMSP:R04, R12R, R17, R22				FM	301.32				
Runway Transition									
DAHRL	442153.52N / 0932200.75W	Y		IF					
AANAH	442340.50N / 0932044.96W	Y	FB	TF	026.93	02.00	AT/ABOVE 9000		
WBSTR	442832.94N / 0931714.11W	Y	FB	TF	027.30	05.49	AT 8000	AT 250K	
CANDD	443622.81N / 0930050.94W	Y	FB	TF	056.15	14.10	AT 7000	AT 230K	
HAPTN	443742.13N / 0925930.61W	Y	FB	TF	035.87	01.63	AT 7000	AT 210K	
KMSP:R30L, R30R									
Runway Transition									
DAHRL	442153.52N / 0932200.75W	Y		IF					
GDNEE	443041.05N / 0931558.59W	Y	FB	TF	026.16	09.80			
ELLKO	443542.49N / 0931226.32W	Y	FB	TF	026.71	05.63	AT/ABOVE 11000	AT 250K	
SAVVG	444130.09N / 0931309.85W	Y	FB	TF	354.90	05.82	AT 10000		
CMMOE	445739.87N / 0930607.55W	Y	FB	TF	017.18	16.92	AT 8000	AT 230K	
FSCOT	445855.65N / 0930906.94W	Y	FO	TF	300.77	02.47	AT 8000	AT 230K	
KMSP:RWY 12L									
Runway Transition									
DAHRL	442153.52N / 0932200.75W	Y		IF					
SHILD	442341.72N / 0932048.89W	Y	FB	TF	025.46	02.00	AT/ABOVE 9000		
GDNEE	443041.05N / 0931558.59W	Y	FB	TF	026.35	07.80			
NNEWW	443203.98N / 0931509.71W	Y	FB	TF	022.86	01.50	AT 7000	AT 210K	
KMSP:RWY 35									

