

DME DME Assessment Results for BLUEM5 path FARBO_HAPTN

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Lisa A-CTR Thrysoe
Project File:	C:\Users\Lisa A-CTR Thrysoe\OneDrive - Federal Aviation Administration\Desktop\DME DME Screening\KMSP\STARS\KMSP BLUEM FIVE STAR\KMSP STAR BLUEM FIVE DME 241203.tgs
Output File:	C:\Users\Lisa A-CTR Thrysoe\OneDrive - Federal Aviation Administration\Desktop\DME DME Screening\KMSP\STARS\KMSP BLUEM FIVE STAR\KMSP [IFPA] BLUEM5 20250401_0807 EDT\FARBO_HAPTN\KMSP BLUEM5 RNAV STAR FARBO HAPTN 20250401_0807 EDT.pdf
Procedure Name:	BLUEM5
Software: DmeDmePlugin:	7.4.1
Date/Time:	04/01/2025 08:07 EDT
Databases:	MITRE 3DEP 3 arcsec

Failures

No Failures

Warnings

No Warnings

Informational

No Informational

Notes For Flight Check

None

Flight Plan

Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
FARBO	WP	N44° 22' 28.1300", W093° 12' 26.2200"	6000	VNAV	280	FLY_BY	TF
NOFLD	WP	N44° 25' 52.1500", W093° 11' 20.7000"	6000	VNAV	250	FLY_BY	TF
CANDD	WP	N44° 36' 22.8100", W093° 00' 50.9400"	6000	VNAV	230	FLY_BY	TF
HAPTN	WP	N44° 37' 42.1300", W092° 59' 30.6100"	6000	VNAV	210	FLY_BY	TF

Flyability

Flight Type:	RNAV STAR
Selected Airport:	KMSP [IFPA]
Climb Gradient:	None assigned
Speeds:	200 Ground Speed to 11000 FT
	240 Ground Speed to 18000 FT
	260 Ground Speed to 24000 FT
	340 Ground Speed above 24000 FT
Descent During a Turn:	Allowed
VNAV Mode:	Flight Plan

DME DME Assessment Results for BLUEM5 path FARBO_HAPTN

DME/DME	
RNP:	RNP 2
Flight Mode:	Manual
Line of Sight (DTED Level 0 Max):	Evaluated
Inertial Drift:	Enabled
Initial Drift:	0.558 NM
INS Drift Rate:	8.0 NM/Hour
Range Mode:	OSV
RNP Edges:	Evaluated
Min DME Range:	3.0 NM
DME Types:	DME, VOR-DME, VORTAC, TACAN
DME Include Angles:	30 to 150
Critical DMEs:	Allowed
DoD Facilities:	Not included
Foreign Facilities:	Not included
High DMEs:	Included
Low DMEs:	Included
Terminal DMEs:	Included
Flight Check DMEs:	Not selected
Higher Altitudes:	Not Evaluated
Near Maximum Altitude:	Not Evaluated
Automatic ESVs:	Not enabled
Disabled DMEs:	None

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	FNX	N43° 38' 15.9267", W094° 24' 47.5134"	0.0 E	130	DH		NO	Enabled	35.3 %	37 %
2	FCM	N44° 49' 31.2603", W093° 26' 33.6793"	1.0 E	40	L		NO	Enabled	83.7 %	83.9 %
3	RST	N43° 46' 58.4501", W092° 35' 49.0560"	5.0 E	130	DH		NO	Enabled	85.6 %	85.8 %
4	FGT	N44° 37' 51.4303", W093° 10' 55.3911"	6.0 E	130	H		NO	Enabled	28.2 %	27 %
5	GEP	N45° 08' 44.4656", W093° 22' 23.4514"	6.0 E	130	H		NO	Enabled	18.1 %	17.1 %
6	MSP	N44° 53' 47.0000", W093° 14' 12.0000"	0.0 E	130	DH		NO	Enabled	63.1 %	63.6 %
7	FOW	N44° 12' 16.0000", W093° 22' 13.8000"	2.0 E	25	T		NO	Enabled	66.8 %	68 %

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	FNX	RST	FOW	FCM	MSP	
6.7	FOW	FCM	RST			
10.7	FOW	FCM	FGT	RST	MSP	
12.2	FOW	FCM	RST	MSP		
12.3						
14.8	FGT	RST	MSP			
15.0	FGT	RST	GEP	MSP		
15.2	FGT	RST	GEP	MSP	FCM	

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N44° 33' 03.9380", W093° 04' 10.0421"	N44° 35' 05.2953", W093° 02' 08.6009"	2.4869

DME DME Assessment Results for BLUEM5 path FARBO_HAPTN

Available DMEs by Waypoints

Waypoint Before	Waypoint After	DME List	Suggested DMEs
FARBO	NOFLD	FNX, FCM, RST, MSP, FOW	
NOFLD	CANDD	FNX, FCM, RST, FGT, GEP, MSP, FOW	
CANDD	HAPTN	FCM, RST, FGT, GEP, MSP	

User Data Files

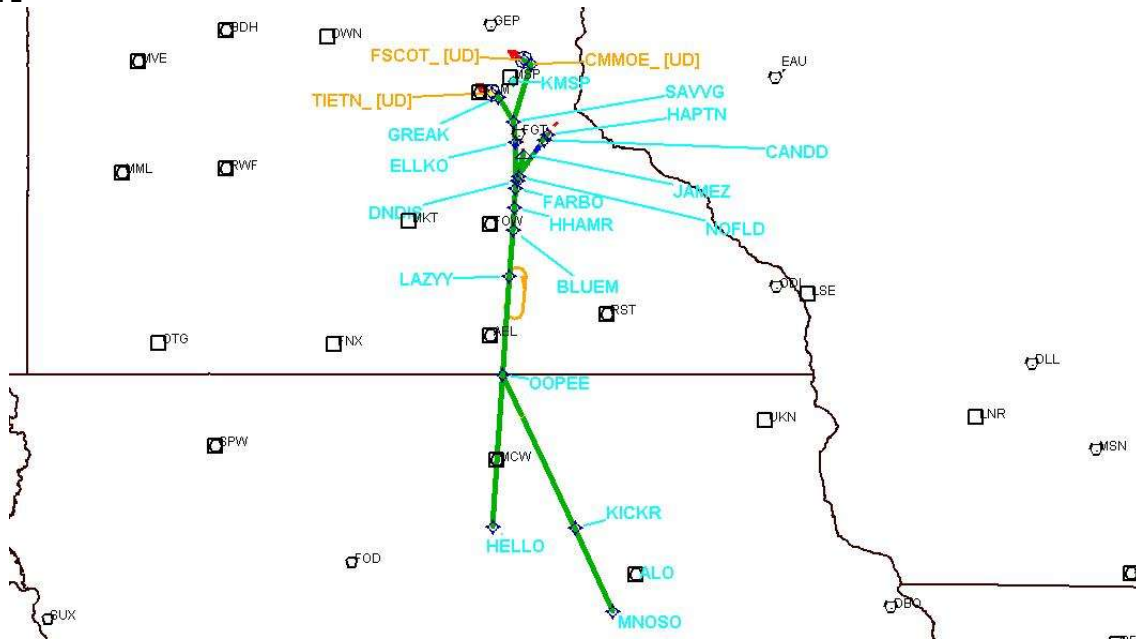
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User DMEs

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	FOD FAA 694114-14 FOD	N42° 36' 40.0499", W094° 17' 41.3381"	7.0 E	130	1163.9	null	FOD FAA 694114-14	
ESV:		Bearing [True]: 26.0° to 87.0° Bearing [Mag]: 19.0° to 80.0°				Arc Distance: Out to 87.0 NM Altitude: 8000.0 to 15700.0 ft		
2	MCW FAA 704189-16 MCW	N43° 05' 41.1255", W093° 19' 47.5405"	6.0 E	130	1208.6	114.9	MCW FAA 704189-16	
ESV:		Bearing [True]: 125.0° to 150.0° Bearing [Mag]: 119.0° to 144.0°				Arc Distance: Out to 90.0 NM Altitude: 6000.0 to 15800.0 ft		
3	CID FAA 931932-12 CID	N41° 53' 15.1721", W091° 47' 08.6961"	5.0 E	130	876.2	114.1	CID FAA 931932-12	
ESV:		Bearing [True]: 304.0° to 326.0° Bearing [Mag]: 299.0° to 321.0°				Arc Distance: Out to 76.0 NM Altitude: 8000.0 to 15400.0 ft		

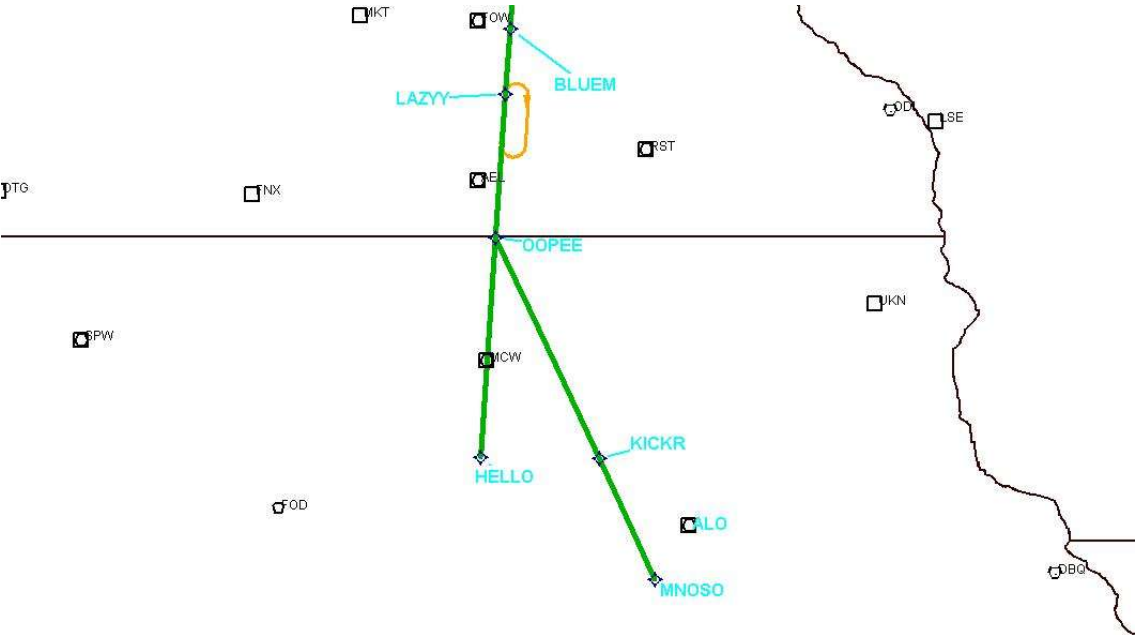


Graphic Depiction 1



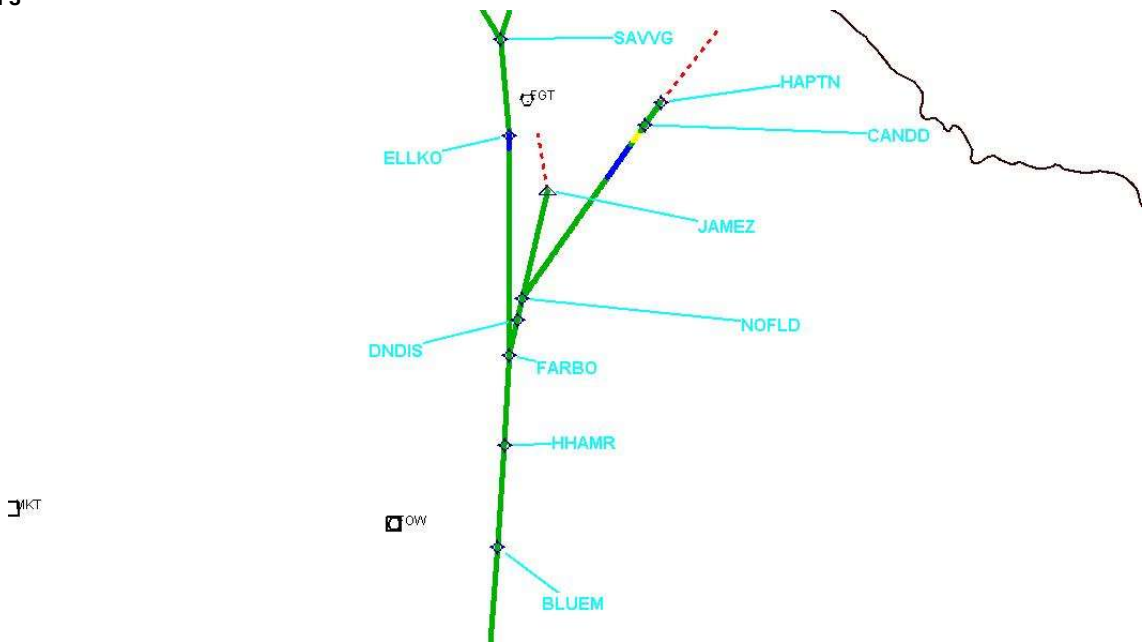
DME DME Assessment Results for BLUEM5 path FARBO_HAPTN

Graphic Depiction 2



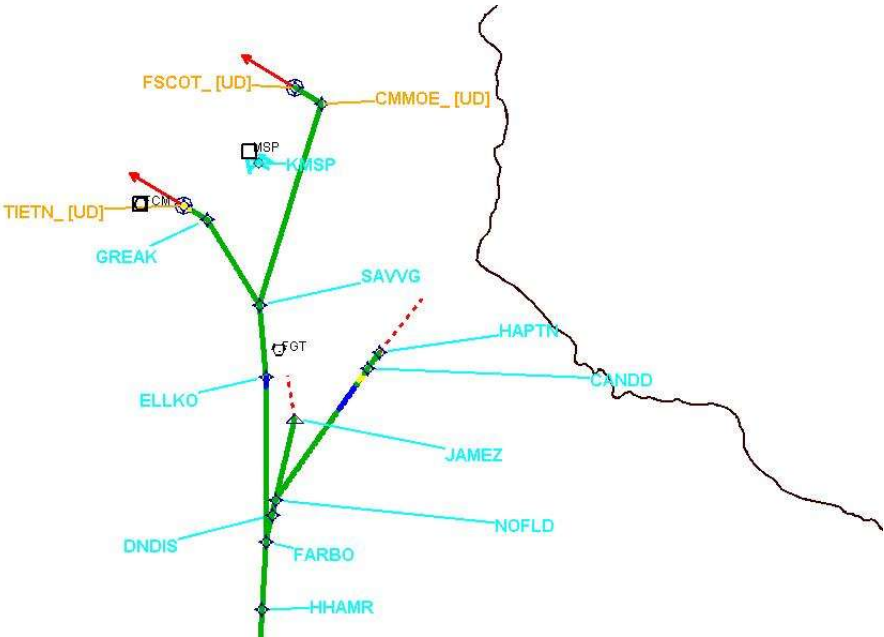
DME DME Assessment Results for BLUEM5 path FARBO_HAPTN

Graphic Depiction 3



DME DME Assessment Results for BLUEM5 path FARBO_HAPTN

Graphic Depiction 4



DME DME Assessment Results for BLUEM5 path FARBO_JAMEZ

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Lisa A-CTR Thrysoe
Project File:	C:\Users\Lisa A-CTR Thrysoe\OneDrive - Federal Aviation Administration\Desktop\DME DME Screening\KMSP\STARS\KMSP BLUEM FIVE STAR\KMSP STAR BLUEM FIVE DME 241203.tgs
Output File:	C:\Users\Lisa A-CTR Thrysoe\OneDrive - Federal Aviation Administration\Desktop\DME DME Screening\KMSP\STARS\KMSP BLUEM FIVE STAR\KMSP [IFPA] BLUEM5 20250401_0807 EDT\FARBO_JAMEZ\KMSP BLUEM5 RNAV STAR FARBO JAMEZ 20250401_0807 EDT.pdf
Procedure Name:	BLUEM5
Software: DmeDmePlugin:	7.4.1
Date/Time:	04/01/2025 08:07 EDT
Databases:	MITRE 3DEP 3 arcsec

Failures

No Failures

Warnings

No Warnings

Informational

No Informational

Notes For Flight Check

None

Flight Plan

Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
FARBO	WP	N44° 22' 28.1300", W093° 12' 26.2200"	6000	VNAV	280	FLY_BY	TF
DNDIS	WP	N44° 24' 37.2100", W093° 11' 43.5500"	6000	VNAV	230	FLY_BY	TF
JAMEZ	WP	N44° 32' 24.2300", W093° 09' 08.7200"	6000	VNAV	210	FLY_BY	TF

Flyability

Flight Type:	RNAV_STAR
Selected Airport:	KMSP [IFPA]
Climb Gradient:	None assigned
Speeds:	200 Ground Speed to 11000 FT
	240 Ground Speed to 18000 FT
	260 Ground Speed to 24000 FT
	340 Ground Speed above 24000 FT
Descent During a Turn:	Allowed
VNAV Mode:	Flight Plan

DME DME Assessment Results for BLUEM5 path FARBO_JAMEZ

DME/DME	
RNP:	RNP 2
Flight Mode:	Manual
Line of Sight (DTED Level 0 Max):	Evaluated
Inertial Drift:	Enabled
Initial Drift:	0.558 NM
INS Drift Rate:	8.0 NM/Hour
Range Mode:	OSV
RNP Edges:	Evaluated
Min DME Range:	3.0 NM
DME Types:	DME, VOR-DME, VORTAC, TACAN
DME Include Angles:	30 to 150
Critical DMEs:	Allowed
DoD Facilities:	Not included
Foreign Facilities:	Not included
High DMEs:	Included
Low DMEs:	Included
Terminal DMEs:	Included
Flight Check DMEs:	Not selected
Higher Altitudes:	Not Evaluated
Near Maximum Altitude:	Not Evaluated
Automatic ESVs:	Not enabled
Disabled DMEs:	None

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	FNX	N43° 38' 15.9267", W094° 24' 47.5134"	0.0 E	130	DH		NO	Enabled	52.8 %	54.6 %
2	FCM	N44° 49' 31.2603", W093° 26' 33.6793"	1.0 E	40	L		NO	Enabled	100 %	100 %
3	RST	N43° 46' 58.4501", W092° 35' 49.0560"	5.0 E	130	DH		NO	Enabled	100 %	100 %
4	MSP	N44° 53' 47.0000", W093° 14' 12.0000"	0.0 E	130	DH		NO	Enabled	52.8 %	54.6 %
5	FOW	N44° 12' 16.0000", W093° 22' 13.8000"	2.0 E	25	T		NO	Enabled	100 %	100 %

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	FNX	RST	FOW	FCM	MSP	
5.6	FOW	RST	FCM			

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
FARBO	DNDIS	FNX, FCM, RST, MSP, FOW	
DNDIS	JAMEZ	FNX, FCM, RST, MSP, FOW	

DME DME Assessment Results for BLUEM5 path FARBO_JAMEZ

User Data Files

File Name

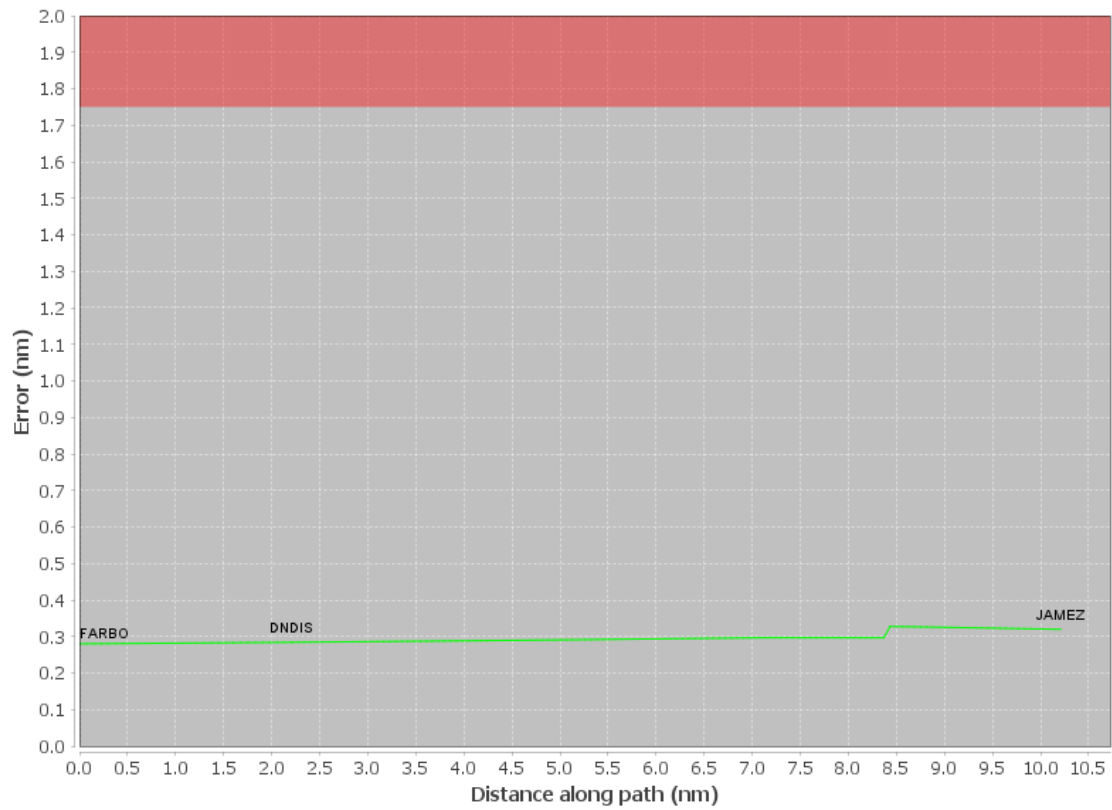
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User DMEs

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	FOD FAA 694114-14 FOD	N42° 36' 40.0499", W094° 17' 41.3381"	7.0 E	130	1163.9	null	FOD FAA 694114-14	
ESV:		Bearing [True]: 26.0° to 87.0° Bearing [Mag]: 19.0° to 80.0°				Arc Distance: Out to 87.0 NM Altitude: 8000.0 to 15700.0 ft		
2	MCW FAA 704189-16 MCW	N43° 05' 41.1255", W093° 19' 47.5405"	6.0 E	130	1208.6	114.9	MCW FAA 704189-16	
ESV:		Bearing [True]: 125.0° to 150.0° Bearing [Mag]: 119.0° to 144.0°				Arc Distance: Out to 90.0 NM Altitude: 6000.0 to 15800.0 ft		
3	CID FAA 931932-12 CID	N41° 53' 15.1721", W091° 47' 08.6961"	5.0 E	130	876.2	114.1	CID FAA 931932-12	
ESV:		Bearing [True]: 304.0° to 326.0° Bearing [Mag]: 299.0° to 321.0°				Arc Distance: Out to 76.0 NM Altitude: 8000.0 to 15400.0 ft		

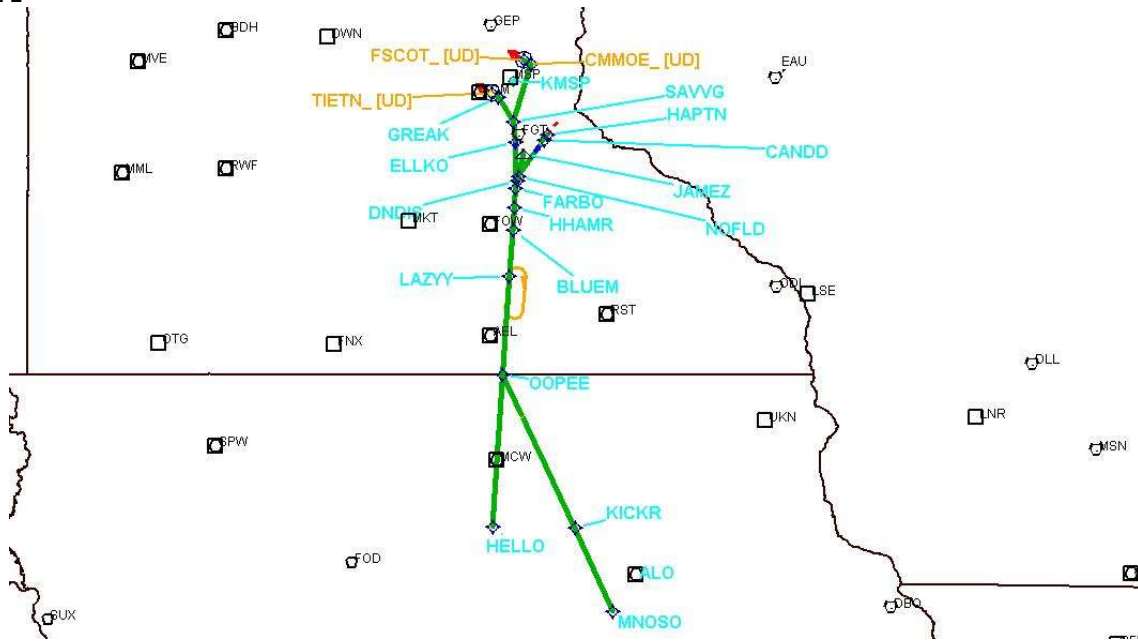
DME DME Assessment Results for BLUEM5 path FARBO_JAMEZ

DME Error



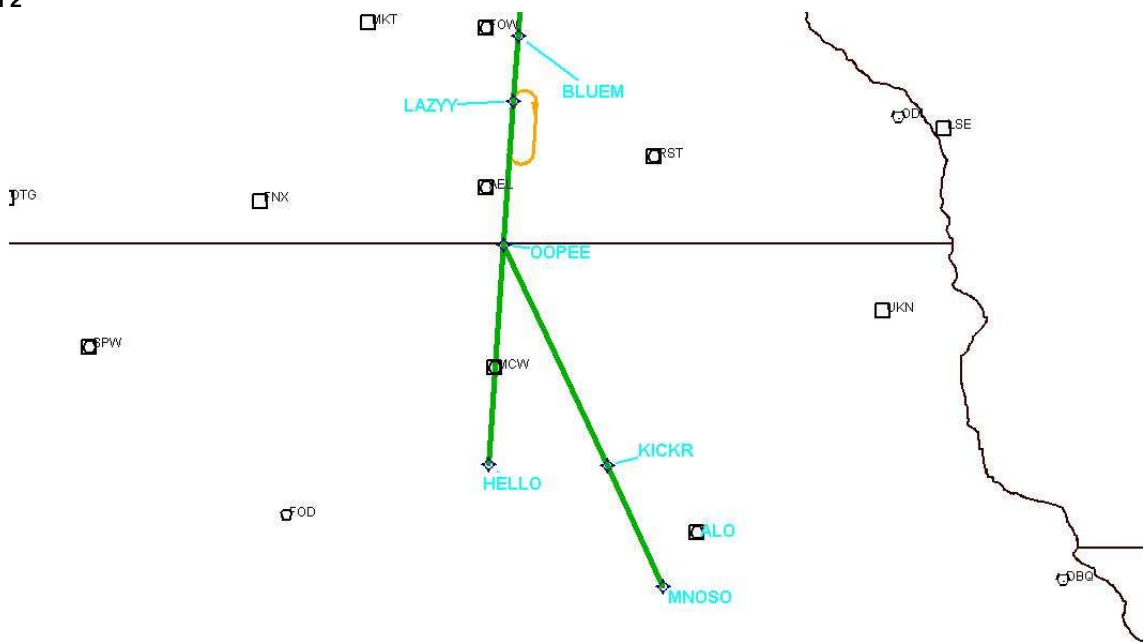
DME DME Assessment Results for BLUEM5 path FARBO_JAMEZ

Graphic Depiction 1



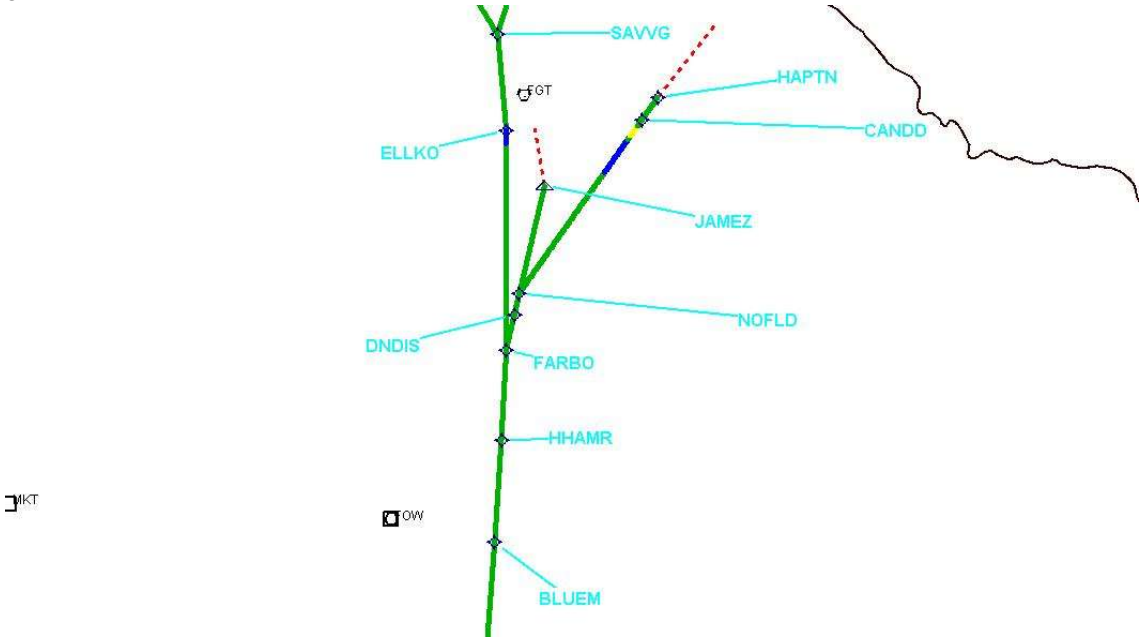
DME DME Assessment Results for BLUEM5 path FARBO_JAMEZ

Graphic Depiction 2



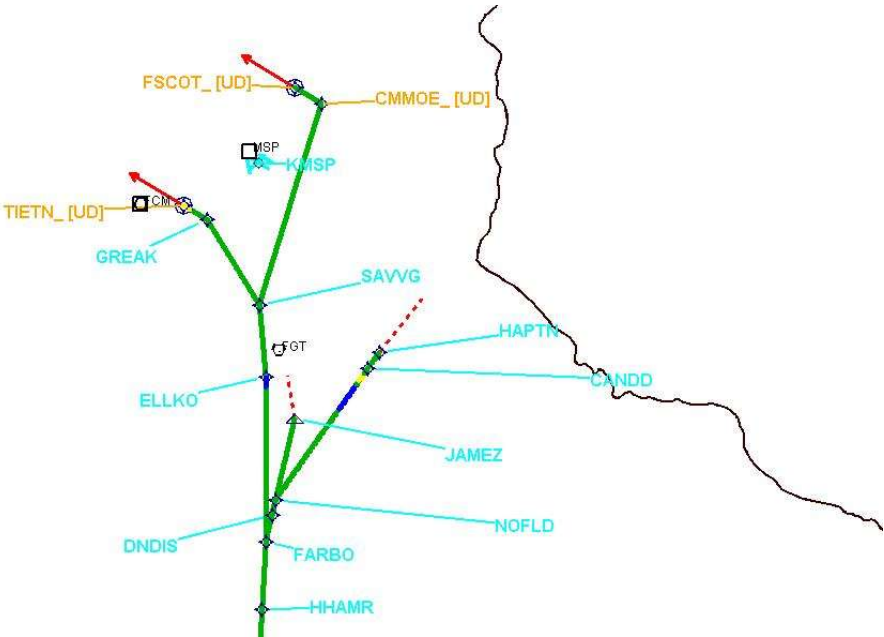
DME DME Assessment Results for BLUEM5 path FARBO_JAMEZ

Graphic Depiction 3



DME DME Assessment Results for BLUEM5 path FARBO_JAMEZ

Graphic Depiction 4



DME DME Assessment Results for BLUEM5 path HELLO_OOPEE

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Lisa A-CTR Thrysoe
Project File:	C:\Users\Lisa A-CTR Thrysoe\OneDrive - Federal Aviation Administration\Desktop\DME DME Screening\KMSP\STARS\KMSP BLUEM FIVE STAR\KMSP STAR BLUEM FIVE DME 241203.tgs
Output File:	C:\Users\Lisa A-CTR Thrysoe\OneDrive - Federal Aviation Administration\Desktop\DME DME Screening\KMSP\STARS\KMSP BLUEM FIVE STAR\KMSP [IFPA] BLUEM5 20250401_0807 EDT\HELLO_OOPEE\KMSP BLUEM5 RNAV STAR HELLO OOPEE 20250401_0807 EDT.pdf
Procedure Name:	BLUEM5
Software: DmeDmePlugin:	7.4.1
Date/Time:	04/01/2025 08:07 EDT
Databases:	MITRE 3DEP 3 arcsec

Failures

No Failures

Warnings

No Warnings

Informational

No Informational

Notes For Flight Check

None

Flight Plan

Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
HELLO	WP	N42° 46' 51.0000", W093° 21' 35.0000"	8000	VNAV	280	FLY_BY	TF
OOPEE	WP	N43° 29' 50.0000", W093° 17' 32.0000"	8000	VNAV	280	FLY_BY	TF

Flyability

Flight Type:	RNAV_STAR
Selected Airport:	KMSP [IFPA]
Climb Gradient:	None assigned
Speeds:	200 Ground Speed to 11000 FT
	240 Ground Speed to 18000 FT
	260 Ground Speed to 24000 FT
	340 Ground Speed above 24000 FT
Descent During a Turn:	Allowed
VNAV Mode:	Flight Plan

DME DME Assessment Results for BLUEM5 path HELLO_OOPEE

DME/DME	
RNP:	RNP 2
Flight Mode:	Manual
Line of Sight (DTED Level 0 Max):	Evaluated
Inertial Drift:	Enabled
Initial Drift:	0.558 NM
INS Drift Rate:	8.0 NM/Hour
Range Mode:	OSV
RNP Edges:	Evaluated
Min DME Range:	3.0 NM
DME Types:	DME, VOR-DME, VORTAC, TACAN
DME Include Angles:	30 to 150
Critical DMEs:	Allowed
DoD Facilities:	Not included
Foreign Facilities:	Not included
High DMEs:	Included
Low DMEs:	Included
Terminal DMEs:	Included
Flight Check DMEs:	Not selected
Higher Altitudes:	Not Evaluated
Near Maximum Altitude:	Not Evaluated
Automatic ESVs:	Not enabled
Disabled DMEs:	None

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	MCW	N43° 05' 41.1255", W093° 19' 47.5405"	6.0 E	130	H		NO	Enabled	67 %	67 %
2	FNX	N43° 38' 15.9267", W094° 24' 47.5134"	0.0 E	130	DH		NO	Enabled	100 %	100 %
3	RST	N43° 46' 58.4501", W092° 35' 49.0560"	5.0 E	130	DH		NO	Enabled	100 %	100 %
4	AEL	N43° 40' 54.2460", W093° 22' 14.7184"	1.0 E	25	T		NO	Enabled	29.6 %	29.6 %
5	FOD	N42° 36' 40.0499", W094° 17' 41.3381"	7.0 E	130	H		NO	Enabled	70.2 %	70.2 %
6	MSP	N44° 53' 47.0000", W093° 14' 12.0000"	0.0 E	130	DH		NO	Enabled	23.1 %	23.1 %

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	FOD	MCW	FNX	RST		
11.0	FNX	RST	FOD			
25.1	FNX	RST	FOD	MCW		
30.3	MCW	FNX	RST	AEL		
33.1	MCW	FNX	RST	AEL	MSP	

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
HELLO	OOPEE	MCW, FNX, RST, AEL, FOD, MSP	

DME DME Assessment Results for BLUEM5 path HELLO_OOPEE

User Data Files

File Name

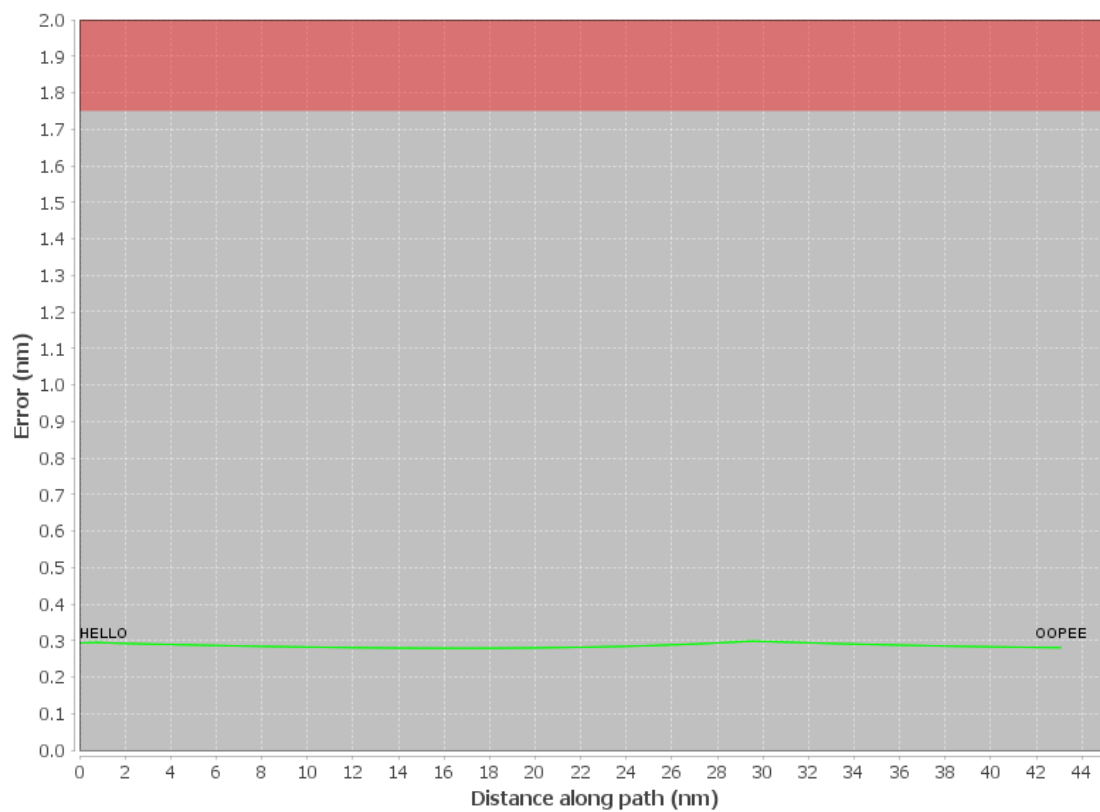
None

User DMEs

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	FOD FAA 694114-14 FOD	N42° 36' 40.0499", W094° 17' 41.3381"	7.0 E	130	1163.9	null	FOD FAA 694114-14	
ESV:		Bearing [True]: 26.0° to 87.0° Bearing [Mag]: 19.0° to 80.0°				Arc Distance: Out to 87.0 NM Altitude: 8000.0 to 15700.0 ft		
2	MCW FAA 704189-16 MCW	N43° 05' 41.1255", W093° 19' 47.5405"	6.0 E	130	1208.6	114.9	MCW FAA 704189-16	
ESV:		Bearing [True]: 125.0° to 150.0° Bearing [Mag]: 119.0° to 144.0°				Arc Distance: Out to 90.0 NM Altitude: 6000.0 to 15800.0 ft		
3	CID FAA 931932-12 CID	N41° 53' 15.1721", W091° 47' 08.6961"	5.0 E	130	876.2	114.1	CID FAA 931932-12	
ESV:		Bearing [True]: 304.0° to 326.0° Bearing [Mag]: 299.0° to 321.0°				Arc Distance: Out to 76.0 NM Altitude: 8000.0 to 15400.0 ft		

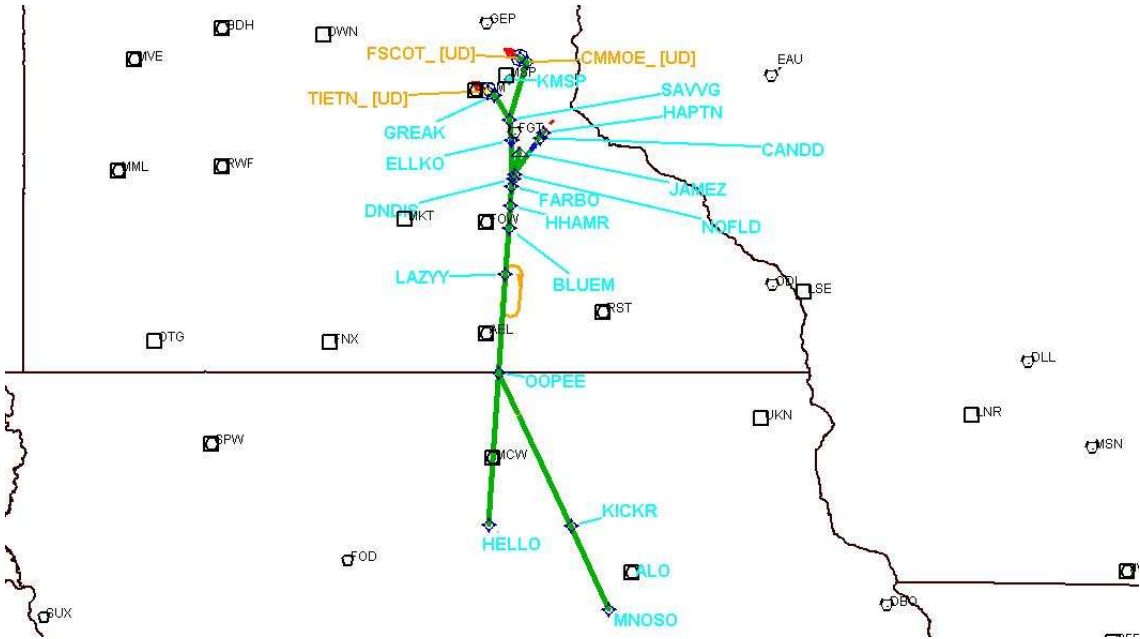
DME DME Assessment Results for BLUEM5 path HELLO_OOPEE

DME Error



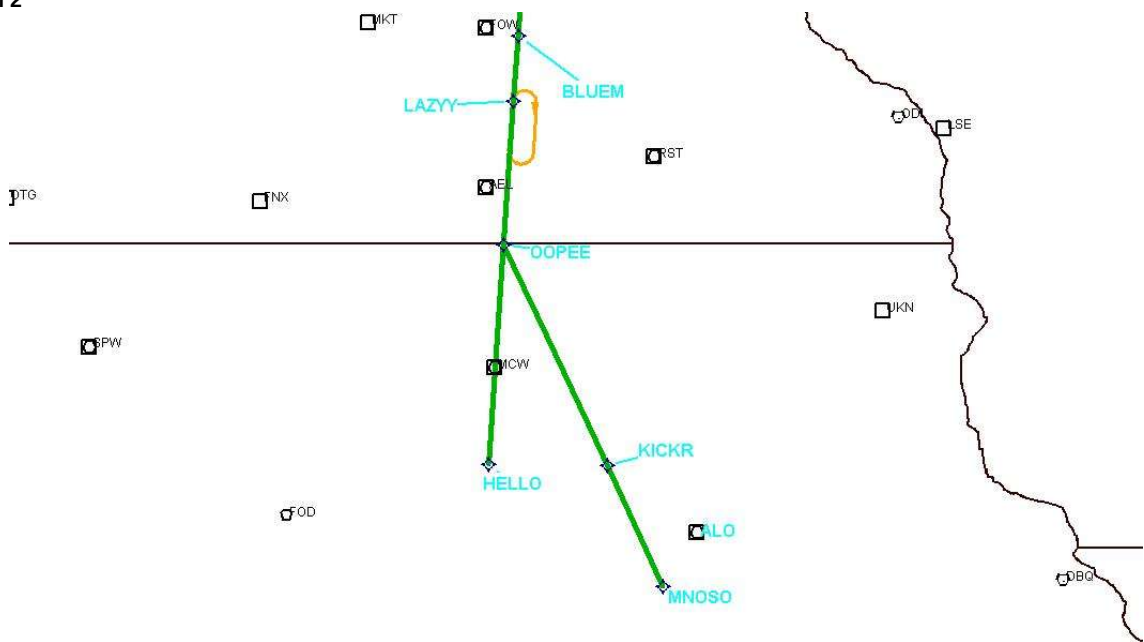
DME DME Assessment Results for BLUEM5 path HELLO_OOPEE

Graphic Depiction 1



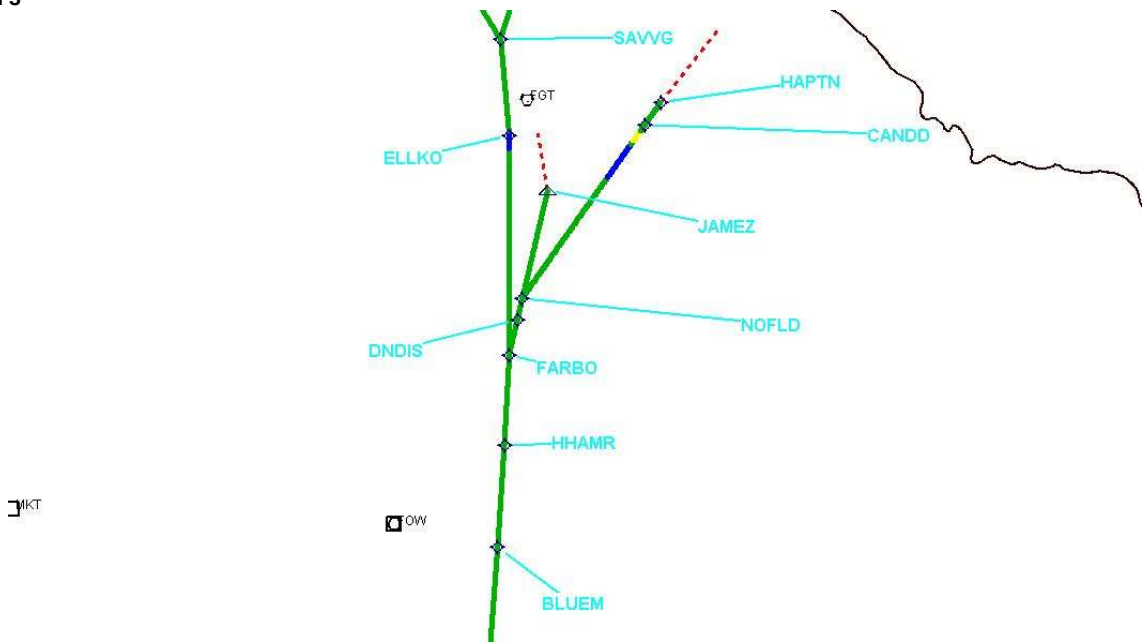
DME DME Assessment Results for BLUEM5 path HELLO_OOPEE

Graphic Depiction 2



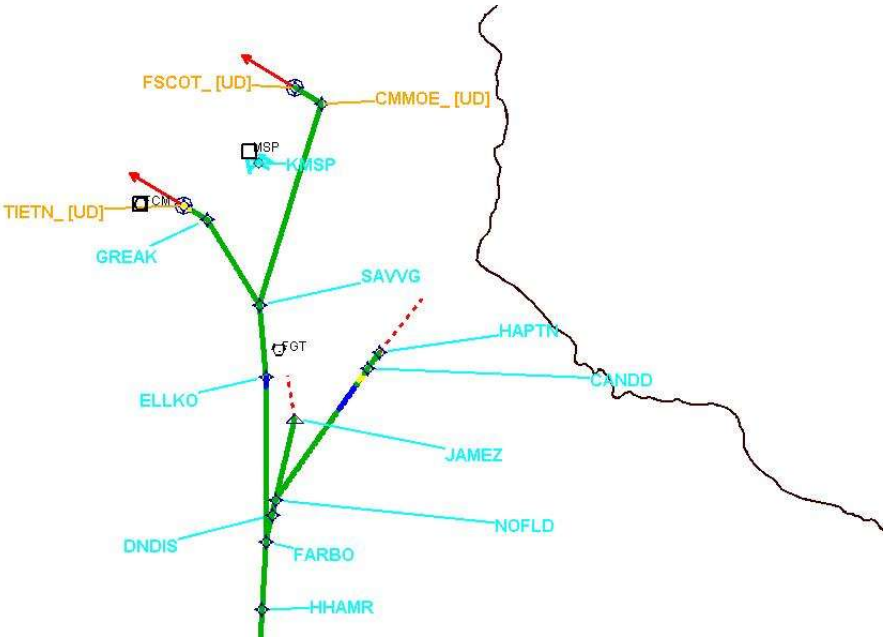
DME DME Assessment Results for BLUEM5 path HELLO_OOPEE

Graphic Depiction 3



DME DME Assessment Results for BLUEM5 path HELLO_OOPEE

Graphic Depiction 4



DME DME Assessment Results for BLUEM5 path MNOSO_FSCOT_

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Lisa A-CTR Thrysoe
Project File:	C:\Users\Lisa A-CTR Thrysoe\OneDrive - Federal Aviation Administration\Desktop\DME DME Screening\KMSP\STARS\KMSP BLUEM FIVE STAR\KMSP STAR BLUEM FIVE DME 241203.tgs
Output File:	C:\Users\Lisa A-CTR Thrysoe\OneDrive - Federal Aviation Administration\Desktop\DME DME Screening\KMSP\STARS\KMSP BLUEM FIVE STAR\KMSP [IFPA] BLUEM5 20250401_0807 EDT\MNOSO_FSCOT_KMSP BLUEM5 RNAV STAR MNOSO FSCOT 20250401_0807 EDT.pdf
Procedure Name:	BLUEM5
Software: DmeDmePlugin:	7.4.1
Date/Time:	04/01/2025 08:07 EDT
Databases:	MITRE 3DEP 3 arcsec

Failures

No Failures

Warnings

No Warnings

Informational

No Informational

Notes For Flight Check

None

Flight Plan

Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
MNOSO	WP	N42° 22' 55.9200", W092° 33' 26.9500"	8000	VNAV	280	FLY_BY	TF
KICKR	WP	N42° 46' 31.0000", W092° 48' 41.0000"	8000	VNAV	280	FLY_BY	TF
OOPEE	WP	N43° 29' 50.0000", W093° 17' 32.0000"	8000	VNAV	280	FLY_BY	TF
LAZYY	WP	N43° 57' 55.0000", W093° 14' 49.0000"	8000	VNAV	280	FLY_BY	TF
BLUEM	WP	N44° 10' 52.8600", W093° 13' 25.6700"	6000	VNAV	280	FLY_BY	TF
HHAMR	WP	N44° 17' 03.6500", W093° 12' 51.7900"	6000	VNAV	280	FLY_BY	TF
FARBO	WP	N44° 22' 28.1300", W093° 12' 26.2200"	6000	VNAV	280	FLY_BY	TF
ELLKO	WP	N44° 35' 42.4900", W093° 12' 26.3200"	6000	VNAV	250	FLY_BY	TF
SAVVG	WP	N44° 41' 30.0900", W093° 13' 09.8500"	6000	VNAV	250	FLY_BY	TF
CMMOE_	WP	N44° 57' 39.8726", W093° 06' 07.5465"	6000	VNAV	230	FLY_BY	TF
FSCOT_	WP	N44° 58' 55.6505", W093° 09' 06.9438"	6000	VNAV	230	FLY_OVER	TF

DME DME Assessment Results for BLUEM5 path MNOSO_FSCOT_

Flyability	
Flight Type:	RNAV_STAR
Selected Airport:	KMSP [IFPA]
Climb Gradient:	None assigned
Speeds:	200 Ground Speed to 11000 FT
	240 Ground Speed to 18000 FT
	260 Ground Speed to 24000 FT
	340 Ground Speed above 24000 FT
Descent During a Turn:	Allowed
VNAV Mode:	Flight Plan

DME/DME	
RNP:	RNP 2
Flight Mode:	Manual
Line of Sight (DTED Level 0 Max):	Evaluated
Inertial Drift:	Enabled
Initial Drift:	0.558 NM
INS Drift Rate:	8.0 NM/Hour
Range Mode:	OSV
RNP Edges:	Evaluated
Min DME Range:	3.0 NM
DME Types:	DME, VOR-DME, VORTAC, TACAN
DME Include Angles:	30 to 150
Critical DMEs:	Allowed
DoD Facilities:	Not included
Foreign Facilities:	Not included
High DMEs:	Included
Low DMEs:	Included
Terminal DMEs:	Included
Flight Check DMEs:	Not selected
Higher Altitudes:	Not Evaluated
Near Maximum Altitude:	Not Evaluated
Automatic ESVs:	Not enabled
Disabled DMEs:	None

DME DME Assessment Results for BLUEM5 path MNOSO_FSCOT_

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	MCW	N43° 05' 41.1255", W093° 19' 47.5405"	6.0 E	130	H		NO	Enabled	53.2 %	54.3 %
2	RWF	N44° 28' 02.1854", W095° 07' 41.6276"	7.0 E	130	DH		NO	Enabled	4.8 %	4.9 %
3	ALO	N42° 33' 23.3876", W092° 23' 56.1261"	0.0 E	40	L		NO	Enabled	25.8 %	26.3 %
4	AEL	N43° 40' 54.2460", W093° 22' 14.7184"	1.0 E	25	T		NO	Enabled	22.7 %	23.2 %
5	MSP	N44° 53' 47.0000", W093° 14' 12.0000"	0.0 E	130	DH		NO	Enabled	51.9 %	51.7 %
6	FOW	N44° 12' 16.0000", W093° 22' 13.8000"	2.0 E	25	T		NO	Enabled	24.8 %	25.3 %
7	FNX	N43° 38' 15.9267", W094° 24' 47.5134"	0.0 E	130	DH		NO	Enabled	64.9 %	66.2 %
8	FCM	N44° 49' 31.2603", W093° 26' 33.6793"	1.0 E	40	L		NO	Enabled	26.4 %	24.9 %
9	RST	N43° 46' 58.4501", W092° 35' 49.0560"	5.0 E	130	DH		NO	Enabled	89.6 %	90.6 %
10	FGT	N44° 37' 51.4303", W093° 10' 55.3911"	6.0 E	130	H		NO	Enabled	24.8 %	24 %
11	GEP	N45° 08' 44.4656", W093° 22' 23.4514"	6.0 E	130	H		NO	Enabled	13 %	11.7 %
12	FOD	N42° 36' 40.0499", W094° 17' 41.3381"	7.0 E	130	H		NO	Enabled	20.7 %	21.1 %
13	JWJ	N42° 06' 40.6548", W092° 54' 31.4857"	0.0 E	40	L		NO	Enabled	13.7 %	14 %
14	CID	N41° 53' 15.1721", W091° 47' 08.6961"	5.0 E	130	H		NO	Enabled	14.5 %	14.8 %

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	CID	JWJ	ALO	MCW	RST	
16.7	ALO	JWJ	RST	MCW		
23.2	FOD	RST	ALO	MCW	CID	
31.2	MCW	RST	FOD	ALO	FNX	
43.7	MCW	RST	FNX	FOD		
49.4	FNX	RST	MCW			
53.5	FNX	RST	FOD	MCW		
61.4	MCW	FNX	RST	AEL		
64.9	MCW	FNX	AEL	RST	MSP	
82.2	MCW	FNX	MSP	RST		
89.9	RST	MSP	FNX	FOD		
91.0	RST	MSP	FNX	AEL		
93.7	FNX	FOW	RST	MSP	AEL	
108.8	FNX	FOW	MSP	FGT	RST	
114.6	FNX	RST	MSP	FGT		
116.7	FNX	RST	FCM	MSP	FGT	
126.3	FNX	RST	FOW	FCM	MSP	
133.0	FOW	RST				
139.4						
140.5	FCM	MSP				
146.2	FCM	MSP	GEP			
148.9	FCM	MSP	GEP	RST		
149.3	FCM	FGT	MSP	GEP	RST	
154.7	FCM	FGT	RST	GEP		
159.7	FCM	GEP	FGT			
160.7	FCM	GEP	MSP	FGT		
164.1	FCM	GEP	FGT			

DME DME Assessment Results for BLUEM5 path MNOSO_FSCOT_

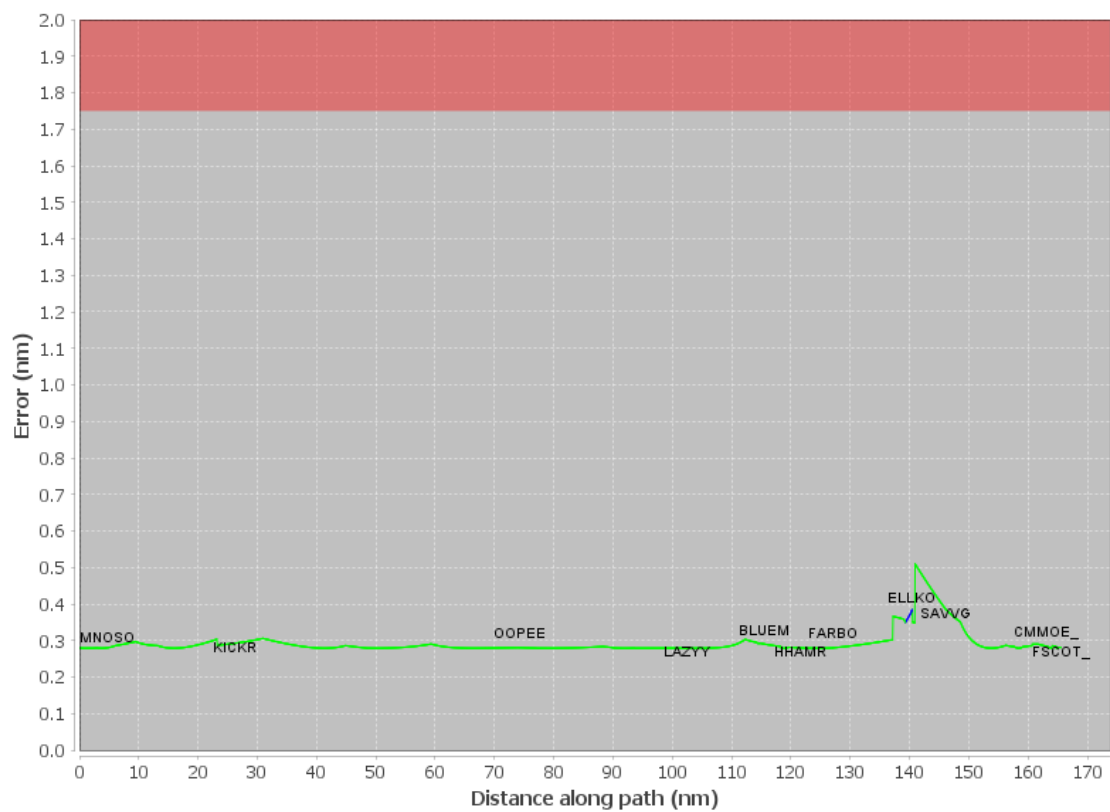
Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N44° 34' 46.7464", W093° 12' 26.3130"	N44° 35' 54.9045", W093° 12' 27.8722"	1.1369

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
MNOSO	KICKR	MCW, FNx, RST, ALO, FOD, JWJ, CID	
KICKR	OOPEE	MCW, FNx, RST, ALO, AEL, FOD, MSP, CID	
OOPEE	LAZYY	MCW, RWF, FNx, RST, AEL, FOD, MSP, FOW	
LAZYY	BLUEM	RWF, FNx, RST, FGT, AEL, MSP, FOW	
BLUEM	HHAMR	FNx, FCM, FGT, RST, MSP, FOW	
HHAMR	FARBO	FNx, FCM, FGT, RST, MSP, FOW	
FARBO	ELLKO	FNx, FCM, RST, MSP, FOW	
ELLKO	SAVVG	FCM, MSP	
SAVVG	CMMOE_	FCM, RST, FGT, GEP, MSP	
CMMOE_	FSCOT_	FCM, FGT, GEP, MSP	

User Data Files								
#	File Name							
None								
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	FOD FAA 694114-14 FOD	N42° 36' 40.0499", W094° 17' 41.3381"	7.0 E	130	1163.9	null	FOD FAA 694114-14	
ESV:		Bearing [True]: 26.0° to 87.0° Bearing [Mag]: 19.0° to 80.0°				Arc Distance: Out to 87.0 NM Altitude: 8000.0 to 15700.0 ft		
2	MCW FAA 704189-16 MCW	N43° 05' 41.1255", W093° 19' 47.5405"	6.0 E	130	1208.6	114.9	MCW FAA 704189-16	
ESV:		Bearing [True]: 125.0° to 150.0° Bearing [Mag]: 119.0° to 144.0°				Arc Distance: Out to 90.0 NM Altitude: 6000.0 to 15800.0 ft		
3	CID FAA 931932-12 CID	N41° 53' 15.1721", W091° 47' 08.6961"	5.0 E	130	876.2	114.1	CID FAA 931932-12	
ESV:		Bearing [True]: 304.0° to 326.0° Bearing [Mag]: 299.0° to 321.0°				Arc Distance: Out to 76.0 NM Altitude: 8000.0 to 15400.0 ft		

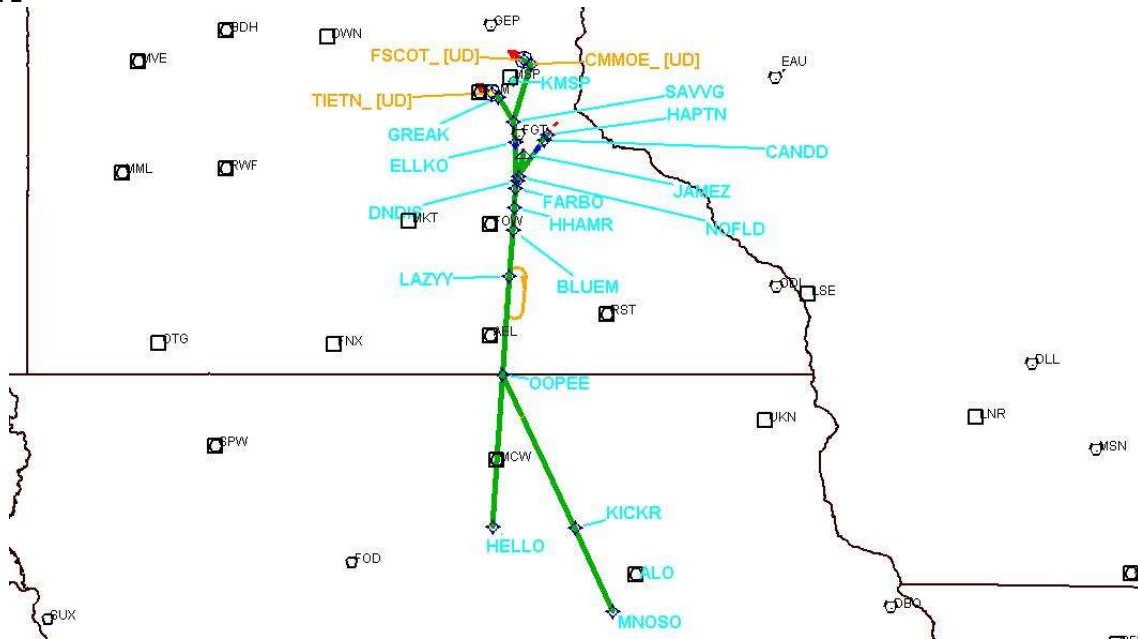
DME DME Assessment Results for BLUEM5 path MNOSO_FSCOT_

DME Error



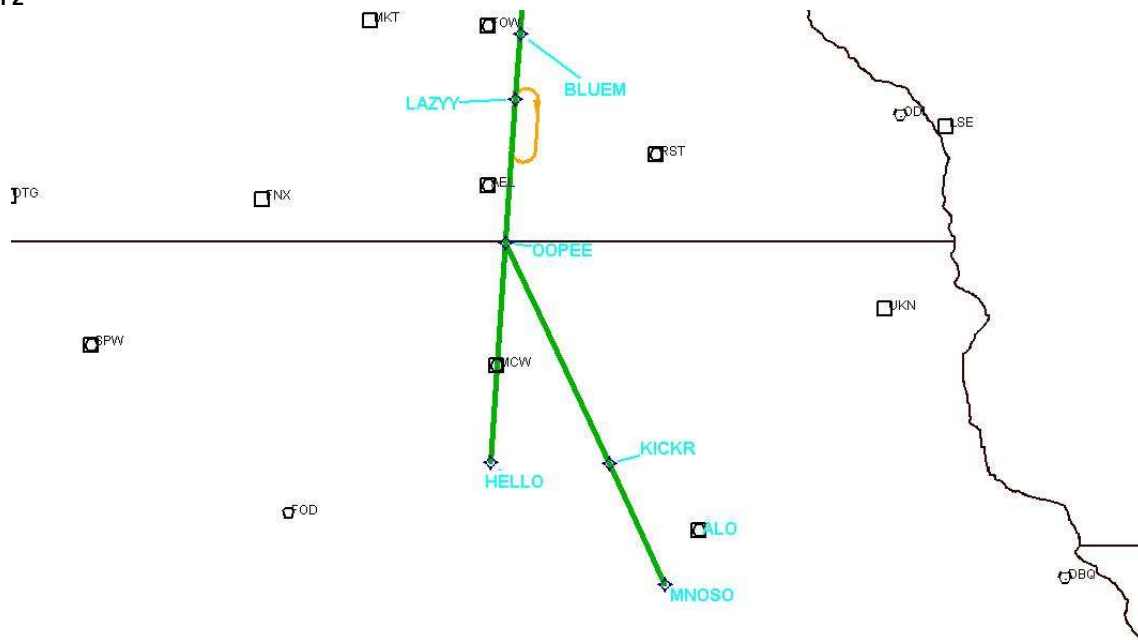
DME DME Assessment Results for BLUEM5 path MNOSO_FSCOT_

Graphic Depiction 1



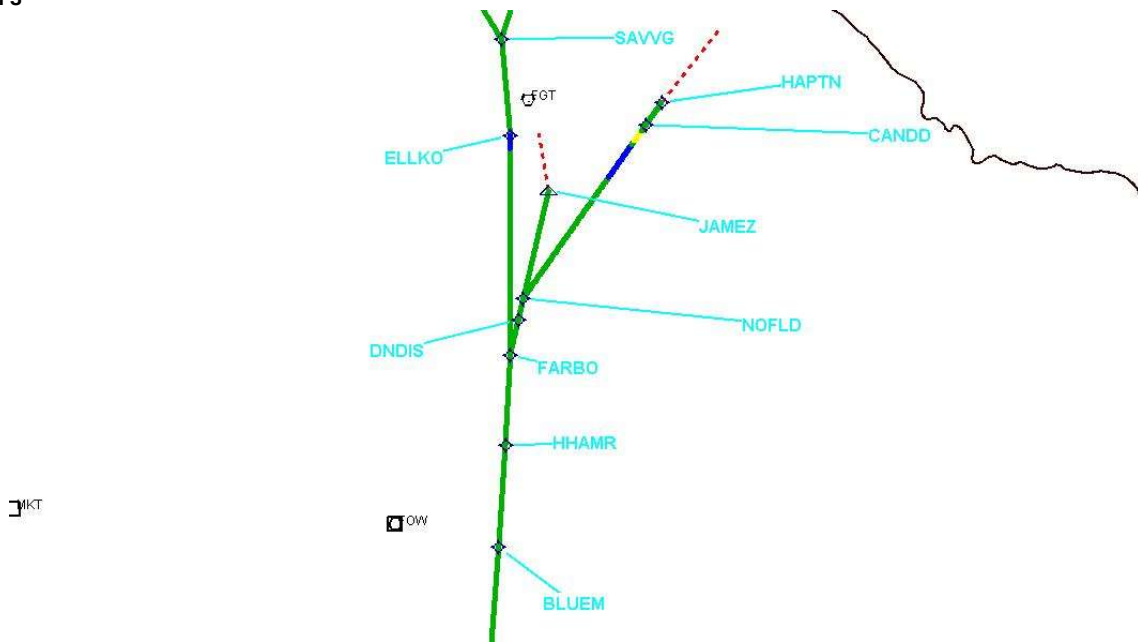
DME DME Assessment Results for BLUEM5 path MNOSO_FSCOT_

Graphic Depiction 2



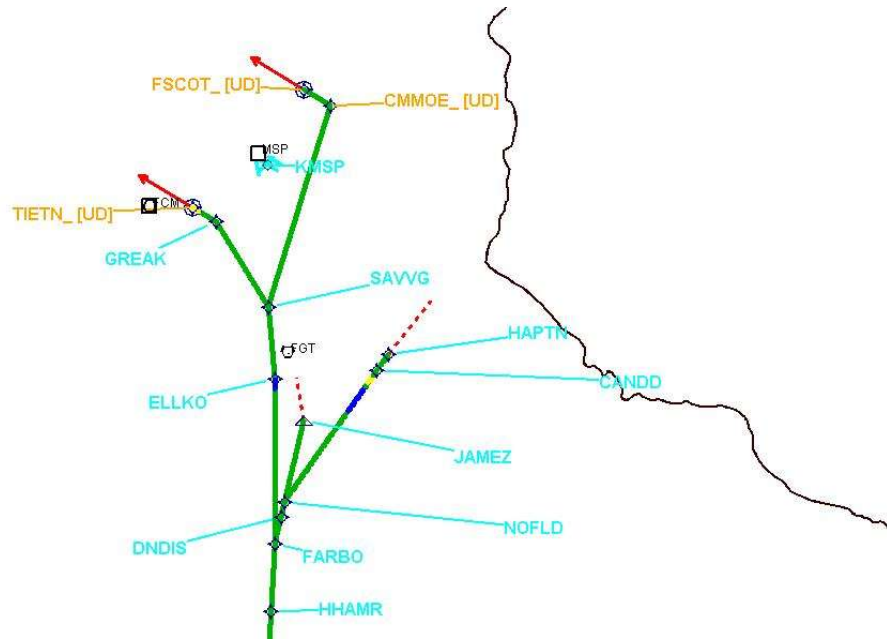
DME DME Assessment Results for BLUEM5 path MNOSO_FSCOT_

Graphic Depiction 3



DME DME Assessment Results for BLUEM5 path MNOSO_FSCOT_

Graphic Depiction 4



DME DME Assessment Results for BLUEM5 path SAVVG_TIETN_

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Lisa A-CTR Thrysoe
Project File:	C:\Users\Lisa A-CTR Thrysoe\OneDrive - Federal Aviation Administration\Desktop\DME DME Screening\KMSP\STARS\KMSP BLUEM FIVE STAR\KMSP STAR BLUEM FIVE DME 241203.tgs
Output File:	C:\Users\Lisa A-CTR Thrysoe\OneDrive - Federal Aviation Administration\Desktop\DME DME Screening\KMSP\STARS\KMSP BLUEM FIVE STAR\KMSP [IFPA] BLUEM5 20250401_0807 EDT\SAVVG_TIETN_KMSP BLUEM5 RNAV STAR SAVVG TIETN 20250401_0807 EDT.pdf
Procedure Name:	BLUEM5
Software: DmeDmePlugin:	7.4.1
Date/Time:	04/01/2025 08:07 EDT
Databases:	MITRE 3DEP 3 arcsec

Failures

No Failures

Warnings

No Warnings

Informational

No Informational

Notes For Flight Check

None

Flight Plan

Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
SAVVG	WP	N44° 41' 30.0900", W093° 13' 09.8500"	6000	VNAV	250	FLY_BY	TF
GREAK	WP	N44° 48' 19.4000", W093° 19' 04.5700"	6000	VNAV	230	FLY_BY	TF
TIETN_	WP	N44° 49' 29.6249", W093° 21' 46.7914"	6000	VNAV	230	FLY_OVER	TF

Flyability

Flight Type:	RNAV_STAR
Selected Airport:	KMSP [IFPA]
Climb Gradient:	None assigned
Speeds:	200 Ground Speed to 11000 FT
	240 Ground Speed to 18000 FT
	260 Ground Speed to 24000 FT
	340 Ground Speed above 24000 FT
Descent During a Turn:	Allowed
VNAV Mode:	Flight Plan

DME DME Assessment Results for BLUEM5 path SAVVG_TIETN_

DME/DME	
RNP:	RNP 2
Flight Mode:	Manual
Line of Sight (DTED Level 0 Max):	Evaluated
Inertial Drift:	Enabled
Initial Drift:	0.558 NM
INS Drift Rate:	8.0 NM/Hour
Range Mode:	OSV
RNP Edges:	Evaluated
Min DME Range:	3.0 NM
DME Types:	DME, VOR-DME, VORTAC, TACAN
DME Include Angles:	30 to 150
Critical DMEs:	Allowed
DoD Facilities:	Not included
Foreign Facilities:	Not included
High DMEs:	Included
Low DMEs:	Included
Terminal DMEs:	Included
Flight Check DMEs:	Not selected
Higher Altitudes:	Not Evaluated
Near Maximum Altitude:	Not Evaluated
Automatic ESVs:	Not enabled
Disabled DMEs:	None

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	FCM	N44° 49' 31.2603", W093° 26' 33.6793"	1.0 E	40	L		NO	Enabled	97.4 %	97.6 %
2	FGT	N44° 37' 51.4303", W093° 10' 55.3911"	6.0 E	130	H		NO	Enabled	6.5 %	6.1 %
3	RST	N43° 46' 58.4501", W092° 35' 49.0560"	5.0 E	130	DH		NO	Enabled	6.5 %	6.1 %
4	GEP	N45° 08' 44.4656", W093° 22' 23.4514"	6.0 E	130	H		NO	Enabled	45.2 %	44.4 %
5	MSP	N44° 53' 47.0000", W093° 14' 12.0000"	0.0 E	130	DH		NO	Enabled	83.1 %	84.2 %

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	FCM	MSP				
5.5	FCM	MSP	GEP			
8.1	FCM	GEP				
9.5						
9.6	FCM	GEP	FGT	MSP	RST	

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N44° 49' 04.2733", W093° 20' 48.1988"	N44° 49' 10.1244", W093° 21' 01.7189"	0.1877

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
SAVVG	GREAK	FCM, GEP, MSP	
GREAK	TIETN_	FCM, FGT, RST, GEP, MSP	

DME DME Assessment Results for BLUEM5 path SAVVG_TIETN_

User Data Files

File Name

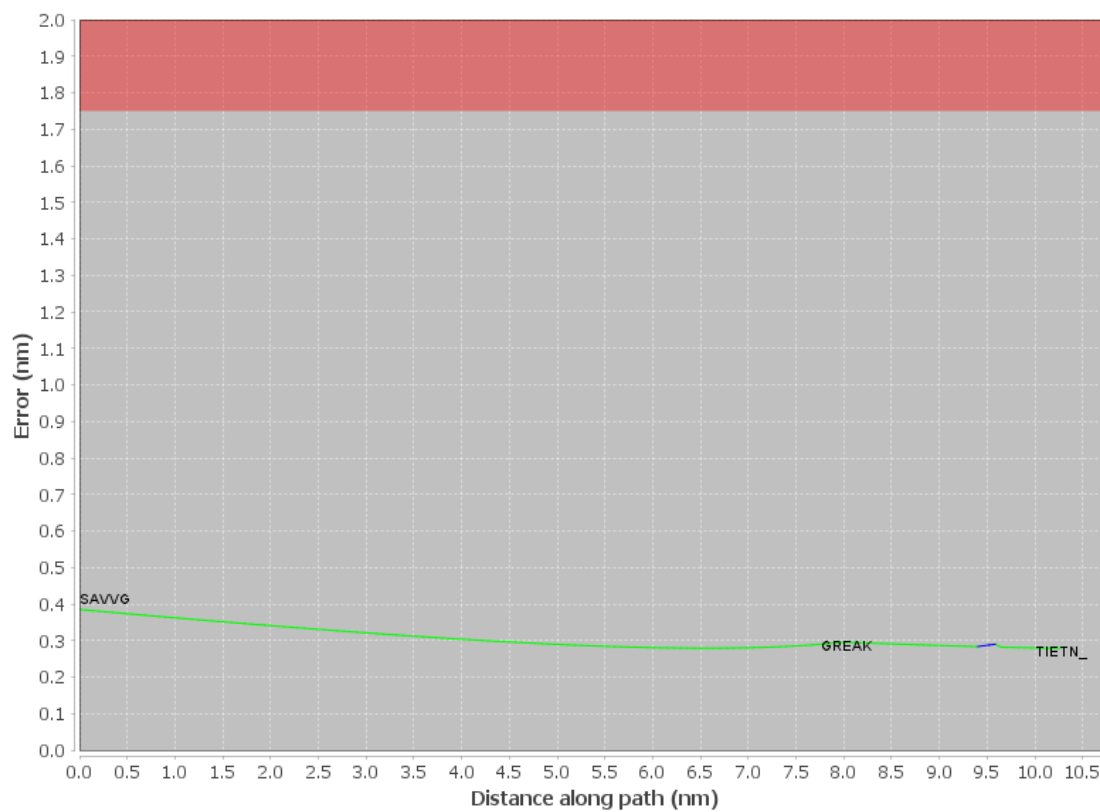
None

User DMEs

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	FOD FAA 694114-14 FOD	N42° 36' 40.0499", W094° 17' 41.3381"	7.0 E	130	1163.9	null	FOD FAA 694114-14	
ESV:		Bearing [True]: 26.0° to 87.0° Bearing [Mag]: 19.0° to 80.0°				Arc Distance: Out to 87.0 NM Altitude: 8000.0 to 15700.0 ft		
2	MCW FAA 704189-16 MCW	N43° 05' 41.1255", W093° 19' 47.5405"	6.0 E	130	1208.6	114.9	MCW FAA 704189-16	
ESV:		Bearing [True]: 125.0° to 150.0° Bearing [Mag]: 119.0° to 144.0°				Arc Distance: Out to 90.0 NM Altitude: 6000.0 to 15800.0 ft		
3	CID FAA 931932-12 CID	N41° 53' 15.1721", W091° 47' 08.6961"	5.0 E	130	876.2	114.1	CID FAA 931932-12	
ESV:		Bearing [True]: 304.0° to 326.0° Bearing [Mag]: 299.0° to 321.0°				Arc Distance: Out to 76.0 NM Altitude: 8000.0 to 15400.0 ft		

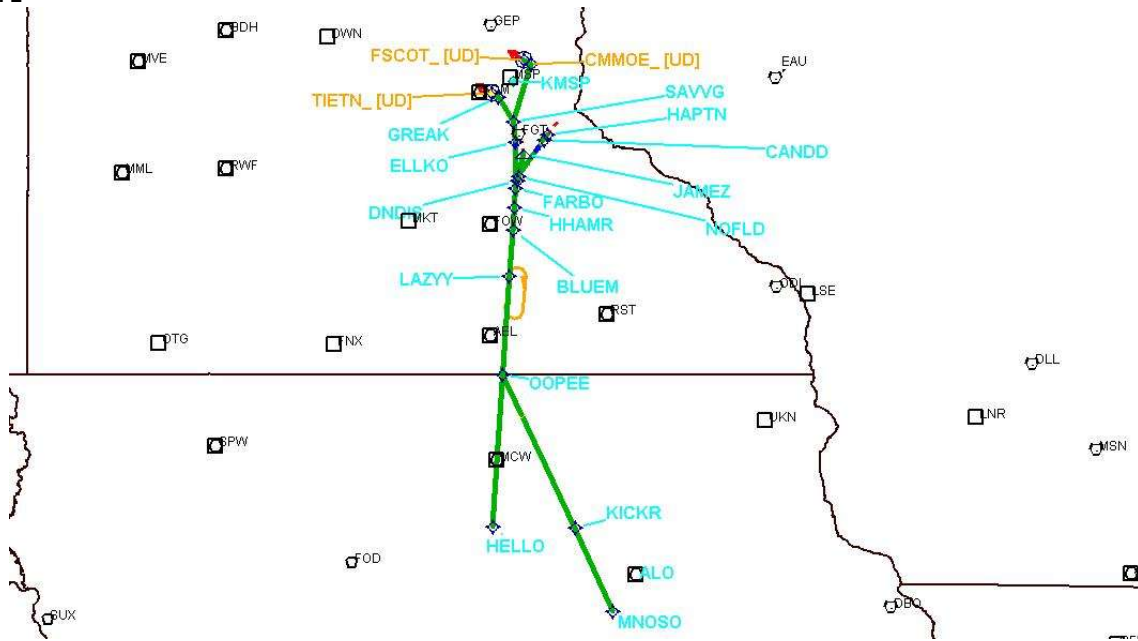
DME DME Assessment Results for BLUEM5 path SAVVG_TIETN_

DME Error



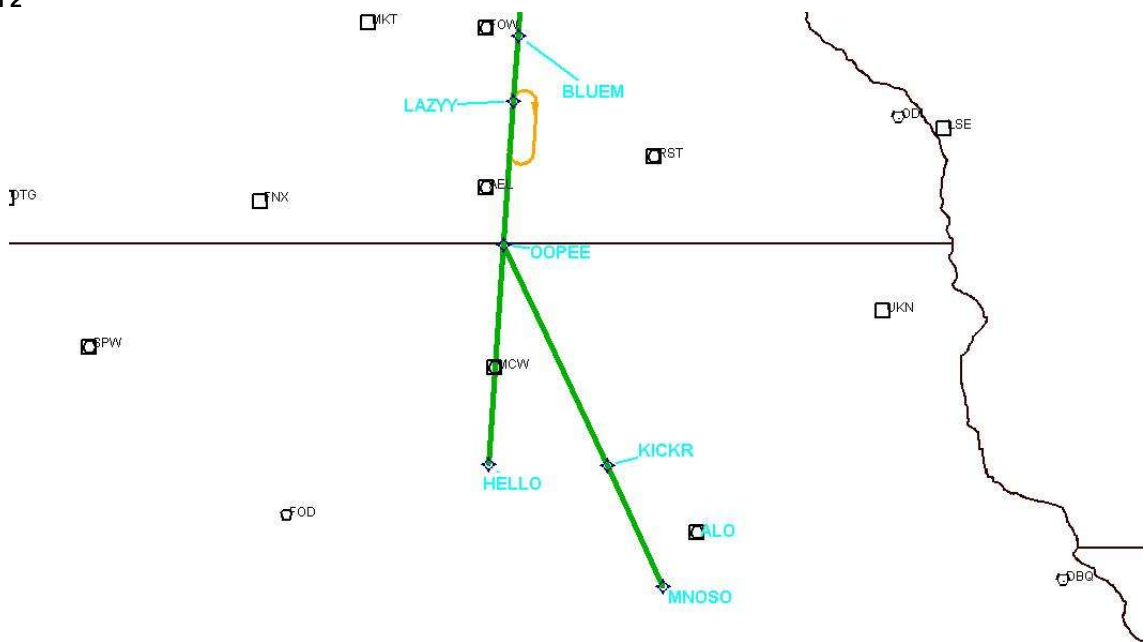
DME DME Assessment Results for BLUEM5 path SAVVG_TIETN_

Graphic Depiction 1



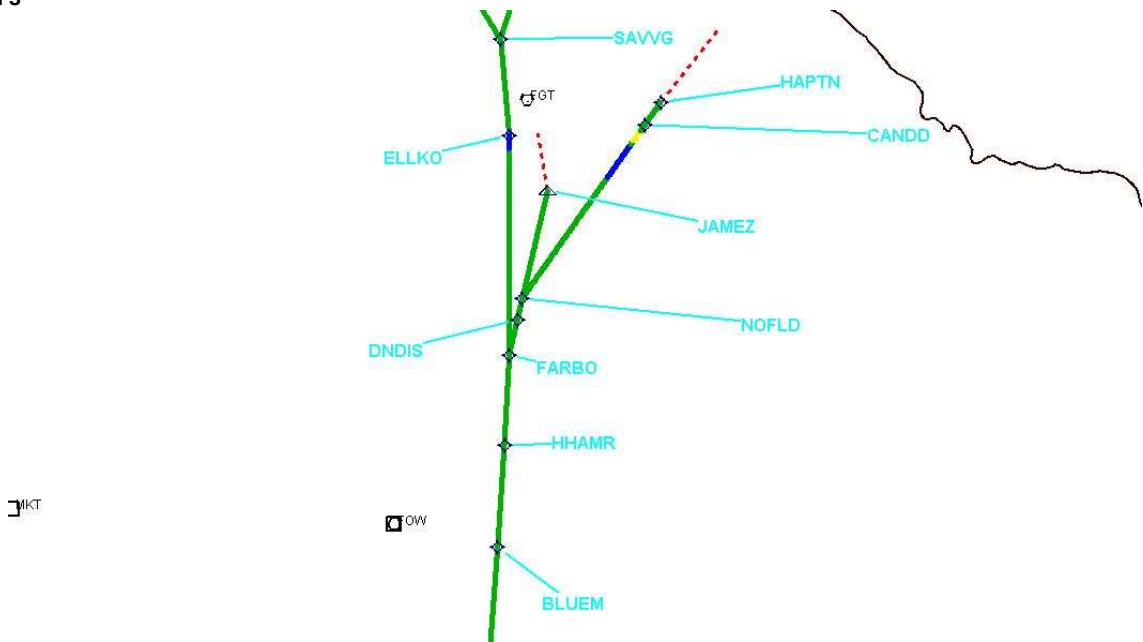
DME DME Assessment Results for BLUEM5 path SAVVG_TIETN_

Graphic Depiction 2



DME DME Assessment Results for BLUEM5 path SAVVG_TIETN_

Graphic Depiction 3



Graphic Depiction 4

