

DME DME Assessment Results for BITEZ1 path BITEZ_SMERF

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\SIDS\KMSP BITEZ ONE SID\KMSP SID BITEZ ONE DME 241211lu.tgs
Output File:	C:\Users\Lisa A-CTR Thrysoe\OneDrive - Federal Aviation Administration\Desktop\DME DME Screening\KMSP\SIDS\KMSP BITEZ ONE SID\+4500\KMSP [IFPA] BITEZ1 20250522_0723 EDT\BITEZ_SMERF\KMSP BITEZ1 SID BITEZ SMERF 20250522_0723 EDT.pdf
Procedure Name:	BITEZ1
Software: DmeDmePlugin:	7.5.0
Date/Time:	05/22/2025 07:23 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
BITEZ	WP	N44° 58' 55.2429", W093° 45' 34.4911"	5000	VNAV	200	FLY_BY	TF
ZOGAP_	WP	N45° 06' 41.5943", W093° 58' 19.6730"	5000	VNAV	200	FLY_BY	TF
PAGOZ_	WP	N45° 09' 13.8816", W094° 08' 44.6762"	7000	VNAV	200	FLY_BY	TF
SMERF	WP	N45° 55' 15.8200", W097° 34' 08.2600"	8000	VNAV	200	FLY_BY	TF

Flyability

Flight Type:	SID
Selected Airport:	KMSP [IFPA]
Climb Gradient:	None assigned
Speeds:	130 at the Runway DER
	145 at the end of the VA or VI leg
	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 BITEZ1 path BITEZ_SMERF

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:	Enabled
Disabled DMEs:	RST

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	RWF	N44° 28' 02.1854", W095° 07' 41.6276"	7.0 E	130	DH		NO	Enabled	63.9 %	63.9 %
2	FCM	N44° 49' 31.2603", W093° 26' 33.6793"	1.0 E	40	L		NO	Enabled	13.4 %	13.4 %
3	ABR	N45° 25' 02.4840", W098° 22' 07.3906"	7.0 E	130	DH		NO	Enabled	28.6 %	28.6 %
4	FGT	N44° 37' 51.4303", W093° 10' 55.3911"	6.0 E	130	H		NO	Enabled	4.4 %	4.4 %
5	GEP	N45° 08' 44.4656", W093° 22' 23.4514"	6.0 E	130	H		NO	Enabled	15.2 %	15.2 %
6	FAR	N46° 45' 12.0129", W096° 51' 04.7483"	9.0 E	130	DH		NO	Enabled	44.4 %	44.4 %
7	ATY	N44° 58' 46.8710", W097° 08' 30.2005"	9.0 E	40	L		NO	Enabled	35.6 %	35.6 %
8	AXN	N45° 57' 30.1977", W095° 13' 57.4854"	7.0 E	130	DH		NO	Enabled	73.4 %	73.4 %
9	BDH	N45° 07' 03.6139", W095° 07' 37.4209"	4.0 E	25	T		NO	Enabled	16.8 %	16.8 %
10	MOX	N45° 33' 55.5024", W095° 58' 09.5980"	5.0 E	25	T		NO	Enabled	20.4 %	20.4 %
11	DWN	N45° 05' 14.8650", W094° 27' 13.8590"	0.0 E	40	L		NO	Enabled	37 %	37 %
12	MSP	N44° 53' 47.0000", W093° 14' 12.0000"	0.0 E	130	DH		NO	Enabled	39.3 %	39.3 %
13	RST	N43° 46' 58.4501", W092° 35' 49.0560"	5.0 E	130	DH	IFPA	NO	Disabled		

DME DME Assessment Results for BITEZ1 path BITEZ_SMERF

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	FGT	GEP	RWF	FCM	MSP	DWN
7.7	RWF	FCM	MSP	GEP	DWN	
9.7	RWF	FCM	MSP	GEP		
15.2	RWF	AXN	FCM	MSP	DWN	GEP
23.0	RWF	AXN	DWN	MSP	GEP	
26.1	DWN	AXN	RWF	MSP		
38.7	RWF	MSP	DWN	BDH	AXN	
41.1	RWF	MSP	DWN	AXN		
42.6	RWF	MSP	BDH	AXN	DWN	
43.1	RWF	MSP	DWN	BDH		
57.1	DWN	BDH	MSP	RWF	AXN	
67.3	DWN	AXN	RWF	BDH		
69.1						
74.3	BDH	AXN				
74.4						
76.1	AXN	MOX	RWF			
90.7	AXN	MOX	RWF	FAR		
93.1	RWF	AXN	FAR			
97.0	ATY	RWF	AXN	FAR		
107.4	FAR	AXN	RWF	ATY	MOX	
113.7	FAR	AXN	RWF	MOX		
116.5	FAR	AXN	MOX			
117.7	FAR	AXN	ABR	MOX		
122.3	FAR	AXN	ATY	MOX	ABR	
125.4	FAR	AXN	ABR	ATY		
162.0	ATY	ABR	FAR			
163.1	FAR	AXN	ABR			
163.1	ATY	ABR	FAR			
166.7						

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N45° 24' 54.4239", W095° 15' 03.6872"	N45° 26' 30.5805", W095° 22' 02.0400"	5.1655
2	N45° 26' 33.6752", W095° 22' 15.5418"	N45° 27' 04.5981", W095° 24' 30.5825"	1.6663
3	N45° 53' 59.1823", W097° 27' 57.5800"	N45° 55' 15.8200", W097° 34' 08.2600"	4.4989

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
BITEZ	ZOGAP_	RWF, FCM, FGT, GEP, DWN, MSP	
ZOGAP_	PAGOZ_	RWF, FCM, GEP, AXN, DWN, MSP	
PAGOZ_	SMERF	RWF, FCM, ABR, GEP, FAR, ATY, AXN, BDH, MOX, DWN, MSP	

DME DME Assessment Results for BITEZ1 path BITEZ_SMERF

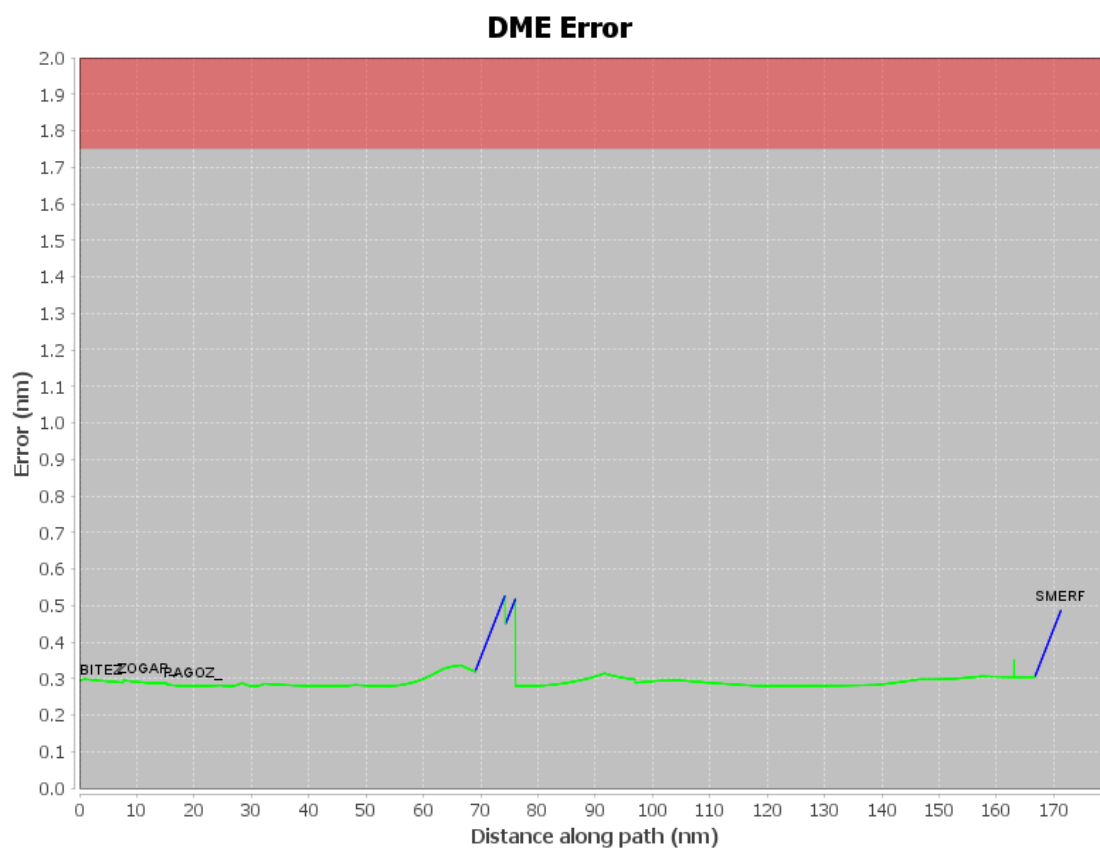
User Data Files

#	File Name
1	New Analysis.udt

User DMEs

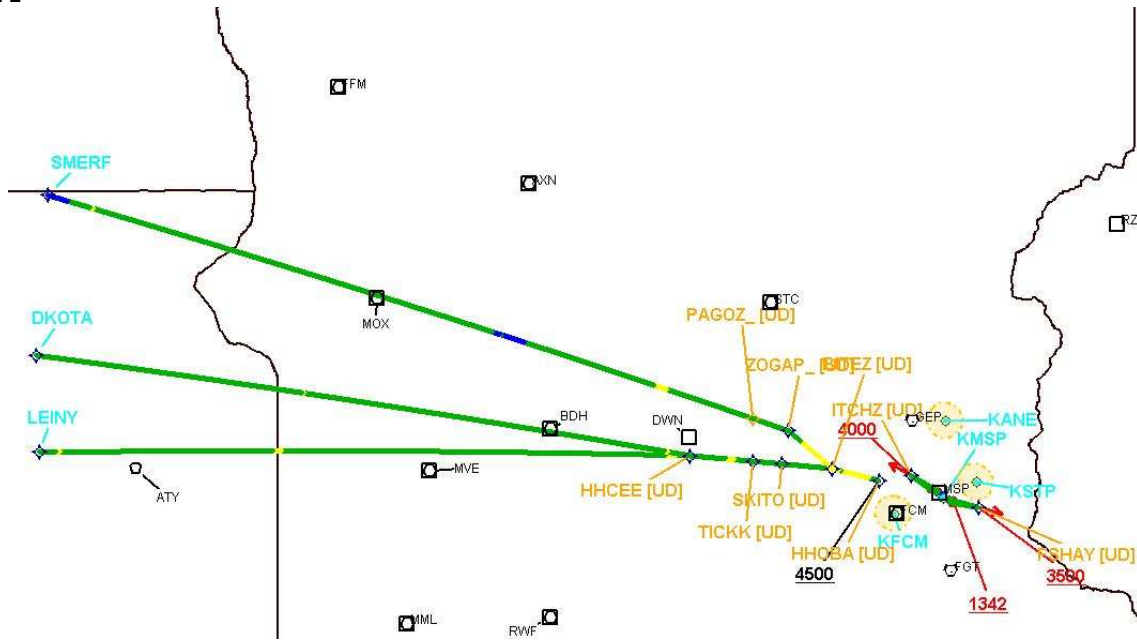
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	MHE MHE	N43° 46' 37.2780", W098° 02' 15.2357"	4.0 E	40	1298.1	114.15	MHE	
ESV:		Bearing [True]: 12.0° to 17.0° Bearing [Mag]: 8.0° to 13.0°				Arc Distance: Out to 83.0 NM Altitude: 7800.0 to 19300.0 ft		
2	ATY FAA 704243-10 ATY	N44° 58' 46.8710", W097° 08' 30.2005"	9.0 E	40	1762.8	null	ATY FAA 704243-10	
ESV:		Bearing [True]: 344.0° to 59.0° Bearing [Mag]: 335.0° to 50.0°				Arc Distance: Out to 75.0 NM Altitude: 5000.0 to 14500.0 ft		

DME DME Assessment Results for BITEZ1 path BITEZ_SMERF



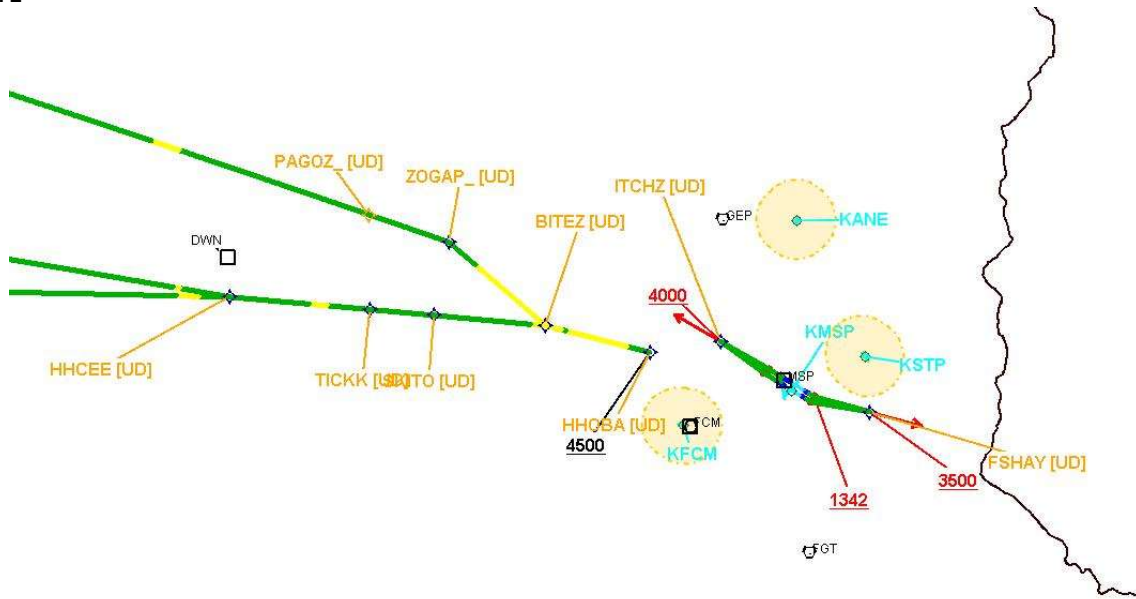
DME DME Assessment Results for BITEZ1 path BITEZ_SMERF

Graphic Depiction 1



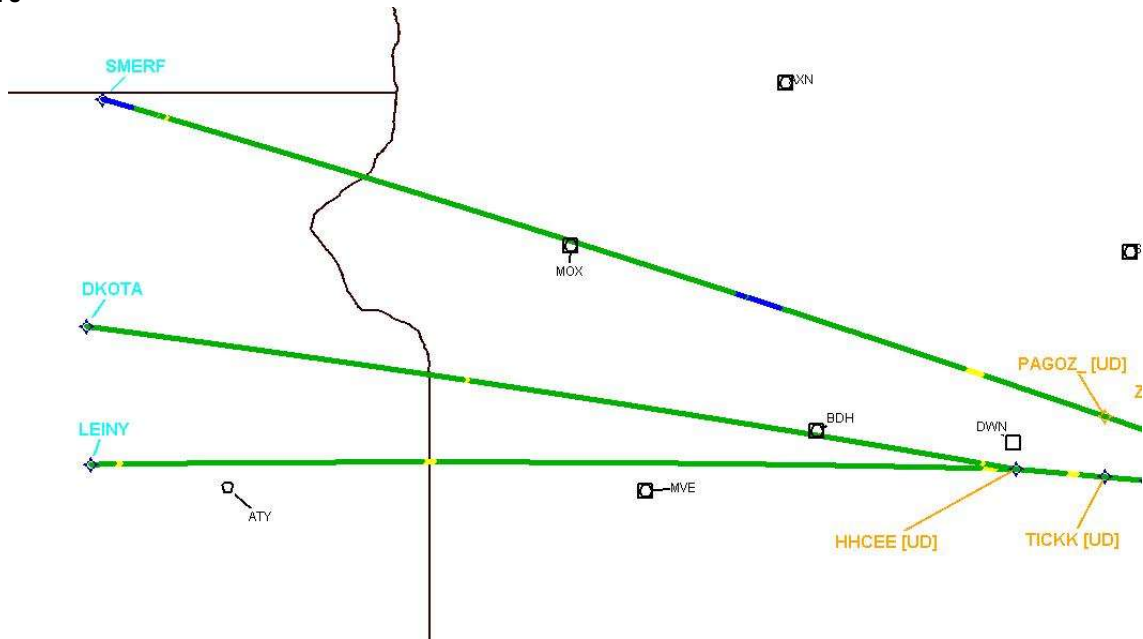
DME DME Assessment Results for BITEZ1 path BITEZ_SMERF

Graphic Depiction 2



DME DME Assessment Results for BITEZ1 path BITEZ_SMERF

Graphic Depiction 3



DME DME Assessment Results for BITEZ1 path HHCEE_LEINY

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\SIDS\KMSP BITEZ ONE SID\KMSP SID BITEZ ONE DME 241211lu.tgs
Output File:	C:\Users\Lisa A-CTR Thrysoe\OneDrive - Federal Aviation Administration\Desktop\DME DME Screening\KMSP\SIDS\KMSP BITEZ ONE SID\+4500\KMSP [IFPA] BITEZ1 20250522_0723 EDT\HHCEE_LEINY\KMSP BITEZ1 SID HHCEE LEINY 20250522_0723 EDT.pdf
Procedure Name:	BITEZ1
Software: DmeDmePlugin:	7.5.0
Date/Time:	05/22/2025 07:23 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
HHCEE	WP	N45° 01' 35.1621", W094° 26' 59.2604"	7000	VNAV	200	FLY_BY	TF
LEINY	WP	N45° 02' 16.0000", W097° 36' 40.0000"	8000	VNAV	200	FLY_BY	TF

Flyability

Flight Type:	SID
Selected Airport:	KMSP [IFPA]
Climb Gradient:	None assigned
Speeds:	130 at the Runway DER
	145 at the end of the VA or VI leg
	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 BITEZ1 path HHCEE_LEINY

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:	Enabled
Disabled DMEs:	RST

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	RWF	N44° 28' 02.1854", W095° 07' 41.6276"	7.0 E	130	DH		NO	Enabled	82.9 %	82.9 %
2	FNX	N43° 38' 15.9267", W094° 24' 47.5134"	0.0 E	130	DH		NO	Enabled	1.5 %	1.5 %
3	ABR	N45° 25' 02.4840", W098° 22' 07.3906"	7.0 E	130	DH		NO	Enabled	38.6 %	38.6 %
4	ATY	N44° 58' 46.8710", W097° 08' 30.2005"	9.0 E	40	L		NO	Enabled	20.1 %	20.1 %
5	HON	N44° 26' 24.3000", W098° 18' 39.9051"	0.0 E	130	DH		NO	Enabled	37.3 %	37.3 %
6	AXN	N45° 57' 30.1977", W095° 13' 57.4854"	7.0 E	130	DH		NO	Enabled	66.9 %	66.9 %
7	BDH	N45° 07' 03.6139", W095° 07' 37.4209"	4.0 E	25	T		NO	Enabled	29.5 %	29.5 %
8	DWN	N45° 05' 14.8650", W094° 27' 13.8590"	0.0 E	40	L		NO	Enabled	21.8 %	21.8 %
9	MSP	N44° 53' 47.0000", W093° 14' 12.0000"	0.0 E	130	DH		NO	Enabled	27.2 %	27.2 %
10	MHE	N43° 46' 37.2780", W098° 02' 15.2357"	4.0 E	40	L		NO	Enabled	3.4 %	3.4 %
11	MVE	N44° 58' 21.7969", W095° 42' 43.5558"	5.0 E	25	T		NO	Enabled	30.7 %	30.7 %
12	RST	N43° 46' 58.4501", W092° 35' 49.0560"	5.0 E	130	DH	IFPA	NO	Disabled		

DME DME Assessment Results for BITEZ1 path HHCEE_LEINY

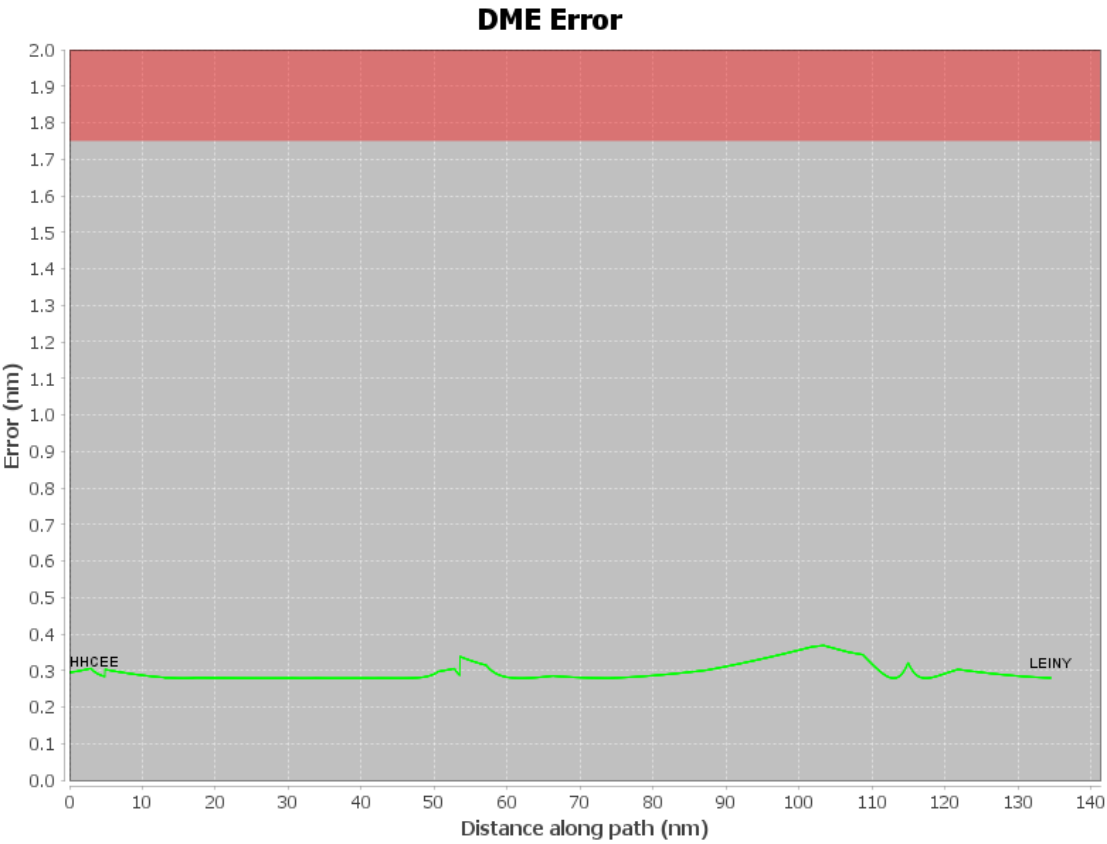
Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	RWF	AXN	MSP			
2.8	RWF	AXN	DWN	FNX	MSP	
4.9	RWF	MSP				
5.5	RWF	BDH	MSP			
12.4	RWF	BDH	MSP	DWN		
14.6	RWF	BDH	DWN	AXN	MSP	
25.0	DWN	AXN	RWF	MSP		
30.0	DWN	AXN	RWF	MVE	MSP	
36.7	RWF	MVE	DWN	AXN	BDH	
39.7	RWF	MVE	BDH	AXN		
50.7	RWF	BDH	AXN			
52.4	RWF	AXN				
56.7	RWF	AXN	MVE			
75.2	RWF	AXN	MVE	ATY		
77.4	RWF	AXN	ATY			
82.5	RWF	AXN	ABR	ATY		
84.4	RWF	AXN	ABR	HON	ATY	
86.1	RWF	AXN	ABR	HON		
99.9	RWF	HON	ABR			
111.6	HON	ABR				
118.4	ATY	HON	ABR			
130.0	HON	ABR	MHE	ATY		

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

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
HHCEE	LEINY	RWF, FNX, ABR, ATY, HON, AXN, BDH, DWN, MSP, MHE, MVE	

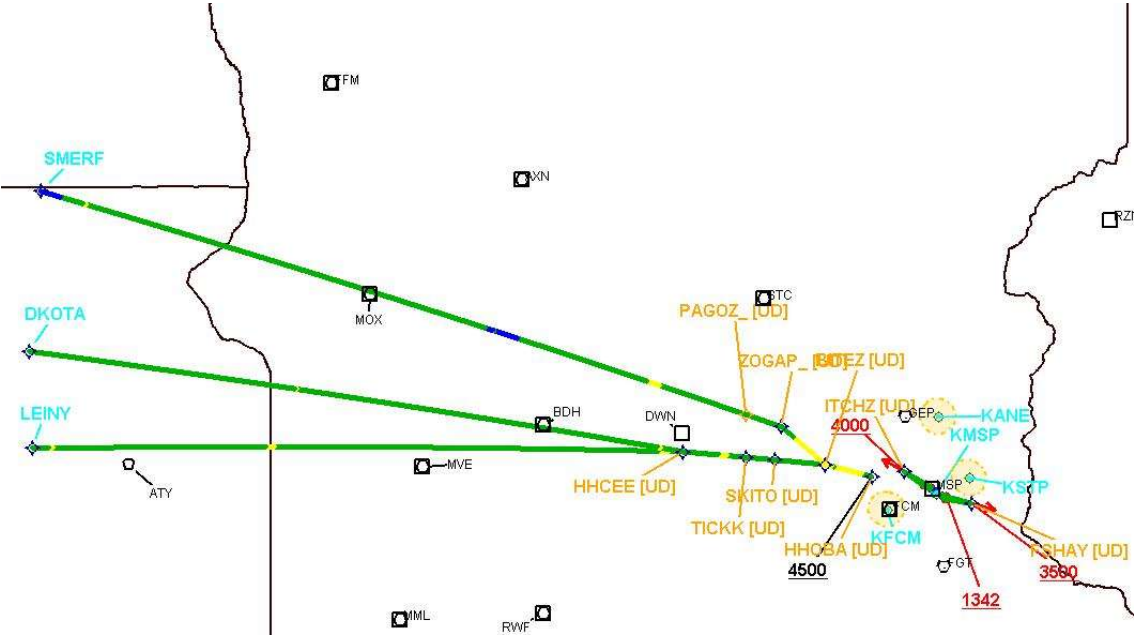
User Data Files								
#	File Name							
1	New Analysis.udt							
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	MHE MHE	N43° 46' 37.2780", W098° 02' 15.2357"	4.0 E	40	1298.1	114.15	MHE	
ESV:		Bearing [True]: 12.0° to 17.0° Bearing [Mag]: 8.0° to 13.0°				Arc Distance: Out to 83.0 NM Altitude: 7800.0 to 19300.0 ft		
2	ATY FAA 704243-10 ATY	N44° 58' 46.8710", W097° 08' 30.2005"	9.0 E	40	1762.8	null	ATY FAA 704243-10	
ESV:		Bearing [True]: 344.0° to 59.0° Bearing [Mag]: 335.0° to 50.0°				Arc Distance: Out to 75.0 NM Altitude: 5000.0 to 14500.0 ft		

DME DME Assessment Results for BITEZ1 path HHCEE_LEINY



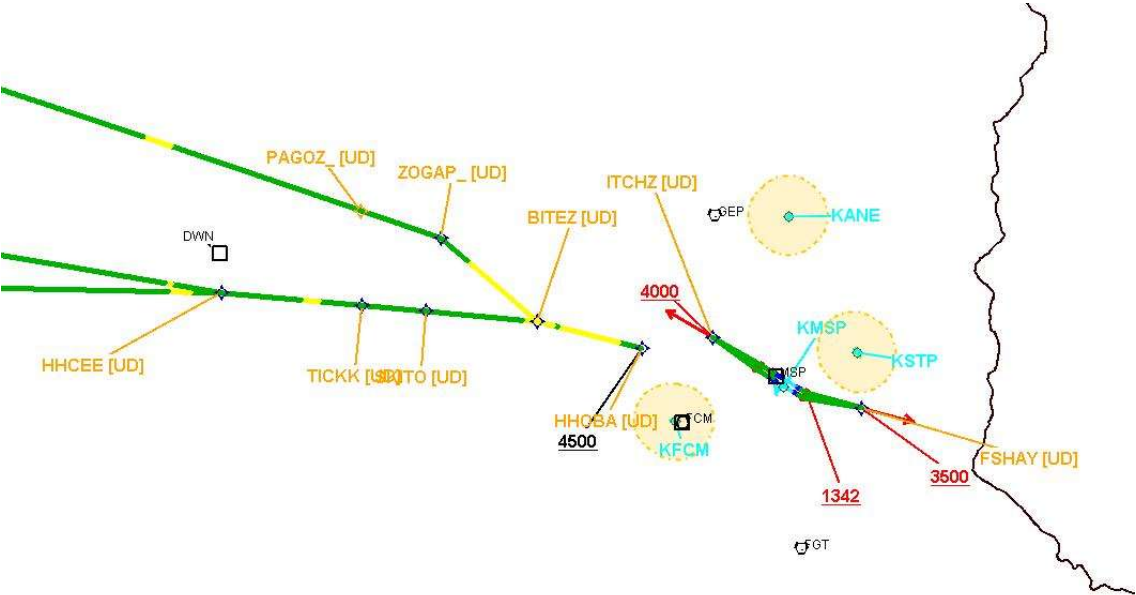
DME DME Assessment Results for BITEZ1 path HHCEE_LEINY

Graphic Depiction 1

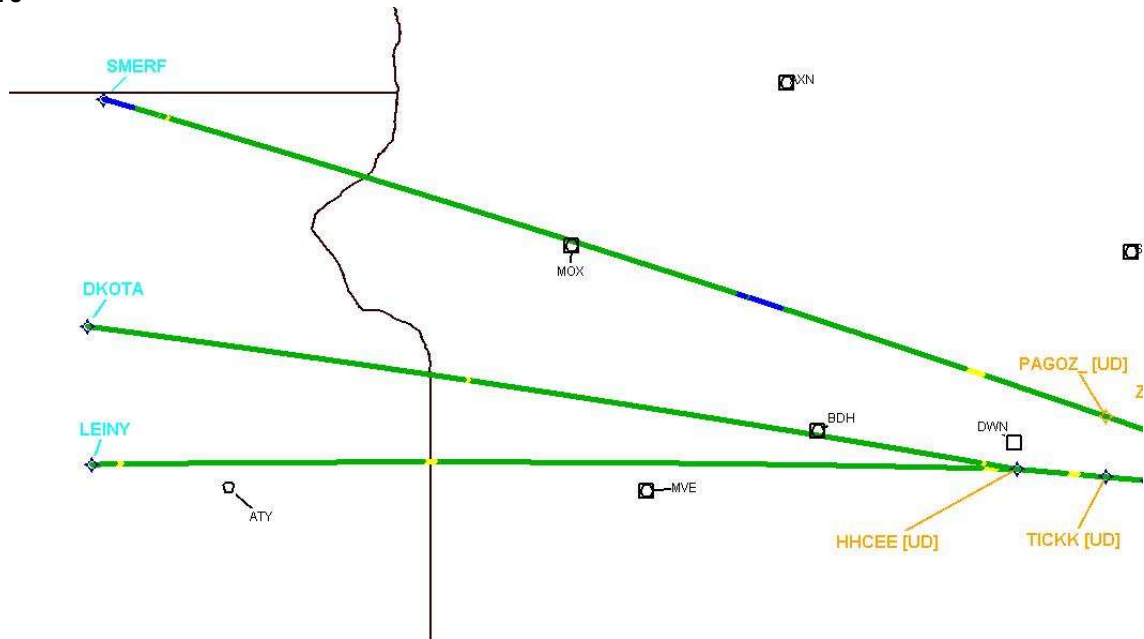


DME DME Assessment Results for BITEZ1 path HHCEE_LEINY

Graphic Depiction 2



Graphic Depiction 3



DME DME Assessment Results for BITEZ1 path HHOBA_DKOTA

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\SIDS\KMSP BITEZ ONE SID\KMSP SID BITEZ ONE DME 241211lu.tgs
Output File:	C:\Users\Lisa A-CTR Thrysoe\OneDrive - Federal Aviation Administration\Desktop\DME DME Screening\KMSP\SIDS\KMSP BITEZ ONE SID\+4500\KMSP [IFPA] BITEZ1 20250522_0723 EDT\HHOBA_DKOTA\KMSP BITEZ1 SID HHOBA DKOTA 20250522_0723 EDT.pdf
Procedure Name:	BITEZ1
Software: DmeDmePlugin:	7.5.0
Date/Time:	05/22/2025 07:23 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
HHOBA	WP	N44° 56' 27.0151", W093° 31' 55.6667"	4500	VNAV	200	NO_TURN	TF
BITEZ	WP	N44° 58' 55.2429", W093° 45' 34.4911"	5000	VNAV	200	FLY_BY	TF
SKITO	WP	N44° 59' 53.4930", W094° 00' 12.4597"	5000	VNAV	200	FLY_BY	TF
TICKK	WP	N45° 00' 26.1523", W094° 08' 37.7444"	5000	VNAV	200	FLY_BY	TF
HHCEE	WP	N45° 01' 35.1621", W094° 26' 59.2604"	7000	VNAV	200	FLY_BY	TF
DKOTA	WP	N45° 22' 17.0000", W097° 37' 27.0000"	8000	VNAV	200	FLY_BY	TF

Flyability

Flight Type:	SID
Selected Airport:	KMSP [IFPA]
Climb Gradient:	None assigned
Speeds:	130 at the Runway DER
	145 at the end of the VA or VI leg
	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 BITEZ1 path HHOBA_DKOTA

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:	Enabled
Disabled DMEs:	RST

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	RWF	N44° 28' 02.1854", W095° 07' 41.6276"	7.0 E	130	DH		NO	Enabled	76.7 %	76.7 %
2	ATY	N44° 58' 46.8710", W097° 08' 30.2005"	9.0 E	40	L		NO	Enabled	31.7 %	31.7 %
3	HON	N44° 26' 24.3000", W098° 18' 39.9051"	0.0 E	130	DH		NO	Enabled	22.9 %	22.9 %
4	BDH	N45° 07' 03.6139", W095° 07' 37.4209"	4.0 E	25	T		NO	Enabled	24.4 %	24.4 %
5	MSP	N44° 53' 47.0000", W093° 14' 12.0000"	0.0 E	130	DH		NO	Enabled	43.3 %	43.3 %
6	FCM	N44° 49' 31.2603", W093° 26' 33.6793"	1.0 E	40	L		NO	Enabled	19.3 %	19.3 %
7	ABR	N45° 25' 02.4840", W098° 22' 07.3906"	7.0 E	130	DH		NO	Enabled	32 %	32 %
8	FGT	N44° 37' 51.4303", W093° 10' 55.3911"	6.0 E	130	H		NO	Enabled	7 %	7 %
9	GEP	N45° 08' 44.4656", W093° 22' 23.4514"	6.0 E	130	H		NO	Enabled	18.2 %	18.2 %
10	FAR	N46° 45' 12.0129", W096° 51' 04.7483"	9.0 E	130	DH		NO	Enabled	20.1 %	20.1 %
11	AXN	N45° 57' 30.1977", W095° 13' 57.4854"	7.0 E	130	DH		NO	Enabled	61.9 %	61.9 %
12	MOX	N45° 33' 55.5024", W095° 58' 09.5980"	5.0 E	25	T		NO	Enabled	0.3 %	0.3 %
13	DWN	N45° 05' 14.8650", W094° 27' 13.8590"	0.0 E	40	L		NO	Enabled	38.2 %	38.2 %
14	MVE	N44° 58' 21.7969", W095° 42' 43.5558"	5.0 E	25	T		NO	Enabled	20.9 %	20.9 %
15	RST	N43° 46' 58.4501", W092° 35' 49.0560"	5.0 E	130	DH	IFPA	NO	Disabled		

DME DME Assessment Results for BITEZ1 path HHOBA_DKOTA

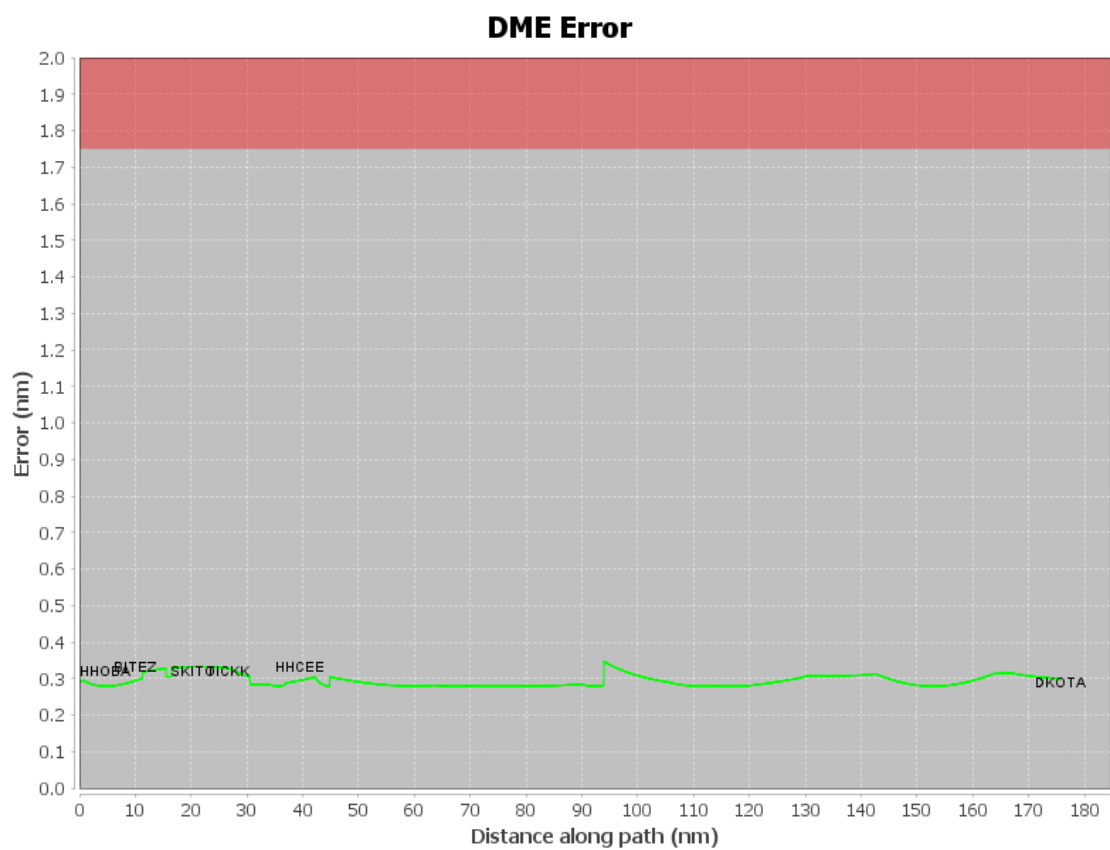
Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	GEP	MSP	FGT	FCM		
0.4	DWN	GEP	MSP	FGT	FCM	
8.3	FGT	GEP	FCM	MSP		
8.4	FGT	GEP	FCM	RWF	MSP	DWN
11.3	FCM	GEP	RWF	MSP	DWN	
32.1	RWF	AXN	DWN	FCM	MSP	
33.9	RWF	AXN	DWN	MSP		
37.0	RWF	AXN	MSP			
41.9	RWF	MSP				
44.2	DWN	AXN	RWF	BDH	MSP	
44.8	RWF	BDH	MSP			
49.6	RWF	BDH	MSP	DWN		
55.7	RWF	BDH	MSP	DWN	AXN	
65.6	DWN	RWF	AXN	MSP		
71.9	BDH	AXN	DWN	RWF	MSP	
76.2	DWN	AXN	BDH	RWF	MVE	
79.7	BDH	AXN	RWF	MVE		
93.5	RWF	AXN	MVE			
93.8	RWF	AXN				
95.6	RWF	AXN	MVE			
111.3	RWF	AXN				
119.6	RWF	AXN	ABR			
120.0	RWF	AXN	MOX	ATY	ABR	
120.6	RWF	AXN	ATY	ABR		
135.4	ATY	RWF	AXN	HON	ABR	
143.3	ATY	ABR	FAR	AXN	HON	
152.7	ATY	ABR	FAR	HON		

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

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
HHOBA	BITEZ	RWF, FCM, FGT, GEP, DWN, MSP	
BITEZ	SKITO	RWF, FCM, FGT, GEP, DWN, MSP	
SKITO	TICKK	RWF, FCM, GEP, DWN, MSP	
TICKK	HHCEE	RWF, FCM, GEP, AXN, DWN, MSP	
HHCEE	DKOTA	RWF, ABR, ATY, HON, FAR, AXN, BDH, MOX, DWN, MSP, MVE	

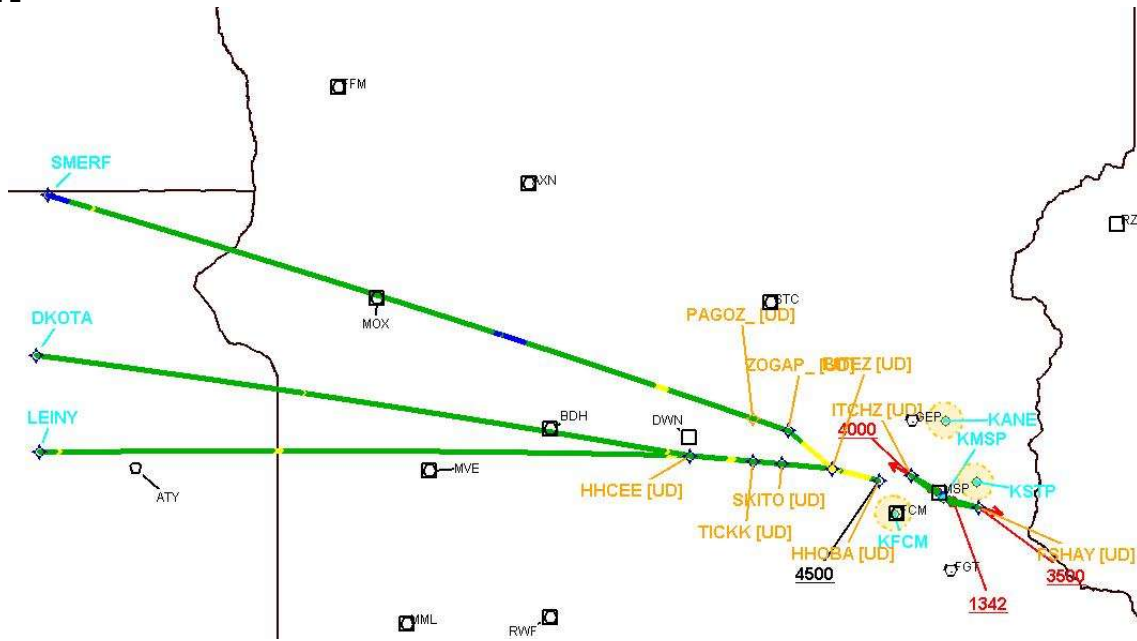
User Data Files								
#	File Name							
1	New Analysis.udt							
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	MHE MHE	N43° 46' 37.2780", W098° 02' 15.2357"	4.0 E	40	1298.1	114.15	MHE	
ESV:		Bearing [True]: 12.0° to 17.0° Bearing [Mag]: 8.0° to 13.0°				Arc Distance: Out to 83.0 NM Altitude: 7800.0 to 19300.0 ft		
2	ATY FAA 704243-10 ATY	N44° 58' 46.8710", W097° 08' 30.2005"	9.0 E	40	1762.8	null	ATY FAA 704243-10	
ESV:		Bearing [True]: 344.0° to 59.0° Bearing [Mag]: 335.0° to 50.0°				Arc Distance: Out to 75.0 NM Altitude: 5000.0 to 14500.0 ft		

DME DME Assessment Results for BITEZ1 path HHOBA_DKOTA



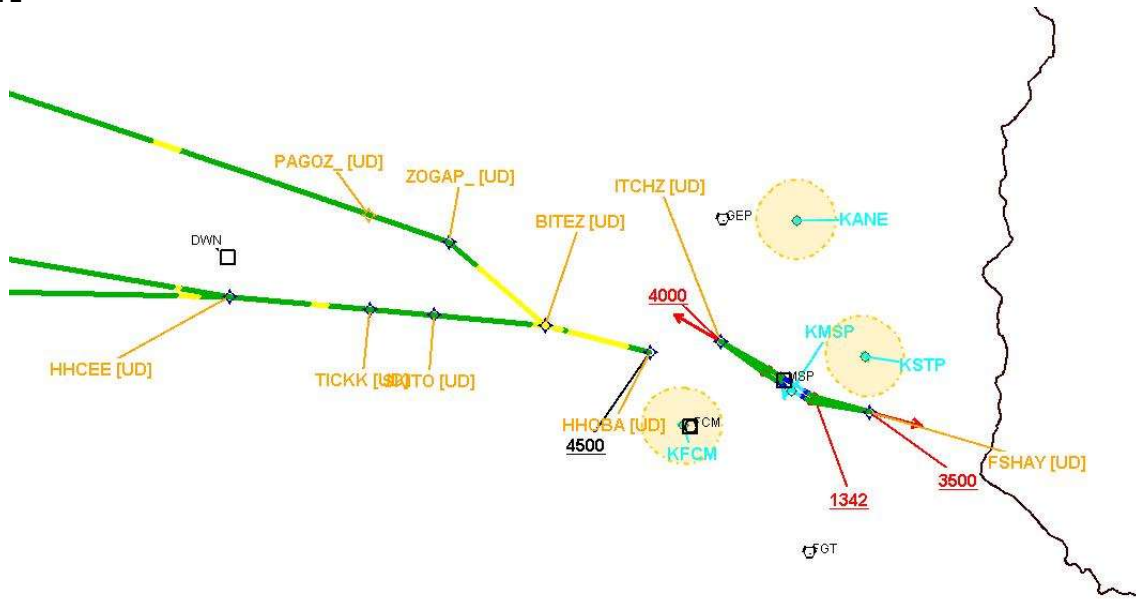
DME DME Assessment Results for BITEZ1 path HHOBA_DKOTA

Graphic Depiction 1



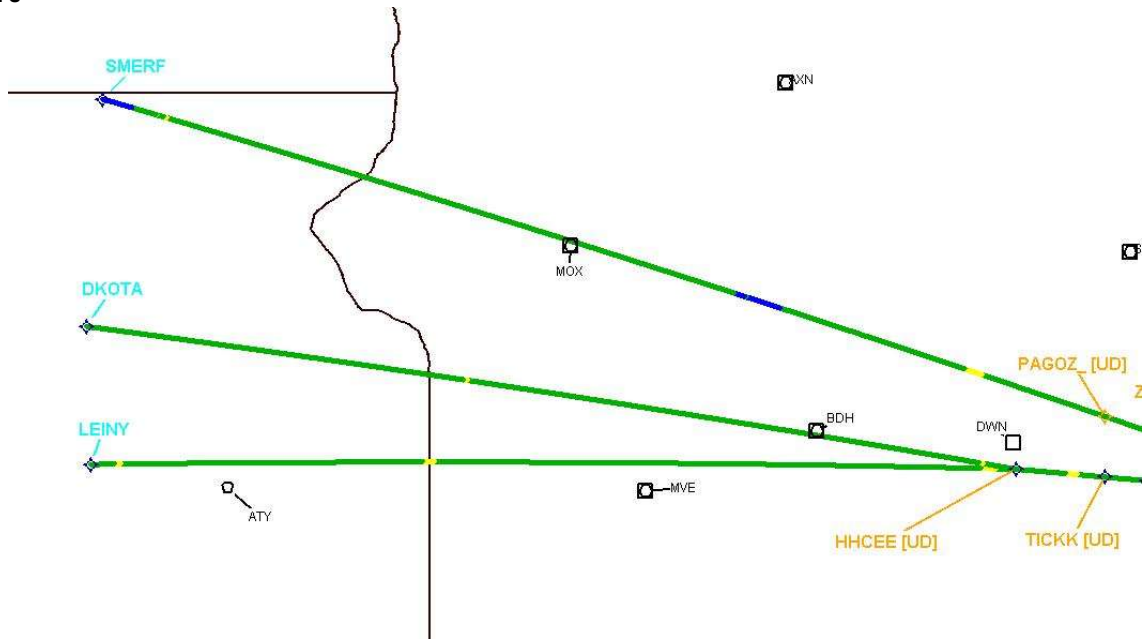
DME DME Assessment Results for BITEZ1 path HHOBA_DKOTA

Graphic Depiction 2



DME DME Assessment Results for BITEZ1 path HHOBA_DKOTA

Graphic Depiction 3



DME DME Assessment Results for BITEZ1 path KMSP:RW12L:DER_FSHAY

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\SIDS\KMSP BITEZ ONE SID\KMSP SID BITEZ ONE DME 241211lu.tgs
Output File:	C:\Users\Lisa A-CTR Thrysoe\OneDrive - Federal Aviation Administration\Desktop\DME DME Screening\KMSP\SIDS\KMSP BITEZ ONE SID\+4500\KMSP [IFPA] BITEZ1 20250522_0723 EDT\KMSP-RW12L-DER_FSHAY\KMSP BITEZ1 SID RW12L FSHAY 20250522_0723 EDT.pdf
Procedure Name:	BITEZ1
Software: DmeDmePlugin:	7.5.0
Date/Time:	05/22/2025 07:23 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
KMSP:RW12L:DER	WP	N44° 52' 52.5152", W093° 11' 38.2960"	819.5	VNAV	130	FLY_OVER	TF
FSHAY	WP	N44° 50' 55.8240", W093° 03' 03.1437"	3500	VNAV	200	FLY_BY	TF
Climb Gradient: 500.0 ft/NM up to 1342.0 ft MSL 200.0 ft/NM							

Flyability

Flight Type:	SID
Selected Airport:	KMSP [IFPA]
Climb Gradient:	500.0 ft/NM up to 1342.0 ft MSL 200.0 ft/NM
Speeds:	130 at the Runway DER
	145 at the end of the VA or VI leg
	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 BITEZ1 path KMSP:RW12L:DER_FSHAY

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:	Enabled
Disabled DMEs:	RST

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	4.4 %	3.9 %
2	FCM	N44° 49' 31.2603", W093° 26' 33.6793"	1.0 E	40	L		NO	Enabled	86.4 %	88.3 %
3	FGT	N44° 37' 51.4303", W093° 10' 55.3911"	6.0 E	130	H		NO	Enabled	81 %	83.2 %
4	GEP	N45° 08' 44.4656", W093° 22' 23.4514"	6.0 E	130	H		NO	Enabled	90.2 %	91.6 %
5	MSP	N44° 53' 47.0000", W093° 14' 12.0000"	0.0 E	130	DH		NO	Enabled	60.7 %	63.9 %
6	RST	N43° 46' 58.4501", W092° 35' 49.0560"	5.0 E	130	DH	IFPA	NO	Disabled		

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0						
0.5	FNX	GEP				
0.8	FCM	GEP	FNX			
0.8	FCM	GEP				
1.1	FCM	GEP	FGT			
2.3	FCM	FGT	MSP	GEP		

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N44° 52' 51.3905", W093° 11' 35.6994"	N44° 52' 35.6425", W093° 10' 59.3492"	0.5045

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
KMSP:RW12L:DER	FSHAY	FNX, FCM, FGT, GEP, MSP	

DME DME Assessment Results for BITEZ1 path KMSP:RW12L:DER_FSHAY

User Data Files

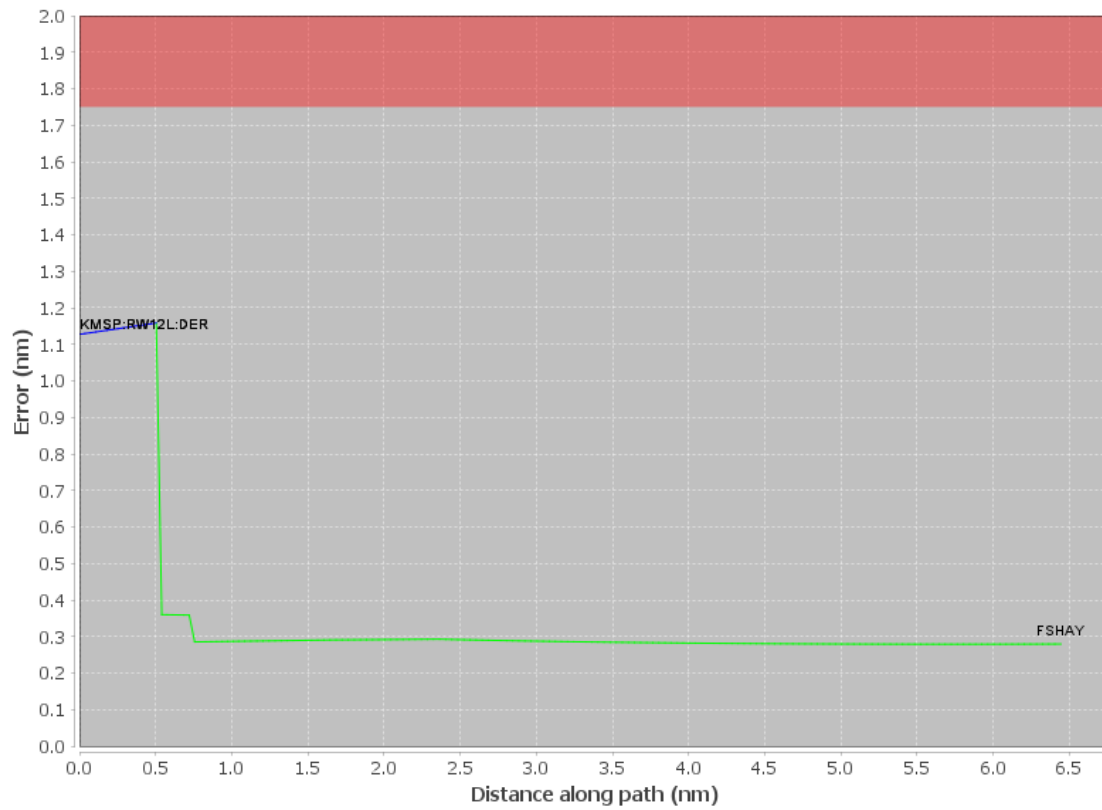
#	File Name
1	New Analysis.udt

User DMEs

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	MHE MHE	N43° 46' 37.2780", W098° 02' 15.2357"	4.0 E	40	1298.1	114.15	MHE	
ESV:		Bearing [True]: 12.0° to 17.0° Bearing [Mag]: 8.0° to 13.0°				Arc Distance: Out to 83.0 NM Altitude: 7800.0 to 19300.0 ft		
2	ATY FAA 704243-10 ATY	N44° 58' 46.8710", W097° 08' 30.2005"	9.0 E	40	1762.8	null	ATY FAA 704243-10	
ESV:		Bearing [True]: 344.0° to 59.0° Bearing [Mag]: 335.0° to 50.0°				Arc Distance: Out to 75.0 NM Altitude: 5000.0 to 14500.0 ft		

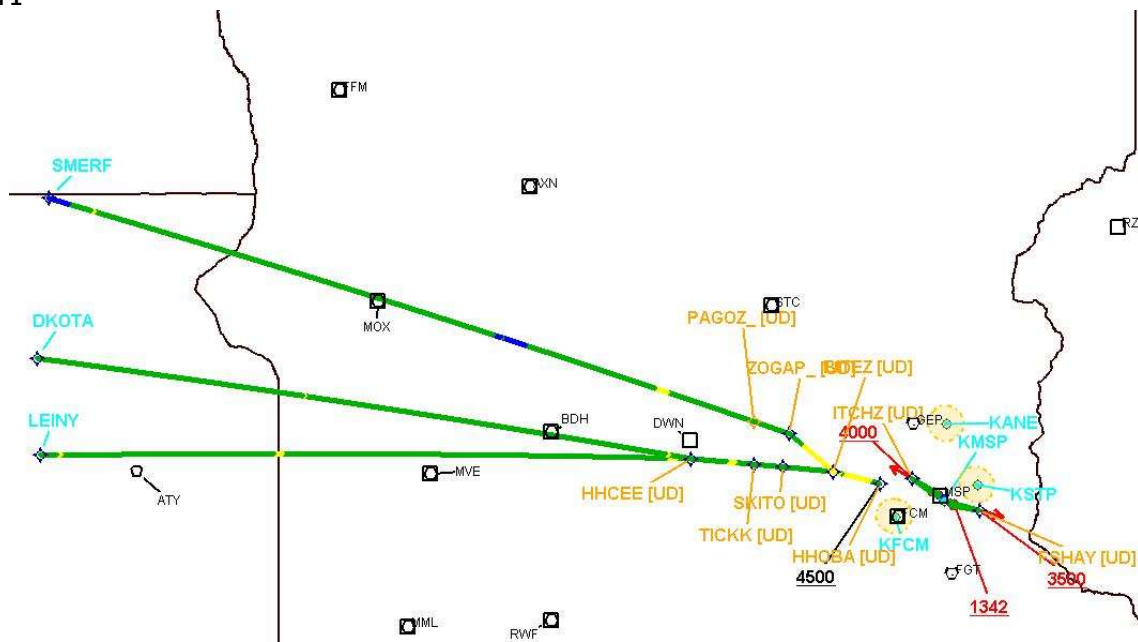
DME DME Assessment Results for BITEZ1 path KMSP:RW12L:DER_FSHAY

DME Error



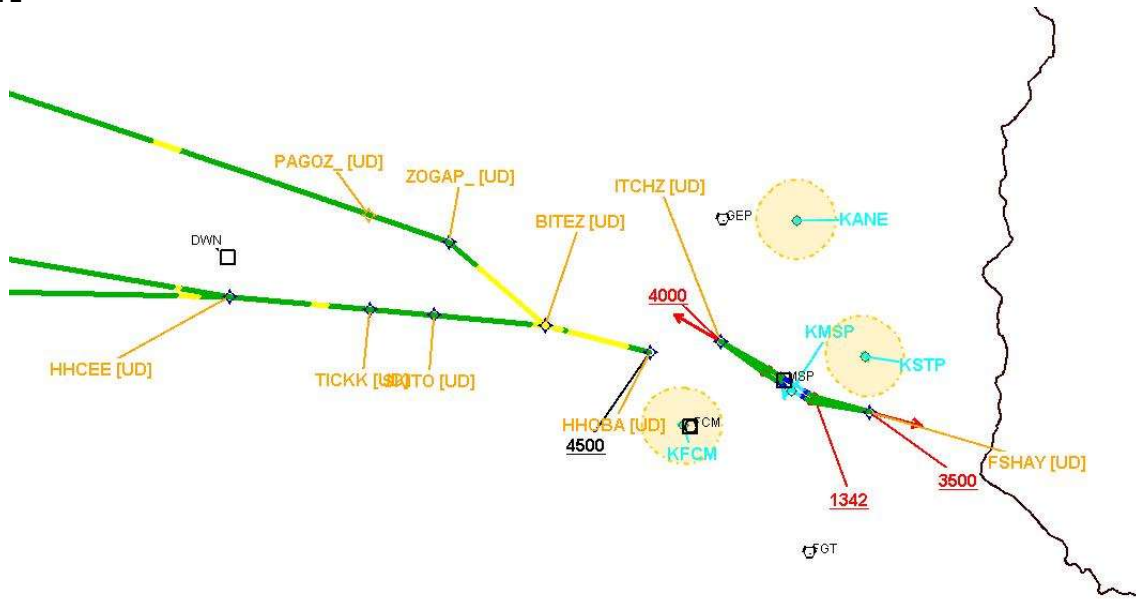
DME DME Assessment Results for BITEZ1 path KMSP:RW12L:DER_FSHAY

Graphic Depiction 1



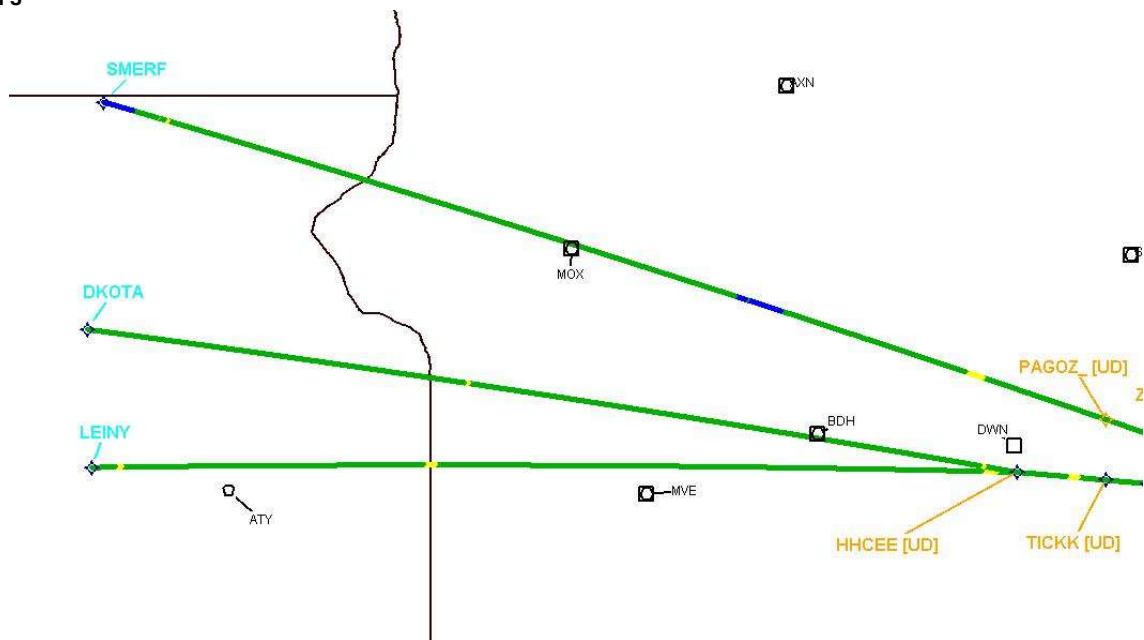
DME DME Assessment Results for BITEZ1 path KMSP:RW12L:DER_FSHAY

Graphic Depiction 2



DME DME Assessment Results for BITEZ1 path KMSP:RW12L:DER_FSHAY

Graphic Depiction 3



DME DME Assessment Results for BITEZ1 path KMSP:RW12R:DER_FSHAY

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\SIDS\KMSP BITEZ ONE SID\KMSP SID BITEZ ONE DME 241211lu.tgs
Output File:	C:\Users\Lisa A-CTR Thrysoe\OneDrive - Federal Aviation Administration\Desktop\DME DME Screening\KMSP\SIDS\KMSP BITEZ ONE SID\+4500\KMSP [IFPA] BITEZ1 20250522_0723 EDT\KMSP-RW12R-DER_FSHAY\KMSP BITEZ1 SID RW12R FSHAY 20250522_0723 EDT.pdf
Procedure Name:	BITEZ1
Software: DmeDmePlugin:	7.5.0
Date/Time:	05/22/2025 07:23 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
KMSP:RW12R:DER	WP	N44° 52' 24.6800", W093° 12' 04.2689"	814.4	VNAV	130	FLY_OVER	TF
FSHAY	WP	N44° 50' 55.8240", W093° 03' 03.1437"	3500	VNAV	200	FLY_BY	TF
Climb Gradient: 500.0 ft/NM up to 1342.0 ft MSL 200.0 ft/NM							

Flyability

Flight Type:	SID
Selected Airport:	KMSP [IFPA]
Climb Gradient:	500.0 ft/NM up to 1342.0 ft MSL 200.0 ft/NM
Speeds:	130 at the Runway DER
	145 at the end of the VA or VI leg
	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 BITEZ1 path KMSP:RW12R:DER_FSHAY

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:	Enabled
Disabled DMEs:	RST

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	4.1 %	3.7 %
2	FCM	N44° 49' 31.2603", W093° 26' 33.6793"	1.0 E	40	L		NO	Enabled	89.5 %	91 %
3	FGT	N44° 37' 51.4303", W093° 10' 55.3911"	6.0 E	130	H		NO	Enabled	80.1 %	82.3 %
4	GEP	N45° 08' 44.4656", W093° 22' 23.4514"	6.0 E	130	H		NO	Enabled	90.1 %	91.5 %
5	MSP	N44° 53' 47.0000", W093° 14' 12.0000"	0.0 E	130	DH		NO	Enabled	61.6 %	64.8 %
6	RST	N43° 46' 58.4501", W092° 35' 49.0560"	5.0 E	130	DH	IFPA	NO	Disabled		

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0						
0.6	FNX	GEP				
0.6	FCM	GEP	FNX			
0.8	FCM	GEP				
1.1	FCM	FGT	GEP			
1.1	FCM	GEP				
1.2	FCM	FGT	GEP			
2.3	FCM	FGT	GEP	MSP		

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N44° 52' 23.5819", W093° 12' 01.7348"	N44° 52' 07.1089", W093° 11' 23.7270"	0.5276

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
KMSP:RW12R:DER	FSHAY	FNX, FCM, FGT, GEP, MSP	

DME DME Assessment Results for BITEZ1 path KMSP:RW12R:DER_FSHAY

User Data Files

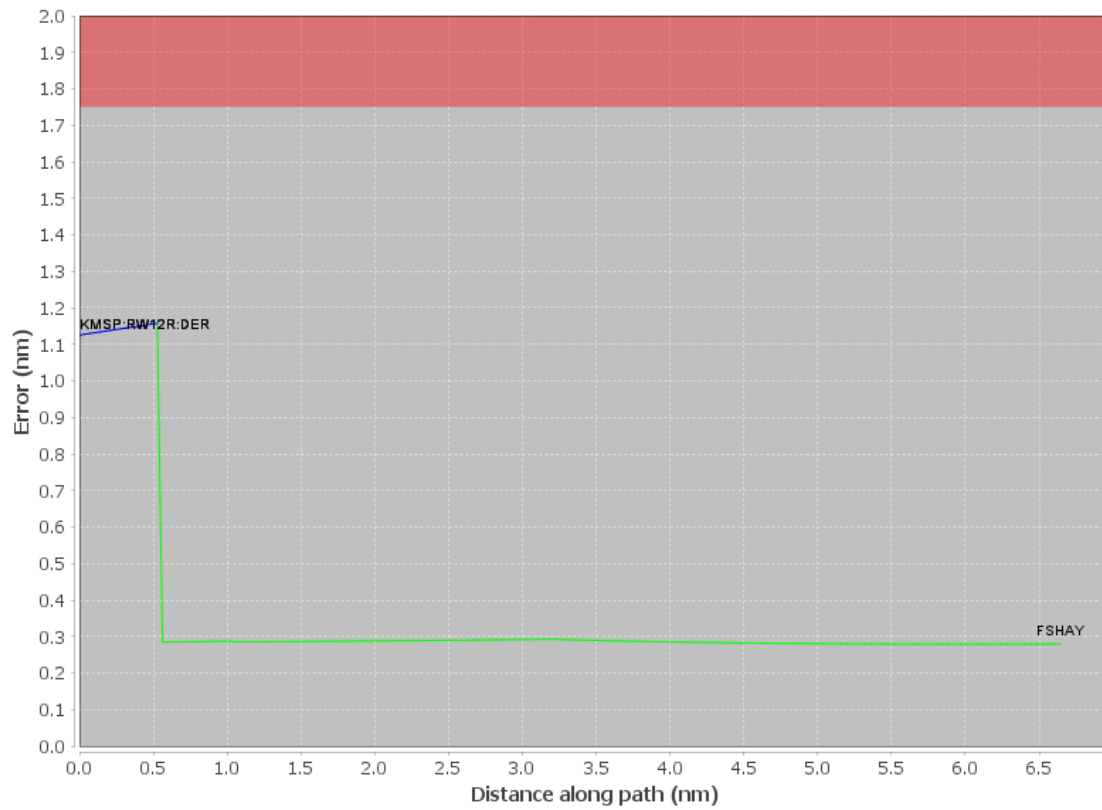
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User DMEs

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	MHE MHE	N43° 46' 37.2780", W098° 02' 15.2357"	4.0 E	40	1298.1	114.15	MHE	
ESV:		Bearing [True]: 12.0° to 17.0° Bearing [Mag]: 8.0° to 13.0°				Arc Distance: Out to 83.0 NM Altitude: 7800.0 to 19300.0 ft		
2	ATY FAA 704243-10 ATY	N44° 58' 46.8710", W097° 08' 30.2005"	9.0 E	40	1762.8	null	ATY FAA 704243-10	
ESV:		Bearing [True]: 344.0° to 59.0° Bearing [Mag]: 335.0° to 50.0°				Arc Distance: Out to 75.0 NM Altitude: 5000.0 to 14500.0 ft		

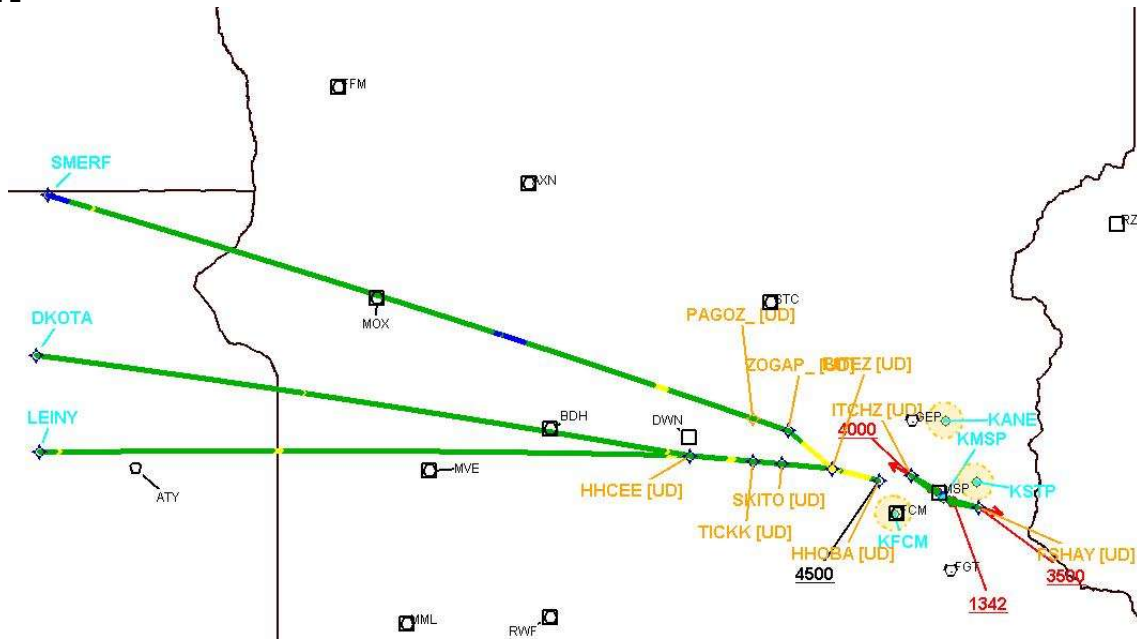
DME DME Assessment Results for BITEZ1 path KMSP:RW12R:DER_FSHAY

DME Error



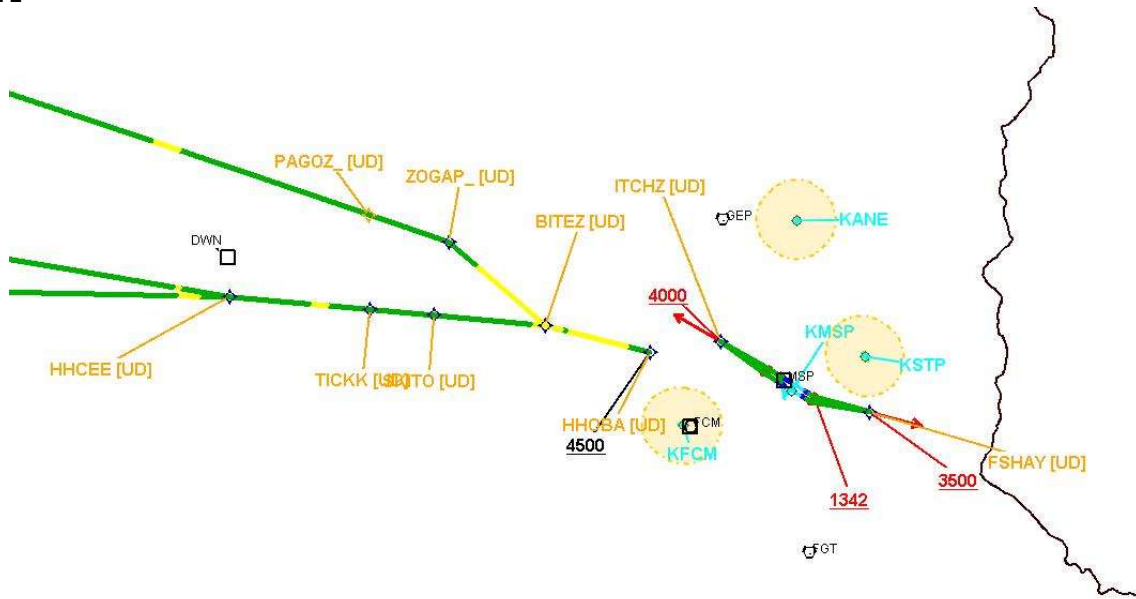
DME DME Assessment Results for BITEZ1 path KMSP:RW12R:DER_FSHAY

Graphic Depiction 1



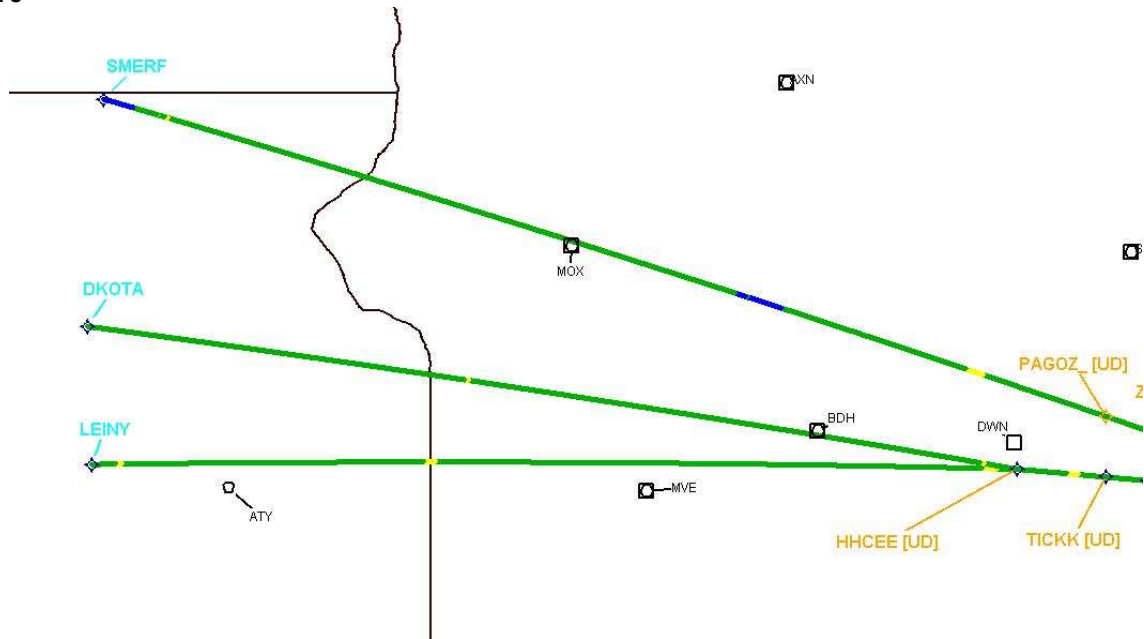
DME DME Assessment Results for BITEZ1 path KMSP:RW12R:DER_FSHAY

Graphic Depiction 2



DME DME Assessment Results for BITEZ1 path KMSP:RW12R:DER_FSHAY

Graphic Depiction 3



DME DME Assessment Results for BITEZ1 path KMSP:RW30L:DER_ITCHZ

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\SIDS\KMSP BITEZ ONE SID\KMSP SID BITEZ ONE DME 241211lu.tgs
Output File:	C:\Users\Lisa A-CTR Thrysoe\OneDrive - Federal Aviation Administration\Desktop\DME DME Screening\KMSP\SIDS\KMSP BITEZ ONE SID\+4500\KMSP [IFPA] BITEZ1 20250522_0723 EDT\KMSP-RW30L-DER_ITCHZ\KMSP BITEZ1 SID RW30L ITCHZ 20250522_0723 EDT.pdf
Procedure Name:	BITEZ1
Software: DmeDmePlugin:	7.5.0
Date/Time:	05/22/2025 07:23 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
KMSP:RW30L:DER	WP	N44° 53' 16.0438", W093° 14' 02.8731"	841.8	VNAV	130	FLY_OVER	TF
ITCHZ	WP	N44° 57' 25.8783", W093° 22' 36.3750"	4000	VNAV	200	FLY_BY	TF
Climb Gradient: 200.0 ft/NM							

Flyability

Flight Type:	SID
Selected Airport:	KMSP [IFPA]
Climb Gradient:	200.0 ft/NM
Speeds:	130 at the Runway DER
	145 at the end of the VA or VI leg
	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 BITEZ1 path KMSP:RW30L:DER_ITCHZ

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:	Enabled
Disabled DMEs:	RST

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	12.1 %	10.7 %
2	FCM	N44° 49' 31.2603", W093° 26' 33.6793"	1.0 E	40	L		NO	Enabled	77.3 %	80.1 %
3	FGT	N44° 37' 51.4303", W093° 10' 55.3911"	6.0 E	130	H		NO	Enabled	53.6 %	58 %
4	GEP	N45° 08' 44.4656", W093° 22' 23.4514"	6.0 E	130	H		NO	Enabled	57.8 %	55.2 %
5	MSP	N44° 53' 47.0000", W093° 14' 12.0000"	0.0 E	130	DH		NO	Enabled	37 %	41.7 %
6	RST	N43° 46' 58.4501", W092° 35' 49.0560"	5.0 E	130	DH	IFPA	NO	Disabled		

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0						
1.1	FNX	GEP				
1.5	FCM	GEP	FNX			
2.0	FCM	GEP				
3.1	FCM	FGT	GEP			
4.3	FCM	MSP	FGT	GEP		
5.3	FCM	MSP	FGT			

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N44° 53' 17.1585", W093° 14' 05.4485"	N44° 53' 51.7048", W093° 15' 25.2984"	1.1075

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
KMSP:RW30L:DER	ITCHZ	FNX, FCM, FGT, GEP, MSP	

DME DME Assessment Results for BITEZ1 path KMSP:RW30L:DER_ITCHZ

User Data Files

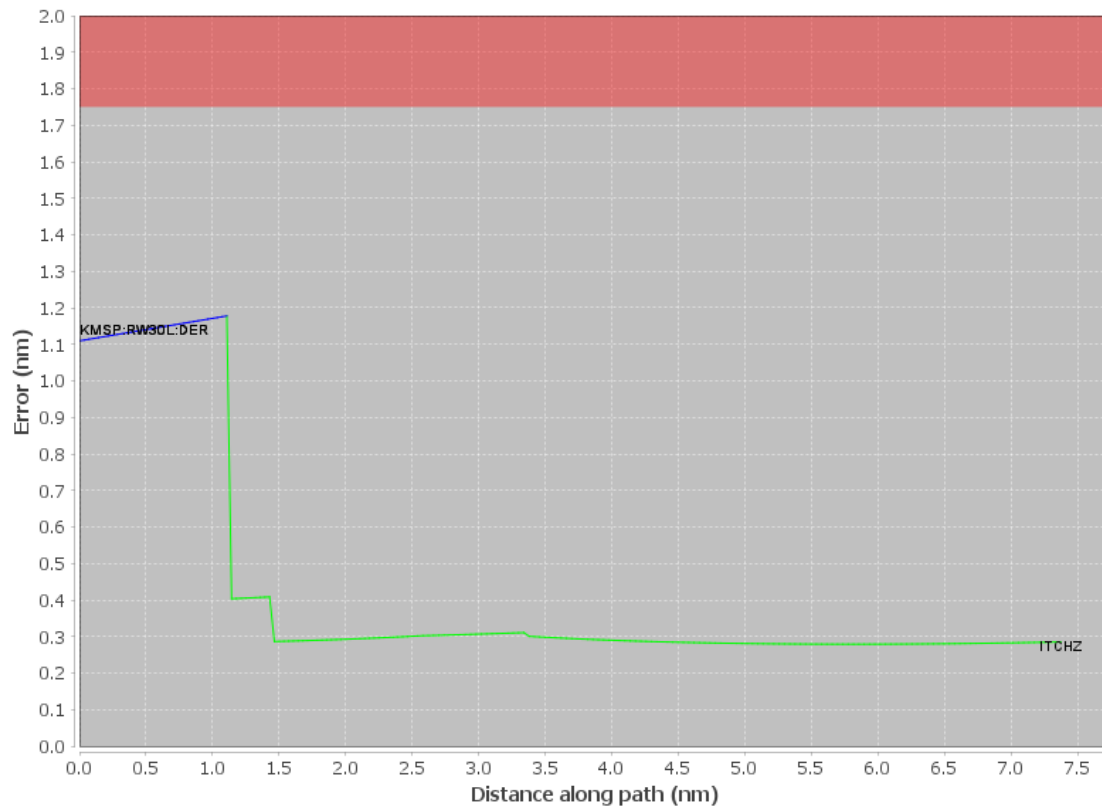
#	File Name
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User DMEs

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	MHE MHE	N43° 46' 37.2780", W098° 02' 15.2357"	4.0 E	40	1298.1	114.15	MHE	
ESV:		Bearing [True]: 12.0° to 17.0° Bearing [Mag]: 8.0° to 13.0°				Arc Distance: Out to 83.0 NM Altitude: 7800.0 to 19300.0 ft		
2	ATY FAA 704243-10 ATY	N44° 58' 46.8710", W097° 08' 30.2005"	9.0 E	40	1762.8	null	ATY FAA 704243-10	
ESV:		Bearing [True]: 344.0° to 59.0° Bearing [Mag]: 335.0° to 50.0°				Arc Distance: Out to 75.0 NM Altitude: 5000.0 to 14500.0 ft		

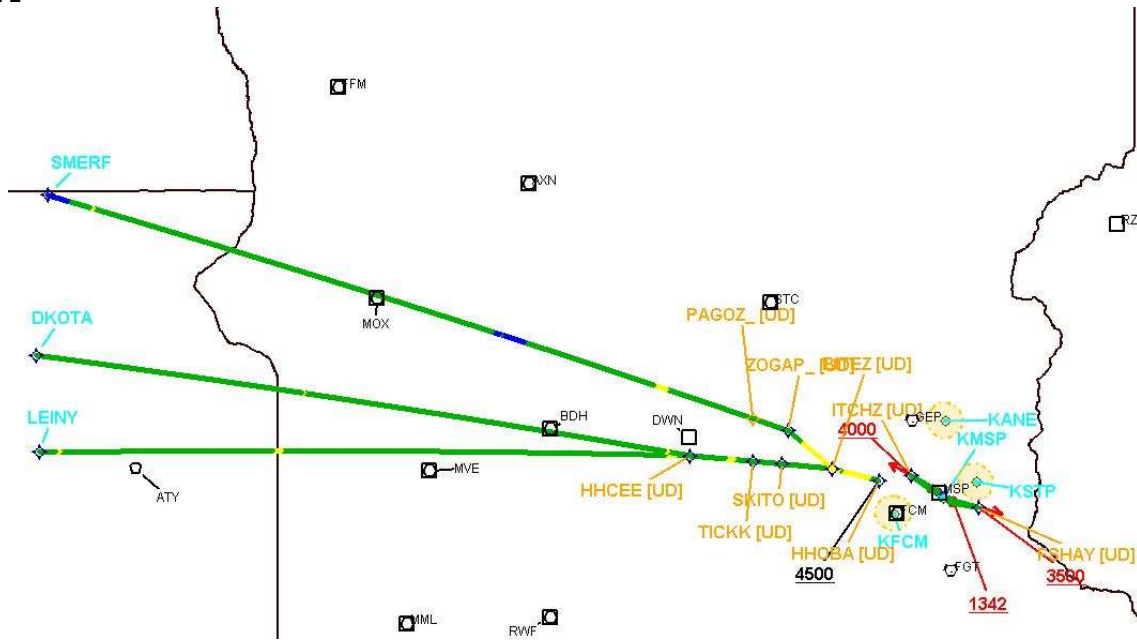
DME DME Assessment Results for BITEZ1 path KMSP:RW30L:DER_ITCHZ

DME Error



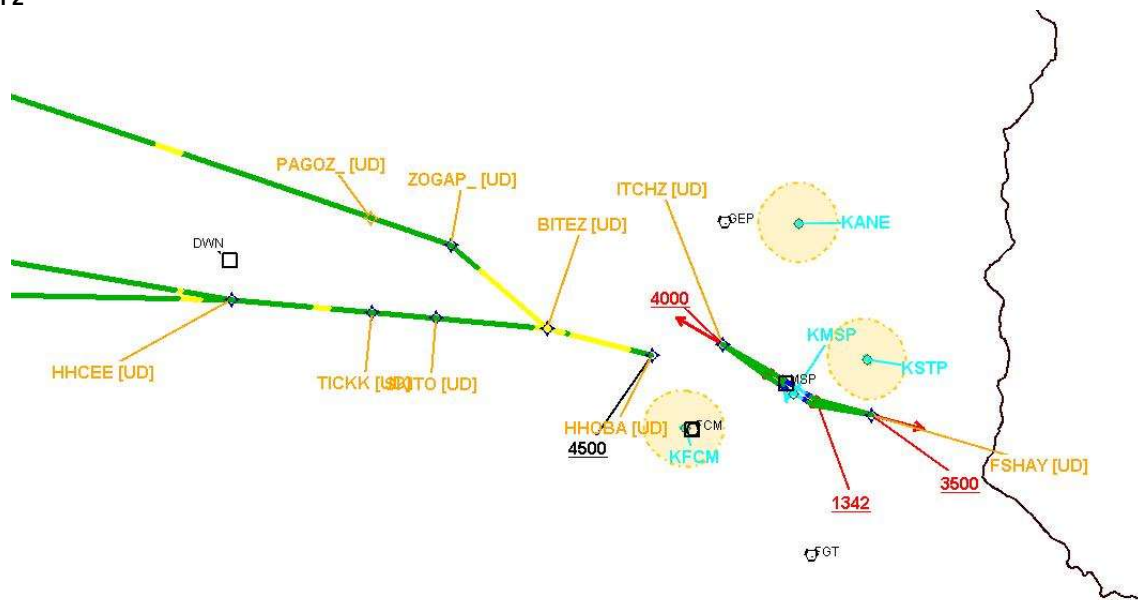
DME DME Assessment Results for BITEZ1 path KMSP:RW30L:DER_ITCHZ

Graphic Depiction 1



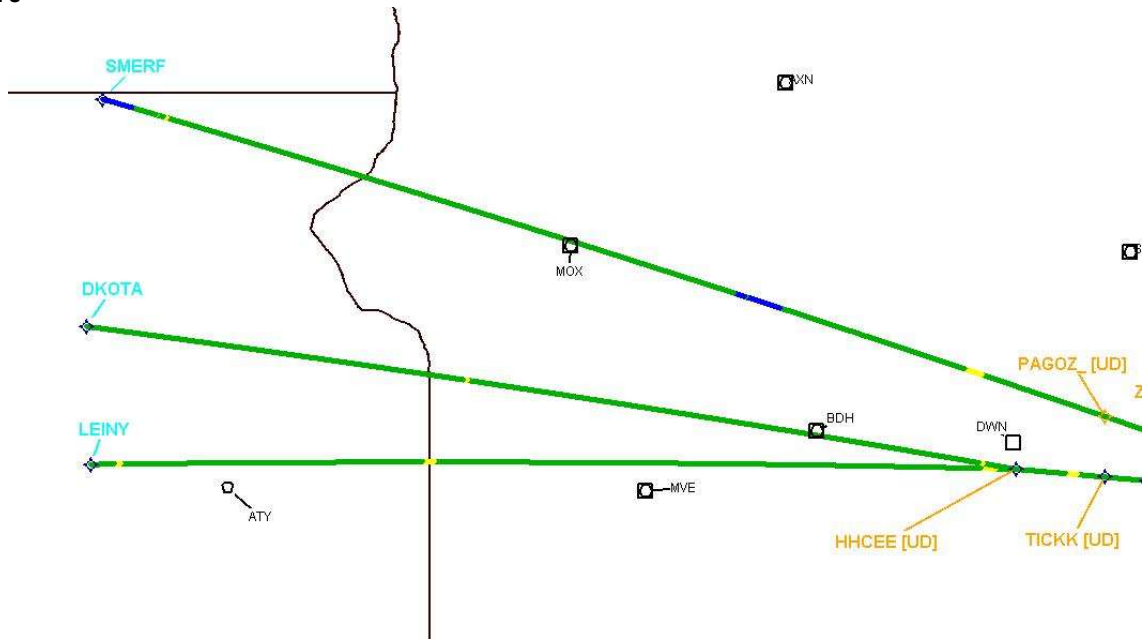
DME DME Assessment Results for BITEZ1 path KMSP:RW30L:DER_ITCHZ

Graphic Depiction 2



DME DME Assessment Results for BITEZ1 path KMSP:RW30L:DER_ITCHZ

Graphic Depiction 3



DME DME Assessment Results for BITEZ1 path KMSP:RW30R:DER_ITCHZ

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\SIDS\KMSP BITEZ ONE SID\KMSP SID BITEZ ONE DME 241211lu.tgs
Output File:	C:\Users\Lisa A-CTR Thrysoe\OneDrive - Federal Aviation Administration\Desktop\DME DME Screening\KMSP\SIDS\KMSP BITEZ ONE SID\+4500\KMSP [IFPA] BITEZ1 20250522_0723 EDT\KMSP-RW30R-DER_ITCHZ\KMSP BITEZ1 SID RW30R ITCHZ 20250522_0723 EDT.pdf
Procedure Name:	BITEZ1
Software: DmeDmePlugin:	7.5.0
Date/Time:	05/22/2025 07:23 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
KMSP:RW30R:DER	WP	N44° 53' 34.6287", W093° 13' 15.5666"	838.6	VNAV	130	FLY_OVER	TF
ITCHZ	WP	N44° 57' 25.8783", W093° 22' 36.3750"	4000	VNAV	200	FLY_BY	TF
Climb Gradient: 200.0 ft/NM							

Flyability

Flight Type:	SID
Selected Airport:	KMSP [IFPA]
Climb Gradient:	200.0 ft/NM
Speeds:	130 at the Runway DER
	145 at the end of the VA or VI leg
	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 BITEZ1 path KMSP:RW30R:DER_ITCHZ

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:	Enabled
Disabled DMEs:	RST

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	13.3 %	11.7 %
2	FCM	N44° 49' 31.2603", W093° 26' 33.6793"	1.0 E	40	L		NO	Enabled	76.5 %	79.4 %
3	FGT	N44° 37' 51.4303", W093° 10' 55.3911"	6.0 E	130	H		NO	Enabled	59.5 %	63.6 %
4	GEP	N45° 08' 44.4656", W093° 22' 23.4514"	6.0 E	130	H		NO	Enabled	66.7 %	64.5 %
5	MSP	N44° 53' 47.0000", W093° 14' 12.0000"	0.0 E	130	DH		NO	Enabled	31.8 %	36.5 %
6	RST	N43° 46' 58.4501", W092° 35' 49.0560"	5.0 E	130	DH	IFPA	NO	Disabled		

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0						
1.0	FNX	GEP				
1.6	FCM	GEP	FNX			
2.0	FCM	GEP				
2.8	FCM	GEP	FGT			
4.9	FCM	MSP	FGT	GEP		
6.0	FCM	MSP	FGT			

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N44° 53' 35.7504", W093° 13' 18.1587"	N44° 54' 07.1520", W093° 14' 30.7496"	1.0067

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
KMSP:RW30R:DER	ITCHZ	FNX, FCM, FGT, GEP, MSP	

DME DME Assessment Results for BITEZ1 path KMSP:RW30R:DER_ITCHZ

User Data Files

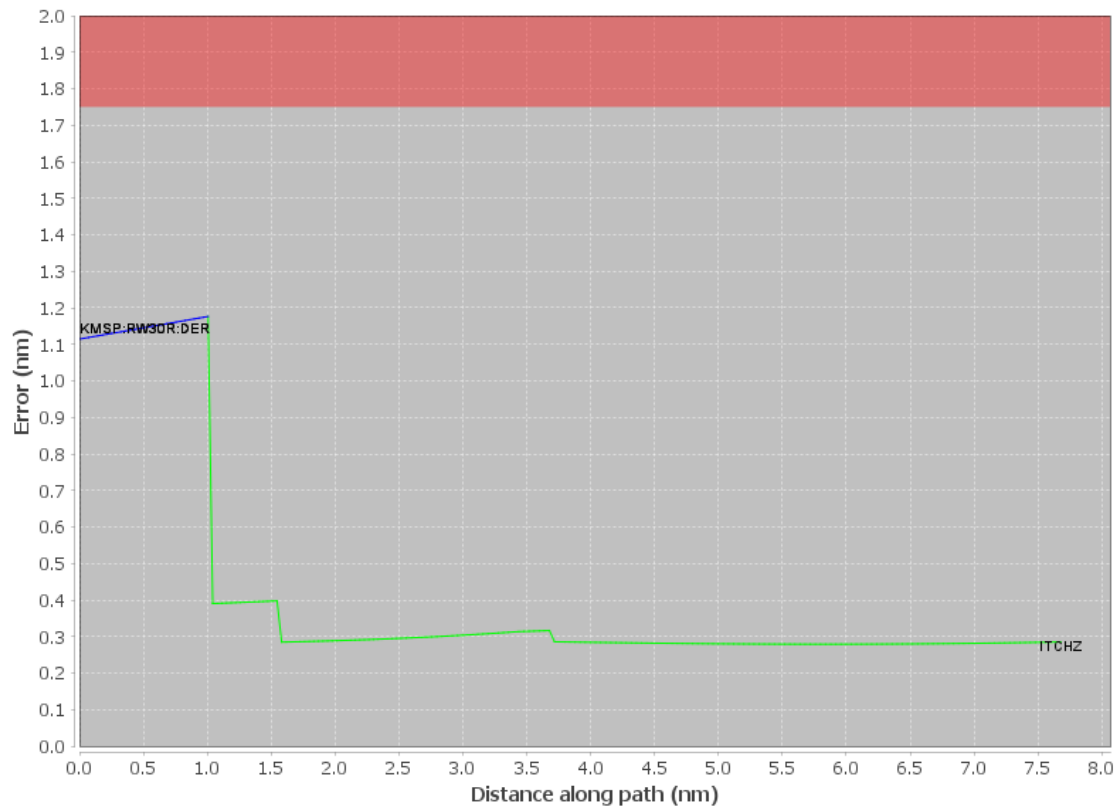
#	File Name
1	New Analysis.udt

User DMEs

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	MHE MHE	N43° 46' 37.2780", W098° 02' 15.2357"	4.0 E	40	1298.1	114.15	MHE	
ESV:		Bearing [True]: 12.0° to 17.0° Bearing [Mag]: 8.0° to 13.0°				Arc Distance: Out to 83.0 NM Altitude: 7800.0 to 19300.0 ft		
2	ATY FAA 704243-10 ATY	N44° 58' 46.8710", W097° 08' 30.2005"	9.0 E	40	1762.8	null	ATY FAA 704243-10	
ESV:		Bearing [True]: 344.0° to 59.0° Bearing [Mag]: 335.0° to 50.0°				Arc Distance: Out to 75.0 NM Altitude: 5000.0 to 14500.0 ft		

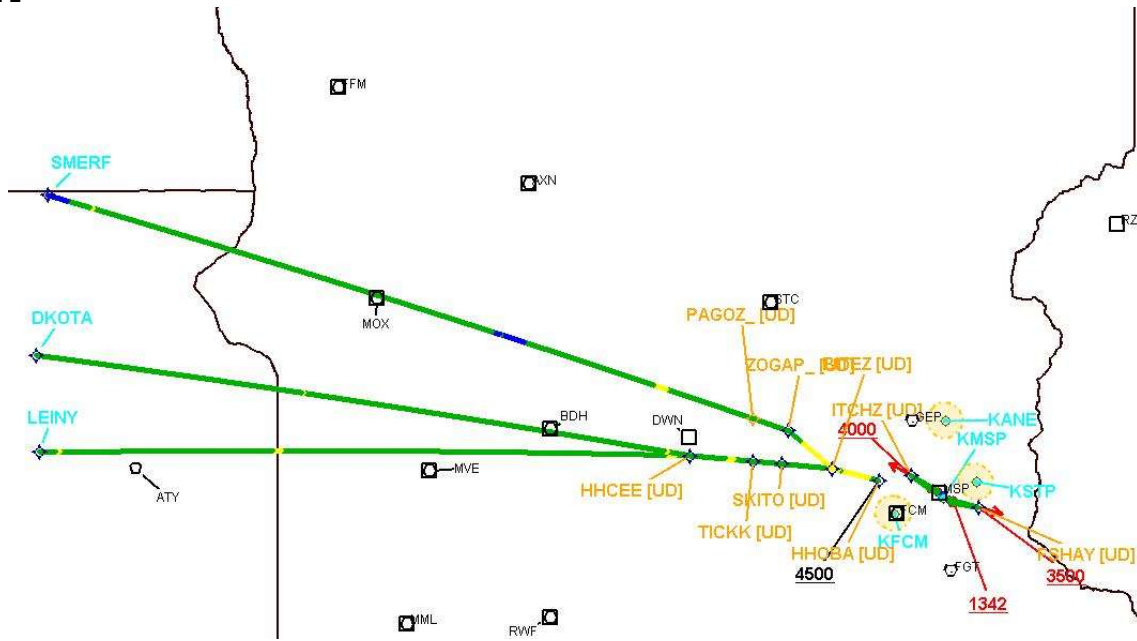
DME DME Assessment Results for BITEZ1 path KMSP:RW30R:DER_ITCHZ

DME Error



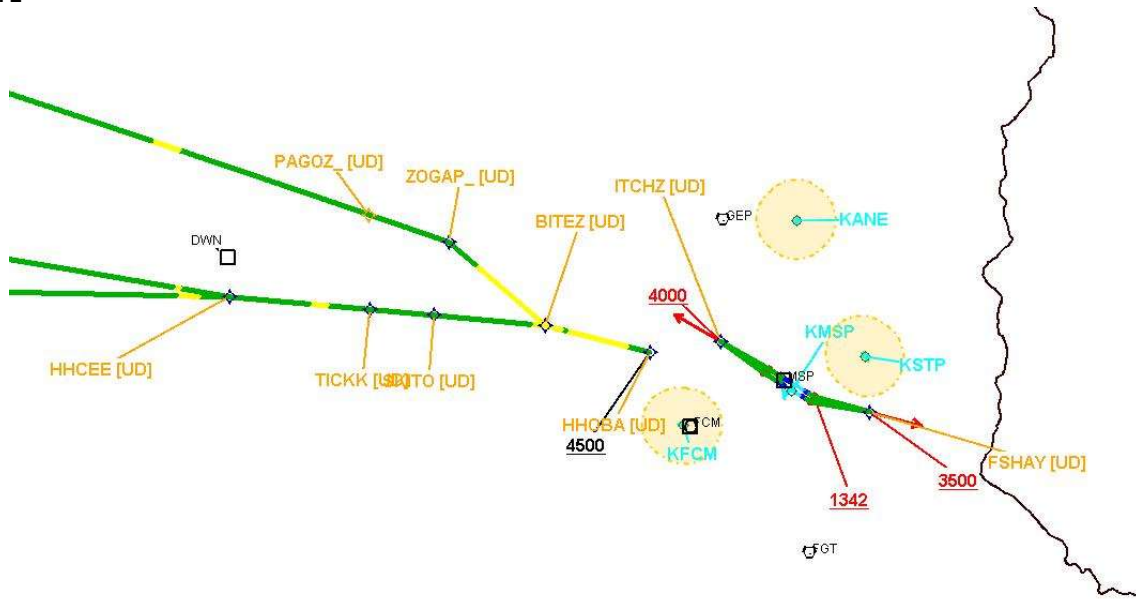
DME DME Assessment Results for BITEZ1 path KMSP:RW30R:DER_ITCHZ

Graphic Depiction 1



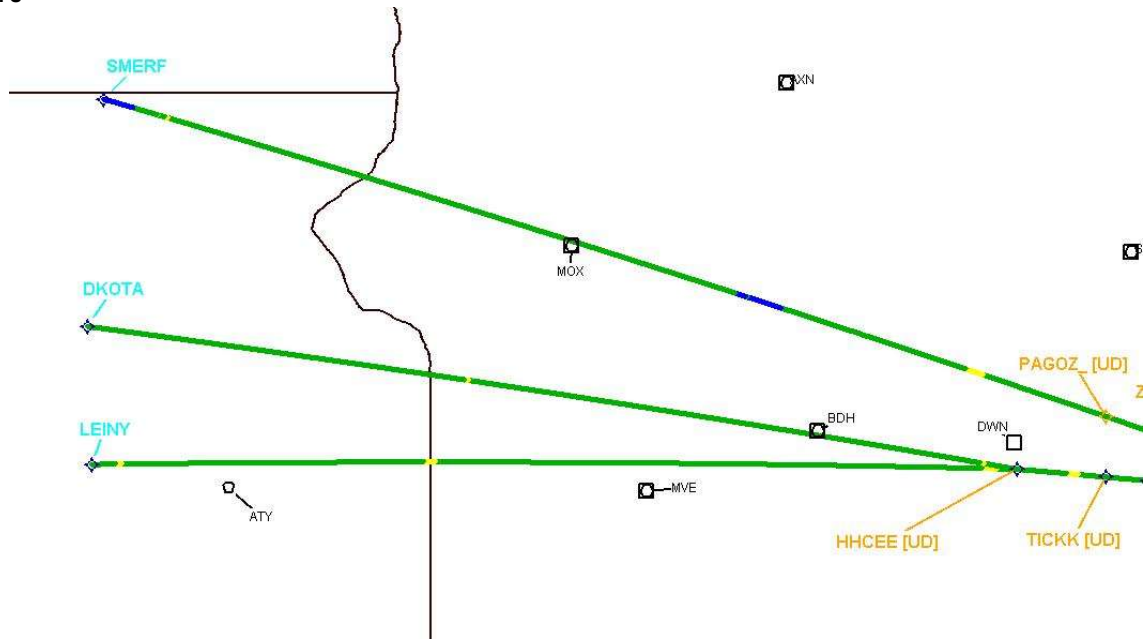
DME DME Assessment Results for BITEZ1 path KMSP:RW30R:DER_ITCHZ

Graphic Depiction 2



DME DME Assessment Results for BITEZ1 path KMSP:RW30R:DER_ITCHZ

Graphic Depiction 3



DME DME Assessment Results for BITEZ1 path KMSP:RW35:DER_ITCHZ

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\SIDS\KMSP BITEZ ONE SID\KMSP SID BITEZ ONE DME 241211lu.tgs
Output File:	C:\Users\Lisa A-CTR Thrysoe\OneDrive - Federal Aviation Administration\Desktop\DME DME Screening\KMSP\SIDS\KMSP BITEZ ONE SID\+4500\KMSP [IFPA] BITEZ1 20250522_0723 EDT\KMSP-RW35-DER_ITCHZ\KMSP BITEZ1 SID RW35 ITCHZ 20250522_0723 EDT.pdf
Procedure Name:	BITEZ1
Software: DmeDmePlugin:	7.5.0
Date/Time:	05/22/2025 07:23 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
KMSP:RW35:DER	WP	N44° 53' 15.9127", W093° 14' 32.1137"	840.4	VNAV	130	FLY_OVER	TF
ITCHZ	WP	N44° 57' 25.8783", W093° 22' 36.3750"	4000	VNAV	200	FLY_BY	TF
Climb Gradient: 500.0 ft/NM up to 1342.0 ft MSL 200.0 ft/NM							

Flyability

Flight Type:	SID
Selected Airport:	KMSP [IFPA]
Climb Gradient:	500.0 ft/NM up to 1342.0 ft MSL 200.0 ft/NM
Speeds:	130 at the Runway DER
	145 at the end of the VA or VI leg
	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 BITEZ1 path KMSP:RW35:DER_ITCHZ

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:	Enabled
Disabled DMEs:	RST

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	5.4 %	4.9 %
2	FCM	N44° 49' 31.2603", W093° 26' 33.6793"	1.0 E	40	L		NO	Enabled	92.7 %	93.7 %
3	FGT	N44° 37' 51.4303", W093° 10' 55.3911"	6.0 E	130	H		NO	Enabled	82.5 %	84.2 %
4	GEP	N45° 08' 44.4656", W093° 22' 23.4514"	6.0 E	130	H		NO	Enabled	74.2 %	71.3 %
5	MSP	N44° 53' 47.0000", W093° 14' 12.0000"	0.0 E	130	DH		NO	Enabled	34 %	38 %
6	RST	N43° 46' 58.4501", W092° 35' 49.0560"	5.0 E	130	DH	IFPA	NO	Disabled		

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0						
0.4	FNX	GEP				
0.5	FCM	GEP	FNX			
0.8	FCM	GEP				
1.2	FCM	GEP	FGT			
4.6	FCM	MSP	FGT	GEP		
5.7	FCM	MSP	FGT			

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N44° 53' 18.0263", W093° 14' 32.6634"	N44° 53' 39.1623", W093° 14' 38.1606"	0.3583

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
KMSP:RW35:DER	ITCHZ	FNX, FCM, FGT, GEP, MSP	

DME DME Assessment Results for BITEZ1 path KMSP:RW35:DER_ITCHZ

User Data Files

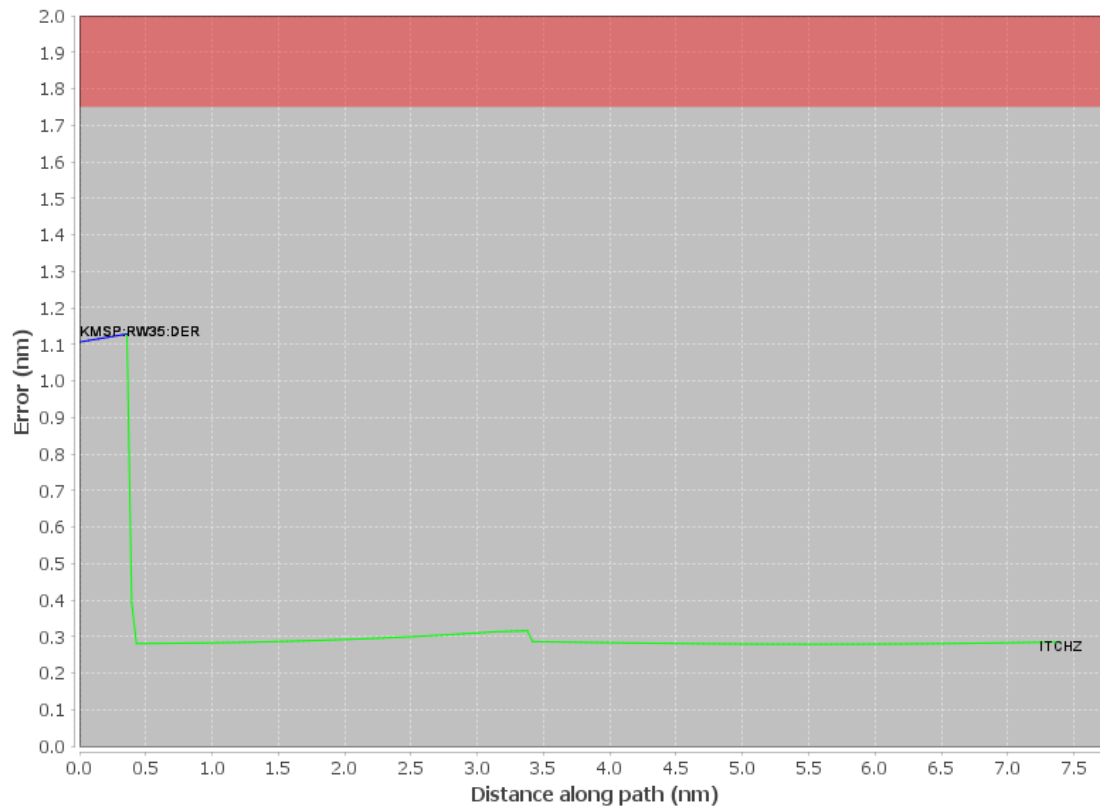
#	File Name
1	New Analysis.udt

User DMEs

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	MHE MHE	N43° 46' 37.2780", W098° 02' 15.2357"	4.0 E	40	1298.1	114.15	MHE	
ESV:		Bearing [True]: 12.0° to 17.0° Bearing [Mag]: 8.0° to 13.0°				Arc Distance: Out to 83.0 NM Altitude: 7800.0 to 19300.0 ft		
2	ATY FAA 704243-10 ATY	N44° 58' 46.8710", W097° 08' 30.2005"	9.0 E	40	1762.8	null	ATY FAA 704243-10	
ESV:		Bearing [True]: 344.0° to 59.0° Bearing [Mag]: 335.0° to 50.0°				Arc Distance: Out to 75.0 NM Altitude: 5000.0 to 14500.0 ft		

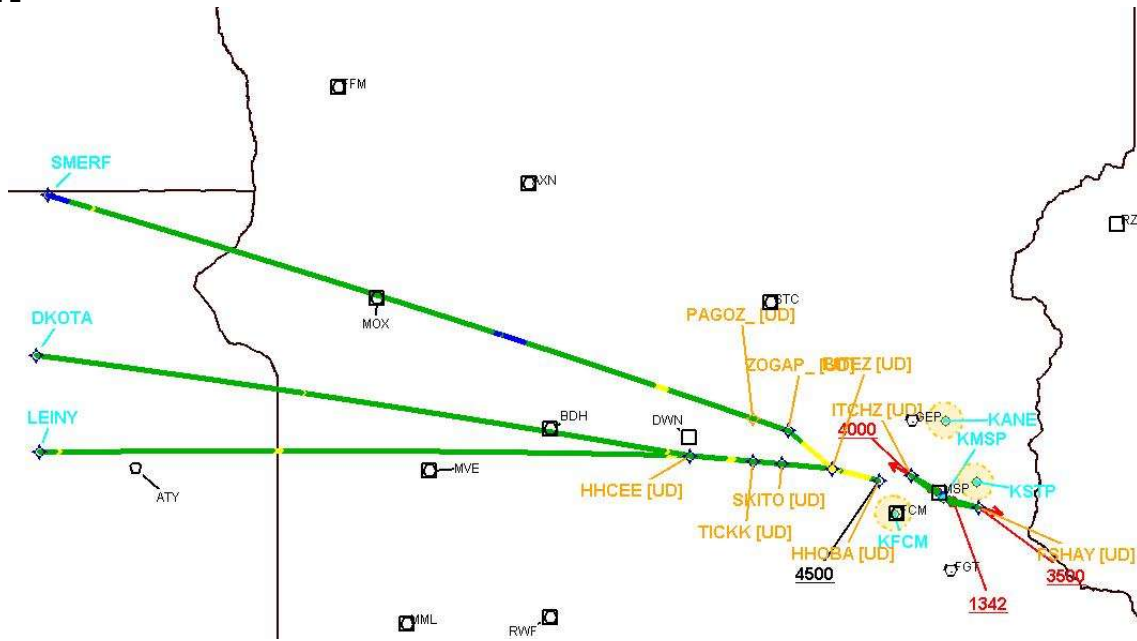
DME DME Assessment Results for BITEZ1 path KMSP:RW35:DER_ITCHZ

DME Error



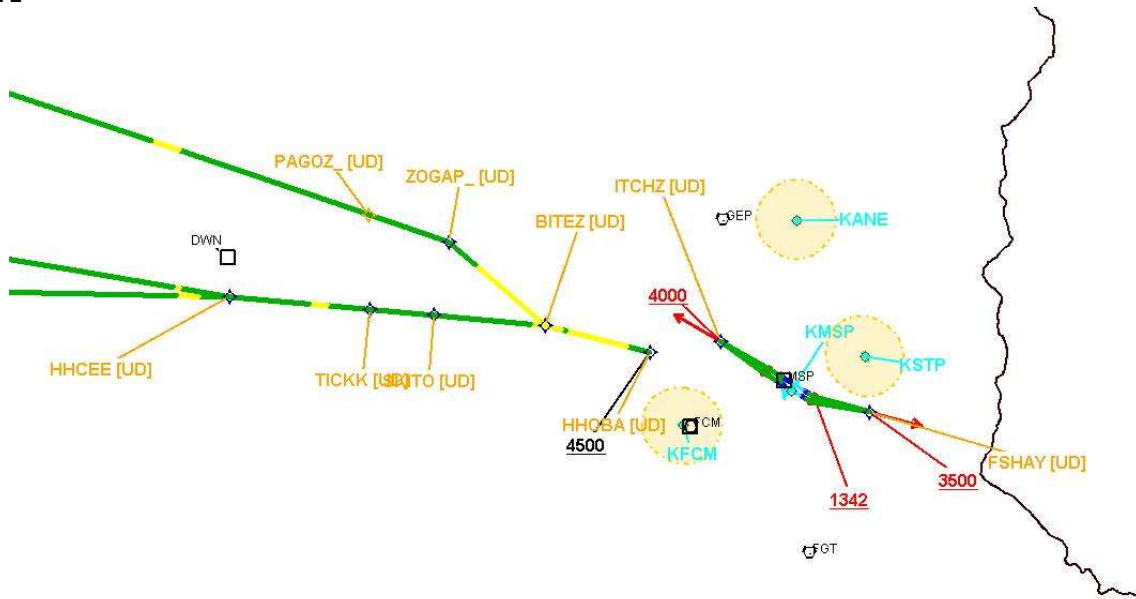
DME DME Assessment Results for BITEZ1 path KMSP:RW35:DER_ITCHZ

Graphic Depiction 1



DME DME Assessment Results for BITEZ1 path KMSP:RW35:DER_ITCHZ

Graphic Depiction 2



Graphic Depiction 3

