

DME DME Assessment Results for JOJJO6 path BENBY_CUBIM

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Mark CTR Thompson
Project File:	C:\Users\Mark CTR Thompson\OneDrive - Federal Aviation Administration\Desktop\RNAV Projects\RNAV Projects 2025\CLT Multiple ECDs for NEW RWY_9.30.2027\CLT_ECD 5.14.2026\JOJJO6\DME\CLT JOJJO6_DME_250521.tgs
Output File:	C:\Users\Mark CTR Thompson\OneDrive - Federal Aviation Administration\Desktop\RNAV Projects\RNAV Projects 2025\CLT Multiple ECDs for NEW RWY_9.30.2027\CLT_ECD 5.14.2026\JOJJO6\DME\KCLT [IFPA] JOJJO6 20250521_0759 EDT\BENBY_CUBIM\KCLT JOJJO6 SID BENBY CUBIM 20250521_0759 EDT.pdf
Procedure Name:	JOJJO6
Software: DmeDmePlugin:	7.5.0
Date/Time:	05/21/2025 07:59 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
BENBY	WP	N35° 44' 54.6900", W081° 55' 16.6800"	11300	VNAV	240	FLY_BY	TF
TIELR	WP	N36° 44' 40.1100", W082° 52' 44.0000"	18000	VNAV	240	FLY_BY	TF
CUBIM	WP	N36° 52' 37.3500", W083° 00' 20.9700"	18000	VNAV	240	FLY_BY	TF

Flyability

Flight Type:	SID
Selected Airport:	KCLT [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 JOJJO6 path BENBY_CUBIM

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:	Not Allowed
DoD Facilities:	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	HMV	N36° 26' 13.4000", W082° 07' 46.5600"	4.0 W	40	L		NO	Enabled	79.2 %	79.2 %
2	SUG	N35° 24' 23.4230", W082° 16' 07.0110"	2.0 W	40	L		NO	Enabled	24 %	24 %
3	BZM	N35° 52' 07.8740", W081° 14' 25.9040"	6.0 W	130	H		NO	Enabled	31.9 %	31.9 %
4	CTF	N34° 39' 01.7930", W080° 16' 29.6989"	3.0 W	130	DH		NO	Enabled	29.8 %	29.8 %
5	GZG	N36° 49' 30.3642", W082° 04' 44.3073"	2.0 W	40	L		NO	Enabled	33.5 %	33.5 %
6	SPA	N34° 54' 19.1900", W081° 58' 11.3000"	7.0 W	130	H		NO	Enabled	10.3 %	10.3 %
7	VXV	N35° 54' 17.4193", W083° 53' 40.9934"	3.0 W	130	H		NO	Enabled	40.3 %	40.3 %
8	LOZ	N37° 01' 59.3414", W084° 06' 36.2688"	3.0 W	130	DH		NO	Enabled	86.4 %	86.4 %
9	FLM	N38° 38' 57.9891", W084° 18' 38.1660"	-0.0 E	130	DH		NO	Enabled	7.4 %	7.4 %
10	AZQ	N37° 23' 28.5263", W083° 15' 46.8183"	0.0 E	40	L		NO	Enabled	6.7 %	6.7 %
11	HCH	N35° 46' 51.6470", W084° 58' 42.4280"	2.0 W	130	DH		NO	Enabled	43.6 %	43.6 %
12	BKW	N37° 46' 49.0788", W081° 07' 24.4398"	6.0 W	130	DH		NO	Enabled	65.9 %	65.9 %

DME DME Assessment Results for JOJJO6 path BENBY_CUBIM

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	SUG	CTF	BZM			
5.0	HMV	BZM	SUG	CTF		
5.5	SUG	CTF	HMV			
11.7	SUG	LOZ	CTF	HMV		
20.6	LOZ	HMV	CTF			
25.6	LOZ	HMV				
29.2	LOZ	HMV	BKW			
41.5	LOZ	GZG	HMV	BKW		
45.5	LOZ	GZG	SPA	HMV	BKW	
54.4	LOZ	GZG	VXV	BKW	HMV	HCH
70.3	VXV	HMV	LOZ	BZM	BKW	HCH
72.9	LOZ	VXV	BZM	BKW	HCH	
79.5	LOZ	VXV	FLM	BKW	HCH	

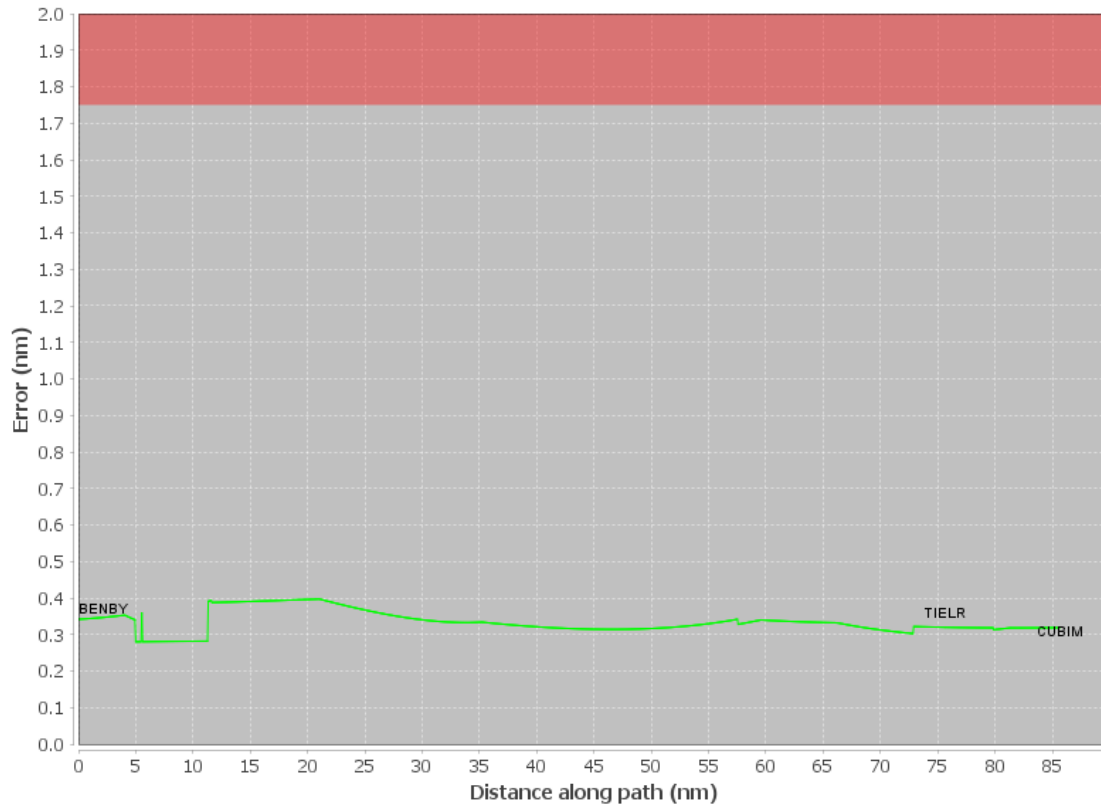
Inertial Drift Segments			
#	Start Location	End Location	Length [NM]

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
BENBY	TIELR	HMV, SUG, BZM, CTF, GZG, SPA, VXV, LOZ, HCH, BKW	
TIELR	CUBIM	BZM, VXV, LOZ, FLM, AZQ, HCH, BKW	

User Data Files								
#	File Name							
	None							
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	SUG FAA 700549-8 SUG	N35° 24' 23.4230", W082° 16' 07.0110"	2.0 W	40	3970	112.2	SUG FAA 700549-8	
	ESV:	Bearing [True]: 22.0° to 89.0° Bearing [Mag]: 24.0° to 91.0°				Arc Distance: Out to 55.0 NM Altitude: 4000.0 to 15000.0 ft		
2	GRD FAA 861943-38 GRD	N34° 15' 05.6380", W082° 09' 14.9360"	1.0 W	130	632.3	null	GRD FAA 861943-38	
	ESV:	Bearing [True]: 6.0° to 25.0° Bearing [Mag]: 7.0° to 26.0°				Arc Distance: Out to 93.0 NM Altitude: 7500.0 to 15200.0 ft		
3	SUG FAA 700549-9 SUG	N35° 24' 23.4230", W082° 16' 07.0110"	2.0 W	40	3970	112.2	SUG FAA 700549-9	
	ESV:	Bearing [True]: 72.0° to 179.0° Bearing [Mag]: 74.0° to 181.0°				Arc Distance: Out to 71.0 NM Altitude: 5000.0 to 18000.0 ft		

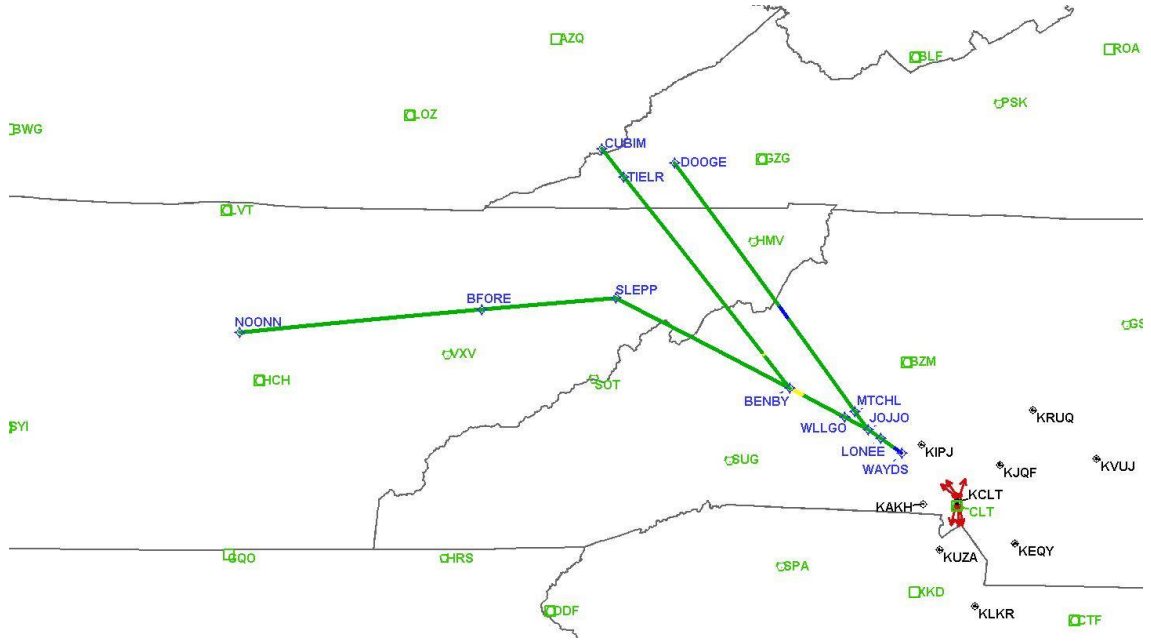
DME DME Assessment Results for JOJJO6 path BENBY_CUBIM

DME Error



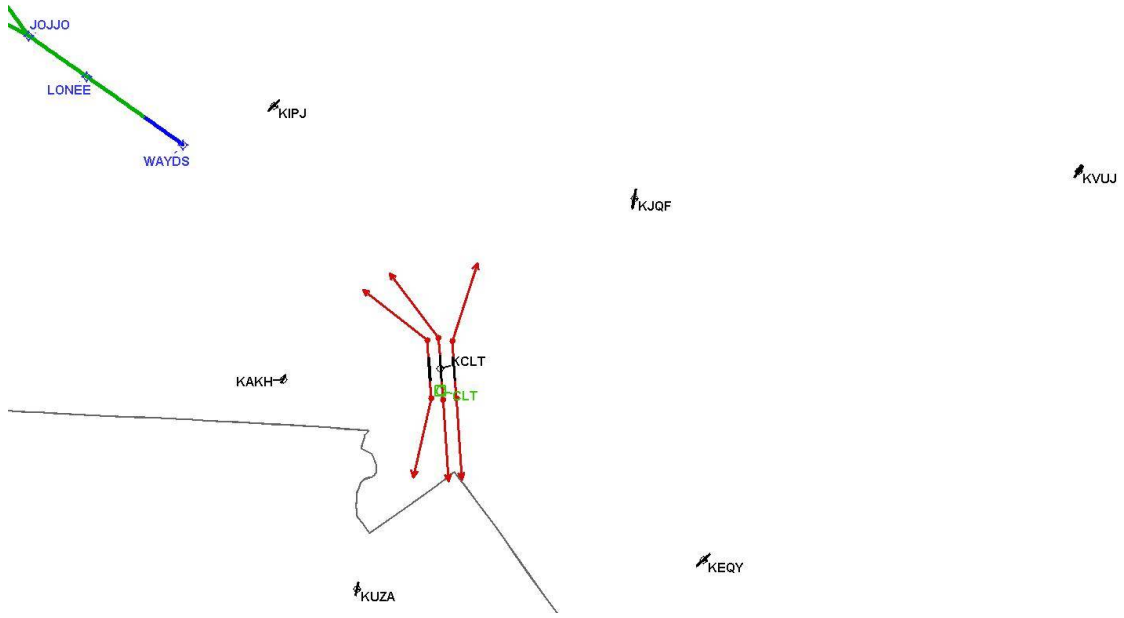
DME DME Assessment Results for JOJJO6 path BENBY_CUBIM

Graphic Depiction 1



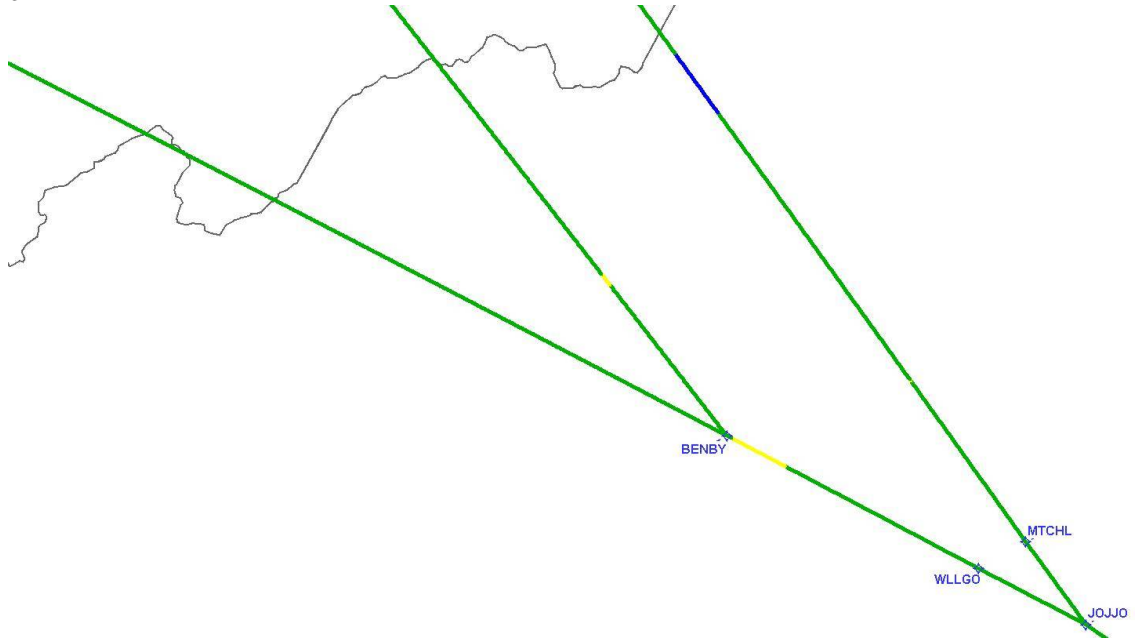
DME DME Assessment Results for JOJJO6 path BENBY_CUBIM

Graphic Depiction 2



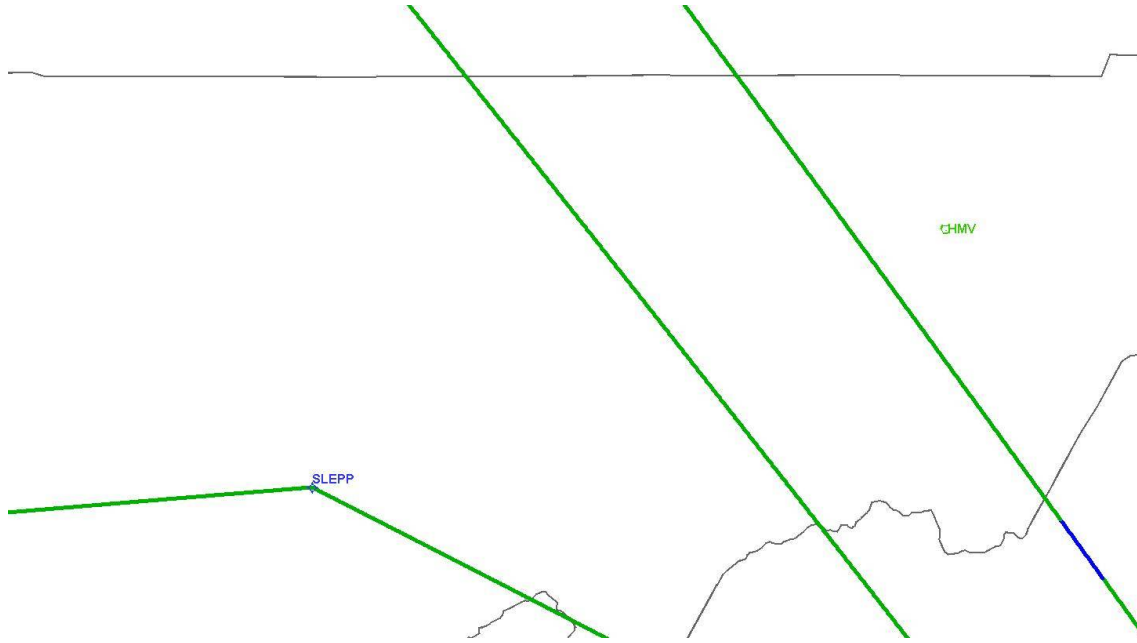
DME DME Assessment Results for JOJJO6 path BENBY_CUBIM

Graphic Depiction 3



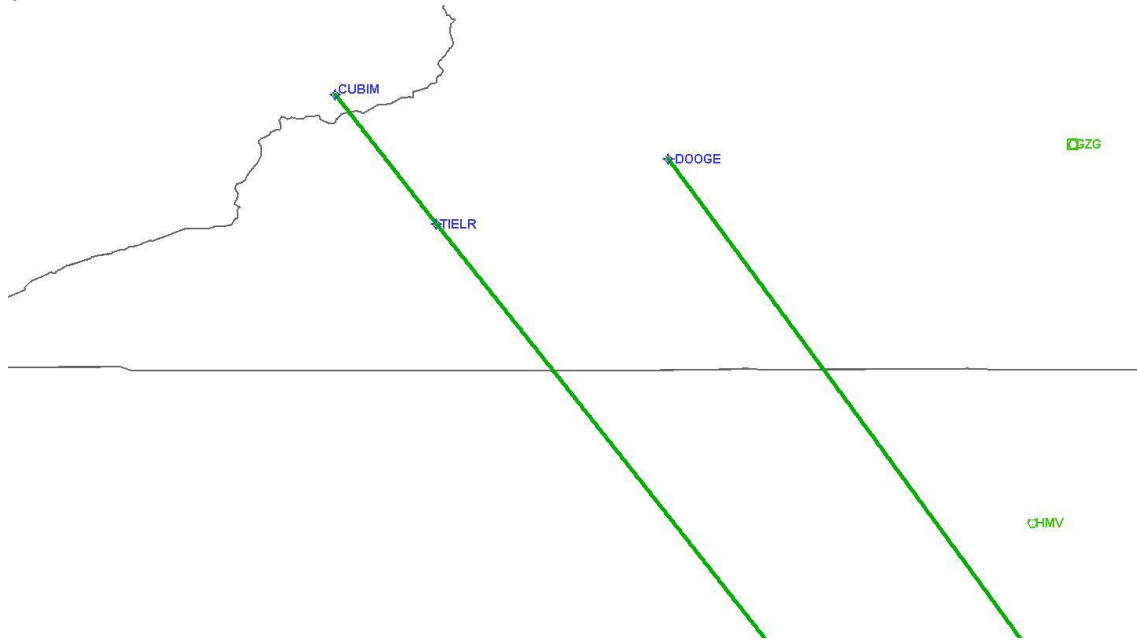
DME DME Assessment Results for JOJJO6 path BENBY_CUBIM

Graphic Depiction 4



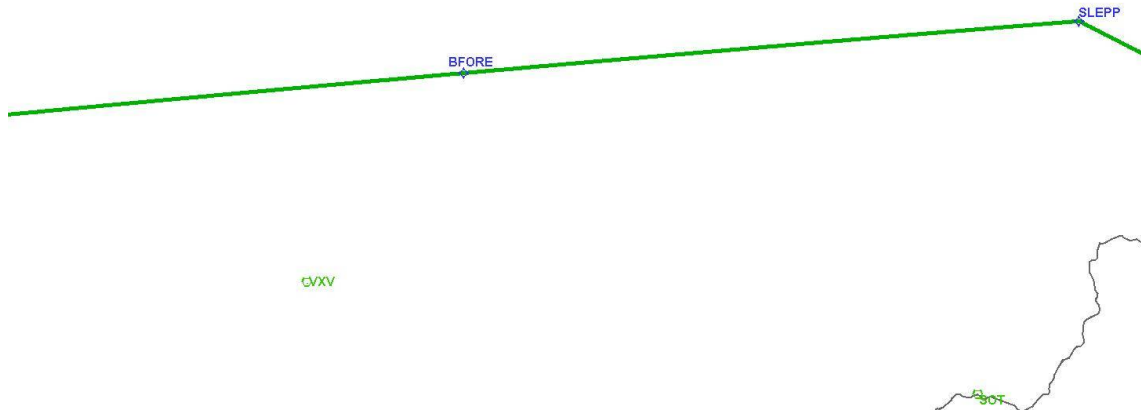
DME DME Assessment Results for JOJJO6 path BENBY_CUBIM

Graphic Depiction 5



DME DME Assessment Results for JOJJO6 path BENBY_CUBIM

Graphic Depiction 6



DME DME Assessment Results for JOJJO6 path BENBY_CUBIM

Graphic Depiction 7



DME DME Assessment Results for JOJJO6 path JOJJO_DOOGE

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Mark CTR Thompson
Project File:	C:\Users\Mark CTR Thompson\OneDrive - Federal Aviation Administration\Desktop\RNAV Projects\RNAV Projects 2025\CLT Multiple ECDs for NEW RWY_9.30.2027\CLT_ECD 5.14.2026\JOJJO6\DME\CLT JOJJO6_DME_250521.tgs
Output File:	C:\Users\Mark CTR Thompson\OneDrive - Federal Aviation Administration\Desktop\RNAV Projects\RNAV Projects 2025\CLT Multiple ECDs for NEW RWY_9.30.2027\CLT_ECD 5.14.2026\JOJJO6\DME\KCLT [IFPA] JOJJO6 20250521_0759 EDT\JOJJO_DOOGE\KCLT JOJJO6 SID JOJJO DOOGE 20250521_0759 EDT.pdf
Procedure Name:	JOJJO6
Software: DmeDmePlugin:	7.5.0
Date/Time:	05/21/2025 07:59 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
JOJJO	WP	N35° 33' 16.9600", W081° 28' 10.9300"	6300	VNAV	200	FLY_BY	TF
MTCHL	WP	N35° 38' 24.2000", W081° 32' 44.7000"	7500	VNAV	200	FLY_BY	TF
DOOGE	WP	N36° 48' 38.9300", W082° 35' 14.3700"	18000	VNAV	240	FLY_BY	TF

Flyability

Flight Type:	SID
Selected Airport:	KCLT [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 JOJJO6 path JOJJO_DOOGE

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:	Not Allowed
DoD Facilities:	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	HMV	N36° 26' 13.4000", W082° 07' 46.5600"	4.0 W	40	L		NO	Enabled	64.3 %	64.3 %
2	BZM	N35° 52' 07.8740", W081° 14' 25.9040"	6.0 W	130	H		NO	Enabled	55.7 %	55.8 %
3	CTF	N34° 39' 01.7930", W080° 16' 29.6989"	3.0 W	130	DH		NO	Enabled	39.1 %	39 %
4	SUG	N35° 24' 23.4230", W082° 16' 07.0110"	2.0 W	40	L		NO	Enabled	39.1 %	39 %
5	GZG	N36° 49' 30.3642", W082° 04' 44.3073"	2.0 W	40	L		NO	Enabled	48.7 %	48.8 %
6	SPA	N34° 54' 19.1900", W081° 58' 11.3000"	7.0 W	130	H		NO	Enabled	0.2 %	0.2 %
7	VXV	N35° 54' 17.4193", W083° 53' 40.9934"	3.0 W	130	H		NO	Enabled	19.1 %	19.2 %
8	LOZ	N37° 01' 59.3414", W084° 06' 36.2688"	3.0 W	130	DH		NO	Enabled	53.5 %	53.6 %
9	GRD	N34° 15' 05.6380", W082° 09' 14.9360"	1.0 W	130	H		NO	Enabled	2.6 %	2.6 %
10	PSK	N37° 05' 15.6676", W080° 42' 46.3767"	6.0 W	130	H		NO	Enabled	11.9 %	12 %
11	CLT	N35° 11' 25.7040", W080° 57' 07.1756"	5.0 W	40	L		NO	Enabled	6.1 %	6.1 %
12	BKW	N37° 46' 49.0788", W081° 07' 24.4398"	6.0 W	130	DH		NO	Enabled	38 %	38.1 %

DME DME Assessment Results for JOJJO6 path JOJJO_DOOGE

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	CLT	BZM	CTF	SUG		
5.7	BZM	CTF	SUG			
6.0	BZM	CTF	SUG	GRD		
8.4	BZM	CTF	SUG			
22.7	SUG	HMV	BZM	CTF		
36.3	HMV	BZM				
38.6						
43.1	LOZ	HMV				
47.5	LOZ	GZG	HMV			
57.4	LOZ	HMV	GZG	BKW		
58.8	LOZ	GZG	BKW			
64.6	GZG	HMV	LOZ	BKW		
70.8	GZG	HMV	LOZ	BKW	SPA	
71.0	GZG	HMV	LOZ	BKW		
75.0	GZG	HMV	BKW	LOZ	VXV	

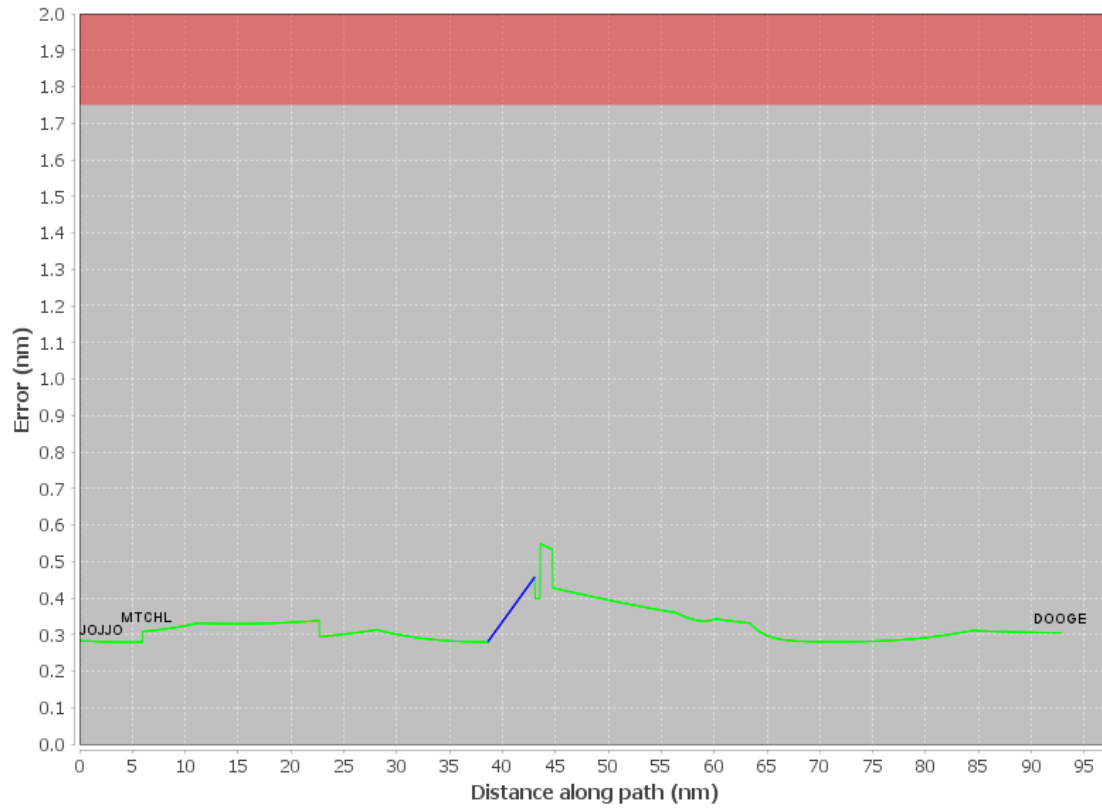
Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N36° 04' 43.5531", W081° 55' 53.2647"	N36° 08' 20.2868", W081° 59' 05.3351"	4.4429

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
JOJJO	MTCHL	BZM, CTF, SUG, GRD, CLT	
MTCHL	DOOGE	HMV, BZM, CTF, SUG, GZG, SPA, VXV, LOZ, GRD, PSK, BKW	

User Data Files								
#	File Name							
None								
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	SUG FAA 700549-8 SUG	N35° 24' 23.4230", W082° 16' 07.0110"	2.0 W	40	3970	112.2	SUG FAA 700549-8	
ESV:		Bearing [True]: 22.0° to 89.0° Bearing [Mag]: 24.0° to 91.0°			Arc Distance: Out to 55.0 NM Altitude: 4000.0 to 15000.0 ft			
2	GRD FAA 861943-38 GRD	N34° 15' 05.6380", W082° 09' 14.9360"	1.0 W	130	632.3	null	GRD FAA 861943-38	
ESV:		Bearing [True]: 6.0° to 25.0° Bearing [Mag]: 7.0° to 26.0°			Arc Distance: Out to 93.0 NM Altitude: 7500.0 to 15200.0 ft			
3	SUG FAA 700549-9 SUG	N35° 24' 23.4230", W082° 16' 07.0110"	2.0 W	40	3970	112.2	SUG FAA 700549-9	
ESV:		Bearing [True]: 72.0° to 179.0° Bearing [Mag]: 74.0° to 181.0°			Arc Distance: Out to 71.0 NM Altitude: 5000.0 to 18000.0 ft			

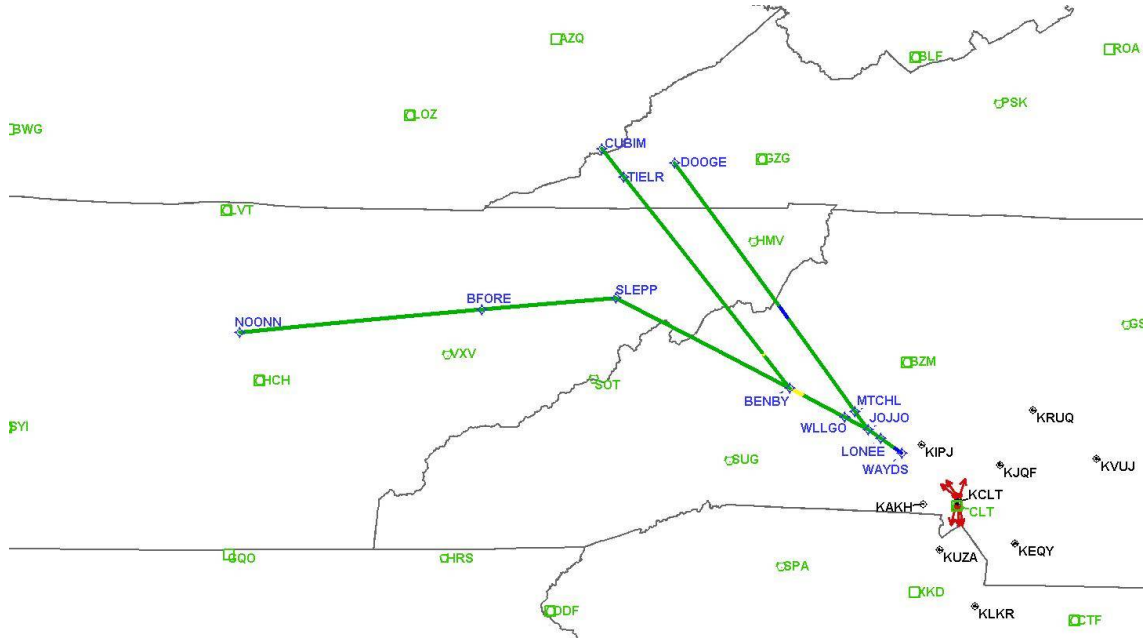
DME DME Assessment Results for JOJJO6 path JOJJO_DOOGE

DME Error



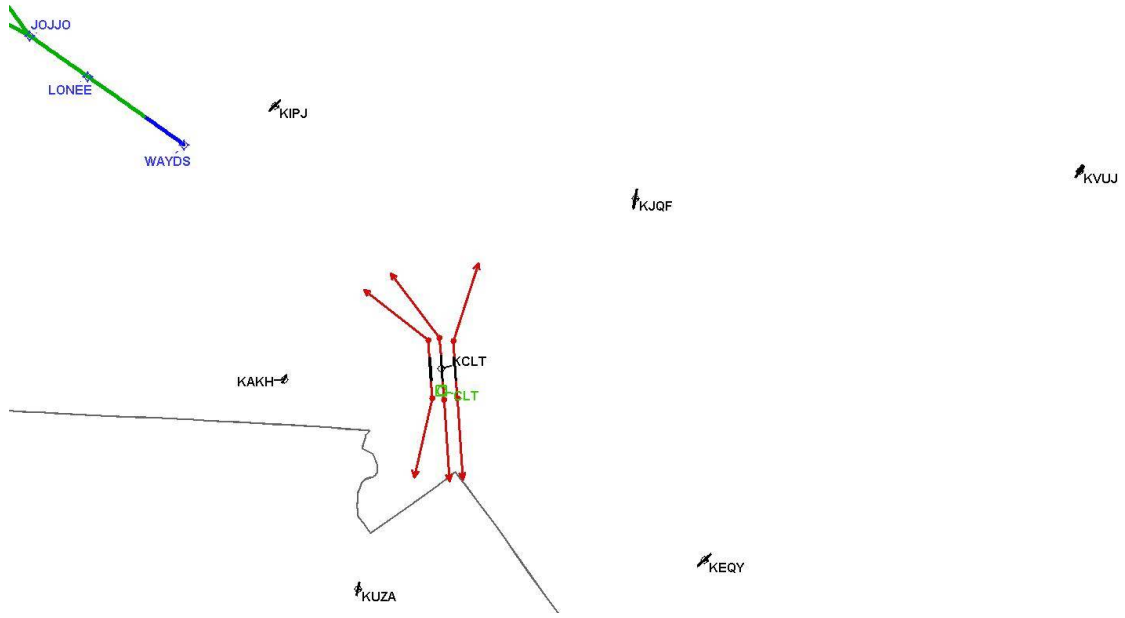
DME DME Assessment Results for JOJJO6 path JOJJO_DOOGE

Graphic Depiction 1



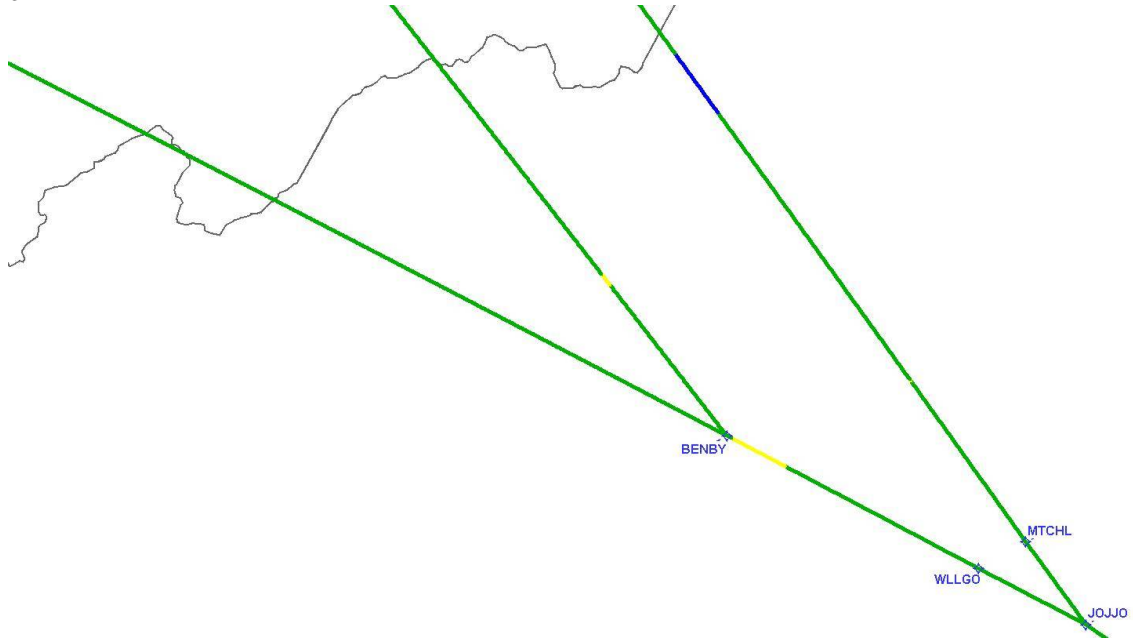
DME DME Assessment Results for JOJJO6 path JOJJO_DOOGE

Graphic Depiction 2



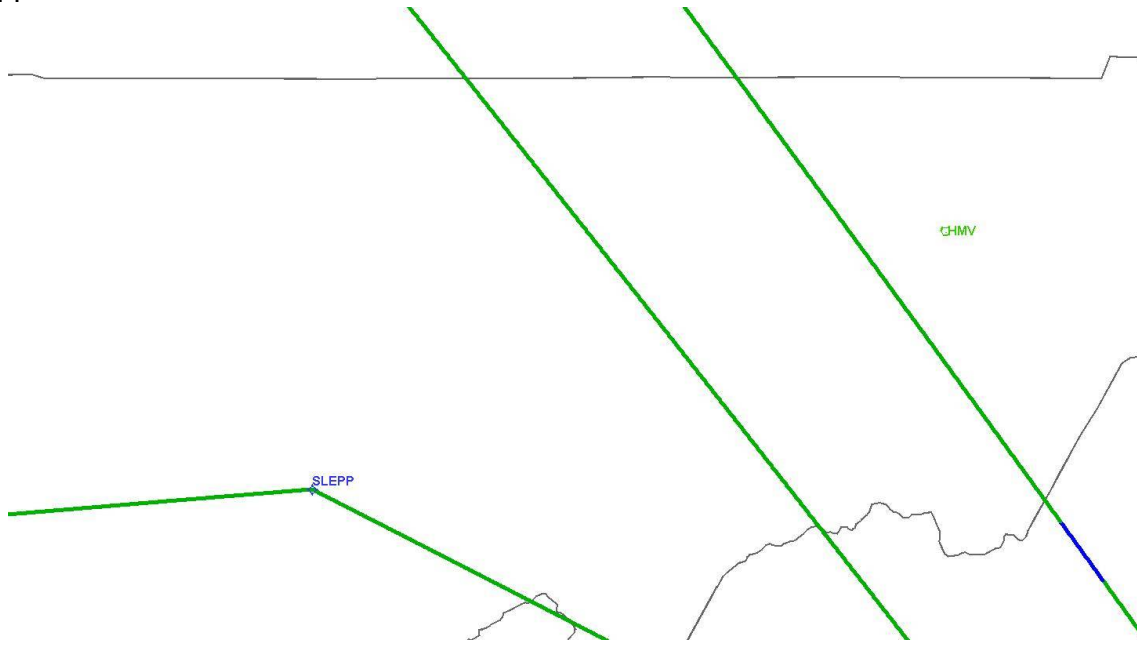
DME DME Assessment Results for JOJJO6 path JOJJO_DOOGE

Graphic Depiction 3



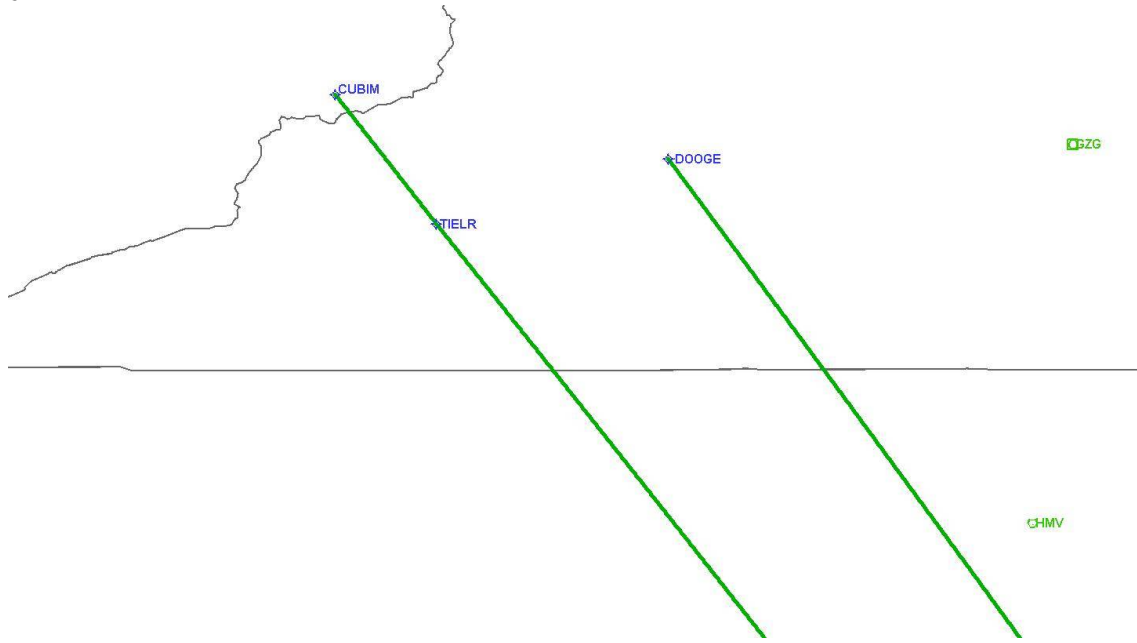
DME DME Assessment Results for JOJJ06 path JOJJO_DOOGE

Graphic Depiction 4



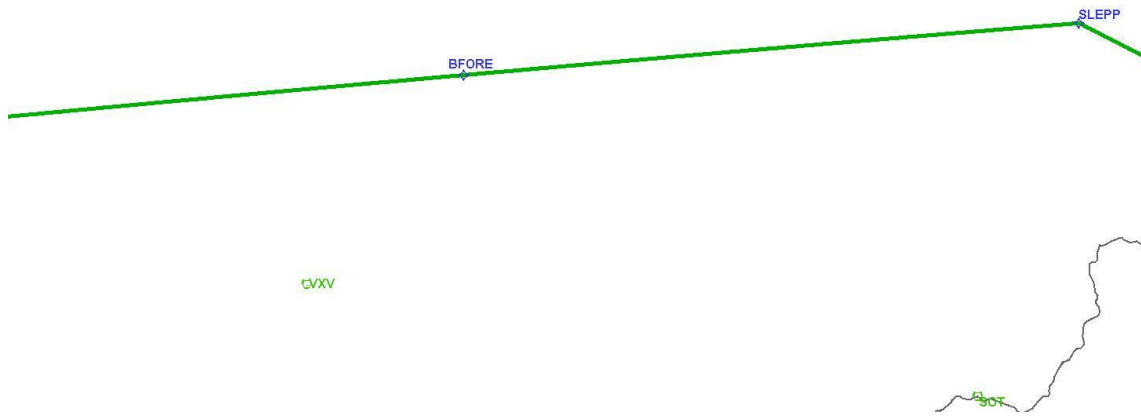
DME DME Assessment Results for JOJJ06 path JOJJO_DOOGE

Graphic Depiction 5



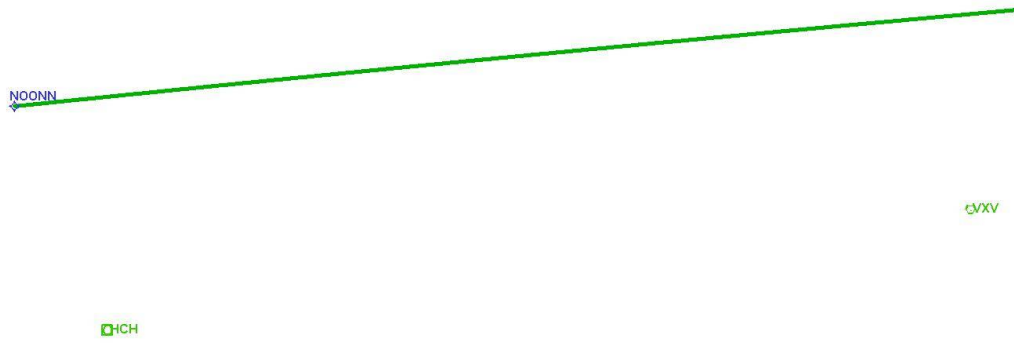
DME DME Assessment Results for JOJJ06 path JOJJO_DOOGE

Graphic Depiction 6



DME DME Assessment Results for JOJJO6 path JOJJO_DOOGE

Graphic Depiction 7



DME DME Assessment Results for JOJJO6 path CUBIM_TIELR

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Mark CTR Thompson
Project File:	C:\Users\Mark CTR Thompson\OneDrive - Federal Aviation Administration\Desktop\RNAV Projects\RNAV Projects 2025\CLT Multiple ECDs for NEW RWY_9.30.2027\CLT_ECD 5.14.2026\JOJJO6\DME\CLT JOJJO6_DME_250521.tgs
Output File:	C:\Users\Mark CTR Thompson\OneDrive - Federal Aviation Administration\Desktop\RNAV Projects\RNAV Projects 2025\CLT Multiple ECDs for NEW RWY_9.30.2027\CLT_ECD 5.14.2026\JOJJO6\DME\KCLT [IFPA] JOJJO6 20250521_0759 EDT\CUBIM_TIELR\KCLT JOJJO6 SID CUBIM TIELR 20250521_0759 EDT.pdf
Procedure Name:	JOJJO6
Software: DmeDmePlugin:	7.5.0
Date/Time:	05/21/2025 07:59 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
CUBIM	WP	N36° 52' 37.3500", W083° 00' 20.9700"	18000	VNAV	240	FLY_BY	TF
TIELR	WP	N36° 44' 40.1100", W082° 52' 44.0000"	18000	VNAV	240	FLY_BY	TF

Flyability

Flight Type:	SID
Selected Airport:	KCLT [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 JOJJO6 path CUBIM_TIELR

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:	Not Allowed
DoD Facilities:	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	BZM	N35° 52' 07.8740", W081° 14' 25.9040"	6.0 W	130	H		NO	Enabled	37.7 %	37.7 %
2	VXV	N35° 54' 17.4193", W083° 53' 40.9934"	3.0 W	130	H		NO	Enabled	100 %	100 %
3	LOZ	N37° 01' 59.3414", W084° 06' 36.2688"	3.0 W	130	DH		NO	Enabled	100 %	100 %
4	FLM	N38° 38' 57.9891", W084° 18' 38.1660"	-0.0 E	130	DH		NO	Enabled	63.6 %	63.6 %
5	AZQ	N37° 23' 28.5263", W083° 15' 46.8183"	0.0 E	40	L		NO	Enabled	57.6 %	57.6 %
6	HCH	N35° 46' 51.6470", W084° 58' 42.4280"	2.0 W	130	DH		NO	Enabled	100 %	100 %
7	BKW	N37° 46' 49.0788", W081° 07' 24.4398"	6.0 W	130	DH		NO	Enabled	100 %	100 %

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	LOZ	VXV	AZQ	BKW	HCH	FLM
5.8	LOZ	VXV	FLM	BKW	HCH	
6.4	LOZ	VXV	BZM	BKW	HCH	

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

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
CUBIM	TIELR	BZM, VXV, LOZ, FLM, AZQ, HCH, BKW	

DME DME Assessment Results for JOJJO6 path CUBIM_TIELR

User Data Files

#	File Name
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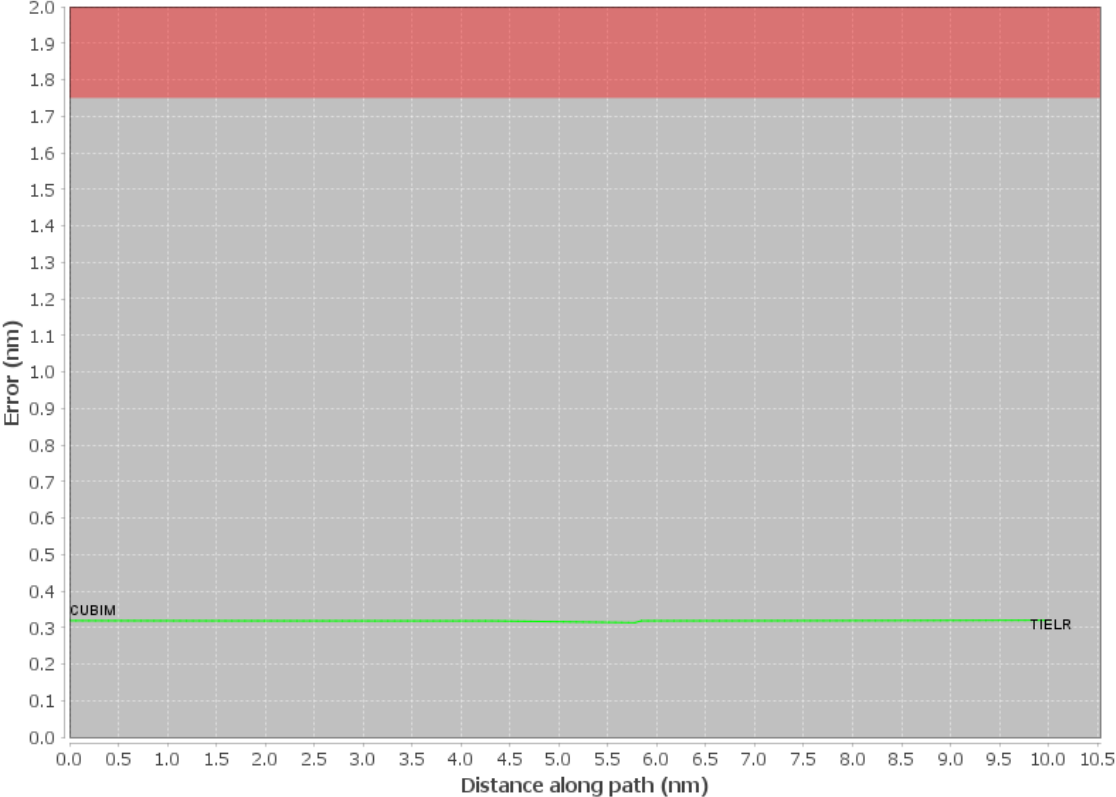
None

User DMEs

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	SUG FAA 700549-8 SUG	N35° 24' 23.4230", W082° 16' 07.0110"	2.0 W	40	3970	112.2	SUG FAA 700549-8	
	ESV:	Bearing [True]: 22.0° to 89.0° Bearing [Mag]: 24.0° to 91.0°				Arc Distance: Out to 55.0 NM Altitude: 4000.0 to 15000.0 ft		
2	GRD FAA 861943-38 GRD	N34° 15' 05.6380", W082° 09' 14.9360"	1.0 W	130	632.3	null	GRD FAA 861943-38	
	ESV:	Bearing [True]: 6.0° to 25.0° Bearing [Mag]: 7.0° to 26.0°				Arc Distance: Out to 93.0 NM Altitude: 7500.0 to 15200.0 ft		
3	SUG FAA 700549-9 SUG	N35° 24' 23.4230", W082° 16' 07.0110"	2.0 W	40	3970	112.2	SUG FAA 700549-9	
	ESV:	Bearing [True]: 72.0° to 179.0° Bearing [Mag]: 74.0° to 181.0°				Arc Distance: Out to 71.0 NM Altitude: 5000.0 to 18000.0 ft		

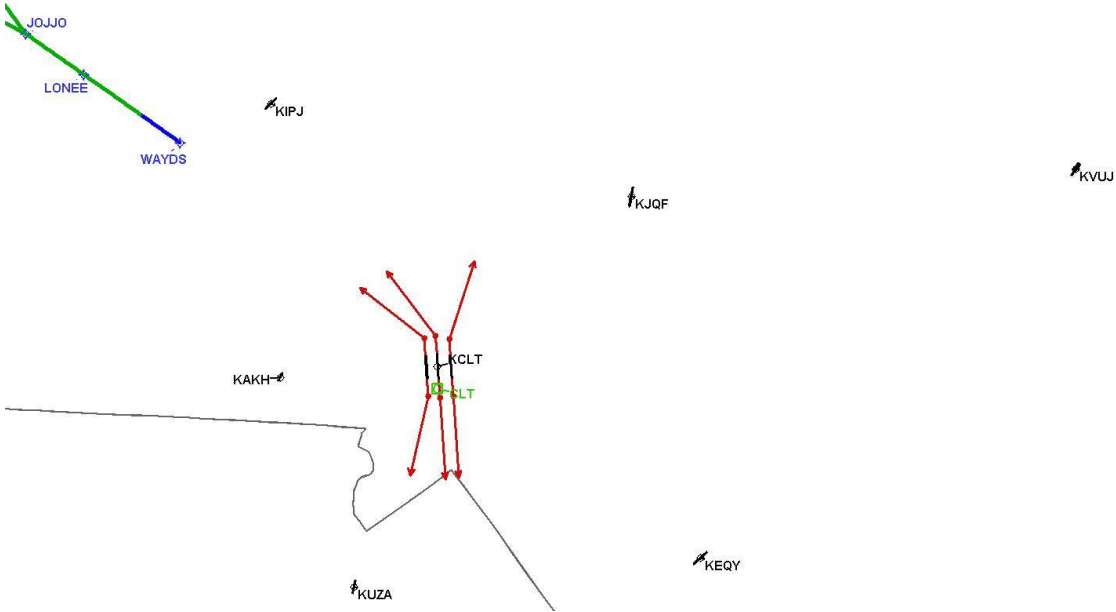
DME DME Assessment Results for JOJJO6 path CUBIM_TIELR

DME Error



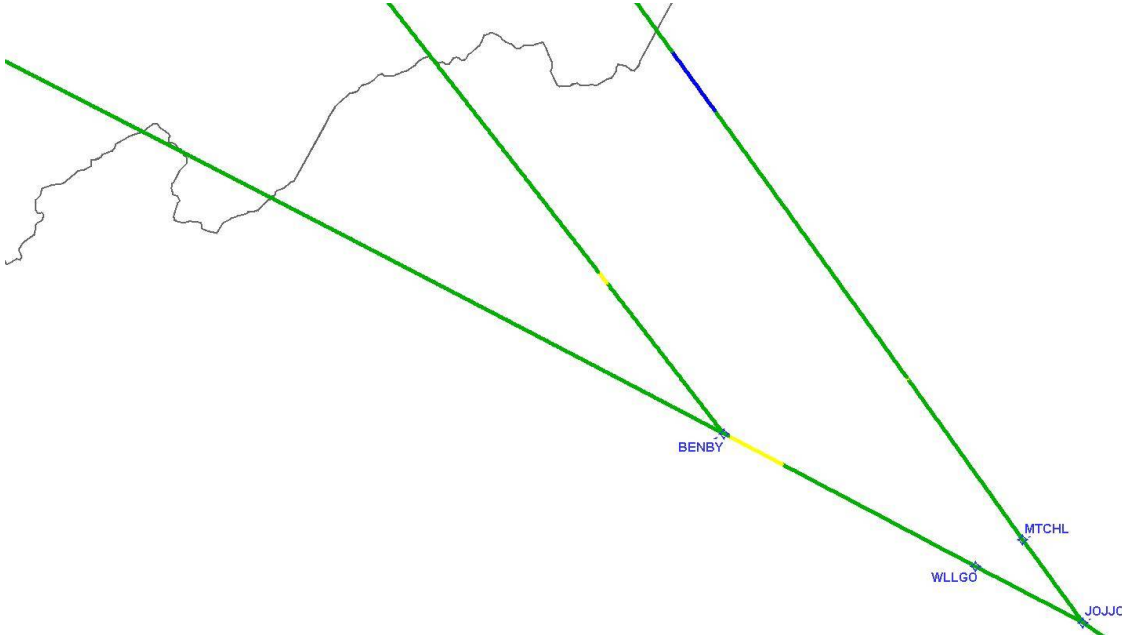
DME DME Assessment Results for JOJJO6 path CUBIM_TIELR

Graphic Depiction 2



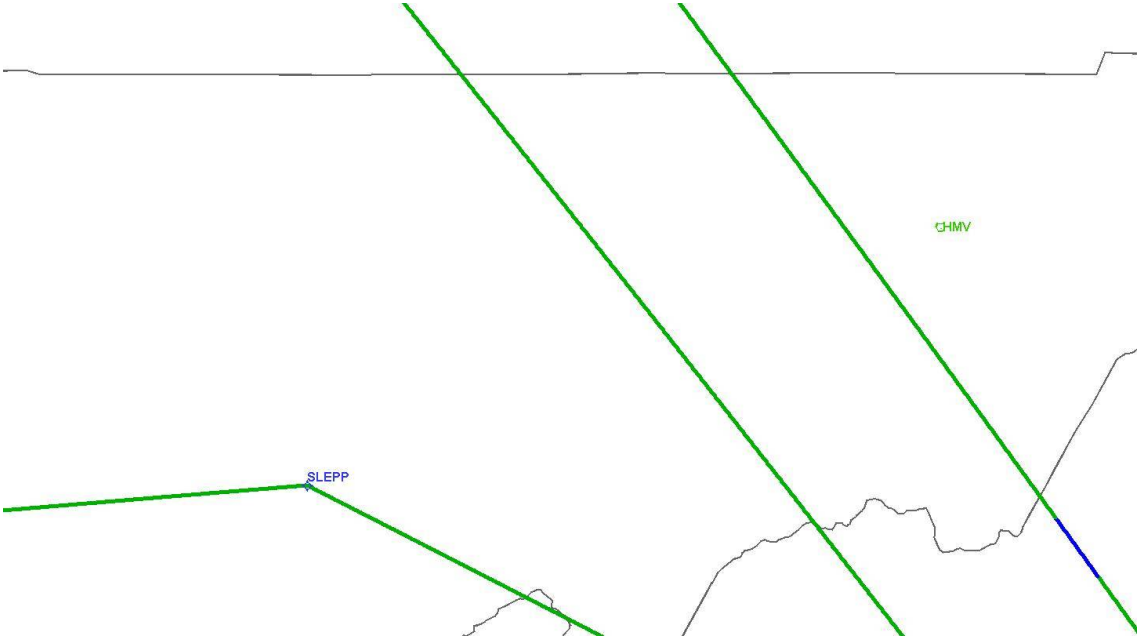
DME DME Assessment Results for JOJJO6 path CUBIM_TIELR

Graphic Depiction 3



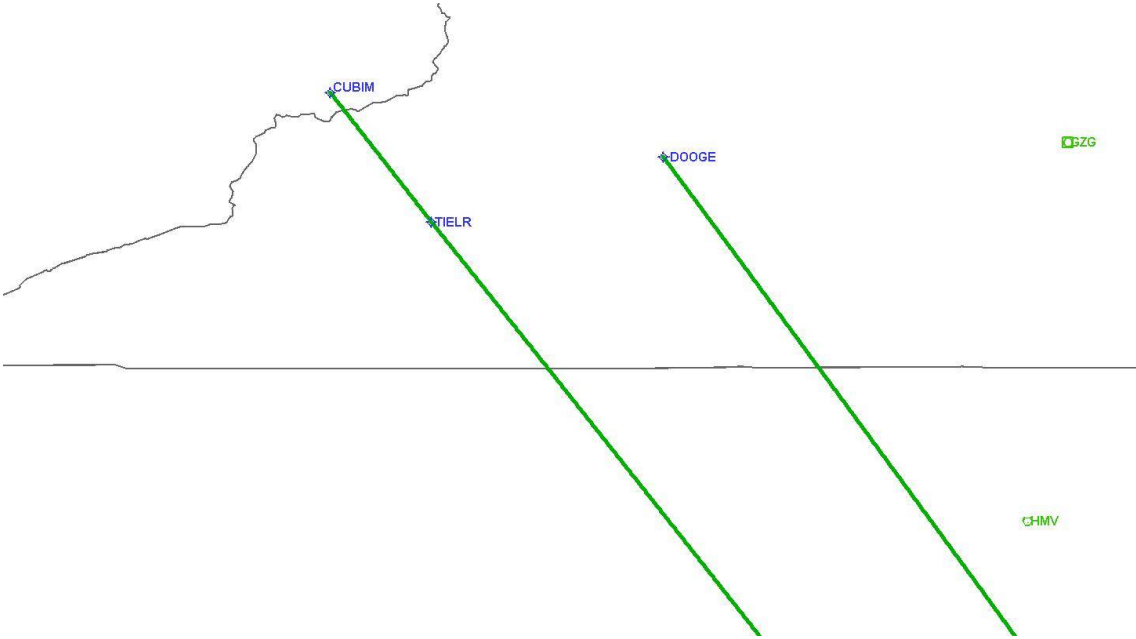
DME DME Assessment Results for JOJJO6 path CUBIM_TIELR

Graphic Depiction 4



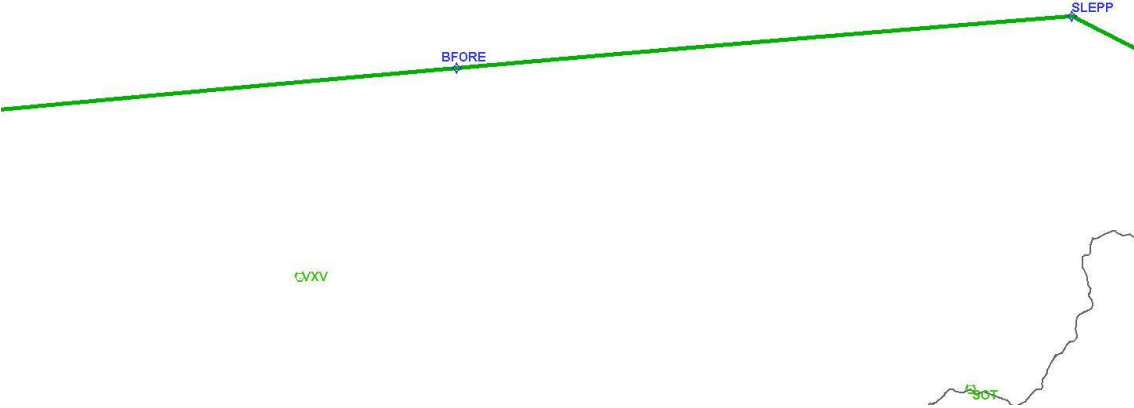
DME DME Assessment Results for JOJJO6 path CUBIM_TIELR

Graphic Depiction 5



DME DME Assessment Results for JOJJO6 path CUBIM_TIELR

Graphic Depiction 6



DME DME Assessment Results for JOJJO6 path CUBIM_TIELR

Graphic Depiction 7



DME DME Assessment Results for JOJJO6 path NOONN_SLEPP

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Mark CTR Thompson
Project File:	C:\Users\Mark CTR Thompson\OneDrive - Federal Aviation Administration\Desktop\RNAV Projects\RNAV Projects 2025\CLT Multiple ECDs for NEW RWY_9.30.2027\CLT_ECD 5.14.2026\JOJJO6\DME\CLT JOJJO6_DME_250521.tgs
Output File:	C:\Users\Mark CTR Thompson\OneDrive - Federal Aviation Administration\Desktop\RNAV Projects\RNAV Projects 2025\CLT Multiple ECDs for NEW RWY_9.30.2027\CLT_ECD 5.14.2026\JOJJO6\DME\KCLT [IFPA] JOJJO6 20250521_0759 EDT\NOONN_SLEPP\KCLT JOJJO6 SID NOONN SLEPP 20250521_0759 EDT.pdf
Procedure Name:	JOJJO6
Software: DmeDmePlugin:	7.5.0
Date/Time:	05/21/2025 07:59 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
NOONN	WP	N36° 00' 38.3700", W085° 05' 43.6800"	18000	VNAV	240	FLY_BY	TF
BFORE	WP	N36° 07' 10.0600", W083° 41' 54.4900"	18000	VNAV	240	FLY_BY	TF
SLEPP	WP	N36° 10' 22.0600", W082° 55' 32.1600"	18000	VNAV	240	FLY_BY	TF

Flyability

Flight Type:	SID
Selected Airport:	KCLT [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 JOJJO6 path NOONN_SLEPP

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:	Not Allowed
DoD Facilities:	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	ODF	N34° 41' 45.1420", W083° 17' 51.5800"	0.0 E	130	H		NO	Enabled	62.5 %	62.5 %
2	BWG	N36° 57' 52.0000", W086° 25' 24.0000"	0.0 E	130	DH		NO	Enabled	50.5 %	50.5 %
3	BNA	N36° 08' 13.0573", W086° 41' 05.1762"	2.0 W	130	H		NO	Enabled	21 %	21 %
4	GQO	N34° 57' 40.5850", W085° 09' 12.1285"	0.0 E	130	H		NO	Enabled	62 %	62 %
5	BZM	N35° 52' 07.8740", W081° 14' 25.9040"	6.0 W	130	H		NO	Enabled	14.8 %	14.8 %
6	VXV	N35° 54' 17.4193", W083° 53' 40.9934"	3.0 W	130	H		NO	Enabled	100 %	100 %
7	SPA	N34° 54' 19.1900", W081° 58' 11.3000"	7.0 W	130	H		NO	Enabled	13.6 %	13.6 %
8	LOZ	N37° 01' 59.3414", W084° 06' 36.2688"	3.0 W	130	DH		NO	Enabled	100 %	100 %
9	SOT	N35° 47' 24.3570", W083° 03' 08.5290"	4.0 W	40	L		NO	Enabled	36 %	36 %
10	LVT	N36° 35' 04.2340", W085° 09' 59.8430"	2.0 W	40	L		NO	Enabled	10 %	10 %
11	HCH	N35° 46' 51.6470", W084° 58' 42.4280"	2.0 W	130	DH		NO	Enabled	100 %	100 %

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	GQO	VXV	LVT	BNA	HCH	LOZ
10.7	GQO	VXV	HCH	LOZ	BNA	BWG
22.3	LOZ	VXV	GQO	HCH	BWG	
53.6	HCH	VXV	LOZ	ODF	GQO	
65.7	LOZ	HCH	ODF	VXV		
67.8	LOZ	HCH	SOT	VXV	ODF	
86.6	SOT	VXV	LOZ	HCH		
87.8	SOT	VXV	LOZ	HCH	ODF	

DME DME Assessment Results for JOJJO6 path NOONN_SLEPP

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
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Available DMEs by Waypoints

Waypoint Before	Waypoint After	DME List	Suggested DMEs
NOONN	BFORE	ODF, BWG, BNA, GQO, VXV, LOZ, SOT, LVT, HCH	
BFORE	SLEPP	ODF, BZM, VXV, SPA, LOZ, SOT, HCH	

User Data Files

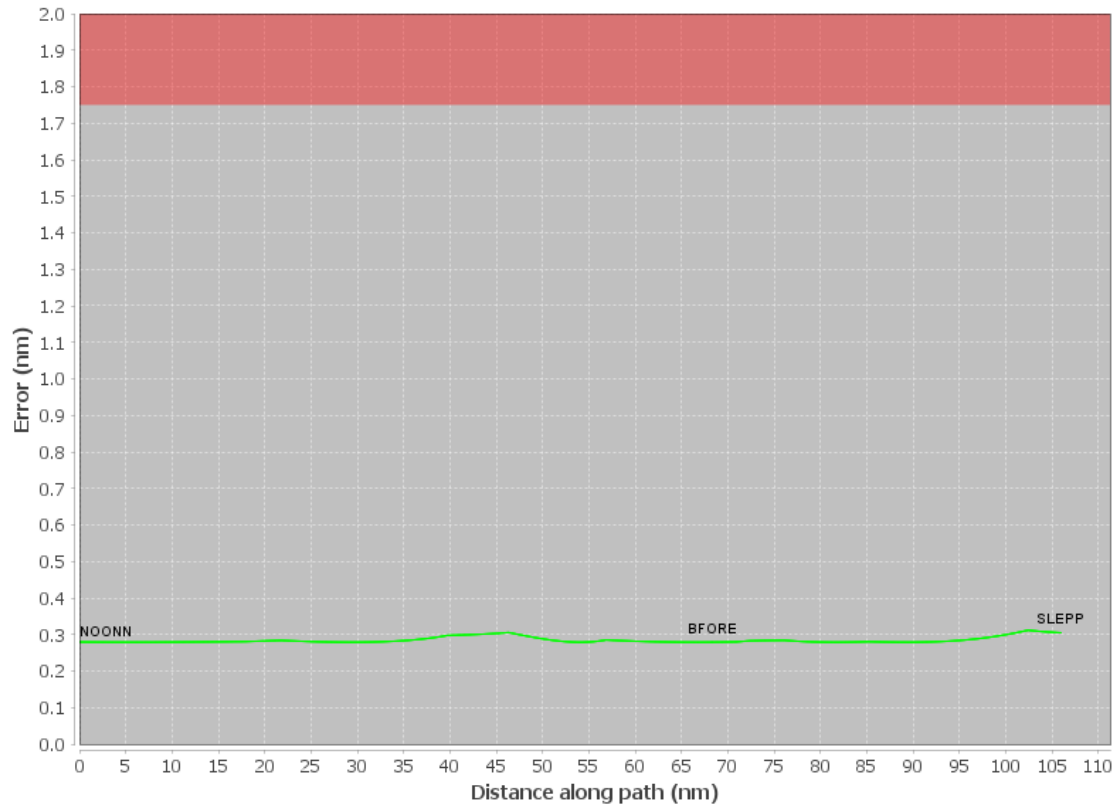
#	File Name
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User DMEs

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	SUG FAA 700549-8 SUG	N35° 24' 23.4230", W082° 16' 07.0110"	2.0 W	40	3970	112.2	SUG FAA 700549-8	
	ESV:	Bearing [True]: 22.0° to 89.0° Bearing [Mag]: 24.0° to 91.0°				Arc Distance: Out to 55.0 NM Altitude: 4000.0 to 15000.0 ft		
2	GRD FAA 861943-38 GRD	N34° 15' 05.6380", W082° 09' 14.9360"	1.0 W	130	632.3	null	GRD FAA 861943-38	
	ESV:	Bearing [True]: 6.0° to 25.0° Bearing [Mag]: 7.0° to 26.0°				Arc Distance: Out to 93.0 NM Altitude: 7500.0 to 15200.0 ft		
3	SUG FAA 700549-9 SUG	N35° 24' 23.4230", W082° 16' 07.0110"	2.0 W	40	3970	112.2	SUG FAA 700549-9	
	ESV:	Bearing [True]: 72.0° to 179.0° Bearing [Mag]: 74.0° to 181.0°				Arc Distance: Out to 71.0 NM Altitude: 5000.0 to 18000.0 ft		

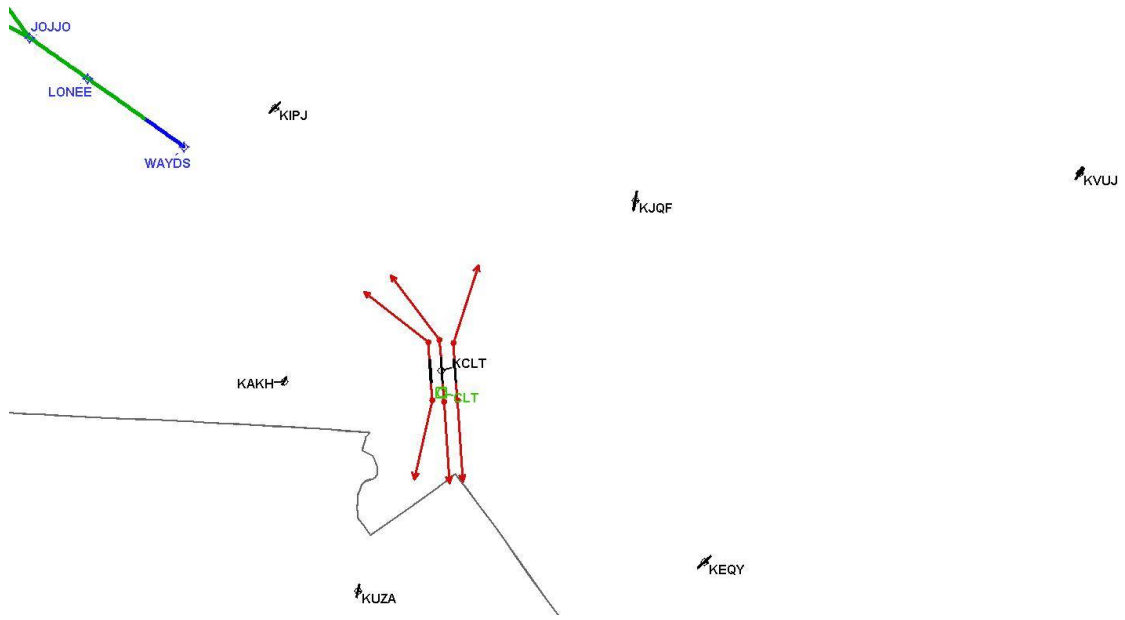
DME DME Assessment Results for JOJJO6 path NOONN_SLEPP

DME Error



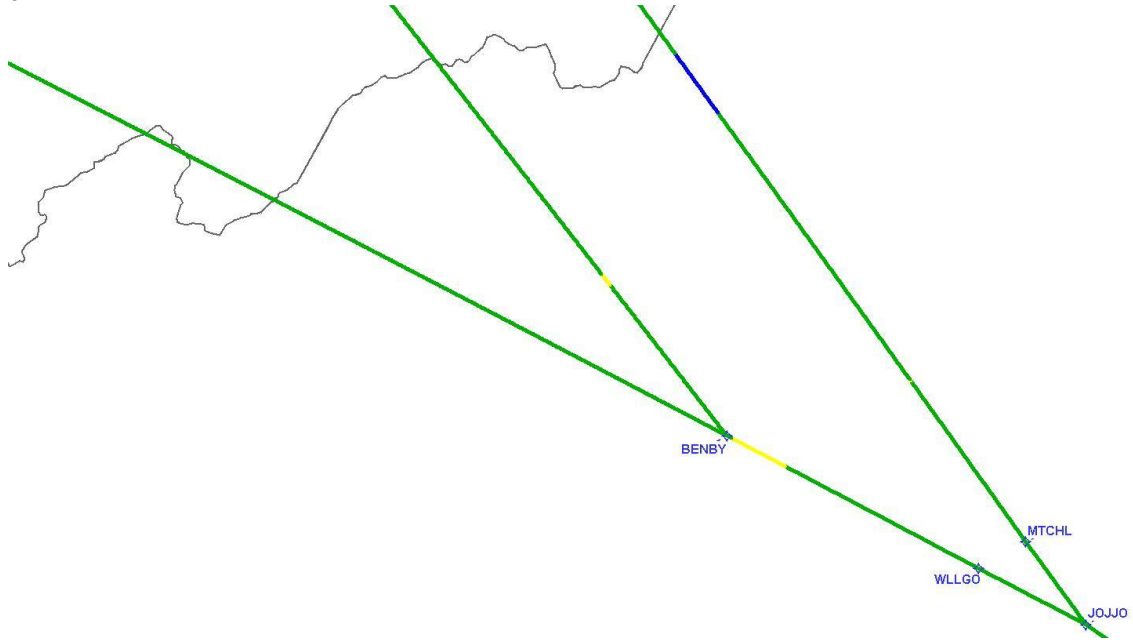
DME DME Assessment Results for JOJJO6 path NOONN_SLEPP

Graphic Depiction 2



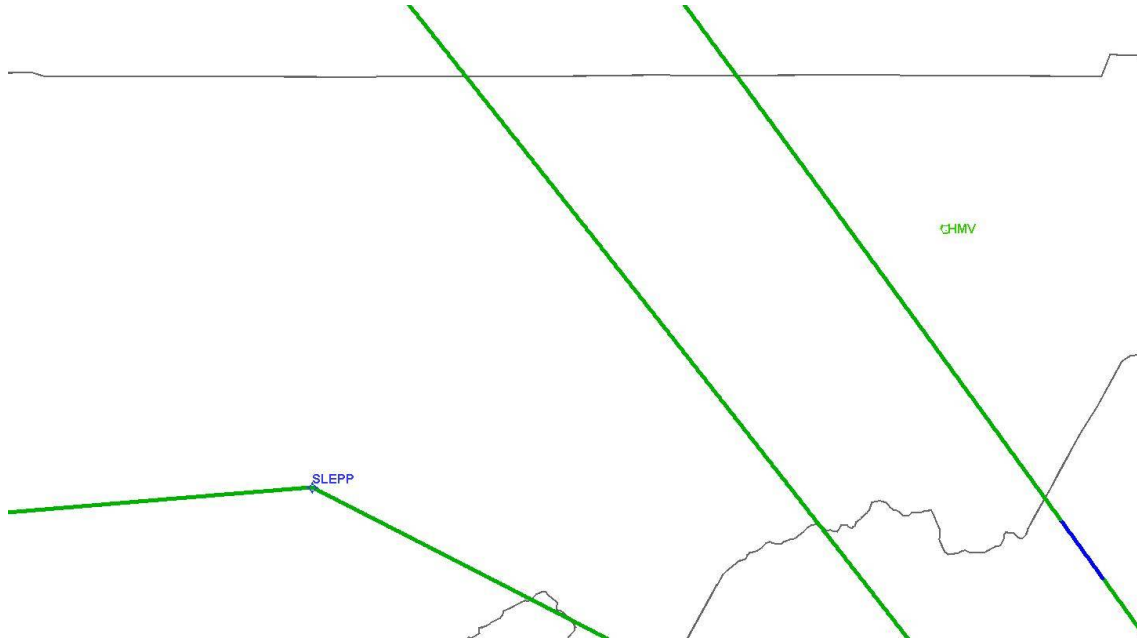
DME DME Assessment Results for JOJJO6 path NOONN_SLEPP

Graphic Depiction 3



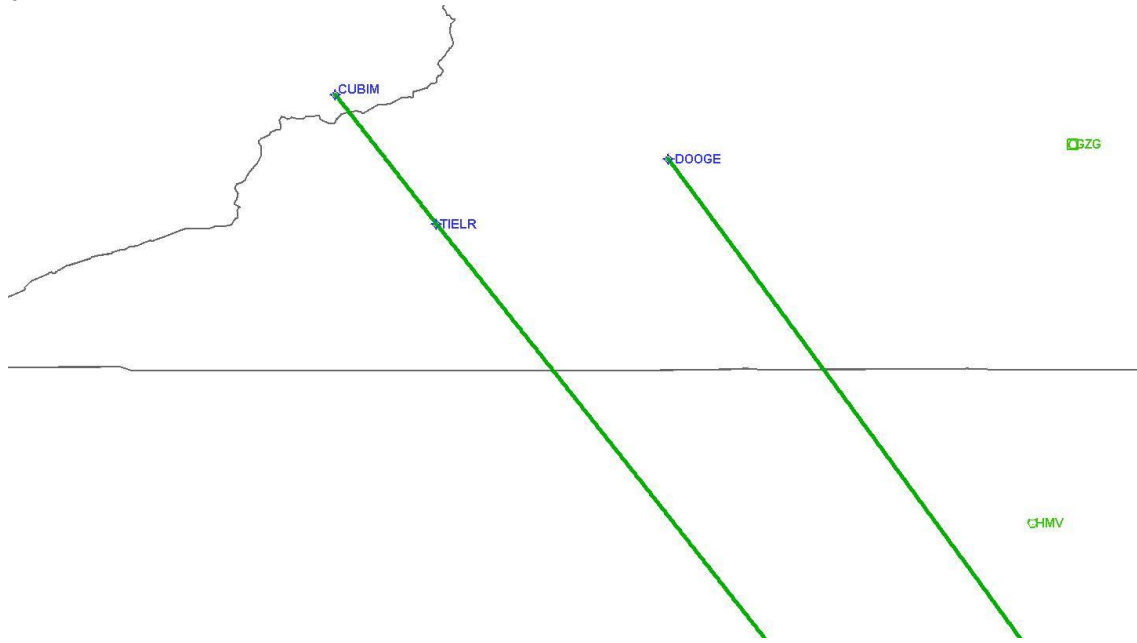
DME DME Assessment Results for JOJJO6 path NOONN_SLEPP

Graphic Depiction 4



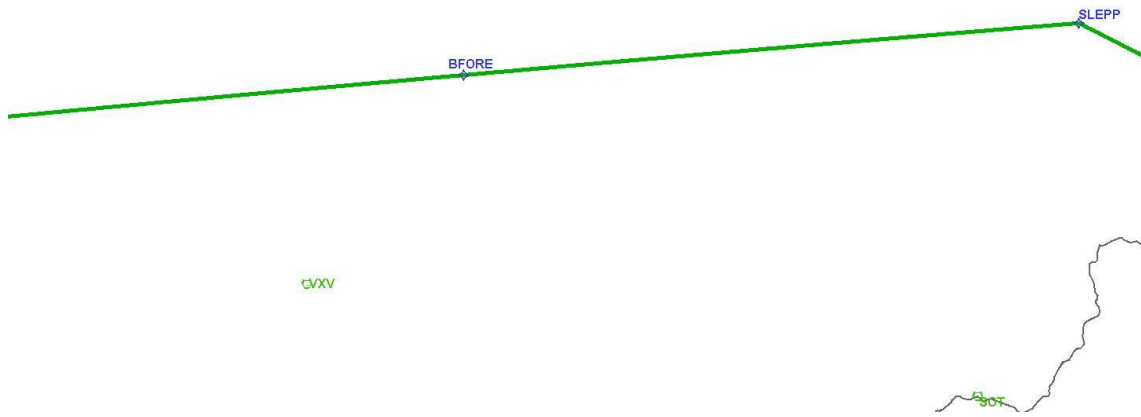
DME DME Assessment Results for JOJJ06 path NOONN_SLEPP

Graphic Depiction 5



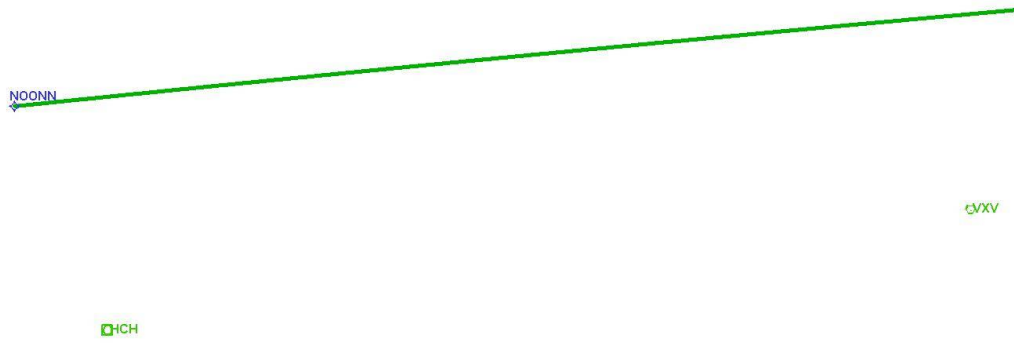
DME DME Assessment Results for JOJJO6 path NOONN_SLEPP

Graphic Depiction 6



DME DME Assessment Results for JOJJO6 path NOONN_SLEPP

Graphic Depiction 7



DME DME Assessment Results for JOJJO6 path WAYDS_NOONN

Results Summary	
Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Mark CTR Thompson
Project File:	C:\Users\Mark CTR Thompson\OneDrive - Federal Aviation Administration\Desktop\RNAV Projects\RNAV Projects 2025\CLT Multiple ECDs for NEW RWY_9.30.2027\CLT_ECD 5.14.2026\JOJJO6\DME\CLT JOJJO6_DME_250521.tgs
Output File:	C:\Users\Mark CTR Thompson\OneDrive - Federal Aviation Administration\Desktop\RNAV Projects\RNAV Projects 2025\CLT Multiple ECDs for NEW RWY_9.30.2027\CLT_ECD 5.14.2026\JOJJO6\DME\KCLT [IFPA] JOJJO6 20250521_0759 EDT\WAYDS_NOONN\KCLT JOJJO6 SID WAYDS NOONN 20250521_0759 EDT.pdf
Procedure Name:	JOJJO6
Software: DmeDmePlugin:	7.5.0
Date/Time:	05/21/2025 07:59 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
WAYDS	WP	N35° 26' 35.5200", W081° 16' 32.6400"	4000	VNAV	200	FLY_BY	TF
LONEE	WP	N35° 30' 47.3200", W081° 23' 49.2500"	5400	VNAV	200	FLY_BY	TF
JOJJO	WP	N35° 33' 16.9600", W081° 28' 10.9300"	6300	VNAV	200	FLY_BY	TF
WLLGO	WP	N35° 36' 43.9400", W081° 36' 17.4400"	7800	VNAV	200	FLY_BY	TF
BENBY	WP	N35° 44' 54.6900", W081° 55' 16.6800"	11300	VNAV	240	FLY_BY	TF
SLEPP	WP	N36° 10' 22.0600", W082° 55' 32.1600"	18000	VNAV	240	FLY_BY	TF
BFORE	WP	N36° 07' 10.0600", W083° 41' 54.4900"	18000	VNAV	240	FLY_BY	TF
NOONN	WP	N36° 00' 38.3700", W085° 05' 43.6800"	18000	VNAV	240	FLY_BY	TF

Flyability	
Flight Type:	SID
Selected Airport:	KCLT [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 JOJJO6 path WAYDS_NOONN

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:	Not Allowed
DoD Facilities:	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	SUG	N35° 24' 23.4230", W082° 16' 07.0110"	2.0 W	40	L		NO	Enabled	35.2 %	33.2 %
2	GQO	N34° 57' 40.5850", W085° 09' 12.1285"	0.0 E	130	H		NO	Enabled	32.1 %	33.2 %
3	SPA	N34° 54' 19.1900", W081° 58' 11.3000"	7.0 W	130	H		NO	Enabled	17.8 %	18.4 %
4	CLT	N35° 11' 25.7040", W080° 57' 07.1756"	5.0 W	40	L		NO	Enabled	7.1 %	6.1 %
5	LVT	N36° 35' 04.2340", W085° 09' 59.8430"	2.0 W	40	L		NO	Enabled	5.2 %	5.4 %
6	HCH	N35° 46' 51.6470", W084° 58' 42.4280"	2.0 W	130	DH		NO	Enabled	63.8 %	66.1 %
7	HMV	N36° 26' 13.4000", W082° 07' 46.5600"	4.0 W	40	L		NO	Enabled	17.4 %	18 %
8	ODF	N34° 41' 45.1420", W083° 17' 51.5800"	0.0 E	130	H		NO	Enabled	39.5 %	40.9 %
9	BWG	N36° 57' 52.0000", W086° 25' 24.0000"	0.0 E	130	DH		NO	Enabled	26.2 %	27.1 %
10	BZM	N35° 52' 07.8740", W081° 14' 25.9040"	6.0 W	130	H		NO	Enabled	36 %	34 %
11	CTF	N34° 39' 01.7930", W080° 16' 29.6989"	3.0 W	130	DH		NO	Enabled	28.9 %	27.2 %
12	BNA	N36° 08' 13.0573", W086° 41' 05.1762"	2.0 W	130	H		NO	Enabled	10.9 %	11.2 %
13	VXV	N35° 54' 17.4193", W083° 53' 40.9934"	3.0 W	130	H		NO	Enabled	60.4 %	62.6 %
14	LOZ	N37° 01' 59.3414", W084° 06' 36.2688"	3.0 W	130	DH		NO	Enabled	73.5 %	76.1 %
15	GRD	N34° 15' 05.6380", W082° 09' 14.9360"	1.0 W	130	H		NO	Enabled	9.6 %	8.3 %
16	SOT	N35° 47' 24.3570", W083° 03' 08.5290"	4.0 W	40	L		NO	Enabled	35.4 %	36.7 %

DME DME Assessment Results for JOJJO6 path WAYDS_NOONN

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0						
2.9	SUG	BZM				
5.2	SUG	BZM	CLT			
8.4	CLT	BZM	CTF	SUG		
17.4	BZM	CTF	SUG			
17.6	BZM	CTF	SUG	GRD		
34.1	SUG	CTF	BZM			
41.2	SUG	CTF				
47.0	SUG	CTF	HMV			
47.2	SUG	CTF	LOZ	HMV		
57.3	SUG	SOT	HMV	LOZ	CTF	
62.2	SUG	SOT	LOZ	HMV		
67.0	SUG	SOT	LOZ	HMV	HCH	
68.5	LOZ	HMV	SOT	HCH		
69.8	SOT	SPA	LOZ	HMV	HCH	
82.6	LOZ	SOT	SPA	VXV	BZM	ODF
106.2	SOT	VXV	LOZ	HCH	ODF	BZM
107.5	SOT	VXV	LOZ	HCH	ODF	
109.9	SOT	VXV	LOZ	HCH		
111.1	SOT	VXV	LOZ	HCH	ODF	
129.9	LOZ	HCH	ODF	VXV		
132.0	LOZ	HCH	ODF	GQO	VXV	
159.3	LOZ	VXV	GQO	HCH	BWG	

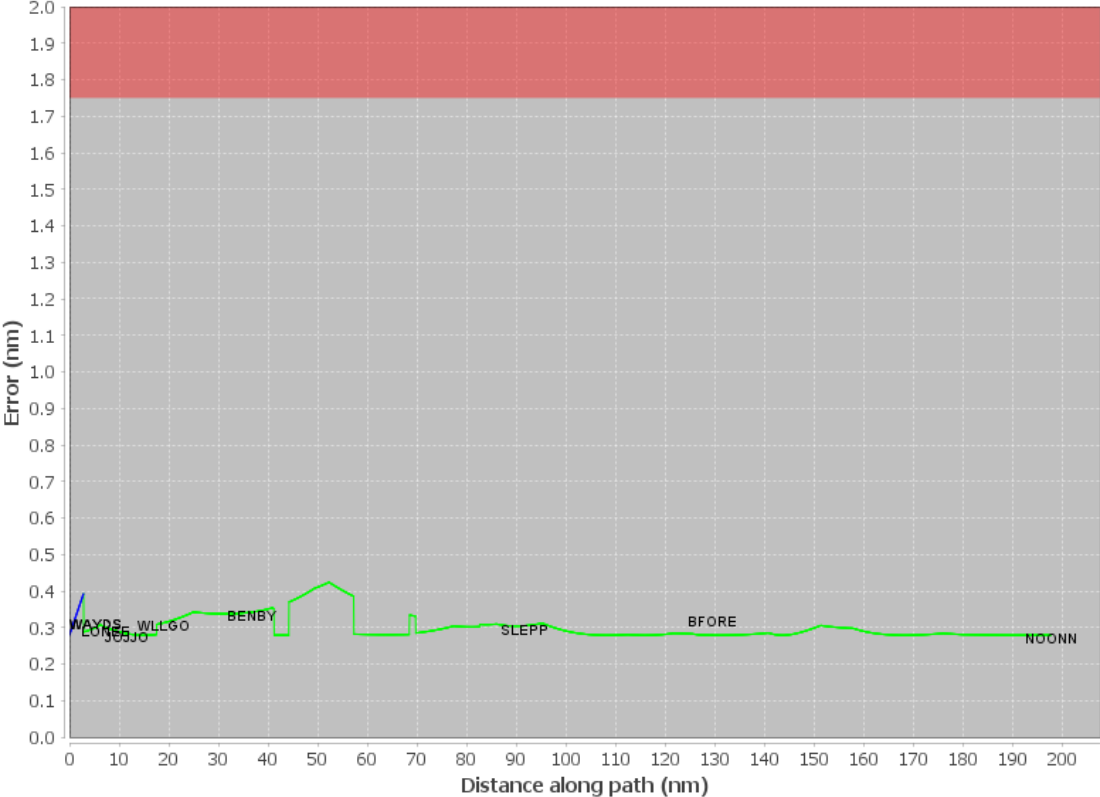
Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N35° 26' 37.4438", W081° 16' 35.9700"	N35° 28' 15.5240", W081° 19' 25.8603"	2.831

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
WAYDS	LONEE	SUG, BZM, CLT	
LONEE	JOJJO	BZM, SUG, CTF, CLT	
JOJJO	WLLGO	BZM, CTF, SUG, GRD, CLT	
WLLGO	BENBY	SUG, CTF, BZM, GRD	
BENBY	SLEPP	HMV, ODF, SUG, BZM, CTF, SPA, VXV, LOZ, SOT, HCH	
SLEPP	BFORE	ODF, BZM, SPA, VXV, LOZ, SOT, HCH	
BFORE	NOONN	ODF, BWG, GQO, BNA, VXV, LOZ, SOT, LVT, HCH	

User Data Files								
#	File Name							
None								
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	SUG FAA 700549-8 SUG	N35° 24' 23.4230", W082° 16' 07.0110"	2.0 W	40	3970	112.2	SUG FAA 700549-8	
ESV:		Bearing [True]: 22.0° to 89.0° Bearing [Mag]: 24.0° to 91.0°				Arc Distance: Out to 55.0 NM Altitude: 4000.0 to 15000.0 ft		
2	GRD FAA 861943-38 GRD	N34° 15' 05.6380", W082° 09' 14.9360"	1.0 W	130	632.3	null	GRD FAA 861943-38	
ESV:		Bearing [True]: 6.0° to 25.0° Bearing [Mag]: 7.0° to 26.0°				Arc Distance: Out to 93.0 NM Altitude: 7500.0 to 15200.0 ft		
3	SUG FAA 700549-9 SUG	N35° 24' 23.4230", W082° 16' 07.0110"	2.0 W	40	3970	112.2	SUG FAA 700549-9	
ESV:		Bearing [True]: 72.0° to 179.0° Bearing [Mag]: 74.0° to 181.0°				Arc Distance: Out to 71.0 NM Altitude: 5000.0 to 18000.0 ft		

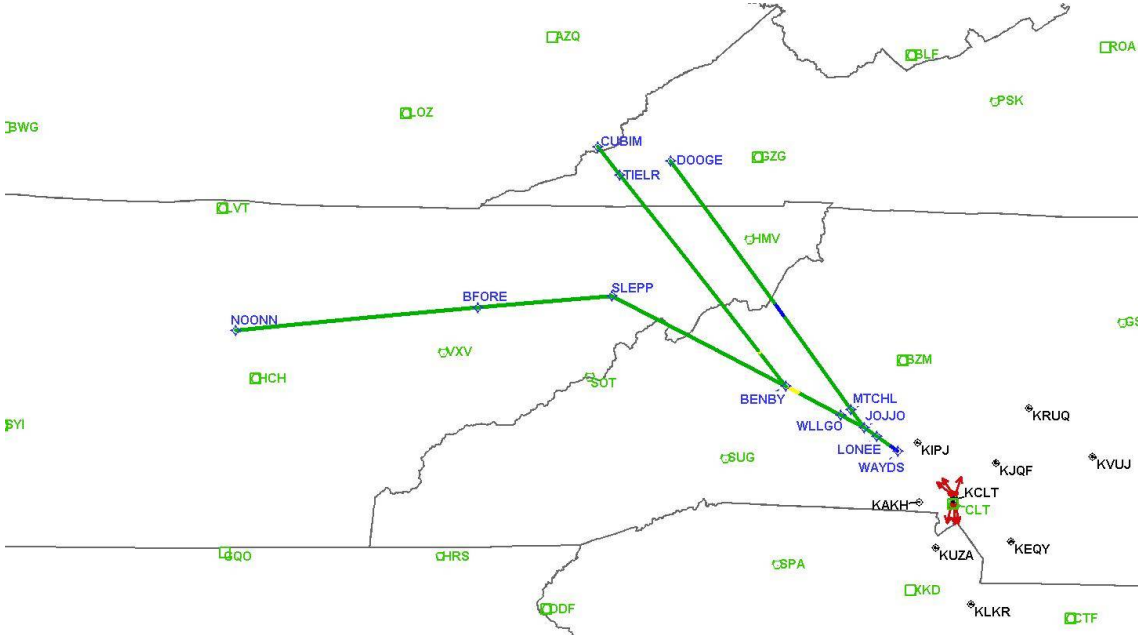
DME DME Assessment Results for JOJJO6 path WAYDS_NOONN

DME Error



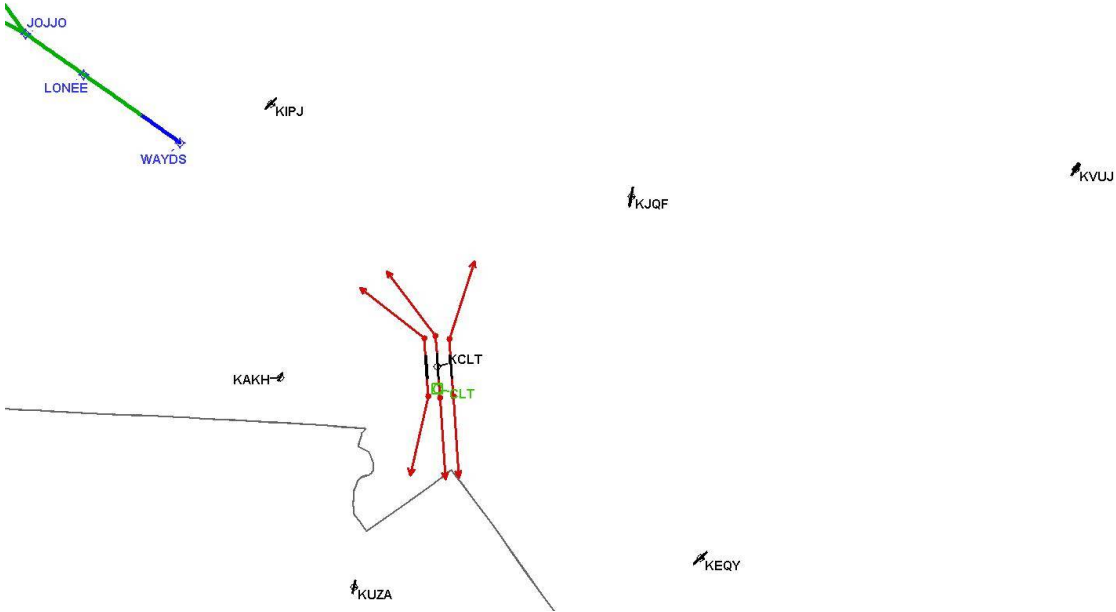
DME DME Assessment Results for JOJJO6 path WAYDS_NOONN

Graphic Depiction 1



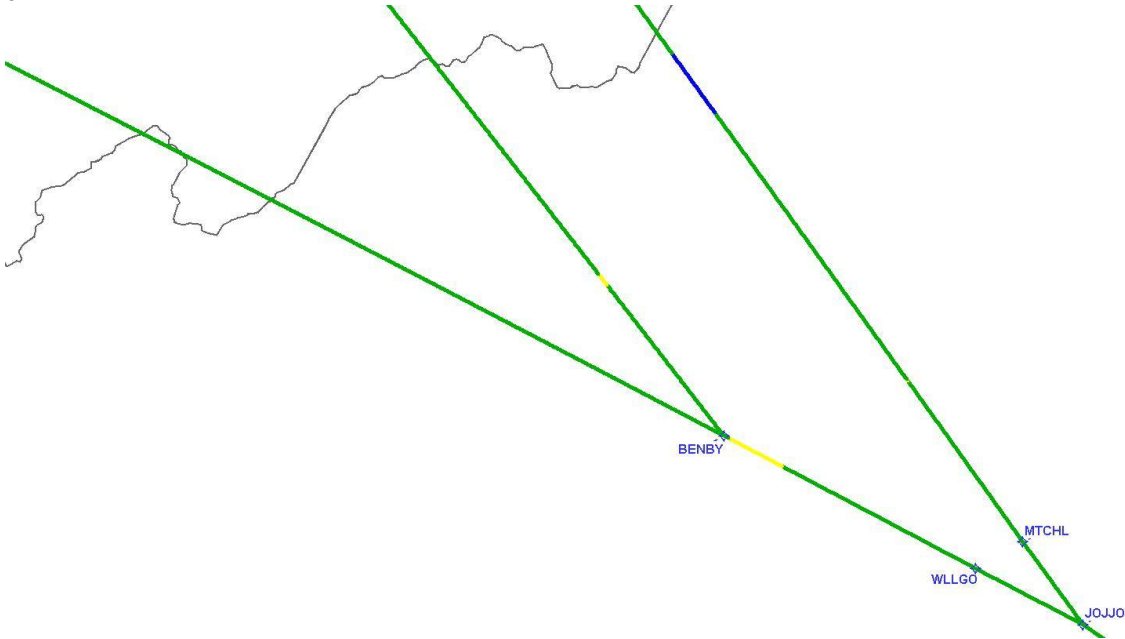
DME DME Assessment Results for JOJJO6 path WAYDS_NOONN

Graphic Depiction 2



DME DME Assessment Results for JOJJO6 path WAYDS_NOONN

Graphic Depiction 3



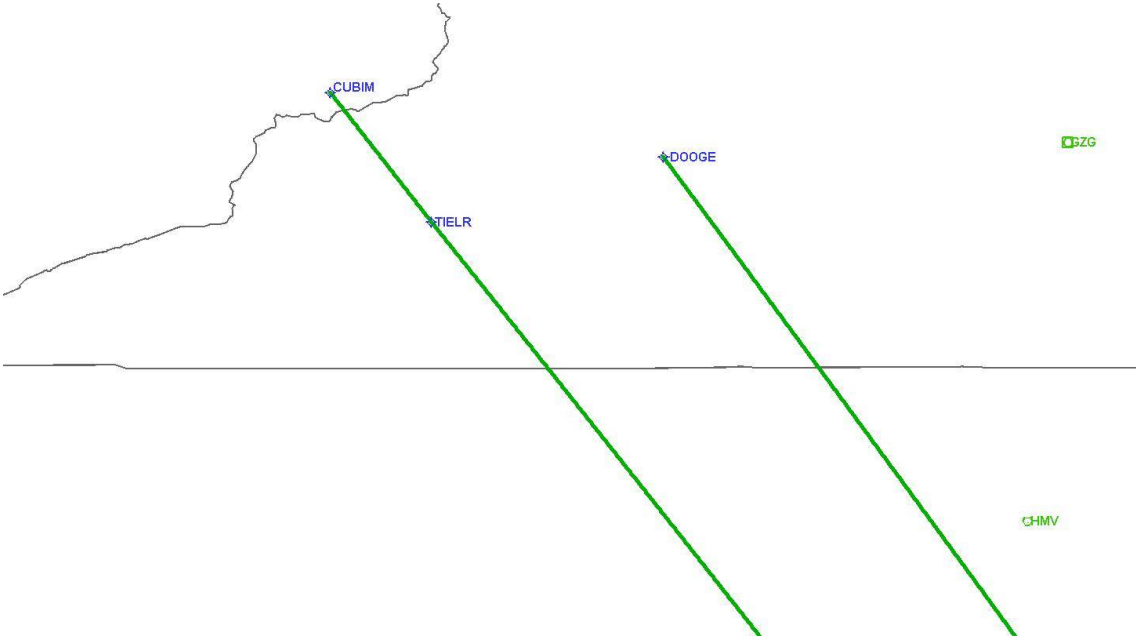
DME DME Assessment Results for JOJJO6 path WAYDS_NOONN

Graphic Depiction 4



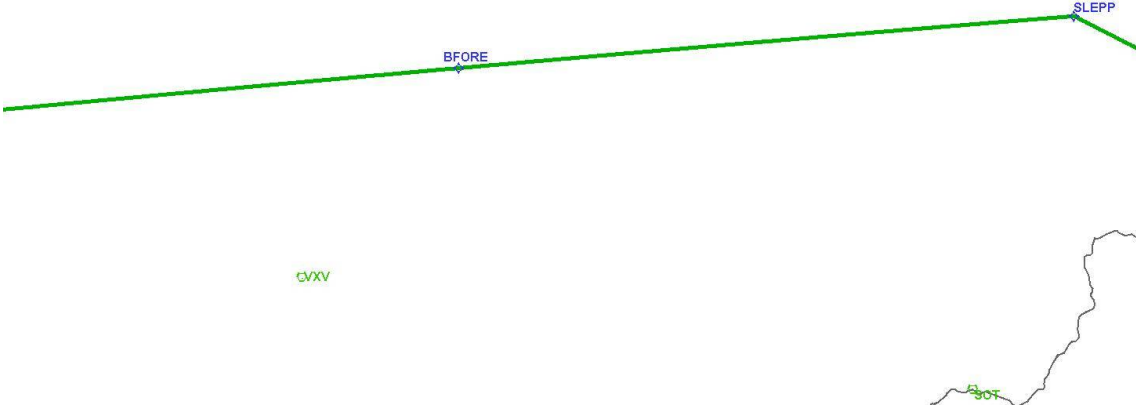
DME DME Assessment Results for JOJJO6 path WAYDS_NOONN

Graphic Depiction 5



DME DME Assessment Results for JOJJO6 path WAYDS_NOONN

Graphic Depiction 6



DME DME Assessment Results for JOJJO6 path WAYDS_NOONN

Graphic Depiction 7

