

DME DME Assessment Results for Q221 path AML_DLMAR

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Steven S-CTR Rager
Project File:	C:\Group 10\Rework\23-AEA-10 ... (5-16-2024)\Q221\Q221 DME 230927yr.tgs
Output File:	C:\Group 10\Rework\23-AEA-10 ... (5-16-2024)\Q221\Q221 20230927_1132 EDT\AML_DLMAR\Q221 RNAV ROUTE AML DLMAR 20230927_1132 EDT.pdf
Procedure Name:	Q221
Software:	7.1.1
DmeDmePlugin:	
Date/Time:	09/27/2023 11:32 EDT
Databases:	DTED 0

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
AML	WP	N38° 56' 04.53", W077° 28' 00.13"	18000	VNAV	240	FLY_BY	TF
JERES	WP	N39° 38' 34.40", W077° 27' 18.20"	18000	VNAV	240	FLY_BY	TF
BEETS	WP	N39° 57' 20.57", W077° 26' 59.55"	18000	VNAV	240	FLY_BY	TF
MICAH	WP	N40° 09' 33.12", W077° 26' 47.05"	18000	VNAV	240	FLY_BY	TF
VALLO	WP	N40° 37' 36.57", W077° 26' 18.47"	18000	VNAV	240	FLY_BY	TF
OGESY	WP	N40° 44' 13.65", W077° 26' 11.63"	18000	VNAV	240	FLY_BY	TF
FORTT	WP	N40° 50' 23.28", W077° 26' 04.89"	18000	VNAV	240	FLY_BY	TF
BIGEO	WP	N41° 09' 58.81", W077° 25' 44.89"	18000	VNAV	240	FLY_BY	TF
WUNDR	WP	N41° 19' 56.28", W077° 25' 34.49"	18000	VNAV	240	FLY_BY	TF
DLMAR	WP	N41° 41' 42.56", W077° 25' 11.02"	18000	VNAV	240	FLY_BY	TF

Flyability

Flight Type:	RNAV_ROUTE
Selected Airport:	
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 Q221 path AML_DL MAR

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
DME Include Angles:	30 to 150
Critical DMEs:	Not Allowed
DoD Facilities:	Not included
Foreign Facilities:	Not included
High DMEs:	Included
Low DMEs:	Not included
Terminal DMEs:	Not included
Flight Check DMEs:	Not selected
Higher Altitudes:	Not Evaluated
Near Maximum Altitude:	Not Evaluated
Automatic ESVs:	Enabled
Disabled DMEs:	None

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	SLT	N41° 30' 45.93", W077° 58' 12.40"	8.0 W	130	H	IFPA	NO	Enabled	64.6 %	64.6 %
2	RIC	N37° 30' 08.45", W077° 19' 12.99"	9.0 W	130	H	IFPA	NO	Enabled	8.1 %	8.1 %
3	FAK	N37° 31' 42.63", W077° 49' 41.59"	6.0 W	130	H	IFPA	NO	Enabled	2.4 %	2.4 %
4	CSN	N38° 38' 28.33", W077° 51' 55.80"	6.0 W	130	H	IFPA	NO	Enabled	44.5 %	44.5 %
5	DKK	N42° 29' 25.44", W079° 16' 26.77"	-0.0 E	130	H	IFPA	NO	Enabled	1.4 %	1.4 %
6	JHW	N42° 11' 18.99", W079° 07' 16.71"	7.0 W	130	H	IFPA	NO	Enabled	18.4 %	18.4 %
7	EWC	N40° 49' 29.76", W080° 12' 41.56"	8.0 W	130	H	IFPA	NO	Enabled	9.6 %	9.6 %
8	BUF	N42° 55' 44.37", W078° 38' 46.86"	0.0 E	130	H	IFPA	NO	Enabled	4.3 %	4.3 %
9	PSB	N40° 54' 58.53", W077° 59' 33.78"	10.0 W	130	H	IFPA	NO	Enabled	86.1 %	86.1 %
10	ETG	N41° 12' 53.82", W078° 08' 33.92"	10.0 W	130	H	IFPA	NO	Enabled	73.8 %	73.8 %
11	REC	N40° 32' 47.25", W078° 44' 49.28"	9.0 W	130	H	IFPA	NO	Enabled	88.4 %	88.4 %
12	GVE	N38° 00' 48.96", W078° 09' 10.90"	6.0 W	130	H	IFPA	NO	Enabled	17 %	17 %
13	EMI	N39° 29' 42.03", W076° 58' 42.86"	8.0 W	130	H	IFPA	NO	Enabled	75.2 %	75.2 %



DME DME Assessment Results for Q221 path AML_DLMAR

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	RIC	CSN	EMI	FAK	GVE	
4.0	RIC	CSN	EMI	GVE		
9.7	RIC	EMI	CSN			
13.3	RIC	EMI	FAK	CSN		
13.4	RIC	EMI	CSN			
13.5						
19.3	REC	EMI	CSN	GVE		
23.1	REC	EMI	PSB	CSN	GVE	
37.9	CSN	EMI	REC	PSB		
43.3	CSN	EMI	REC	PSB	ETG	
79.6	SLT	REC	EMI	ETG	PSB	
130.4	SLT	REC	PSB	ETG		
135.0	SLT	PSB	REC	JHW	ETG	

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N39° 09' 33.16", W077° 27' 46.92"	N39° 15' 21.42", W077° 27' 41.21"	5.7996

Available DMEs by Waypoints

Waypoint Before	Waypoint After	DME List	Suggested DMEs
AML	JERES	EMI, FAK, REC, GVE, RIC, PSB, CSN	
JERES	BEETS	EMI, REC, ETG, SLT, PSB, CSN	
BEETS	MICAH	EMI, REC, ETG, SLT, PSB, CSN	
MICAH	VALLO	EMI, EWC, REC, ETG, SLT, PSB, CSN	
VALLO	OGESY	EMI, REC, ETG, SLT, PSB	
OGESY	FORTT	EMI, REC, ETG, SLT, PSB	
FORTT	BIGEO	EMI, REC, ETG, SLT, PSB	
BIGEO	WUNDR	REC, JHW, ETG, SLT, PSB	
WUNDR	DLMAR	REC, BUF, DKK, JHW, ETG, SLT, PSB	

User Data Files

#	File Name
1	New Analysis.udt

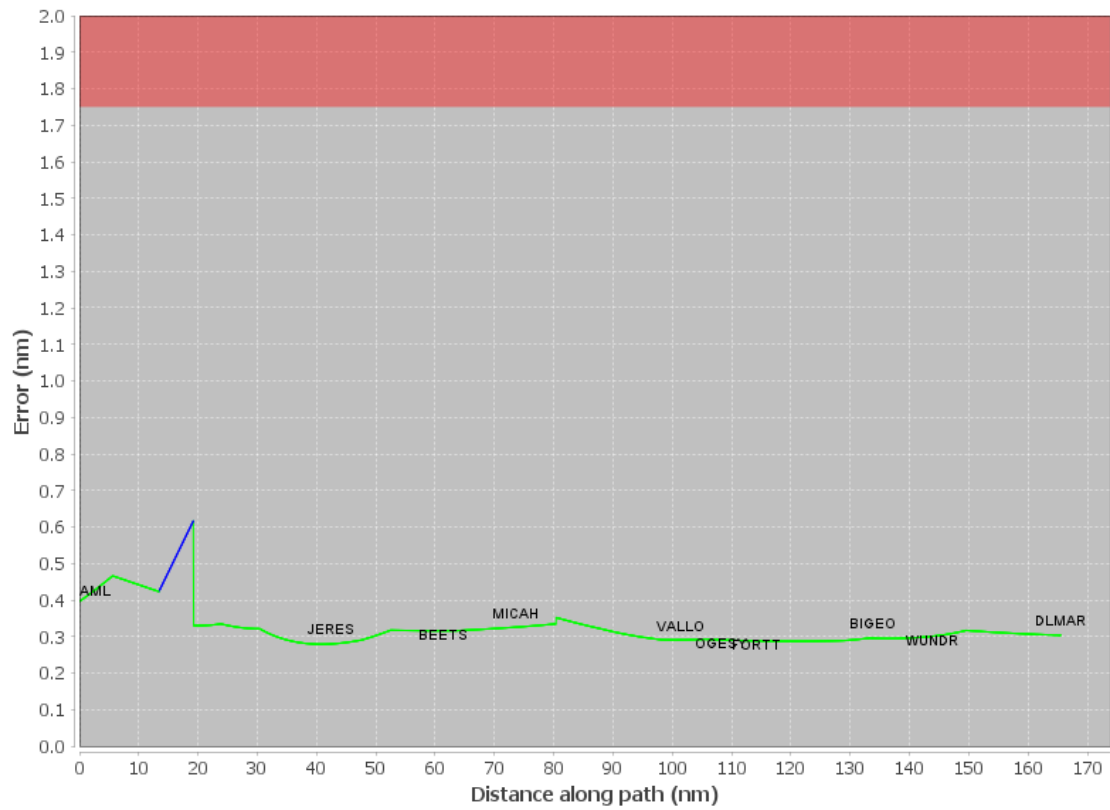
User DMEs

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	EWC FAA 701374-016 EWC [IFPA]	N40° 49' 29.76", W080° 12' 41.56"	8.0 W	130	1226.8	115.8	EWC FAA 701374-016	
ESV:		Bearing [True]: 94.0° to 102.0° Bearing [Mag]: 102.0° to 110.0°				Arc Distance: Out to 134.0 NM Altitude: 16900.0 to 25000.0 ft		



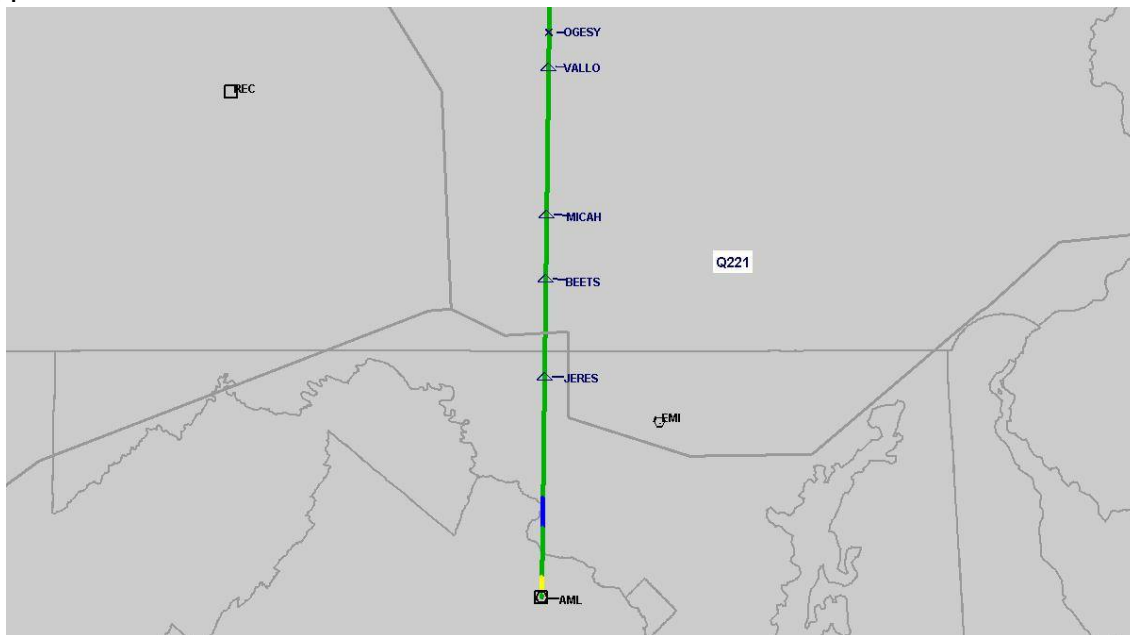
DME DME Assessment Results for Q221 path AML_DLMAR

DME Error



DME DME Assessment Results for Q221 path AML_DLMAR

Graphic Depiction 1



DME DME Assessment Results for Q221 path DLMAR_AML

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Warnings

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Notes For Flight Check

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Flight Plan

Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
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4	DKK	N42° 29' 25.44", W079° 16' 26.77"	-0.0 E	130	H	IFPA	NO	Enabled	1.4 %	1.4 %
5	CSN	N38° 38' 28.33", W077° 51' 55.80"	6.0 W	130	H	IFPA	NO	Enabled	44.5 %	44.5 %
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9	PSB	N40° 54' 58.53", W077° 59' 33.78"	10.0 W	130	H	IFPA	NO	Enabled	86.1 %	86.1 %
10	ETG	N41° 12' 53.82", W078° 08' 33.92"	10.0 W	130	H	IFPA	NO	Enabled	73.8 %	73.8 %
11	REC	N40° 32' 47.25", W078° 44' 49.28"	9.0 W	130	H	IFPA	NO	Enabled	88.4 %	88.4 %
12	GVE	N38° 00' 48.96", W078° 09' 10.90"	6.0 W	130	H	IFPA	NO	Enabled	17 %	17 %
13	EMI	N39° 29' 42.03", W076° 58' 42.86"	8.0 W	130	H	IFPA	NO	Enabled	75.2 %	75.2 %



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Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	JHW	PSB	BUF	ETG	DKK	SLT
2.4	JHW	PSB	BUF	ETG	SLT	REC
7.1	JHW	PSB	REC	ETG	SLT	
30.6	SLT	PSB	REC	ETG		
35.2	SLT	REC	PSB	EMI	ETG	
107.0	CSN	REC	EMI	PSB	ETG	
122.3	CSN	EMI	REC	PSB		
127.7	CSN	EMI	GVE	REC	PSB	
142.5	REC	EMI	CSN	GVE		
146.3						
152.1	RIC	EMI	CSN			
152.2	RIC	EMI	FAK	CSN		
152.3	RIC	EMI	CSN			
155.9	RIC	EMI	CSN	GVE		
161.6	RIC	CSN	EMI	GVE	FAK	

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N39° 15' 17.42", W077° 27' 41.28"	N39° 09' 29.16", W077° 27' 46.99"	5.7996

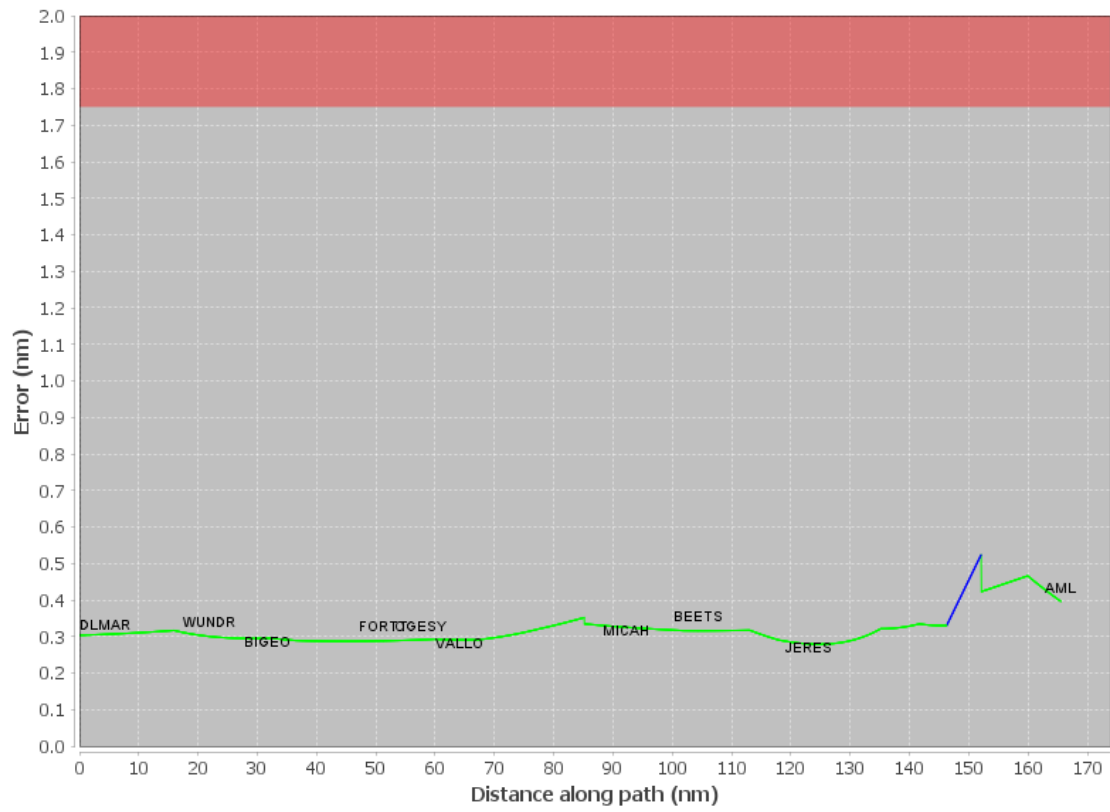
Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
DLMAR	WUNDR	REC, BUF, DKK, JHW, ETG, SLT, PSB	
WUNDR	BIGEO	REC, JHW, ETG, SLT, PSB	
BIGEO	FORTT	EMI, REC, ETG, SLT, PSB	
FORTT	OGESY	EMI, REC, ETG, SLT, PSB	
OGESY	VALLO	EMI, REC, ETG, SLT, PSB	
VALLO	MICAH	EMI, EWC, REC, ETG, SLT, PSB, CSN	
MICAH	BEETS	EMI, REC, ETG, SLT, PSB, CSN	
BEETS	JERES	EMI, REC, ETG, SLT, PSB, CSN	
JERES	AML	EMI, REC, FAK, GVE, RIC, PSB, CSN	

User Data Files								
#	File Name							
1	New Analysis.udt							
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	EWC FAA 701374-016 EWC [IFPA]	N40° 49' 29.76", W080° 12' 41.56"	8.0 W	130	1226.8	115.8	EWC FAA 701374-016	
ESV:		Bearing [True]: 94.0° to 102.0° Bearing [Mag]: 102.0° to 110.0°				Arc Distance: Out to 134.0 NM Altitude: 16900.0 to 25000.0 ft		



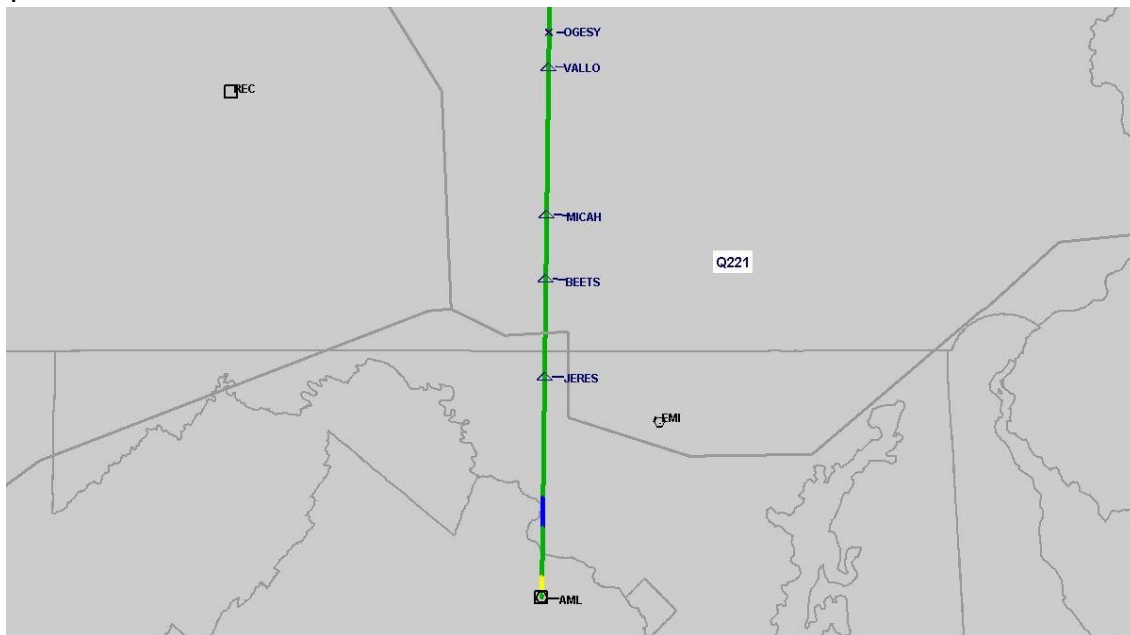
DME DME Assessment Results for Q221 path DLMAR_AML

DME Error



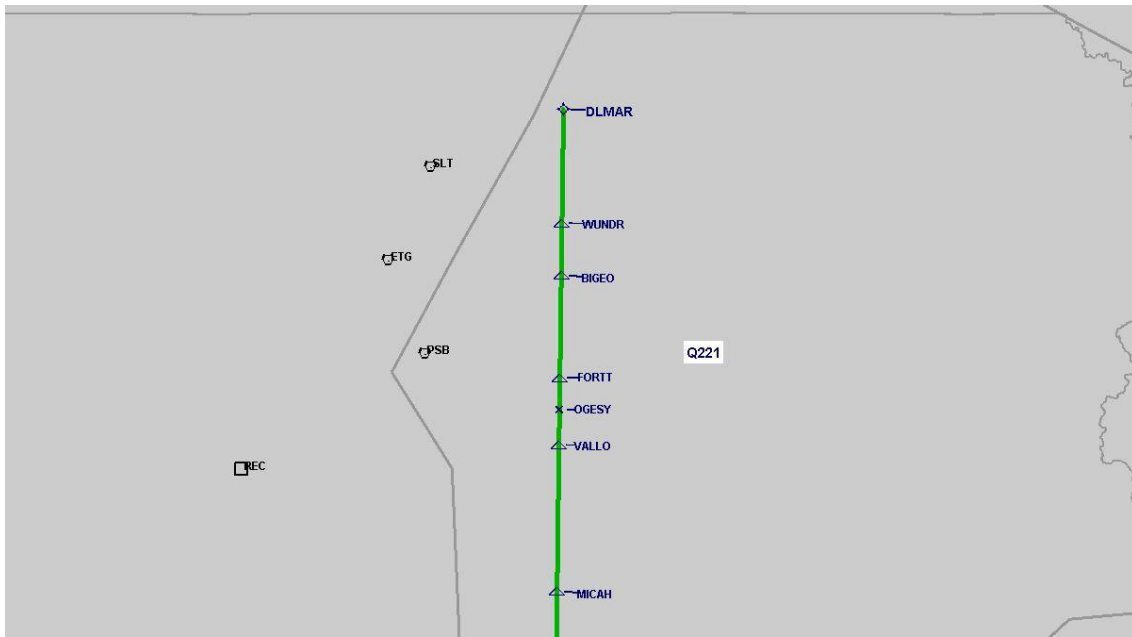
DME DME Assessment Results for Q221 path DLMAR_AML

Graphic Depiction 1



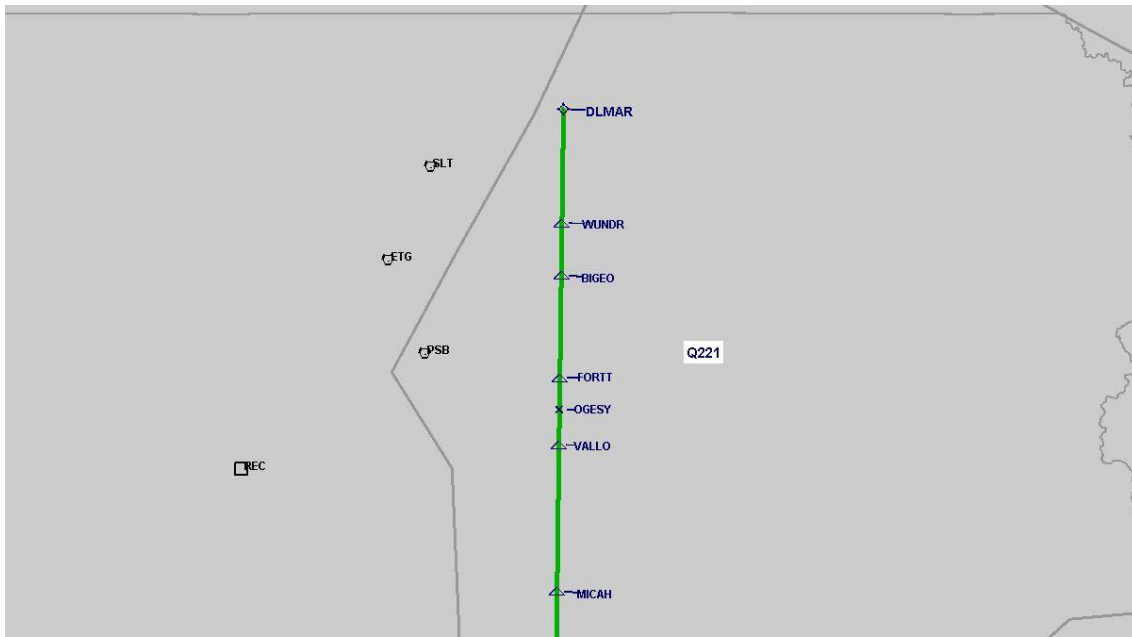
DME DME Assessment Results for Q221 path DLMAR_AML

Graphic Depiction 2



DME DME Assessment Results for Q221 path AML_DLMAR

Graphic Depiction 2



QUALITY
18
CHECKED