

## DME DME Assessment Results for CEGRM6 path BAMGE\_\_ZALED

### Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Robert CTR Ellis
Project File:	C:\Users\Robert CTR Ellis\Documents\Project Files\CVG\CVG Sub docs\STAR CEGRM6\KCVG CEGRM6 RNAV STAR DME.tgs
Output File:	C:\Users\Robert CTR Ellis\Documents\Project Files\CVG\CVG Sub docs\KCVG [IFPA] CEGRM6 20230818_1016 CDT\BAMGE__ZALED\KCVG CEGRM6 RNAV STAR BAMGE_ZALED 20230818_1016 CDT.pdf
Procedure Name:	CEGRM6
Software: DmeDmePlugin:	7.1.1
Date/Time:	08/18/2023 10:16 CDT
Databases:	DTED0

### 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
BAMGE__	WP	N39° 08' 06.46", W084° 47' 26.90"	5000	VNAV	210	FLY_BY	TF
COGDU	WP	N39° 07' 58.47", W084° 41' 16.22"	5000	VNAV	210	FLY_BY	TF
ZALED	WP	N39° 07' 57.94", W084° 37' 24.89"	5000	VNAV	210	FLY_OVER	TF

### Flyability

Flight Type:	RNAV_STAR
Selected Airport:	KCVG [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 CEGRM6 path BAMGE\_ZALED

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:	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	SHB	N39° 37' 57.15", W085° 49' 27.54"	1.0 E	130	DH	IFPA	NO	Enabled	65.1 %	65.1 %
2	FLM	N38° 38' 57.99", W084° 18' 38.17"	4.0 W	130	H	IFPA	NO	Enabled	45.8 %	45.8 %
3	CVG	N39° 00' 57.53", W084° 42' 12.05"	4.0 W	40	L	IFPA	NO	Enabled	65.1 %	65.1 %

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0						
2.7	SHB	CVG				
4.2	SHB	CVG	FLM			

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N39° 08' 06.46", W084° 47' 26.90"	N39° 08' 01.98", W084° 43' 56.99"	2.7231

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
BAMGE_	COGDU	CVG, FLM, SHB	
COGDU	ZALED	CVG, FLM, SHB	

**DME DME Assessment Results for CEGRM6 path BAMGE\_ZALED**

**User Data Files**

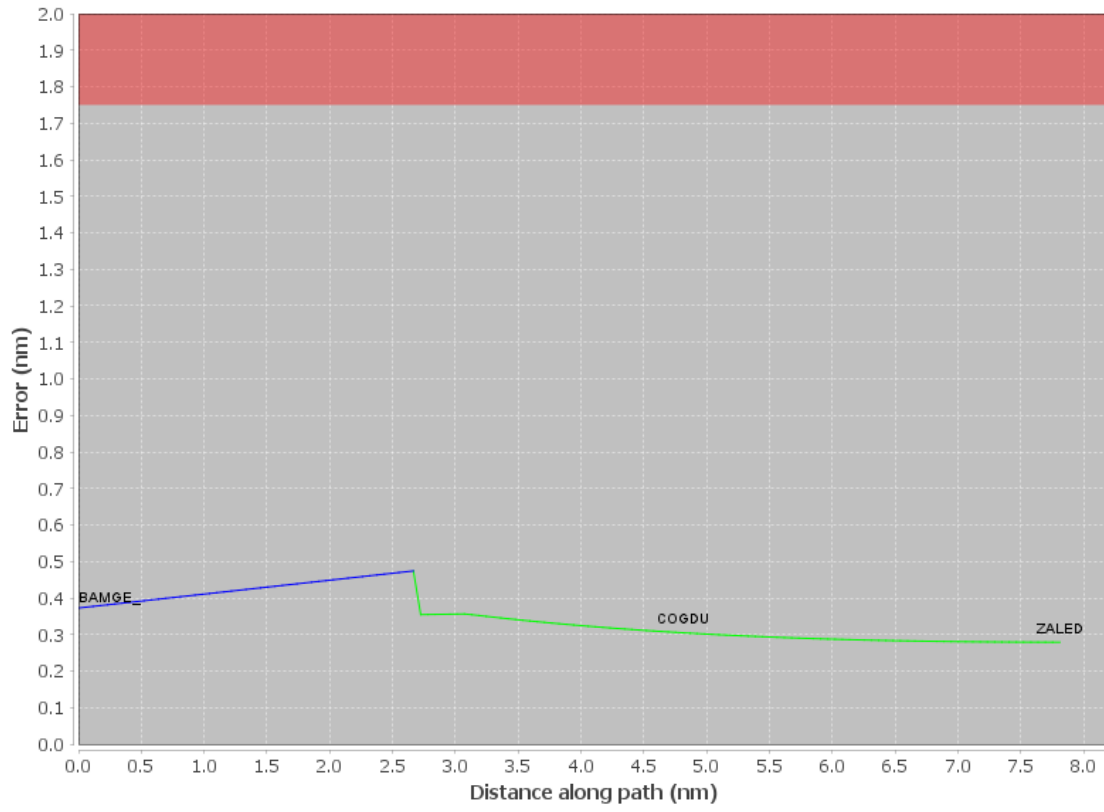
#	File Name
1	UserDMEsKCVG [IFPA] CEGRM6 RNAV STAR_20230818_1003 CDT.udt

**User DMEs**

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	MIE FAA 830745-015E MIE [IFPA]	N40° 14' 14.25", W085° 23' 38.53"	3.0 W	40	934.3	114.4	MIE FAA 830745-015E	
	ESV:	Bearing [True]: 166.0° to 242.0° Bearing [Mag]: 169.0° to 245.0°				Arc Distance: Out to 58.0 NM Altitude: 4000.0 to 18000.0 ft		
2	TTH FAA 850061-035 TTH [IFPA]	N39° 29' 20.18", W087° 14' 56.46"	2.0 E	130	606	115.3	TTH FAA 850061-035	
	ESV:	Bearing [True]: 7.0° to 88.0° Bearing [Mag]: 5.0° to 86.0°				Arc Distance: Out to 52.0 NM Altitude: 2500.0 to 16000.0 ft		

# DME DME Assessment Results for CEGRM6 path BAMGE\_ZALED

## DME Error





## DME DME Assessment Results for CEGRM6 path DELHI\_BRCAT

### Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Robert CTR Ellis
Project File:	C:\Users\Robert CTR Ellis\Documents\Project Files\CVG\CVG Sub docs\STAR CEGRM6\KCVG CEGRM6 RNAV STAR DME.tgs
Output File:	C:\Users\Robert CTR Ellis\Documents\Project Files\CVG\CVG Sub docs\KCVG [IFPA] CEGRM6 20230818_1016 CDT\DELHI_BRCAT\KCVG CEGRM6 RNAV STAR DELHI BRCAT 20230818_1016 CDT.pdf
Procedure Name:	CEGRM6
Software: DmeDmePlugin:	7.1.1
Date/Time:	08/18/2023 10:16 CDT
Databases:	DTED0

### 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
DELHI	WP	N41° 56' 00.00", W087° 47' 10.00"	18000	VNAV	240	FLY_BY	TF
CADIZ	WP	N41° 10' 03.99", W087° 23' 15.77"	18000	VNAV	240	FLY_BY	TF
FATOX	WP	N40° 48' 04.34", W087° 11' 45.47"	18000	VNAV	240	FLY_BY	TF
BOLRR	WP	N40° 33' 22.03", W087° 04' 09.55"	18000	VNAV	240	FLY_BY	TF
TORIO	WP	N40° 14' 56.71", W086° 52' 33.73"	18000	VNAV	240	FLY_BY	TF
MACES	WP	N40° 00' 13.25", W086° 43' 22.62"	15000	VNAV	240	FLY_BY	TF
CRYME	WP	N39° 48' 50.61", W086° 21' 55.98"	14000	VNAV	240	FLY_BY	TF
ARIVR	WP	N39° 36' 44.13", W085° 47' 04.41"	7000	VNAV	240	FLY_BY	TF
CEGRM	WP	N39° 31' 05.40", W085° 29' 06.04"	7000	VNAV	240	FLY_BY	TF
BCATT	WP	N39° 28' 11.58", W085° 23' 50.46"	7000	VNAV	240	FLY_BY	TF
EGONE	WP	N39° 24' 07.47", W085° 16' 28.72"	6000	VNAV	240	FLY_BY	TF
FRING	WP	N39° 09' 50.19", W084° 50' 36.09"	6000	VNAV	210	FLY_BY	TF
BAMGE_	WP	N39° 08' 06.46", W084° 47' 26.90"	5000	VNAV	210	FLY_BY	TF
BBURG	WP	N39° 04' 29.64", W084° 47' 35.49"	5000	VNAV	210	FLY_BY	TF
BRCAT	WP	N39° 01' 51.29", W084° 47' 41.46"	5000	VNAV	210	FLY_OVER	TF

## DME DME Assessment Results for CEGRM6 path DELHI\_BRCAT

Flyability	
Flight Type:	RNAV_STAR
Selected Airport:	KCVG [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
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 CEGRM6 path DELHI\_BRCAT**

<b>DME/DME (Continued)</b>										
<b>DMEs Used</b>										
<b>#</b>	<b>Name</b>	<b>Lat/Lon</b>	<b>MAGVAR</b>	<b>Range</b>	<b>Type</b>	<b>Source</b>	<b>Critical</b>	<b>Status</b>	<b>Time</b>	<b>Distance</b>
1	OBK	N42° 13' 16.96", W087° 57' 06.01"	2.0 W	130	DH	IFPA	NO	Enabled	46.7 %	47.1 %
2	GSH	N41° 31' 30.56", W086° 01' 40.63"	0.0 E	130	H	IFPA	NO	Enabled	48.2 %	48.5 %
3	GIJ	N41° 46' 07.00", W086° 19' 06.43"	0.0 E	130	H	IFPA	NO	Enabled	47.5 %	47.8 %
4	IKK	N41° 04' 27.76", W087° 51' 00.59"	0.0 E	40	L	IFPA	NO	Enabled	25.9 %	26 %
5	CGT	N41° 30' 36.02", W087° 34' 17.57"	2.0 E	40	L	IFPA	NO	Enabled	25.6 %	25.8 %
6	RID	N39° 45' 18.03", W084° 50' 19.78"	-0.0 E	40	L	IFPA	NO	Enabled	20 %	19.8 %
7	VHP	N39° 48' 53.02", W086° 22' 03.00"	1.0 E	130	H	IFPA	NO	Enabled	54.3 %	54.6 %
8	MIE	N40° 14' 14.25", W085° 23' 38.53"	3.0 W	40	L	IFPA	NO	Enabled	25.5 %	25.6 %
9	EON	N41° 16' 10.68", W087° 47' 27.79"	2.0 E	40	L	IFPA	NO	Enabled	29.7 %	29.9 %
10	OXI	N41° 19' 19.41", W086° 38' 57.44"	0.0 E	130	H	IFPA	NO	Enabled	48.4 %	48.7 %
11	LJT	N43° 06' 35.19", W088° 02' 14.21"	0.0 E	130	DH	IFPA	NO	Enabled	24.7 %	24.9 %
12	BVT	N40° 33' 22.22", W087° 04' 09.75"	1.0 E	130	H	IFPA	NO	Enabled	50.8 %	51.2 %
13	JOT	N41° 32' 47.11", W088° 19' 06.28"	2.0 E	130	H	IFPA	NO	Enabled	44.8 %	45.1 %
14	TTH	N39° 29' 20.18", W087° 14' 56.46"	2.0 E	130	H	IFPA	NO	Enabled	41.9 %	42.1 %
15	BDF	N41° 09' 35.03", W089° 35' 16.34"	0.0 E	130	H	IFPA	NO	Enabled	16.5 %	16.6 %
16	SHB	N39° 37' 57.15", W085° 49' 27.54"	1.0 E	130	DH	IFPA	NO	Enabled	79.5 %	79.7 %
17	BAE	N43° 07' 00.67", W088° 17' 03.64"	2.0 E	130	H	IFPA	NO	Enabled	10.7 %	10.8 %
18	DPA	N41° 53' 25.34", W088° 21' 00.64"	2.0 E	40	L	IFPA	NO	Enabled	9 %	9 %
19	AXC	N39° 44' 15.08", W088° 51' 23.15"	3.0 E	130	H	IFPA	NO	Enabled	9.7 %	9.7 %
20	GCO	N41° 59' 38.72", W087° 54' 08.38"	0.0 E	40	L	IFPA	NO	Enabled	14.3 %	14.4 %
21	PMM	N42° 27' 57.72", W086° 06' 17.31"	0.0 E	130	H	IFPA	NO	Enabled	20.7 %	20.8 %
22	FWA	N40° 58' 44.63", W085° 11' 17.01"	6.0 W	130	H	IFPA	NO	Enabled	23.6 %	23.8 %
23	DNV	N40° 17' 37.56", W087° 33' 26.14"	2.0 E	40	L	IFPA	NO	Enabled	20.7 %	20.9 %
24	CVG	N39° 00' 57.53", W084° 42' 12.05"	4.0 W	40	L	IFPA	NO	Enabled	10.4 %	10.5 %



## DME DME Assessment Results for CEGRM6 path DELHI\_BRCAT

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	JOT	OXI	GCO	LJT	DPA	CGT
21.4	EON	OXI	IKK	CGT	GIJ	BVT
24.2	IKK	OXI	GIJ	BVT	EON	OBK
72.3	IKK	DNV	JOT	OXI	GSH	GIJ
77.6	GSH	VHP	JOT	DNV	OXI	GIJ
106.4	DNV	OXI	TTH	SHB	GSH	BVT
114.5	SHB	TTH	DNV	OXI	VHP	FWA
114.6	SHB	TTH	DNV	OXI	VHP	BVT
114.8	SHB	TTH	DNV	VHP	BVT	
118.6	TTH	SHB	VHP	BVT		
126.8	TTH	VHP	SHB			
139.7	TTH	SHB				
147.2	MIE	SHB	TTH			
151.1	MIE	SHB				
152.8	MIE	VHP	SHB			
169.5	MIE	VHP				
175.9	MIE	VHP	SHB			
184.2	MIE	VHP	SHB	RID		
185.5	MIE	SHB	RID			
197.8	CVG	RID	SHB	MIE		
207.7	SHB	RID	CVG			
222.5	SHB	RID				
228.8						
229.7	SHB	RID				
231.9						

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N39° 08' 34.40", W084° 48' 17.82"	N39° 08' 06.46", W084° 47' 26.90"	0.8064
2	N39° 05' 53.57", W084° 47' 32.17"	N39° 01' 51.29", W084° 47' 41.46"	4.0376

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
DELHI	CADIZ	BVT, OXI, BDF, EON, BAE, IKK, GIJ, SHB, JOT, CGT, PMM, GCO, DPA, LJT, OBK, GSH, VHP	
CADIZ	FATOX	BVT, OXI, EON, IKK, GIJ, TTH, SHB, DNV, JOT, CGT, FWA, LJT, OBK, GSH, VHP	
FATOX	BOLRR	BVT, OXI, IKK, TTH, GIJ, SHB, AXC, DNV, JOT, FWA, OBK, GSH, VHP	
BOLRR	TORIO	FWA, OXI, BVT, OBK, TTH, GIJ, SHB, AXC, GSH, DNV, JOT, VHP	
TORIO	MACES	FWA, BVT, OXI, OBK, TTH, GIJ, SHB, GSH, DNV, VHP	
MACES	CRYME	BVT, TTH, SHB, VHP	
CRYME	ARIVR	MIE, TTH, SHB, VHP	
ARIVR	CEGRM	MIE, SHB, RID, VHP	
CEGRM	BCATT	MIE, SHB, RID	
BCATT	EGONE	CVG, MIE, SHB, RID	
EGONE	FRING	CVG, MIE, SHB, RID	
FRING	BAMGE_	SHB, RID	
BAMGE_	BBURG	SHB, RID	
BBURG	BRCAT		

**DME DME Assessment Results for CEGRM6 path DELHI\_BRCAT**

**User Data Files**

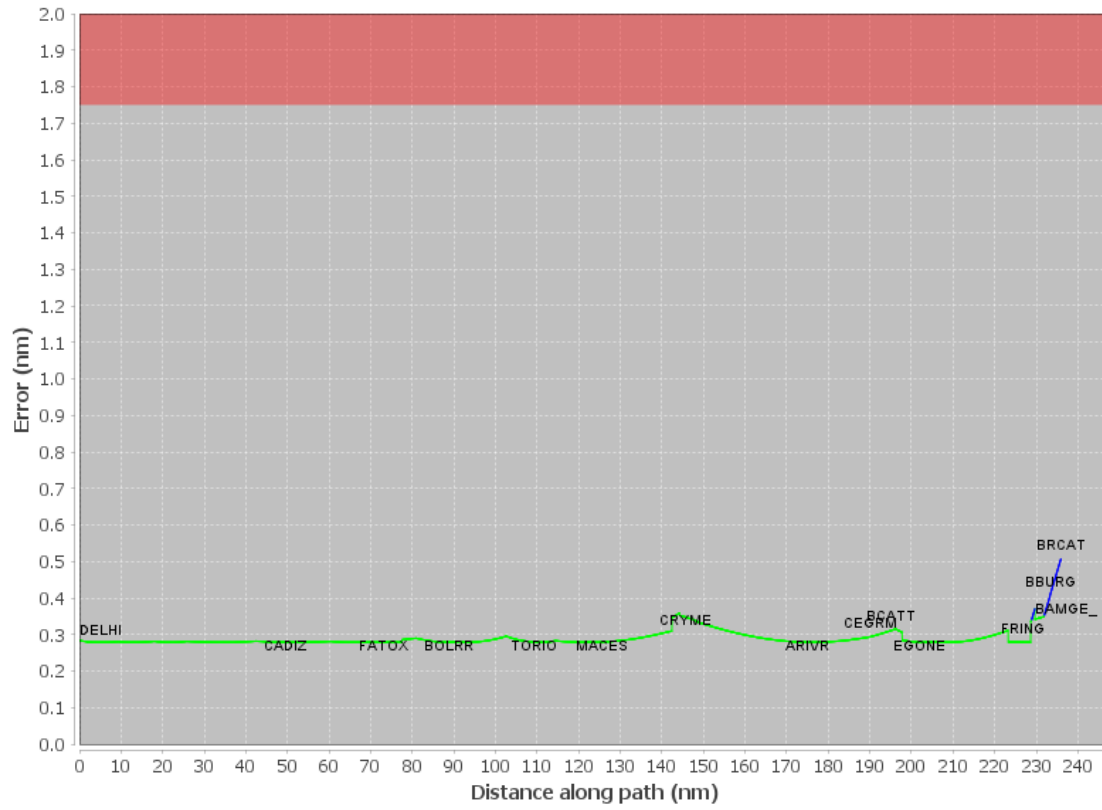
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1	UserDMEsKCVG [IFPA] CEGRM6 RNAV STAR_20230818_1003 CDT.udt

**User DMEs**

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	MIE FAA 830745-015E MIE [IFPA]	N40° 14' 14.25", W085° 23' 38.53"	3.0 W	40	934.3	114.4	MIE FAA 830745-015E	
	ESV:	Bearing [True]: 166.0° to 242.0° Bearing [Mag]: 169.0° to 245.0°				Arc Distance: Out to 58.0 NM Altitude: 4000.0 to 18000.0 ft		
2	TTH FAA 850061-035 TTH [IFPA]	N39° 29' 20.18", W087° 14' 56.46"	2.0 E	130	606	115.3	TTH FAA 850061-035	
	ESV:	Bearing [True]: 7.0° to 88.0° Bearing [Mag]: 5.0° to 86.0°				Arc Distance: Out to 52.0 NM Altitude: 2500.0 to 16000.0 ft		

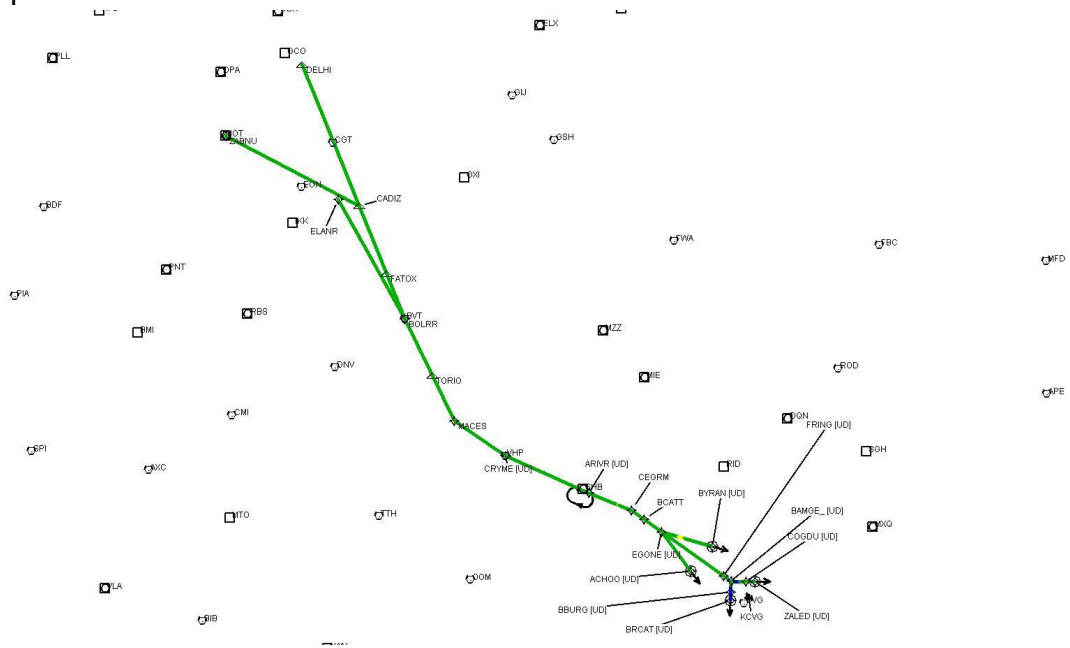
# DME DME Assessment Results for CEGRM6 path DELHI\_BRCAT

## DME Error



# DME DME Assessment Results for CEGRM6 path DELHI\_BRCAT

Graphic Depiction 1



## DME DME Assessment Results for CEGRM6 path EGONE\_ACHOO

### Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Robert CTR Ellis
Project File:	C:\Users\Robert CTR Ellis\Documents\Project Files\CVG\CVG Sub docs\STAR CEGRM6\KCVG CEGRM6 RNAV STAR DME.tgs
Output File:	C:\Users\Robert CTR Ellis\Documents\Project Files\CVG\CVG Sub docs\KCVG [IFPA] CEGRM6 20230818_1016 CDT\EGONE_ACHOO\KCVG CEGRM6 RNAV STAR EGONE ACHOO 20230818_1016 CDT.pdf
Procedure Name:	CEGRM6
Software: DmeDmePlugin:	7.1.1
Date/Time:	08/18/2023 10:16 CDT
Databases:	DTED0

### 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
EGONE	WP	N39° 24' 07.47", W085° 16' 28.72"	6000	VNAV	240	FLY_BY	TF
ACHOO	WP	N39° 11' 19.72", W085° 04' 19.79"	6000	VNAV	240	FLY_OVER	TF

### Flyability

Flight Type:	RNAV_STAR
Selected Airport:	KCVG [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 CEGRM6 path EGONE\_ACHOO

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:	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	SHB	N39° 37' 57.15", W085° 49' 27.54"	1.0 E	130	DH	IFPA	NO	Enabled	100 %	100 %
2	RID	N39° 45' 18.03", W084° 50' 19.78"	-0.0 E	40	L	IFPA	NO	Enabled	100 %	100 %
3	MIE	N40° 14' 14.25", W085° 23' 38.53"	3.0 W	40	L	IFPA	NO	Enabled	40.2 %	40.2 %
4	CVG	N39° 00' 57.53", W084° 42' 12.05"	4.0 W	40	L	IFPA	NO	Enabled	100 %	100 %

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	CVG	RID	SHB	MIE		
6.4	SHB	RID	CVG			

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

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
EGONE	ACHOO	CVG, MIE, SHB, RID	

**DME DME Assessment Results for CEGRM6 path EGONE\_ACHOO**

**User Data Files**

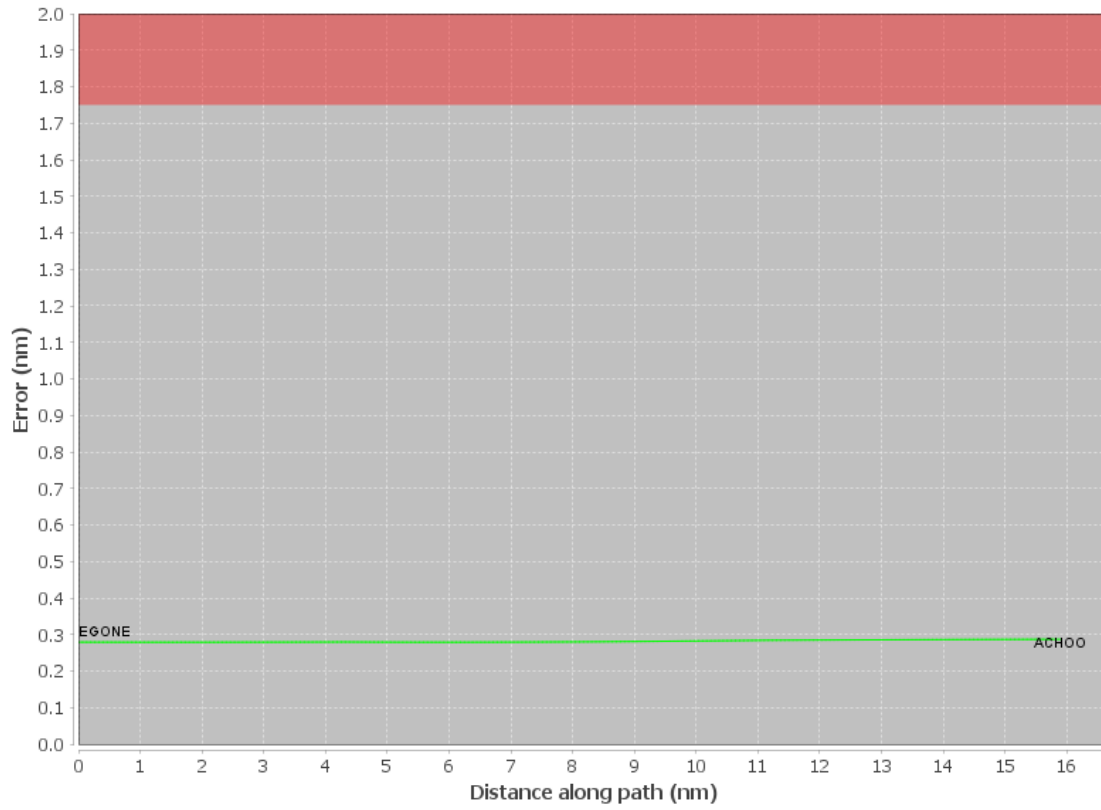
#	File Name
1	UserDMEsKCVG [IFPA] CEGRM6 RNAV STAR_20230818_1003 CDT.udt

**User DMEs**

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	MIE FAA 830745-015E MIE [IFPA]	N40° 14' 14.25", W085° 23' 38.53"	3.0 W	40	934.3	114.4	MIE FAA 830745-015E	
	ESV:	Bearing [True]: 166.0° to 242.0° Bearing [Mag]: 169.0° to 245.0°				Arc Distance: Out to 58.0 NM Altitude: 4000.0 to 18000.0 ft		
2	TTH FAA 850061-035 TTH [IFPA]	N39° 29' 20.18", W087° 14' 56.46"	2.0 E	130	606	115.3	TTH FAA 850061-035	
	ESV:	Bearing [True]: 7.0° to 88.0° Bearing [Mag]: 5.0° to 86.0°				Arc Distance: Out to 52.0 NM Altitude: 2500.0 to 16000.0 ft		

# DME DME Assessment Results for CEGRM6 path EGONE\_ACHOO

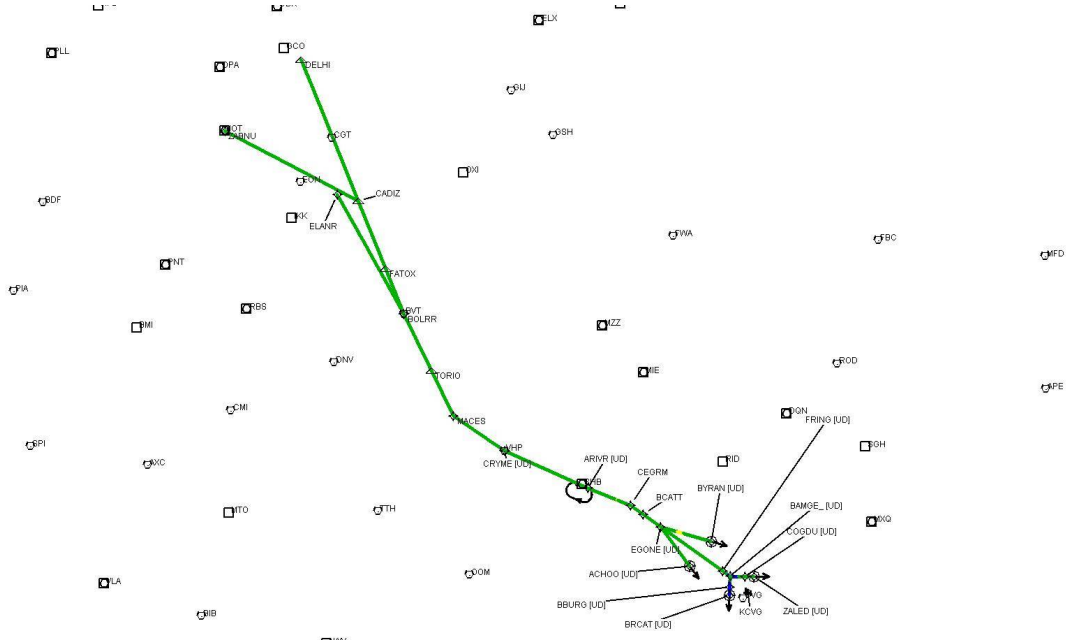
## DME Error





# DME DME Assessment Results for CEGRM6 path EGONE\_ACHOO

Graphic Depiction 1



## DME DME Assessment Results for CEGRM6 path EGONE\_BYRAN

### Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Robert CTR Ellis
Project File:	C:\Users\Robert CTR Ellis\Documents\Project Files\CVG\CVG Sub docs\STAR CEGRM6\KCVG CEGRM6 RNAV STAR DME.tgs
Output File:	C:\Users\Robert CTR Ellis\Documents\Project Files\CVG\CVG Sub docs\KCVG [IFPA] CEGRM6 20230818_1016 CDT\EGONE_BYRAN\KCVG CEGRM6 RNAV STAR EGONE BYRAN 20230818_1016 CDT.pdf
Procedure Name:	CEGRM6
Software: DmeDmePlugin:	7.1.1
Date/Time:	08/18/2023 10:16 CDT
Databases:	DTED0

### 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
EGONE	WP	N39° 24' 07.47", W085° 16' 28.72"	6000	VNAV	240	FLY_BY	TF
BYRAN	WP	N39° 19' 20.24", W084° 55' 09.56"	6000	VNAV	240	FLY_OVER	TF

### Flyability

Flight Type:	RNAV_STAR
Selected Airport:	KCVG [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 CEGRM6 path EGONE\_BYRAN

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:	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	SHB	N39° 37' 57.15", W085° 49' 27.54"	1.0 E	130	DH	IFPA	NO	Enabled	100 %	100 %
2	RID	N39° 45' 18.03", W084° 50' 19.78"	-0.0 E	40	L	IFPA	NO	Enabled	100 %	100 %
3	MIE	N40° 14' 14.25", W085° 23' 38.53"	3.0 W	40	L	IFPA	NO	Enabled	44.8 %	44.8 %
4	CVG	N39° 00' 57.53", W084° 42' 12.05"	4.0 W	40	L	IFPA	NO	Enabled	98.1 %	98.1 %

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	CVG	RID	SHB	MIE		
7.8	SHB	RID	CVG			
16.9	SHB	RID				

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

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
EGONE	BYRAN	CVG, MIE, SHB, RID	

**DME DME Assessment Results for CEGRM6 path EGONE\_BYRAN**

**User Data Files**

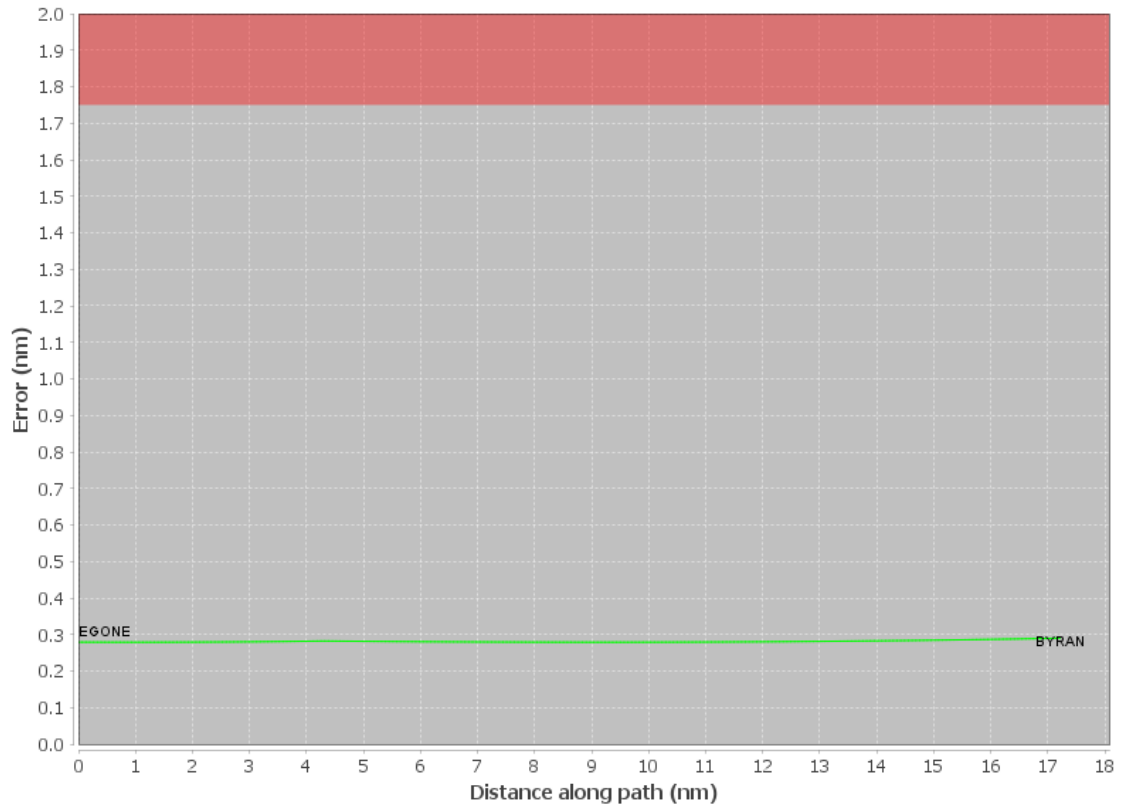
#	File Name
1	UserDMEsKCVG [IFPA] CEGRM6 RNAV STAR_20230818_1003 CDT.udt

**User DMEs**

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	MIE FAA 830745-015E MIE [IFPA]	N40° 14' 14.25", W085° 23' 38.53"	3.0 W	40	934.3	114.4	MIE FAA 830745-015E	
	ESV:	Bearing [True]: 166.0° to 242.0° Bearing [Mag]: 169.0° to 245.0°				Arc Distance: Out to 58.0 NM Altitude: 4000.0 to 18000.0 ft		
2	TTH FAA 850061-035 TTH [IFPA]	N39° 29' 20.18", W087° 14' 56.46"	2.0 E	130	606	115.3	TTH FAA 850061-035	
	ESV:	Bearing [True]: 7.0° to 88.0° Bearing [Mag]: 5.0° to 86.0°				Arc Distance: Out to 52.0 NM Altitude: 2500.0 to 16000.0 ft		

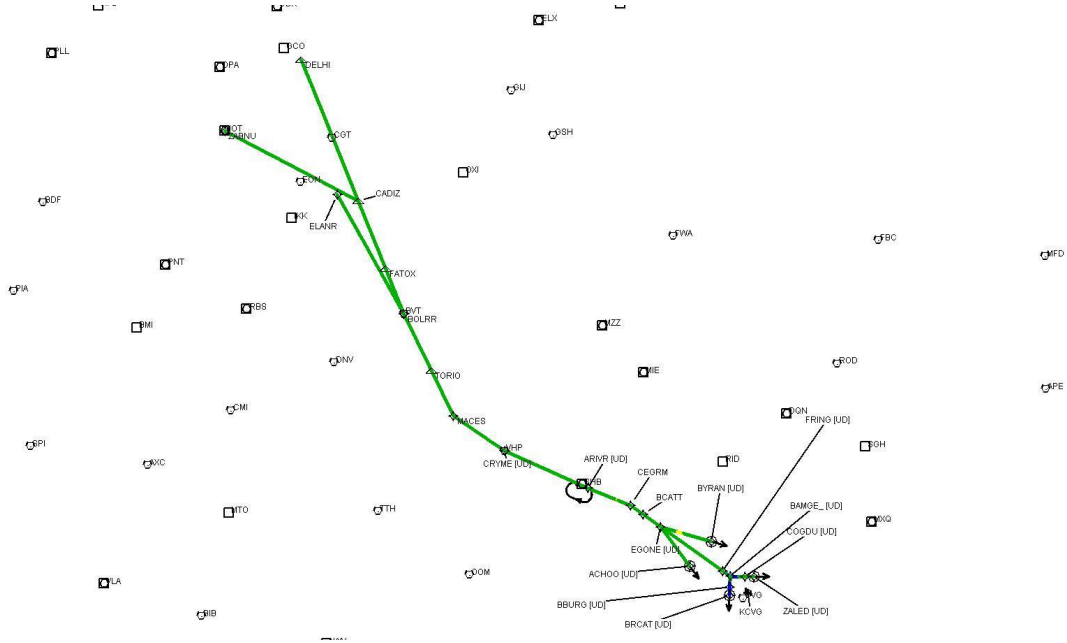
# DME DME Assessment Results for CEGRM6 path EGONE\_BYRAN

## DME Error



# DME DME Assessment Results for CEGRM6 path EGONE\_BYRAN

Graphic Depiction 1



## DME DME Assessment Results for CEGRM6 path ELANR\_BOLRR

### Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Robert CTR Ellis
Project File:	C:\Users\Robert CTR Ellis\Documents\Project Files\CVG\CVG Sub docs\STAR CEGRM6\KCVG CEGRM6 RNAV STAR DME.tgs
Output File:	C:\Users\Robert CTR Ellis\Documents\Project Files\CVG\CVG Sub docs\KCVG [IFPA] CEGRM6 20230818_1016 CDT\ELANR_BOLRR\KCVG CEGRM6 RNAV STAR ELANR BOLRR 20230818_1016 CDT.pdf
Procedure Name:	CEGRM6
Software: DmeDmePlugin:	7.1.1
Date/Time:	08/18/2023 10:16 CDT
Databases:	DTED0

### 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
ELANR	WP	N41° 12' 06.00", W087° 32' 00.00"	18000	VNAV	240	FLY_BY	TF
BOLRR	WP	N40° 33' 22.03", W087° 04' 09.55"	18000	VNAV	240	FLY_BY	TF

### Flyability

Flight Type:	RNAV_STAR
Selected Airport:	KCVG [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 CEGRM6 path ELANR\_BOLRR

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:	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	OBK	N42° 13' 16.96", W087° 57' 06.01"	2.0 W	130	DH	IFPA	NO	Enabled	100 %	100 %
2	GSH	N41° 31' 30.56", W086° 01' 40.63"	0.0 E	130	H	IFPA	NO	Enabled	100 %	100 %
3	GIJ	N41° 46' 07.00", W086° 19' 06.43"	0.0 E	130	H	IFPA	NO	Enabled	100 %	100 %
4	IKK	N41° 04' 27.76", W087° 51' 00.59"	0.0 E	40	L	IFPA	NO	Enabled	77.8 %	77.8 %
5	CGT	N41° 30' 36.02", W087° 34' 17.57"	2.0 E	40	L	IFPA	NO	Enabled	48.2 %	48.2 %
6	VHP	N39° 48' 53.02", W086° 22' 03.00"	1.0 E	130	H	IFPA	NO	Enabled	100 %	100 %
7	EON	N41° 16' 10.68", W087° 47' 27.79"	2.0 E	40	L	IFPA	NO	Enabled	65.6 %	65.6 %
8	OXI	N41° 19' 19.41", W086° 38' 57.44"	0.0 E	130	H	IFPA	NO	Enabled	100 %	100 %
9	LJT	N43° 06' 35.19", W088° 02' 14.21"	0.0 E	130	DH	IFPA	NO	Enabled	28.7 %	28.7 %
10	BVT	N40° 33' 22.22", W087° 04' 09.75"	1.0 E	130	H	IFPA	NO	Enabled	93.1 %	93.1 %
11	JOT	N41° 32' 47.11", W088° 19' 06.28"	2.0 E	130	H	IFPA	NO	Enabled	100 %	100 %
12	TTH	N39° 29' 20.18", W087° 14' 56.46"	2.0 E	130	H	IFPA	NO	Enabled	87.2 %	87.2 %
13	SHB	N39° 37' 57.15", W085° 49' 27.54"	1.0 E	130	DH	IFPA	NO	Enabled	100 %	100 %
14	BDF	N41° 09' 35.03", W089° 35' 16.34"	0.0 E	130	H	IFPA	NO	Enabled	17.1 %	17.1 %
15	AXC	N39° 44' 15.08", W088° 51' 23.15"	3.0 E	130	H	IFPA	NO	Enabled	15 %	15 %
16	FWA	N40° 58' 44.63", W085° 11' 17.01"	6.0 W	130	H	IFPA	NO	Enabled	52.3 %	52.3 %
17	DNV	N40° 17' 37.56", W087° 33' 26.14"	2.0 E	40	L	IFPA	NO	Enabled	49.7 %	49.7 %



**DME DME Assessment Results for CEGRM6 path ELANR\_BOLRR**

<b>Flight Check DME Selection</b>						
Distance [NM]	Selected DMEs					Alternate
0.0	IKK	BVT	GIJ	CGT	OXI	OBK
21.3	EON	OXI	JOT	GIJ	GSH	BVT
29.0	JOT	OXI	IKK	DNV	GSH	GIJ
34.4	GSH	VHP	JOT	DNV	OXI	BVT
41.1	VHP	DNV	GSH	JOT	SHB	OXI

<b>Inertial Drift Segments</b>			
#	Start Location	End Location	Length [NM]

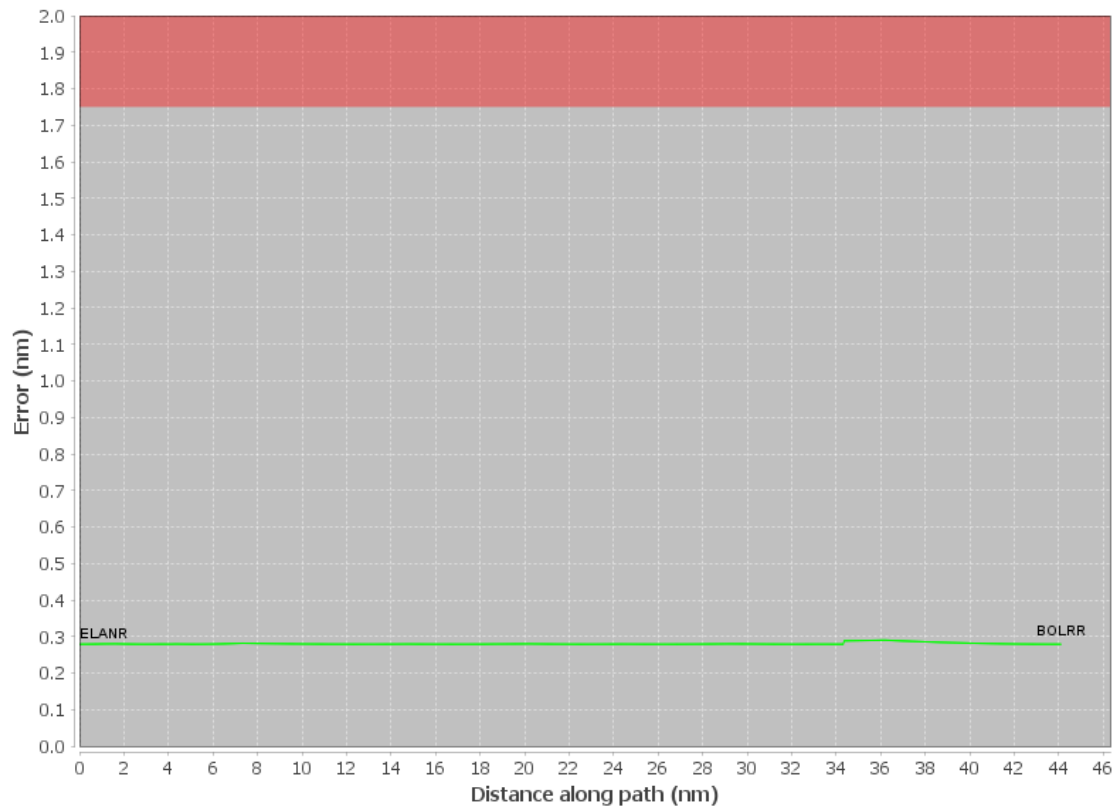
<b>Available DMEs by Waypoints</b>			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
ELANR	BOLRR	BVT, OXI, BDF, EON, IKK, GIJ, TTH, SHB, AXC, DNV, JOT, CGT, FWA, LJT, OBK, GSH, VHP	

<b>User Data Files</b>	
#	File Name
1	UserDMEsKCVG [IFPA] CEGRM6 RNAV STAR_20230818_1003 CDT.udt

<b>User DMEs</b>								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	MIE FAA 830745-015E MIE [IFPA]	N40° 14' 14.25", W085° 23' 38.53"	3.0 W	40	934.3	114.4	MIE FAA 830745-015E	
	ESV:	Bearing [True]: 166.0° to 242.0° Bearing [Mag]: 169.0° to 245.0°				Arc Distance: Out to 58.0 NM Altitude: 4000.0 to 18000.0 ft		
2	TTH FAA 850061-035 TTH [IFPA]	N39° 29' 20.18", W087° 14' 56.46"	2.0 E	130	606	115.3	TTH FAA 850061-035	
	ESV:	Bearing [True]: 7.0° to 88.0° Bearing [Mag]: 5.0° to 86.0°				Arc Distance: Out to 52.0 NM Altitude: 2500.0 to 16000.0 ft		

# DME DME Assessment Results for CEGRM6 path ELANR\_BOLRR

## DME Error





## DME DME Assessment Results for CEGRM6 path ZABNU\_CADIZ

### Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Robert CTR Ellis
Project File:	C:\Users\Robert CTR Ellis\Documents\Project Files\CVG\CVG Sub docs\STAR CEGRM6\KCVG CEGRM6 RNAV STAR DME.tgs
Output File:	C:\Users\Robert CTR Ellis\Documents\Project Files\CVG\CVG Sub docs\KCVG [IFPA] CEGRM6 20230818_1016 CDT\ZABNU_CADIZ\KCVG CEGRM6 RNAV STAR ZABNU CADIZ 20230818_1016 CDT.pdf
Procedure Name:	CEGRM6
Software: DmeDmePlugin:	7.1.1
Date/Time:	08/18/2023 10:16 CDT
Databases:	DTED0

### 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
ZABNU	WP	N41° 32' 47.40", W088° 19' 05.83"	18000	VNAV	240	FLY_BY	TF
CADIZ	WP	N41° 10' 03.99", W087° 23' 15.77"	18000	VNAV	240	FLY_BY	TF

### Flyability

Flight Type:	RNAV_STAR
Selected Airport:	KCVG [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 CEGRM6 path ZABNU\_CADIZ**

<b>DME/DME</b>	
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:	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

<b>DME/DME (Continued)</b>										
<b>DMEs Used</b>										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	OBK	N42° 13' 16.96", W087° 57' 06.01"	2.0 W	130	DH	IFPA	NO	Enabled	100 %	100 %
2	GSH	N41° 31' 30.56", W086° 01' 40.63"	0.0 E	130	H	IFPA	NO	Enabled	88.1 %	88.1 %
3	GIJ	N41° 46' 07.00", W086° 19' 06.43"	0.0 E	130	H	IFPA	NO	Enabled	100 %	100 %
4	IKK	N41° 04' 27.76", W087° 51' 00.59"	0.0 E	40	L	IFPA	NO	Enabled	100 %	100 %
5	CGT	N41° 30' 36.02", W087° 34' 17.57"	2.0 E	40	L	IFPA	NO	Enabled	100 %	100 %
6	VHP	N39° 48' 53.02", W086° 22' 03.00"	1.0 E	130	H	IFPA	NO	Enabled	10.6 %	10.6 %
7	EON	N41° 16' 10.68", W087° 47' 27.79"	2.0 E	40	L	IFPA	NO	Enabled	87.6 %	87.6 %
8	OXI	N41° 19' 19.41", W086° 38' 57.44"	0.0 E	130	H	IFPA	NO	Enabled	100 %	100 %
9	LJT	N43° 06' 35.19", W088° 02' 14.21"	0.0 E	130	DH	IFPA	NO	Enabled	100 %	100 %
10	BVT	N40° 33' 22.22", W087° 04' 09.75"	1.0 E	130	H	IFPA	NO	Enabled	100 %	100 %
11	JOT	N41° 32' 47.11", W088° 19' 06.28"	2.0 E	130	H	IFPA	NO	Enabled	93.6 %	93.6 %
12	BDF	N41° 09' 35.03", W089° 35' 16.34"	0.0 E	130	H	IFPA	NO	Enabled	96.7 %	96.7 %
13	SHB	N39° 37' 57.15", W085° 49' 27.54"	1.0 E	130	DH	IFPA	NO	Enabled	26.9 %	26.9 %
14	DPA	N41° 53' 25.34", W088° 21' 00.64"	2.0 E	40	L	IFPA	NO	Enabled	47.6 %	47.6 %
15	BAE	N43° 07' 00.67", W088° 17' 03.64"	2.0 E	130	H	IFPA	NO	Enabled	9.9 %	9.9 %
16	GCO	N41° 59' 38.72", W087° 54' 08.38"	0.0 E	40	L	IFPA	NO	Enabled	42 %	42 %

**DME DME Assessment Results for CEGRM6 path ZABNU\_CADIZ**

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	EON	GCO	CGT	DPA	OBK	IKK
20.1	OBK	OXI	CGT	DPA	BVT	IKK
22.8	EON	CGT	BVT	IKK	OXI	OBK
25.9	IKK	OXI	CGT	BVT	OBK	GIJ

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

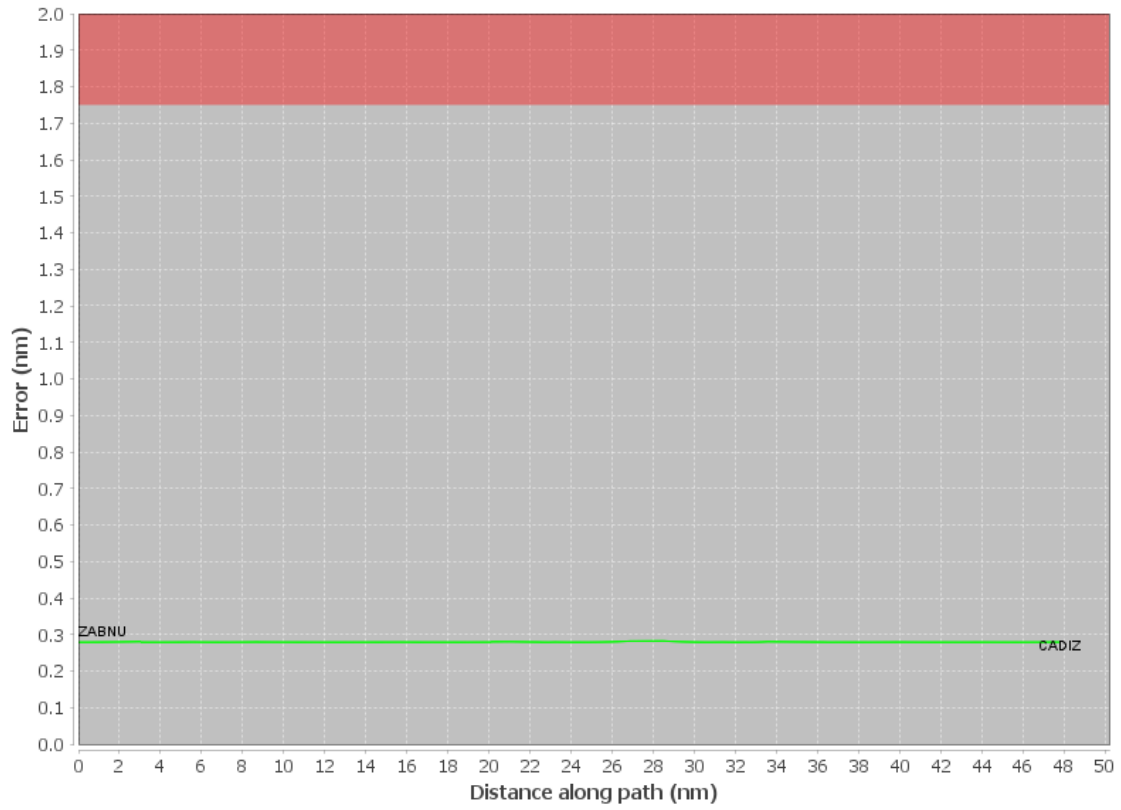
Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
ZABNU	CADIZ	OXI, BVT, EON, BDF, BAE, IKK, GIJ, SHB, JOT, CGT, GCO, DPA, LJT, OBK, GSH, VHP	

User Data Files	
#	File Name
1	UserDMEsKCVG [IFPA] CEGRM6 RNAV STAR_20230818_1003 CDT.udt

User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	MIE FAA 830745-015E MIE [IFPA]	N40° 14' 14.25", W085° 23' 38.53"	3.0 W	40	934.3	114.4	MIE FAA 830745-015E	
	ESV:	Bearing [True]: 166.0° to 242.0° Bearing [Mag]: 169.0° to 245.0°				Arc Distance: Out to 58.0 NM Altitude: 4000.0 to 18000.0 ft		
2	TTH FAA 850061-035 TTH [IFPA]	N39° 29' 20.18", W087° 14' 56.46"	2.0 E	130	606	115.3	TTH FAA 850061-035	
	ESV:	Bearing [True]: 7.0° to 88.0° Bearing [Mag]: 5.0° to 86.0°				Arc Distance: Out to 52.0 NM Altitude: 2500.0 to 16000.0 ft		

# DME DME Assessment Results for CEGRM6 path ZABNU\_CADIZ

## DME Error



# DME DME Assessment Results for CEGRM6 path ZABNU\_CADIZ

Graphic Depiction 1

