

DME ESVs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	ADW FAA 880073-2 ADW [IFPA]	N38° 48' 25.990000000", W076° 51' 58.520000000"	10.0 W	40	278.9	113.1	ADW FAA 880073-2	
Restriction:		Bearing [True]: 25.0° to 35.0° Bearing [Mag]: 35.0° to 45.0°				Distance: All Altitude: Below 2500.0 ft		
Restriction:		Bearing [True]: 210.0° to 270.0° Bearing [Mag]: 220.0° to 280.0°				Distance: All Altitude: Below 99999.0 ft		
ESV:		Bearing [True]: 308.0° to 332.0° Bearing [Mag]: 318.0° to 342.0°				Arc Distance: Out to 53.0 NM Altitude: 3000.0 to 20000.0 ft		
2	CSN FAA 682017-18 CSN [IFPA]	N38° 38' 28.327700000", W077° 51' 55.797900000"	6.0 W	130	441.8	116.3	CSN FAA 682017-18	
Restriction:		Bearing [True]: 304.0° to 344.0° Bearing [Mag]: 310.0° to 350.0°				Distance: Beyond 10.0 NM Altitude: Below 11000.0 ft		
ESV:		Bearing [True]: 59.0° to 76.0° Bearing [Mag]: 65.0° to 82.0°				Arc Distance: Out to 97.0 NM Altitude: 10000.0 to 16000.0 ft		
3	EMI FAA 701388-10 EMI [IFPA]	N39° 29' 42.026600000", W076° 58' 42.859100000"	8.0 W	130	830.1	117.9	EMI FAA 701388-10	
Restriction:		Bearing [True]: 273.0° to 47.0° Bearing [Mag]: 281.0° to 55.0°				Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
ESV:		Bearing [True]: 102.0° to 162.0° Bearing [Mag]: 110.0° to 170.0°				Arc Distance: Out to 115.0 NM Altitude: 9900.0 to 19000.0 ft		
4	EMI FAA 701388-8 EMI [IFPA]	N39° 29' 42.026600000", W076° 58' 42.859100000"	8.0 W	130	830.1	117.9	EMI FAA 701388-8	
Restriction:		Bearing [True]: 273.0° to 47.0° Bearing [Mag]: 281.0° to 55.0°				Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
ESV:		Bearing [True]: 102.0° to 162.0° Bearing [Mag]: 110.0° to 170.0°				Arc Distance: Out to 88.0 NM Altitude: 9900.0 to 17000.0 ft		
5	ESVB SBY [IFPA] SBY [IFPA]	N38° 20' 42.020100000", W075° 30' 38.067400000"	12.0 W	40	52.5	111.2	ESVB SBY [IFPA]	
Restriction:		Bearing [True]: 282.0° to 355.0° Bearing [Mag]: 294.0° to 7.0°				Distance: All Altitude: Below 5000.0 ft		
Restriction:		Bearing [True]: 357.0° to 43.0° Bearing [Mag]: 9.0° to 55.0°				Distance: Beyond 20.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 249.0° to 273.0° Bearing [Mag]: 261.0° to 285.0°				Distance: All Altitude: Below 6000.0 ft		
ESV:		Bearing [True]: 313.0° to 333.0° Bearing [Mag]: 325.0° to 345.0°				Arc Distance: Out to 65.0 NM Altitude: 7000.0 to 16000.0 ft		
6	SIE FAA 698170-26 SIE [IFPA]	N39° 05' 43.832400000", W074° 48' 01.238200000"	9.0 W	130	16.4	114.8	SIE FAA 698170-26	
Restriction:		Bearing [True]: 229.0° to 39.0° Bearing [Mag]: 238.0° to 48.0°				Distance: Beyond 34.0 NM Altitude: Below 1800.0 ft		
Restriction:		Bearing [True]: 56.0° to 101.0° Bearing [Mag]: 65.0° to 110.0°				Distance: All Altitude: Below 99999.0 ft		
ESV:		Bearing [True]: 260.0° to 288.0° Bearing [Mag]: 269.0° to 297.0°				Arc Distance: Out to 85.0 NM Altitude: 6900.0 to 16000.0 ft		

DME DME Assessment Results for DOCTR5 path KDCA:RW01:DER_DQO

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Robert CTR Mason
Project File:	C:\Users\Robert CTR Mason\Desktop\DCA SID AMENDMENTS with REVGE\DCA - DOCTR\DOCTR-DME\DOCTR - DME.tgs
Output File:	C:\Users\Robert CTR Mason\Desktop\DCA SID AMENDMENTS with REVGE\DCA - DOCTR\DOCTR-DME\KDCA [IFPA] DOCTR5 20191114_1025 EST\KDCA-RW01-DER_DQO\KDCA DOCTR5 SID KDCA RW01 DQO 20191114_1025 EST.pdf
Procedure Name:	DOCTR5
Software: DmeDmePlugin:	6.0.0
Date/Time:	11/14/2019 10:25 EST
Databases:	DTED.MAX

Failures

No Failures

Warnings

No Warnings

Notes For Flight Check

None

Flight Plan

Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
KDCA:RW01:DER	WP	N38° 51' 40.293300000", W077° 02' 19.405300000"	12.1	VNAV	130	FLY_BY	TF
REVGE	WP	N38° 53' 59.460000000", W077° 04' 14.240000000"	1500	VNAV	220	FLY_BY	TF
BEBLE	WP	N38° 54' 55.810000000", W077° 06' 26.920000000"	1892.9	VNAV	220	FLY_BY	TF
COVTO	WP	N38° 56' 49.580000000", W077° 08' 02.230000000"	2345.7	VNAV	220	FLY_BY	TF
ALEEX	WP	N38° 59' 02.290000000", W077° 09' 30.510000000"	2843.7	VNAV	220	FLY_BY	TF
DOGUE	WP	N39° 02' 30.960000000", W077° 05' 56.510000000"	4000	VNAV	250	FLY_BY	TF
RIISE	WP	N39° 00' 33.660000000", W076° 39' 41.130000000"	5000	VNAV	250	FLY_BY	TF
DOCTR	WP	N39° 00' 35.580000000", W076° 24' 50.750000000"	5000	VNAV	250	FLY_BY	TF
DQO	WP	N39° 40' 41.304500000", W075° 36' 25.508100000"	10000	VNAV	250	FLY_BY	TF

Climb Gradient:
825.0 ft/NM up to 600.0 ft MSL
200.0 ft/NM

DME DME Assessment Results for DOCTR5 path KDCA:RW01:DER_DQO

Flyability	
Flight Type:	SID
Selected Airport:	KDCA [IFPA]
Climb Gradient:	825.0 ft/NM up to 600.0 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	
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:	PXT

DME DME Assessment Results for DOCTR5 path KDCA:RW01:DER_DQO

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	PTW	N40° 13' 20.034600000", W075° 33' 36.903000000"	9.0 W	40	L	IFPA	NO	Enabled	5.9 %	6 %
2	CSN	N38° 38' 28.327700000", W077° 51' 55.797900000"	6.0 W	130	H	IFPA	NO	Enabled	0.7 %	0.8 %
3	DQO	N39° 40' 41.304500000", W075° 36' 25.508100000"	10.0 W	40	L	IFPA	NO	Enabled	15.5 %	15.9 %
4	ADW	N38° 48' 25.990000000", W076° 51' 58.520000000"	10.0 W	40	L	IFPA	NO	Enabled	52.8 %	53.3 %
5	OTT	N38° 42' 21.135200000", W076° 44' 41.085400000"	10.0 W	40	L	IFPA	NO	Enabled	41.9 %	42.8 %
6	VCN	N39° 32' 15.616000000", W074° 58' 01.718000000"	10.0 W	40	L	IFPA	NO	Enabled	10.3 %	10.6 %
7	ENO	N39° 13' 53.928100000", W075° 30' 57.491800000"	9.0 W	40	L	IFPA	NO	Enabled	37.4 %	38.3 %
8	BAL	N39° 10' 15.828300000", W076° 39' 40.522500000"	11.0 W	40	L	IFPA	NO	Enabled	69.6 %	69.9 %
9	SBY	N38° 20' 42.020100000", W075° 30' 38.067400000"	12.0 W	40	L	IFPA	NO	Enabled	5.7 %	5.8 %
10	AML	N38° 56' 04.538000000", W077° 28' 00.128500000"	8.0 W	40	L	IFPA	NO	Enabled	28 %	27.9 %
11	OOD	N39° 38' 09.879100000", W075° 18' 11.002600000"	10.0 W	40	L	IFPA	NO	Enabled	28.9 %	29.6 %
12	MXE	N39° 55' 04.980100000", W075° 40' 14.957400000"	9.0 W	40	L	IFPA	NO	Enabled	28 %	28.7 %
13	DCA	N38° 51' 34.030100000", W077° 02' 11.170000000"	9.0 W	40	L	IFPA	NO	Enabled	46.9 %	47.2 %
14	EMI	N39° 29' 42.026600000", W076° 58' 42.859100000"	8.0 W	130	H	IFPA	NO	Enabled	37.9 %	37.6 %
15	SIE	N39° 05' 43.832400000", W074° 48' 01.238200000"	9.0 W	130	H	IFPA	NO	Enabled	6.9 %	7.1 %
16	PXT	N38° 17' 16.282500000", W076° 24' 00.831500000"	10.0 W	40	L	IFPA	NO	Disabled		

DME DME Assessment Results for DOCTR5 path KDCA:RW01:DER_DQO

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0						
1.7	BAL	ADW				
2.0						
2.3	BAL	ADW				
2.4						
3.3	BAL	DCA				
4.4	BAL	DCA	EMI			
4.5	BAL	EMI				
4.6	BAL	DCA	EMI			
5.0	BAL	DCA	ADW	EMI		
5.3	ADW	EMI	BAL			
5.5	BAL	EMI				
5.6	BAL	DCA	ADW	EMI		
5.7	BAL	DCA	CSN	ADW	EMI	
5.8	BAL	DCA	ADW	EMI		
5.9	BAL	EMI				
6.0	BAL	DCA	EMI			
6.1	BAL	DCA	CSN	ADW	EMI	
6.2	BAL	DCA	ADW	EMI		
6.2	ADW	EMI	BAL			
6.4	BAL	EMI				
6.5	BAL	DCA	EMI			
6.8	BAL	EMI				
6.8	ADW	EMI	BAL			
6.9	BAL	DCA	ADW	EMI		
7.0	BAL	DCA	EMI			
7.1	BAL	EMI				
7.2	BAL	DCA	EMI			
7.3	BAL	EMI				
7.4	ADW	EMI	BAL			
7.4	BAL	EMI				
7.5	BAL	DCA	EMI			
7.7	BAL	EMI				
7.9	BAL	DCA	CSN	AML	EMI	
7.9	BAL	DCA	AML	EMI		
8.0	BAL	DCA	AML	EMI	ADW	
8.2	AML	EMI	ADW	BAL		
8.3	BAL	DCA	AML	EMI		
8.5	AML	EMI	BAL			
8.7	BAL	DCA	ADW	EMI	AML	
8.9	ADW	EMI	AML	BAL		
9.1	BAL	DCA	AML	EMI		
9.2	AML	EMI	BAL			
9.4	BAL	DCA	ADW	EMI	AML	
10.3	BAL	ADW	EMI	AML		
10.4	BAL	DCA	AML	ADW	EMI	
10.5	BAL	ADW	EMI	AML		
10.7	BAL	DCA	AML	ADW	EMI	
10.8	BAL	ADW	EMI	AML		
10.9	BAL	DCA	AML	ADW	EMI	
11.6	OTT	BAL	ADW	AML	EMI	
11.8	BAL	DCA	AML	ADW	EMI	
11.9	BAL	ADW	AML	EMI		
12.0	OTT	BAL	ADW	AML	EMI	
12.1	BAL	DCA	AML	ADW	EMI	
12.3	BAL	ADW	AML	EMI		

DME DME Assessment Results for DOCTR5 path KDCA:RW01:DER_DQO

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
12.5	BAL	DCA	AML	ADW	EMI	
36.2	DCA	EMI	BAL	ADW	OTT	
42.3	BAL	ADW	OTT	DCA		
44.8	BAL	ADW	DCA			
46.2	OTT	BAL	ADW	DCA		
55.0	OTT	BAL	ADW			
55.7	OTT	BAL	SIE	ADW		
56.1	SBY	ADW	OTT	ENO	BAL	SIE
58.8	OTT	BAL	ENO	ADW		
61.3	SBY	ADW	OTT	ENO	BAL	SIE
61.3	SBY	OTT	ENO	BAL	SIE	
62.0	OTT	ENO	BAL	DQO	ADW	
62.2	SBY	BAL	ENO	SIE		
65.0						
71.1	EMI	DQO	SIE	ENO	OOD	CSN
71.3	ENO	MXE	DQO	BAL	OOD	
72.2	SIE	OOD	ENO	CSN		
72.9	ENO	MXE	BAL	OOD		
79.4	ENO	MXE	DQO	OOD	BAL	
80.7	ENO	DQO	MXE	OOD		
90.4	MXE	VCN	ENO	DQO	OOD	
94.3	MXE	VCN	OOD	ENO		
94.9	PTW	VCN	MXE	OOD	ENO	

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N38° 51' 42.440631997", W077° 02' 19.621454093"	N38° 53' 06.723615789", W077° 03' 17.125293007"	1.6633
2	N38° 53' 21.791959464", W077° 03' 33.441386598"	N38° 53' 34.348420452", W077° 03' 47.039594149"	0.2739
3	N38° 53' 39.370879569", W077° 03' 52.479249602"	N38° 54' 13.124465574", W077° 04' 46.399497472"	0.9143
4	N39° 14' 22.298476996", W076° 08' 21.366394656"	N39° 18' 53.285816467", W076° 02' 55.033575212"	6.1806

Available DMEs by Waypoints		
Waypoint Before	Waypoint After	DME List
KDCA:RW01:DER	REVGE	ADW, BAL
REVGE	BEBLE	EMI, DCA, BAL
BEBLE	COVTO	EMI, DCA, ADW, BAL, CSN
COVTO	ALEEX	EMI, AML, DCA, ADW, BAL, CSN
ALEEX	DOGUE	AML, EMI, DCA, ADW, BAL, OTT
DOGUE	RIISE	AML, EMI, DCA, ADW, BAL, OTT
RIISE	DOCTR	AML, EMI, DCA, ADW, BAL, OTT
DOCTR	DQO	EMI, VCN, DCA, DQO, OOD, ENO, SBY, BAL, OTT, SIE, PTW, ADW, MXE, CSN

DME DME Assessment Results for DOCTR5 path KDCA:RW01:DER_DQO

User Data Files

File Name

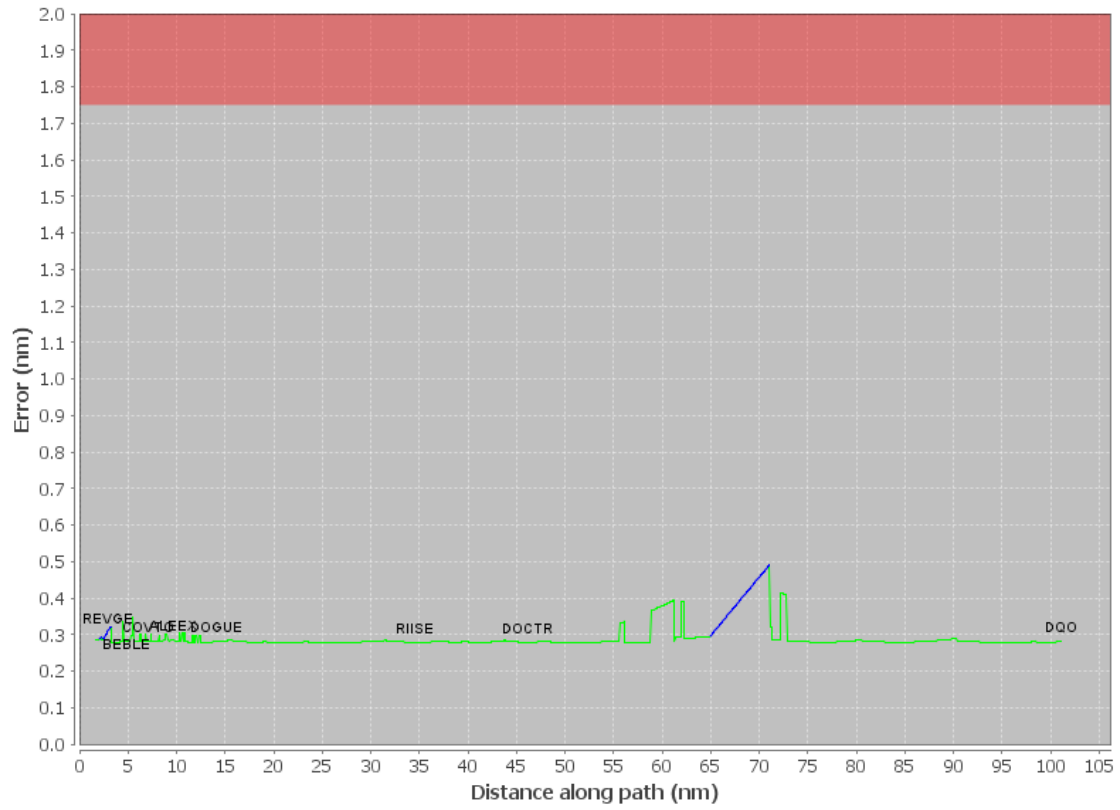
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User DMEs

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	ADW FAA 880073-2 ADW [IFPA]	N38° 48' 25.990000000", W076° 51' 58.520000000"	10.0 W	40	278.9	113.1	ADW FAA 880073-2	
ESV:		Bearing [True]: 308.0° to 332.0° Bearing [Mag]: 318.0° to 342.0°				Arc Distance: Out to 53.0 NM Altitude: 3000.0 to 20000.0 ft		
2	EMI FAA 701388-8 EMI [IFPA]	N39° 29' 42.026600000", W076° 58' 42.859100000"	8.0 W	130	830.1	117.9	EMI FAA 701388-8	
ESV:		Bearing [True]: 102.0° to 162.0° Bearing [Mag]: 110.0° to 170.0°				Arc Distance: Out to 88.0 NM Altitude: 9900.0 to 17000.0 ft		
3	CSN FAA 682017-18 CSN [IFPA]	N38° 38' 28.327700000", W077° 51' 55.797900000"	6.0 W	130	441.8	116.3	CSN FAA 682017-18	
ESV:		Bearing [True]: 59.0° to 76.0° Bearing [Mag]: 65.0° to 82.0°				Arc Distance: Out to 97.0 NM Altitude: 10000.0 to 16000.0 ft		
4	ESVB SBY [IFPA] SBY [IFPA]	N38° 20' 42.020100000", W075° 30' 38.067400000"	12.0 W	40	52.5	111.2	ESVB SBY [IFPA]	
ESV:		Bearing [True]: 313.0° to 333.0° Bearing [Mag]: 325.0° to 345.0°				Arc Distance: Out to 65.0 NM Altitude: 7000.0 to 16000.0 ft		
5	SIE FAA 698170-26 SIE [IFPA]	N39° 05' 43.832400000", W074° 48' 01.238200000"	9.0 W	130	16.4	114.8	SIE FAA 698170-26	
ESV:		Bearing [True]: 260.0° to 288.0° Bearing [Mag]: 269.0° to 297.0°				Arc Distance: Out to 85.0 NM Altitude: 6900.0 to 16000.0 ft		
6	EMI FAA 701388-10 EMI [IFPA]	N39° 29' 42.026600000", W076° 58' 42.859100000"	8.0 W	130	830.1	117.9	EMI FAA 701388-10	
ESV:		Bearing [True]: 102.0° to 162.0° Bearing [Mag]: 110.0° to 170.0°				Arc Distance: Out to 115.0 NM Altitude: 9900.0 to 19000.0 ft		

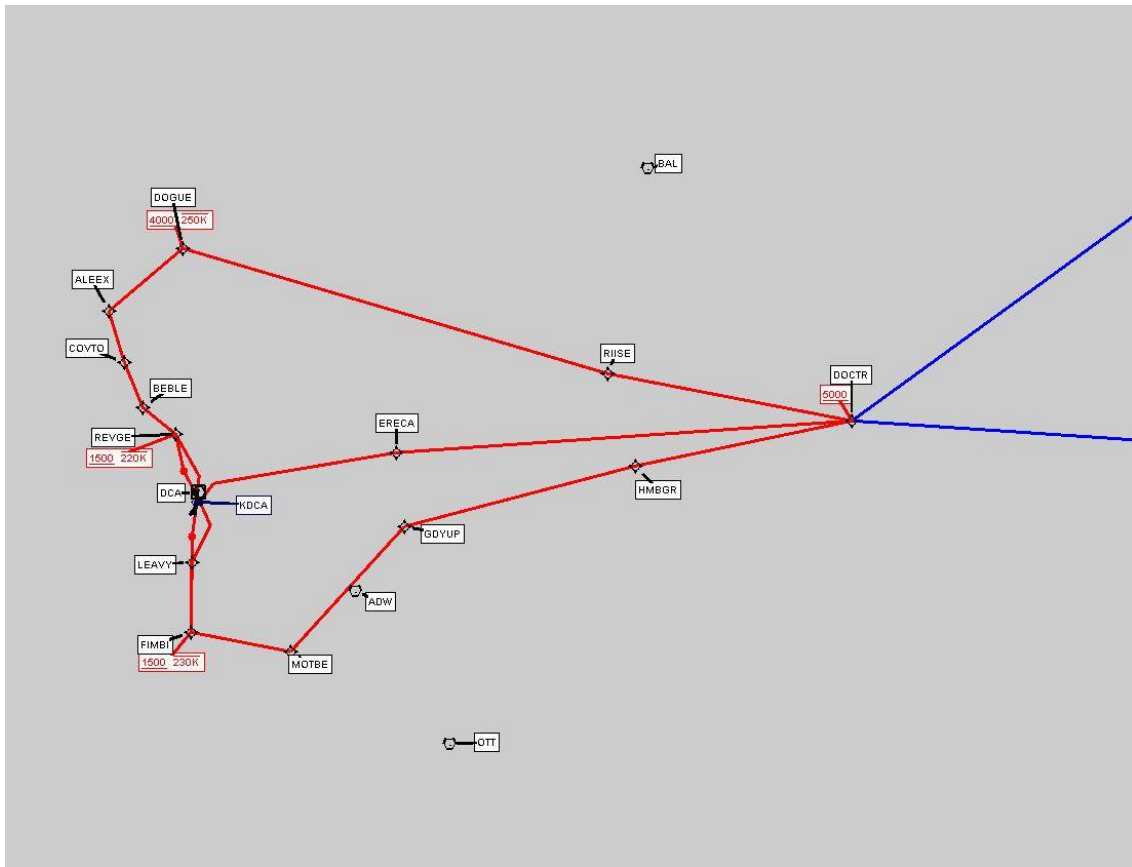
DME DME Assessment Results for DOCTR5 path KDCA:RW01:DER_DQO

DME Error



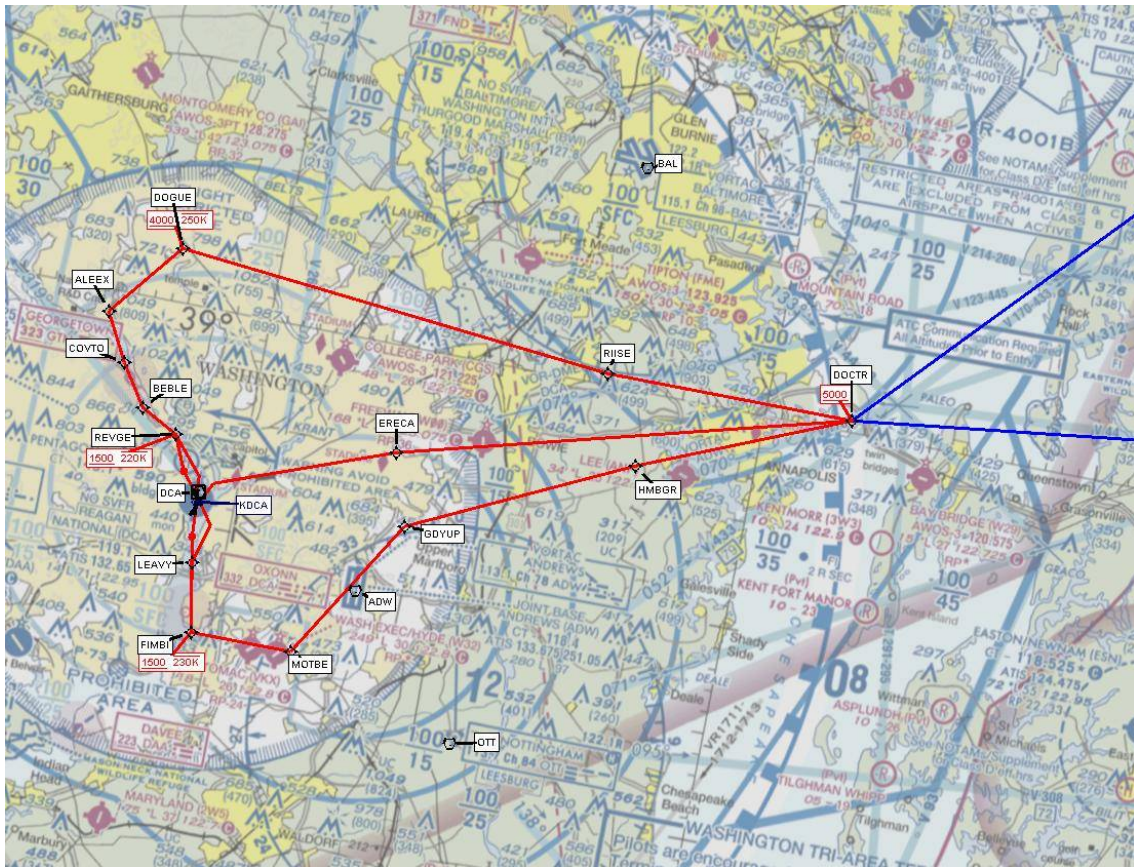
DME DME Assessment Results for DOCTR5 path KDCA:RW01:DER_DQO

Graphic Depiction 1

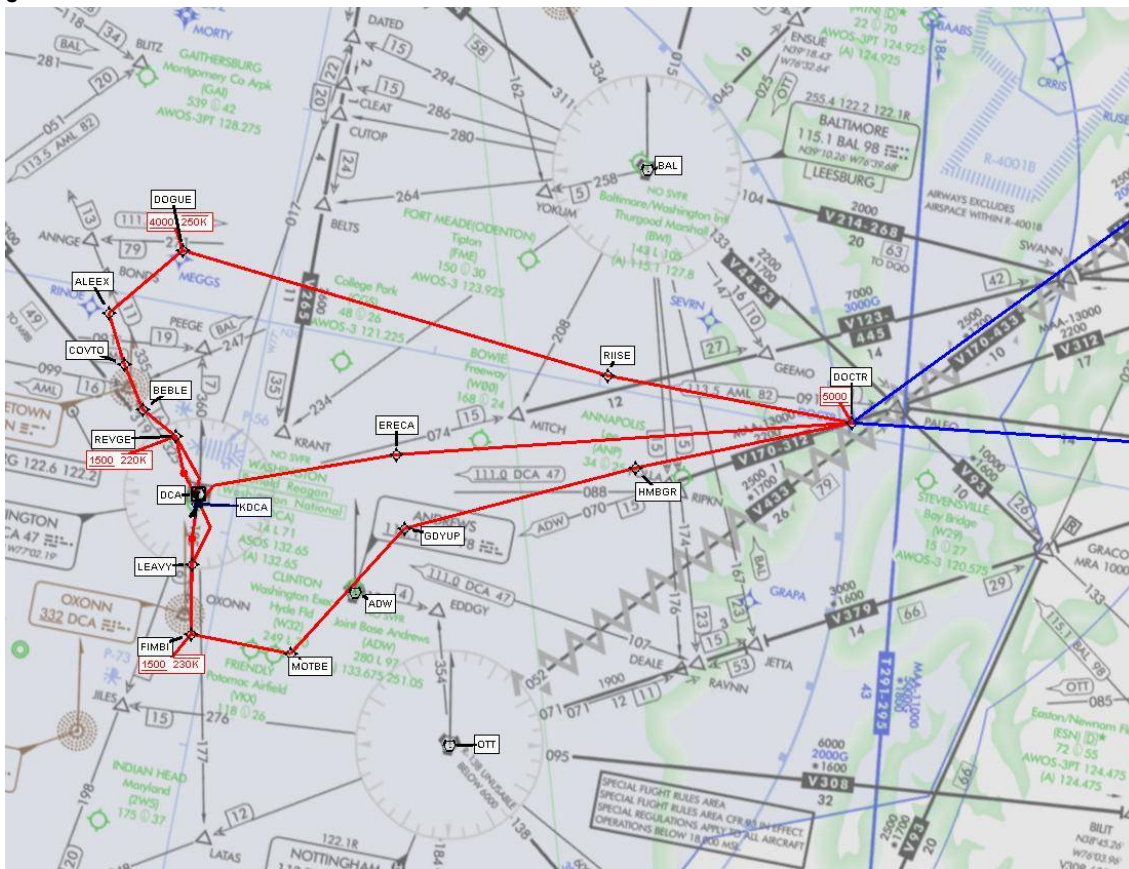


DME DME Assessment Results for DOCTR5 path KDCA:RW01:DER_DQO

Graphic Depiction 2

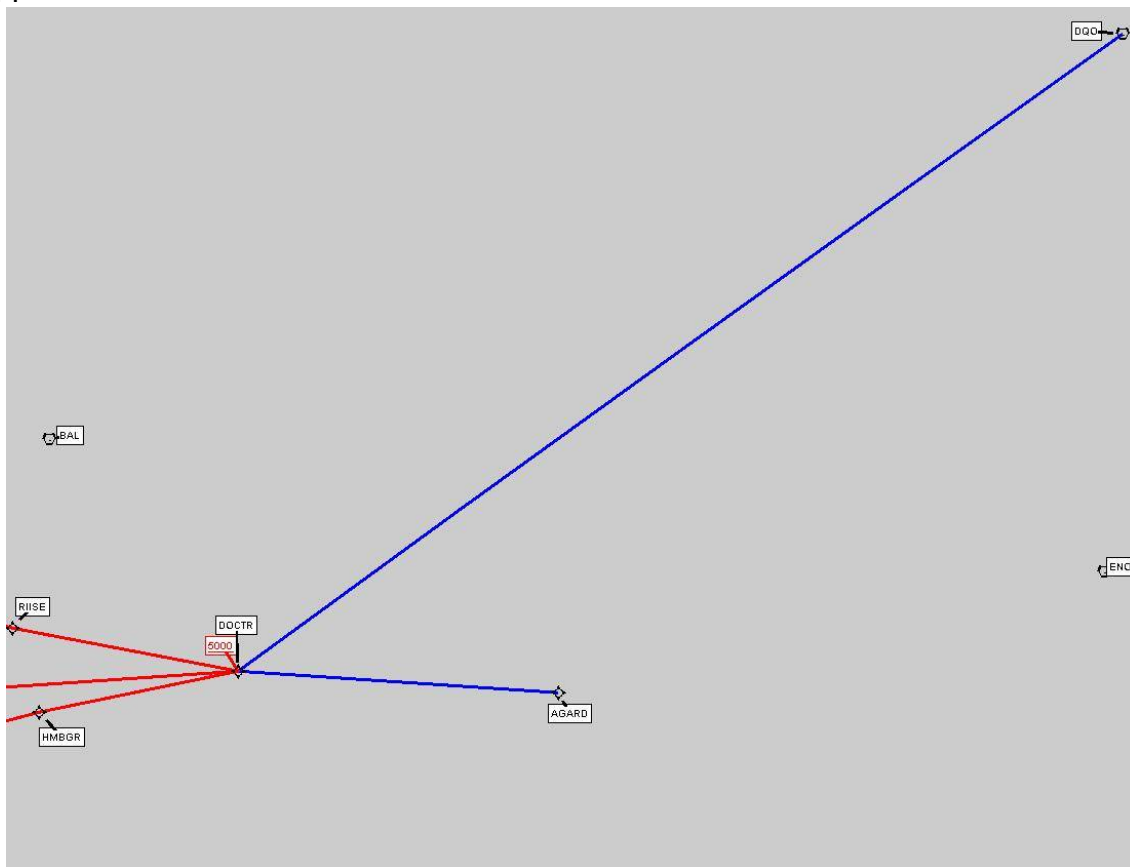


Graphic Depiction 3



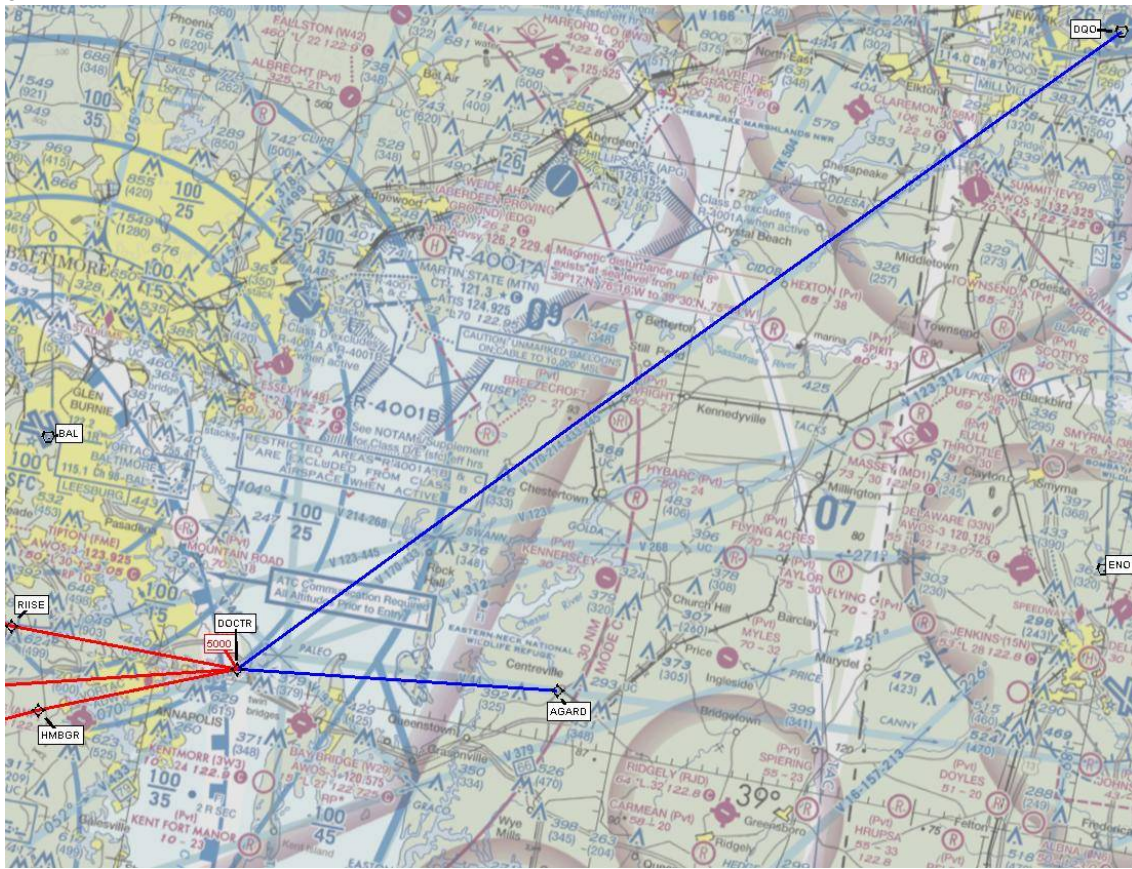
DME DME Assessment Results for DOCTR5 path KDCA:RW01:DER_DQO

Graphic Depiction 4

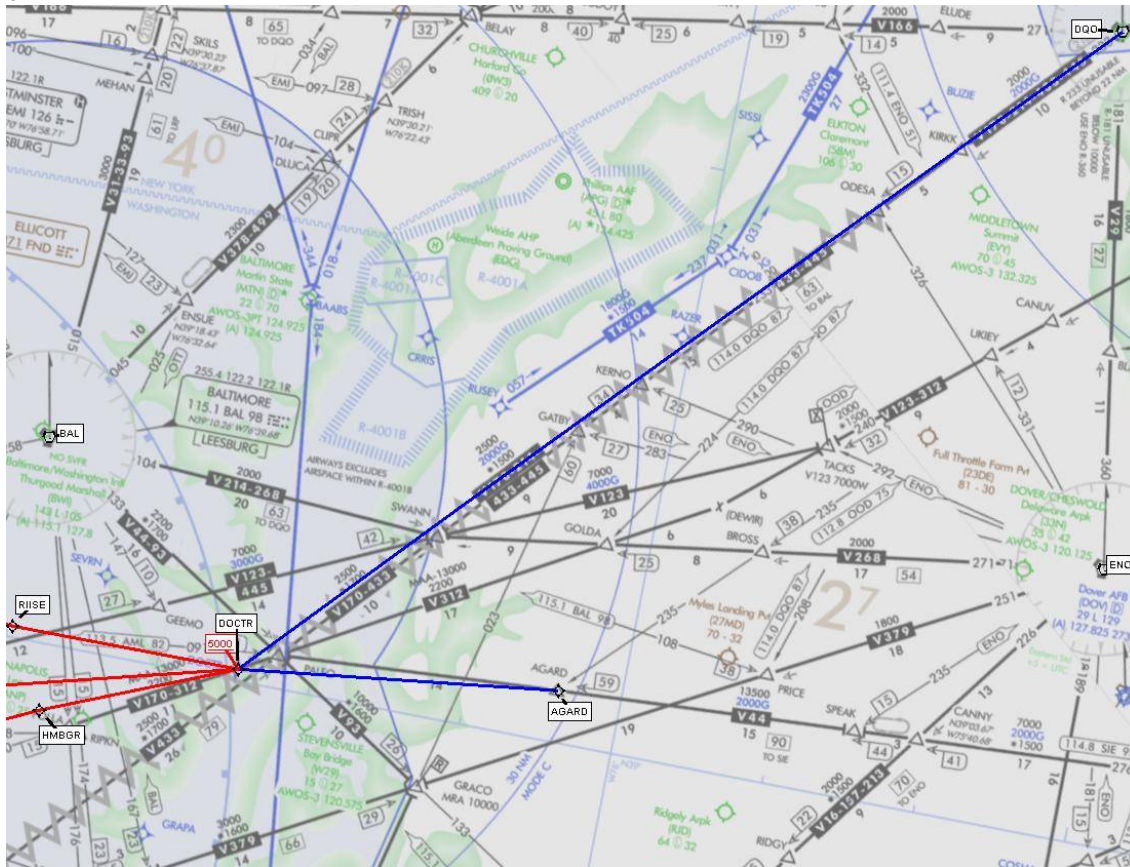


DME DME Assessment Results for DOCTR5 path KDCA:RW01:DER_DQO

Graphic Depiction 5

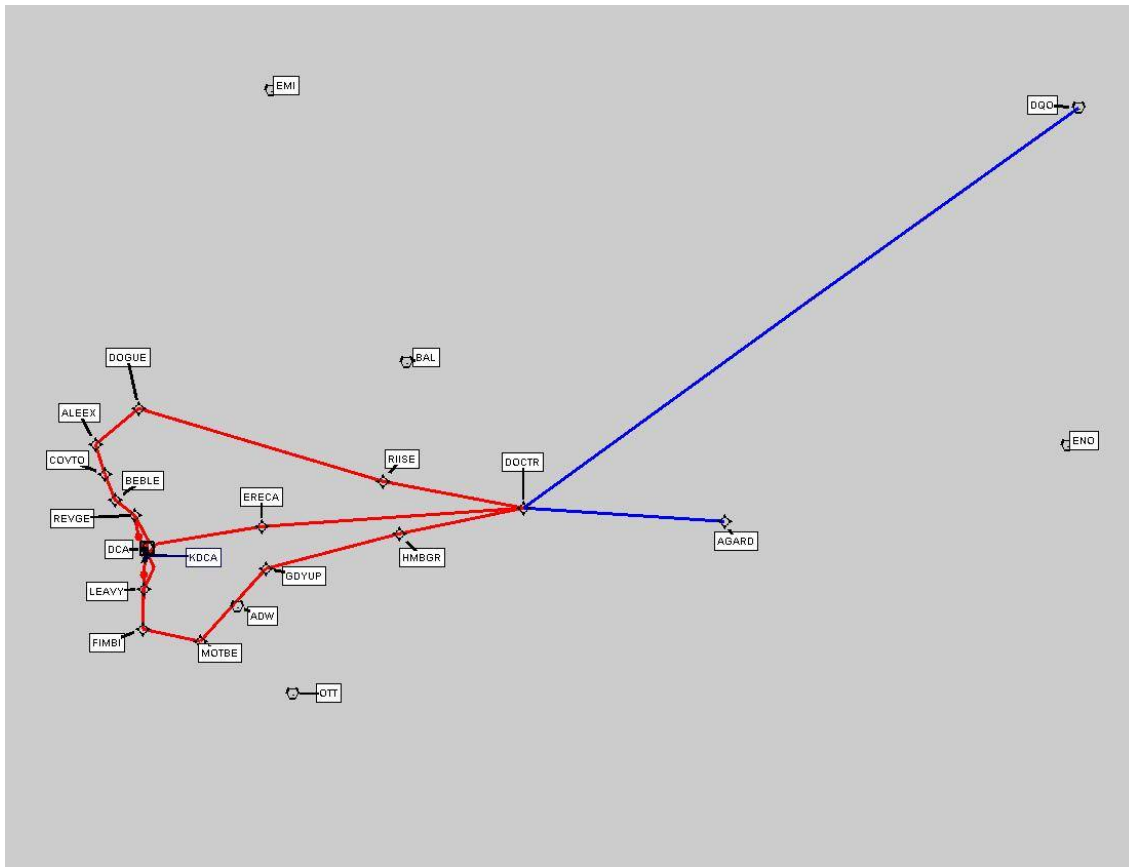


Graphic Depiction 6



DME DME Assessment Results for DOCTR5 path KDCA:RW01:DER_DQO

Graphic Depiction 7



DME DME Assessment Results for DOCTR5 path KDCA:RW04:DER_DOCTR

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Robert CTR Mason
Project File:	C:\Users\Robert CTR Mason\Desktop\DCA SID AMENDMENTS with REVGE\DCA - DOCTR\DOCTR-DME\DOCTR - DME.tgs
Output File:	C:\Users\Robert CTR Mason\Desktop\DCA SID AMENDMENTS with REVGE\DCA - DOCTR\DOCTR-DME\KDCA [IFPA] DOCTR5 20191114_1025 EST\KDCA-RW04-DER_DOCTR\KDCA DOCTR5 SID KDCA RW04 DOCTR 20191114_1025 EST.pdf
Procedure Name:	DOCTR5
Software: DmeDmePlugin:	6.0.0
Date/Time:	11/14/2019 10:25 EST
Databases:	DTED.MAX

Failures

No Failures

Warnings

No Warnings

Notes For Flight Check

None

Flight Plan

Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
KDCA:RW04:DER	WP	N38° 51' 12.639600000", W077° 02' 01.970800000"	11	VNAV	130	FLY_BY	TF
ERCA	WP	N38° 55' 07.665000000", W076° 51' 07.094000000"	4828.3	VNAV	200	FLY_BY	TF
DOCTR	WP	N39° 00' 35.580000000", W076° 24' 50.750000000"	5000	VNAV	250	FLY_BY	TF
Climb Gradient: 500.0 ft/NM up to 515.0 ft MSL 200.0 ft/NM							

Flyability

Flight Type:	SID
Selected Airport:	KDCA [IFPA]
Climb Gradient:	500.0 ft/NM up to 515.0 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 DOCTR5 path KDCA:RW04:DER_DOCTR

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:	PXT

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	OTT	N38° 42' 21.135200000", W076° 44' 41.085400000"	10.0 W	40	L	IFPA	NO	Enabled	74.1 %	74.6 %
2	BAL	N39° 10' 15.828300000", W076° 39' 40.522500000"	11.0 W	40	L	IFPA	NO	Enabled	90.6 %	92.1 %
3	AML	N38° 56' 04.538000000", W077° 28' 00.128500000"	8.0 W	40	L	IFPA	NO	Enabled	49 %	49.3 %
4	ADW	N38° 48' 25.990000000", W076° 51' 58.520000000"	10.0 W	40	L	IFPA	NO	Enabled	75.1 %	76.5 %
5	EMI	N39° 29' 42.026600000", W076° 58' 42.859100000"	8.0 W	130	H	IFPA	NO	Enabled	54.8 %	55.2 %
6	DCA	N38° 51' 34.030100000", W077° 02' 11.170000000"	9.0 W	40	L	IFPA	NO	Enabled	81.1 %	82.6 %
7	PXT	N38° 17' 16.282500000", W076° 24' 00.831500000"	10.0 W	40	L	IFPA	NO	Disabled		

DME DME Assessment Results for DOCTR5 path KDCA:RW04:DER_DOCTR

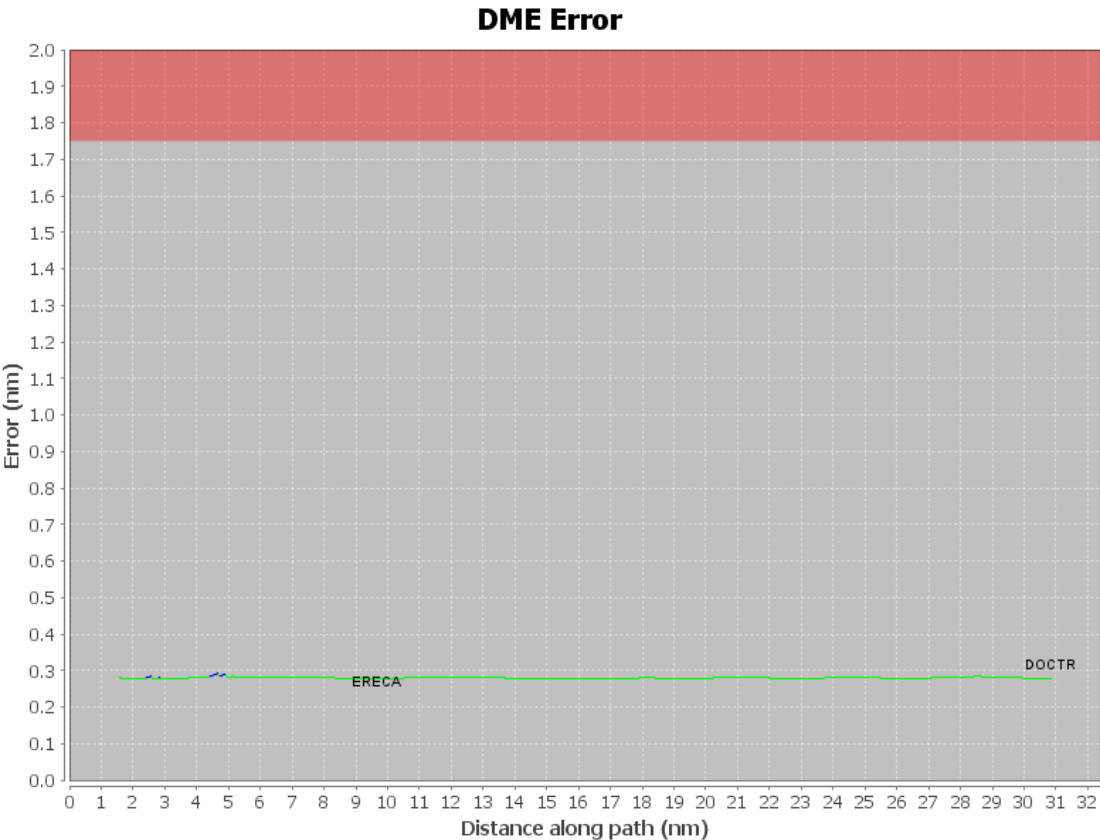
Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0						
1.6	OTT	BAL				
1.7	BAL	ADW				
1.8	OTT	BAL	ADW			
1.9	OTT	BAL				
1.9	OTT	BAL	ADW			
2.0	OTT	BAL				
2.1	OTT	BAL	ADW			
2.2	OTT	BAL				
2.3	OTT	BAL	ADW			
2.3	OTT	BAL				
2.4						
2.6	BAL	ADW				
2.7	OTT	BAL	ADW			
2.8						
2.9	BAL	ADW				
2.9	OTT	BAL	ADW			
3.0	BAL	ADW				
3.2	BAL	ADW	OTT			
3.2	BAL	ADW				
3.4	BAL	ADW	OTT			
3.6	BAL	ADW				
3.8	BAL	ADW	OTT			
4.0	BAL	ADW				
4.3	OTT	BAL				
4.4	BAL	ADW				
4.4						
4.7	OTT	BAL				
4.8						
4.9	OTT	BAL				
5.0	AML	BAL				
5.2	OTT	BAL	AML			
5.2	AML	EMI	BAL			
5.3	AML	EMI	OTT	BAL		
5.4	AML	EMI	DCA	BAL		
5.5	AML	EMI	OTT	DCA	BAL	
5.7	AML	EMI	DCA	BAL		
6.0	AML	EMI	OTT	DCA	BAL	
6.0	AML	EMI	DCA	BAL		
6.1	AML	EMI	OTT	DCA	BAL	
6.3	AML	EMI	DCA	BAL		
6.4	AML	EMI	OTT	DCA	BAL	
6.5	AML	EMI	DCA	BAL		
6.5	AML	EMI	OTT	DCA	BAL	
6.7	AML	EMI	DCA	BAL		
6.8	AML	EMI	OTT	DCA	BAL	
6.9	AML	EMI	DCA	BAL		
7.0	OTT	DCA	AML	EMI	BAL	
20.3	DCA	EMI	BAL	ADW	OTT	
22.3	BAL	DCA	ADW	OTT		
28.7	BAL	ADW	DCA			

DME DME Assessment Results for DOCTR5 path KDCA:RW04:DER_DOCTR

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N38° 51' 14.590050394", W077° 02' 00.777766154"	N38° 52' 18.843712991", W077° 00' 48.746859843"	1.5253
2	N38° 52' 37.383994699", W076° 59' 45.041414422"	N38° 52' 40.859220959", W076° 59' 33.095619792"	0.1659
3	N38° 52' 45.492327054", W076° 59' 17.167390838"	N38° 52' 46.650509123", W076° 59' 13.185243820"	0.0553
4	N38° 53' 19.064264151", W076° 57' 21.670549072"	N38° 53' 24.849316268", W076° 57' 01.754248802"	0.2765
5	N38° 53' 26.006213268", W076° 56' 57.770881057"	N38° 53' 29.476677408", W076° 56' 45.820562446"	0.1659

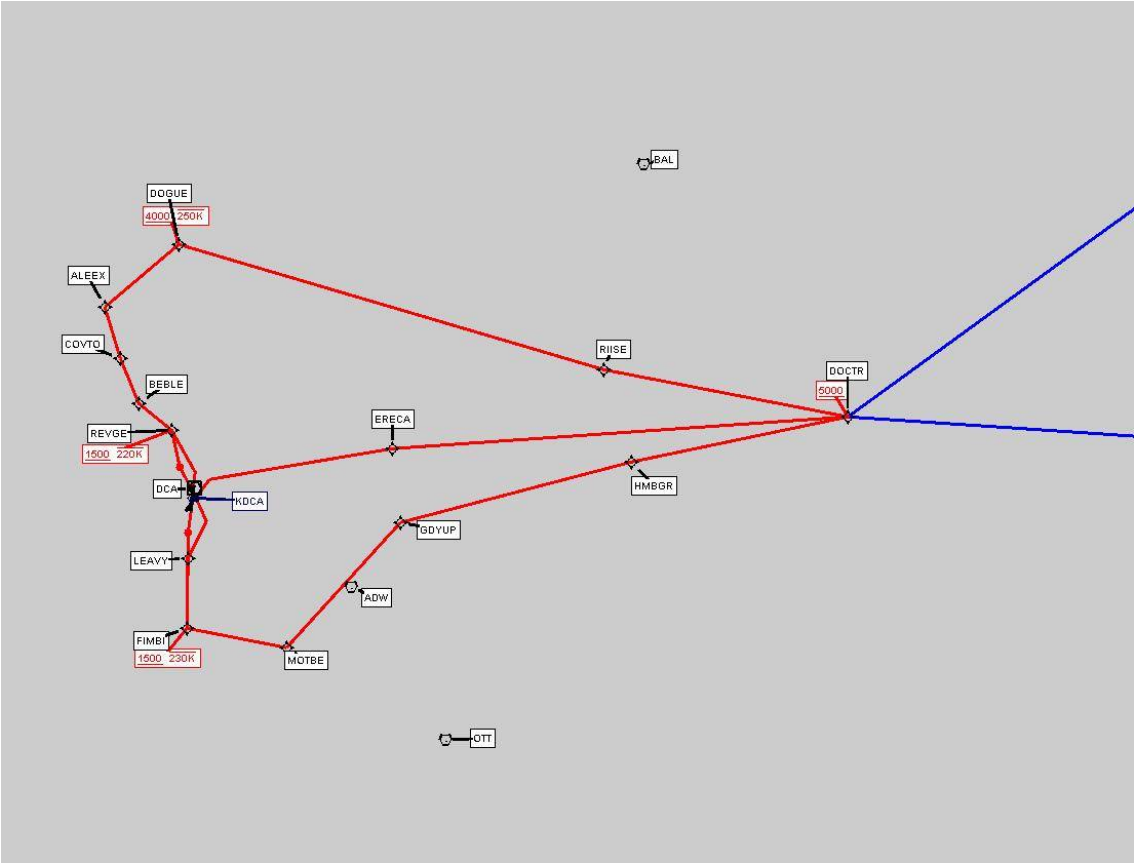
Available DMEs by Waypoints		
Waypoint Before	Waypoint After	DME List
KDCA:RW04:DER	ERECa	AML, EMI, DCA, ADW, BAL, OTT
ERECa	DOCTR	AML, EMI, DCA, ADW, BAL, OTT

User Data Files								
#	File Name							
None								
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	ADW FAA 880073-2 ADW [IFPA]	N38° 48' 25.990000000", W076° 51' 58.520000000"	10.0 W	40	278.9	113.1	ADW FAA 880073-2	
ESV:		Bearing [True]: 308.0° to 332.0° Bearing [Mag]: 318.0° to 342.0°				Arc Distance: Out to 53.0 NM Altitude: 3000.0 to 20000.0 ft		
2	EMI FAA 701388-8 EMI [IFPA]	N39° 29' 42.026600000", W076° 58' 42.859100000"	8.0 W	130	830.1	117.9	EMI FAA 701388-8	
ESV:		Bearing [True]: 102.0° to 162.0° Bearing [Mag]: 110.0° to 170.0°				Arc Distance: Out to 88.0 NM Altitude: 9900.0 to 17000.0 ft		
3	CSN FAA 682017-18 CSN [IFPA]	N38° 38' 28.327700000", W077° 51' 55.797900000"	6.0 W	130	441.8	116.3	CSN FAA 682017-18	
ESV:		Bearing [True]: 59.0° to 76.0° Bearing [Mag]: 65.0° to 82.0°				Arc Distance: Out to 97.0 NM Altitude: 10000.0 to 16000.0 ft		
4	ESVB SBY [IFPA] SBY [IFPA]	N38° 20' 42.020100000", W075° 30' 38.067400000"	12.0 W	40	52.5	111.2	ESVB SBY [IFPA]	
ESV:		Bearing [True]: 313.0° to 333.0° Bearing [Mag]: 325.0° to 345.0°				Arc Distance: Out to 65.0 NM Altitude: 7000.0 to 16000.0 ft		
5	SIE FAA 698170-26 SIE [IFPA]	N39° 05' 43.832400000", W074° 48' 01.238200000"	9.0 W	130	16.4	114.8	SIE FAA 698170-26	
ESV:		Bearing [True]: 260.0° to 288.0° Bearing [Mag]: 269.0° to 297.0°				Arc Distance: Out to 85.0 NM Altitude: 6900.0 to 16000.0 ft		
6	EMI FAA 701388-10 EMI [IFPA]	N39° 29' 42.026600000", W076° 58' 42.859100000"	8.0 W	130	830.1	117.9	EMI FAA 701388-10	
ESV:		Bearing [True]: 102.0° to 162.0° Bearing [Mag]: 110.0° to 170.0°				Arc Distance: Out to 115.0 NM Altitude: 9900.0 to 19000.0 ft		



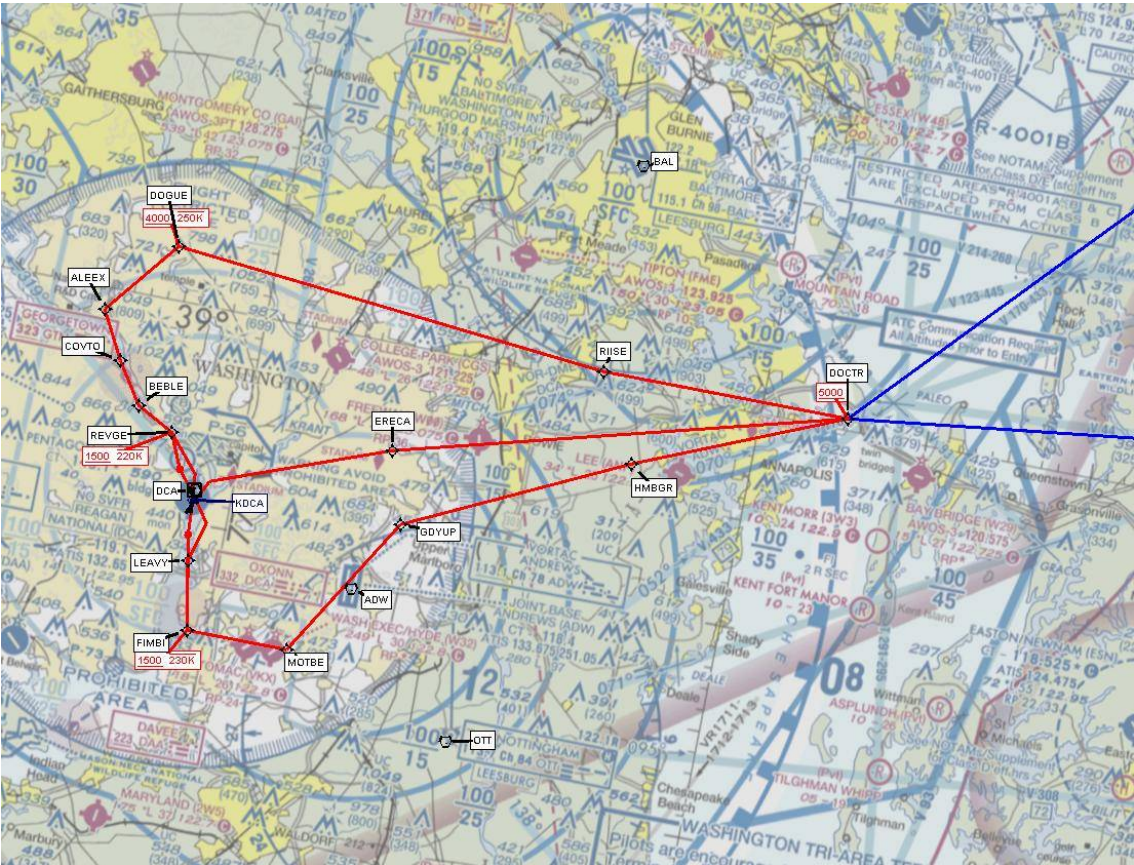
DME DME Assessment Results for DOCTR5 path KDCA:RW04:DER_DOCTR

Graphic Depiction 1



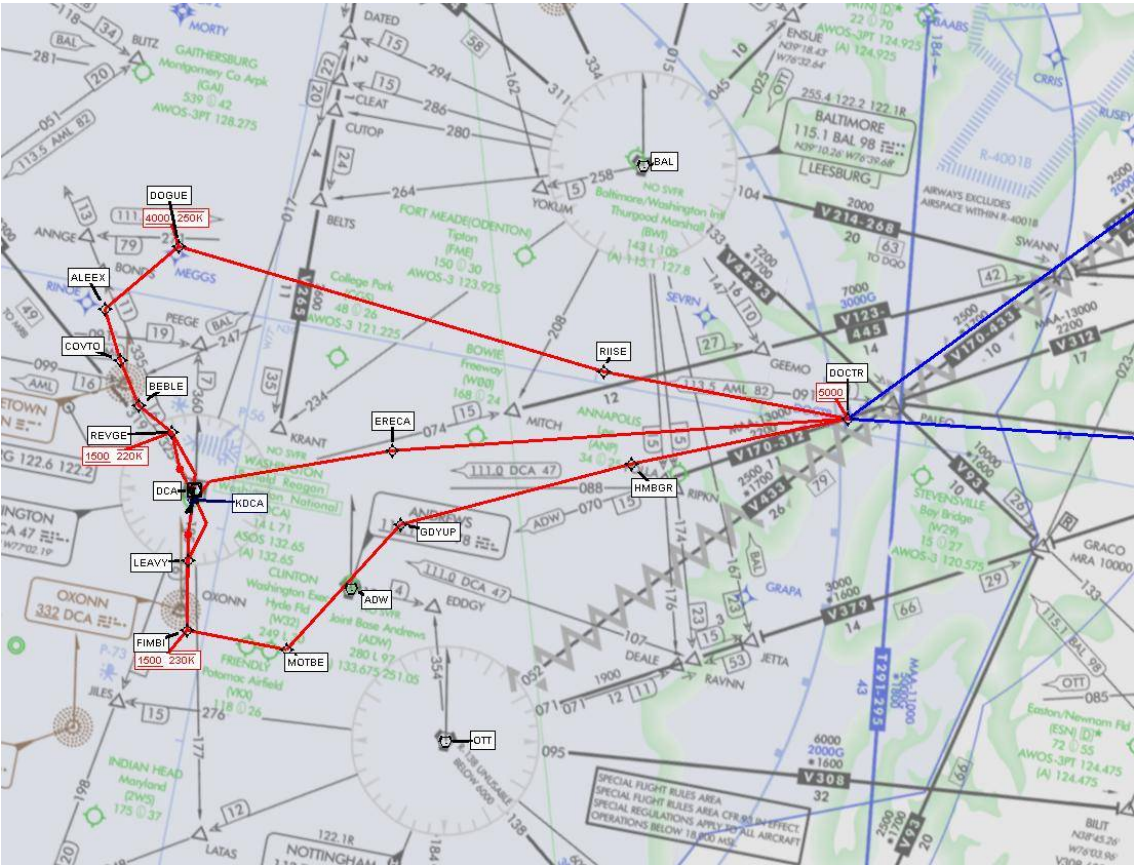
DME DME Assessment Results for DOCTR5 path KDCA:RW04:DER_DOCTR

Graphic Depiction 2



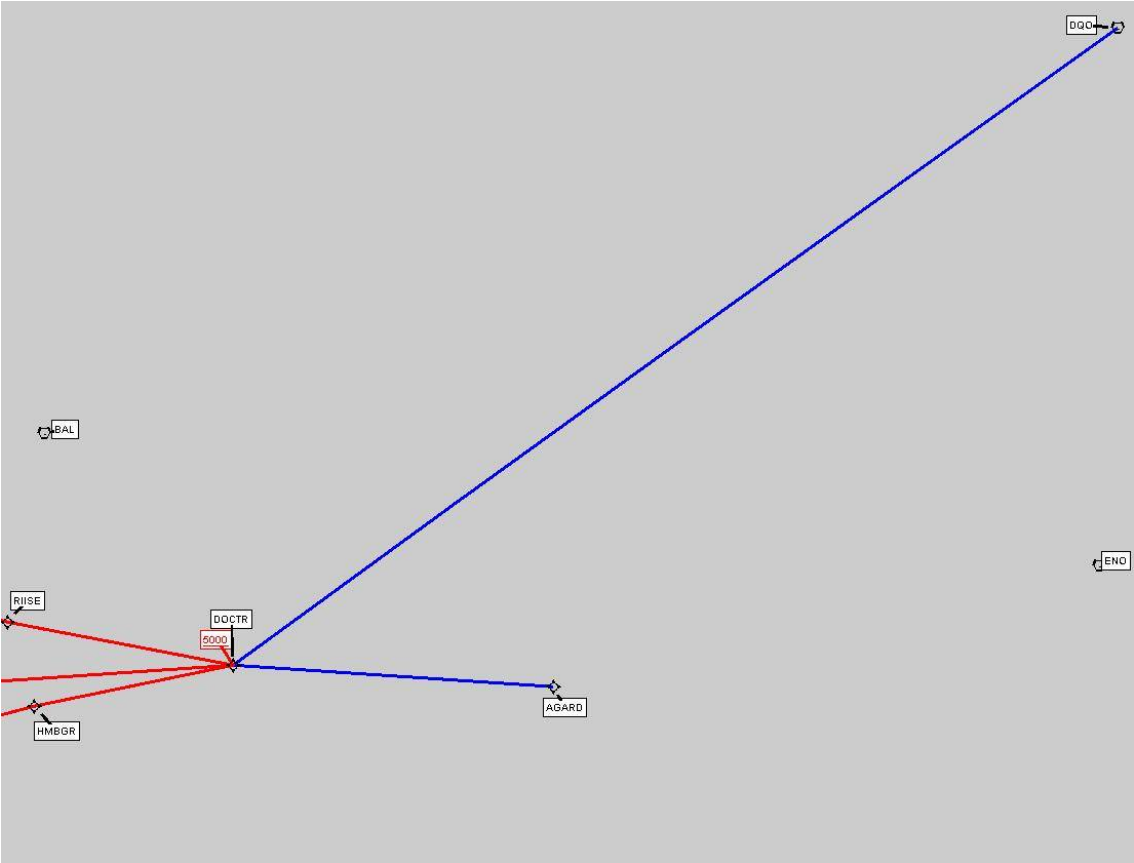
DME DME Assessment Results for DOCTR5 path KDCA:RW04:DER_DOCTR

Graphic Depiction 3



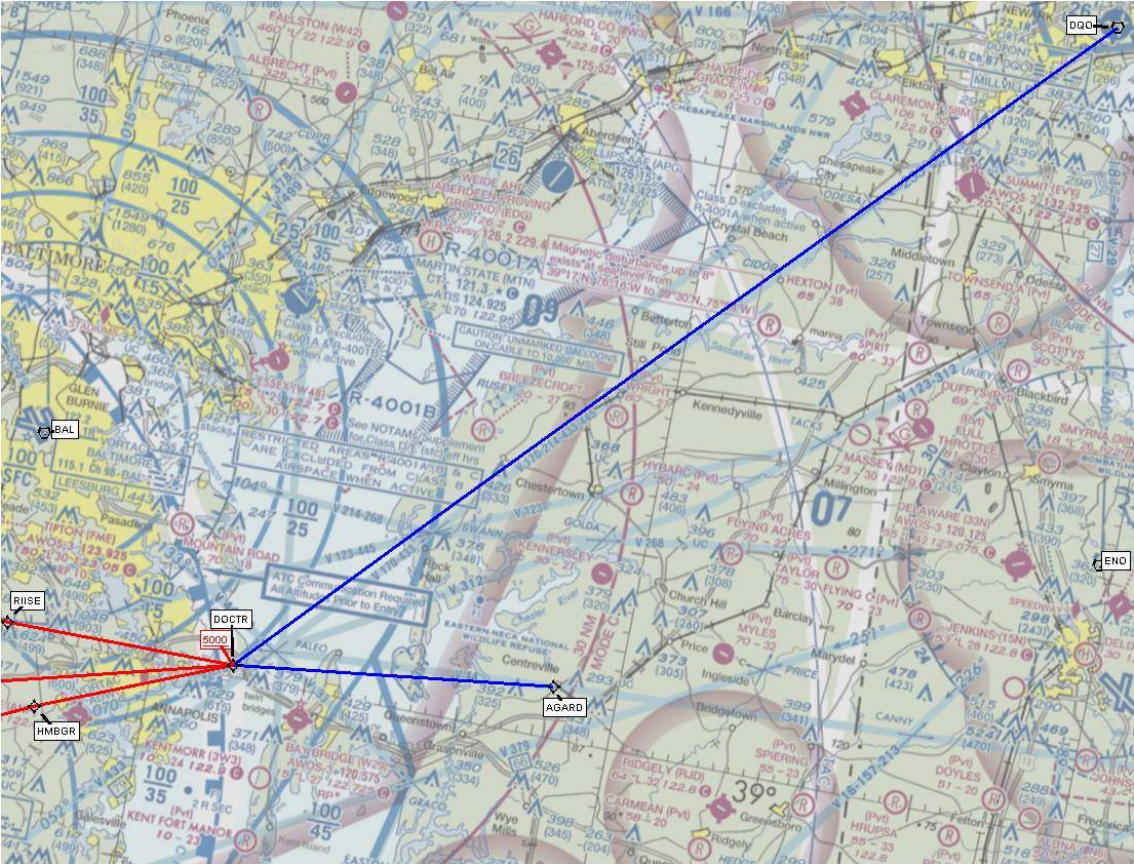
DME DME Assessment Results for DOCTR5 path KDCA:RW04:DER_DOCTR

Graphic Depiction 4

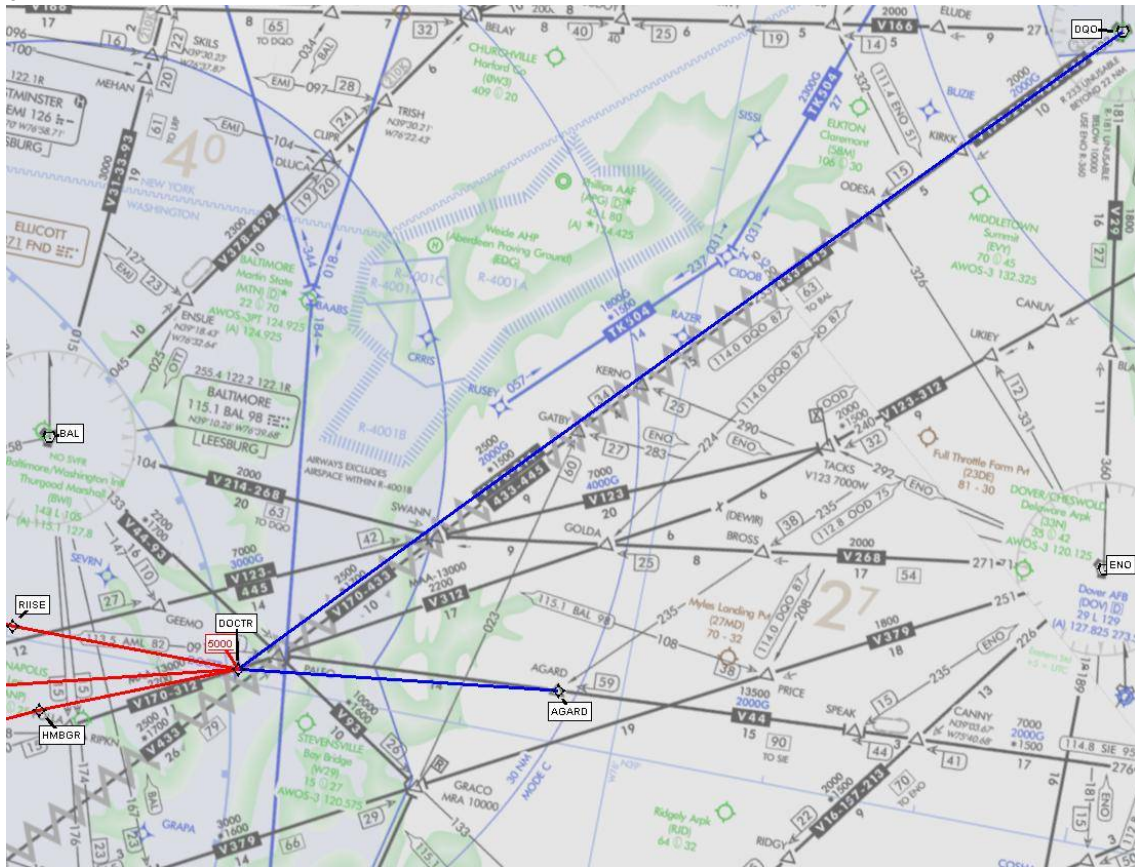


DME DME Assessment Results for DOCTR5 path KDCA:RW04:DER_DOCTR

Graphic Depiction 5

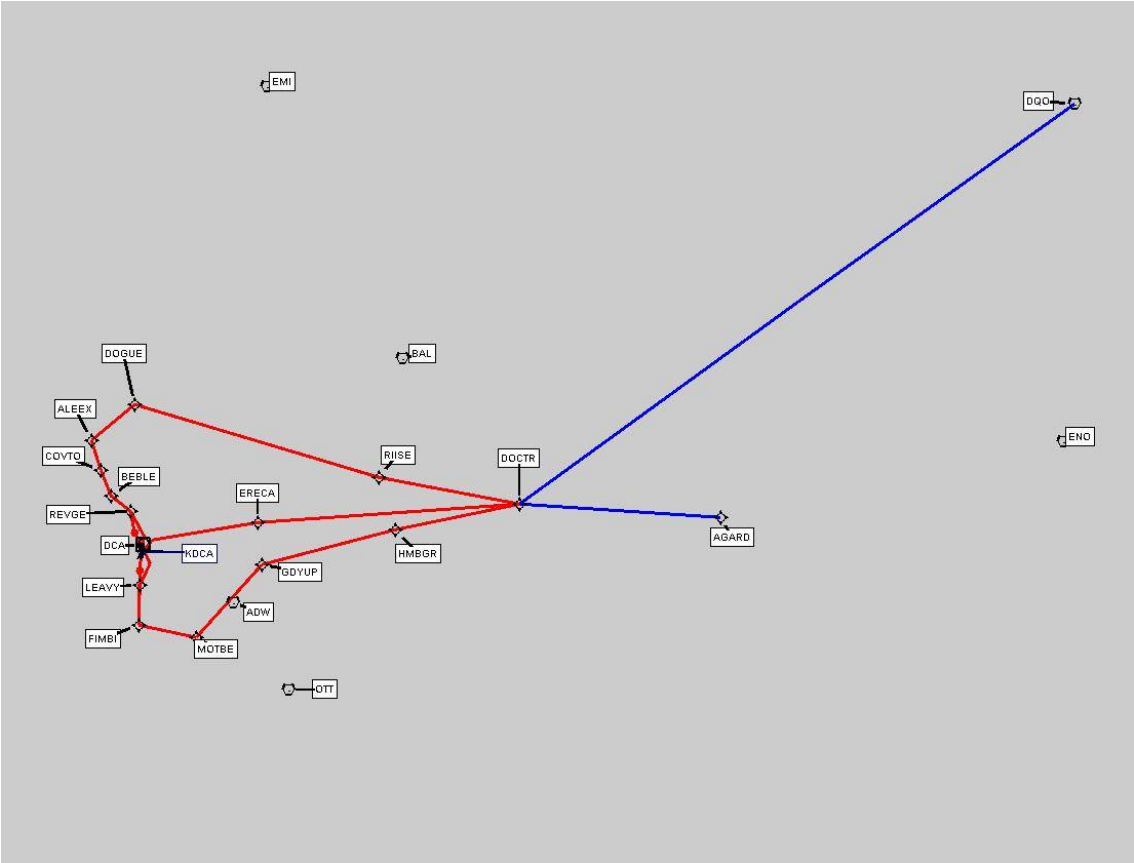


Graphic Depiction 6



DME DME Assessment Results for DOCTR5 path KDCA:RW04:DER_DOCTR

Graphic Depiction 7



DME DME Assessment Results for DOCTR5 path KDCA:RW15:DER_AGARD

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Robert CTR Mason
Project File:	C:\Users\Robert CTR Mason\Desktop\DCA SID AMENDMENTS with REVGE\DCA - DOCTR\DOCTR-DME\DOCTR - DME.tgs
Output File:	C:\Users\Robert CTR Mason\Desktop\DCA SID AMENDMENTS with REVGE\DCA - DOCTR\DOCTR-DME\KDCA [IFPA] DOCTR5 20191114_1025 EST\KDCA-RW15- DER_AGARD\KDCA DOCTR5 SID KDCA RW15 AGARD 20191114_1025 EST.pdf
Procedure Name:	DOCTR5
Software: DmeDmePlugin:	6.0.0
Date/Time:	11/14/2019 10:25 EST
Databases:	DTED.MAX

Failures

No Failures

Warnings

No Warnings

Notes For Flight Check

None

Flight Plan

Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
KDCA:RW15:DER	WP	N38° 50' 59.294600000", W077° 01' 55.952800000"	10.3	VNAV	130	FLY_BY	TF
LEAVY	WP	N38° 48' 19.330000000", W077° 01' 50.090000000"	1485.4	VNAV	200	FLY_BY	TF
FIMBI	WP	N38° 45' 08.900000000", W077° 01' 05.770000000"	1500	VNAV	230	FLY_BY	TF
MOTBE	WP	N38° 45' 06.250000000", W076° 55' 01.470000000"	2450	VNAV	230	FLY_BY	TF
GDYUP	WP	N38° 51' 49.380000000", W076° 49' 48.100000000"	4021.3	VNAV	230	FLY_BY	TF
HMBGR	WP	N38° 56' 38.040000000", W076° 36' 59.080000000"	5000	VNAV	230	FLY_BY	TF
DOCTR	WP	N39° 00' 35.580000000", W076° 24' 50.750000000"	5000	VNAV	250	FLY_BY	TF
AGARD	WP	N39° 02' 36.890000000", W076° 04' 11.140000000"	8245.3	VNAV	250	FLY_BY	TF
Climb Gradient: 500.0 ft/NM up to 520.0 ft MSL 200.0 ft/NM							

DME DME Assessment Results for DOCTR5 path KDCA:RW15:DER_AGARD

Flyability	
Flight Type:	SID
Selected Airport:	KDCA [IFPA]
Climb Gradient:	500.0 ft/NM up to 520.0 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	
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:	PXT

DME DME Assessment Results for DOCTR5 path KDCA:RW15:DER_AGARD

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	OTT	N38° 42' 21.135200000", W076° 44' 41.085400000"	10.0 W	40	L	IFPA	NO	Enabled	76.9 %	77.5 %
2	ENO	N39° 13' 53.928100000", W075° 30' 57.491800000"	9.0 W	40	L	IFPA	NO	Enabled	10.1 %	10.9 %
3	BAL	N39° 10' 15.828300000", W076° 39' 40.522500000"	11.0 W	40	L	IFPA	NO	Enabled	86.5 %	87.3 %
4	SBY	N38° 20' 42.020100000", W075° 30' 38.067400000"	12.0 W	40	L	IFPA	NO	Enabled	10.1 %	10.9 %
5	BRV	N38° 20' 10.526400000", W077° 21' 10.315900000"	9.0 W	40	L	IFPA	NO	Enabled	22.5 %	21.6 %
6	AML	N38° 56' 04.538000000", W077° 28' 00.128500000"	8.0 W	40	L	IFPA	NO	Enabled	29.9 %	29.9 %
7	DCA	N38° 51' 34.030100000", W077° 02' 11.170000000"	9.0 W	40	L	IFPA	NO	Enabled	65.2 %	65.8 %
8	ADW	N38° 48' 25.990000000", W076° 51' 58.520000000"	10.0 W	40	L	IFPA	NO	Enabled	43.4 %	44.9 %
9	SIE	N39° 05' 43.832400000", W074° 48' 01.238200000"	9.0 W	130	H	IFPA	NO	Enabled	10.1 %	10.9 %
10	PXT	N38° 17' 16.282500000", W076° 24' 00.831500000"	10.0 W	40	L	IFPA	NO	Disabled		

DME DME Assessment Results for DOCTR5 path KDCA:RW15:DER_AGARD

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0						
1.7	OTT	BRV				
2.0	OTT	BRV	BAL			
2.7	OTT	BRV	BAL	DCA		
3.0	OTT	BRV	BAL			
7.1	OTT	BAL	BRV	DCA		
10.2	OTT	BAL	DCA			
11.0	OTT	BAL	BRV	DCA		
11.2	AML	BAL	OTT	BRV	DCA	
13.0	AML	BAL	OTT	DCA		
13.7	BAL	DCA	AML			
13.8	BAL	DCA	AML	OTT		
14.0	BAL	DCA	AML			
14.1	BAL	DCA	AML	OTT		
14.2	BAL	DCA	AML			
14.3	BAL	DCA	AML	OTT		
14.4	BAL	DCA	AML			
14.8	BAL	DCA	AML	OTT		
15.1	BAL	DCA	AML			
15.2	BAL	DCA	AML	OTT		
15.3	BAL	DCA	AML			
15.6	BAL	DCA	AML	OTT		
15.6	BAL	DCA	AML			
15.7	BAL	DCA	AML	OTT		
15.8	BAL	DCA	AML			
15.9	BAL	DCA	AML	OTT		
16.0	BAL	DCA	AML			
16.2	BAL	DCA	AML	OTT		
16.2	BAL	DCA	AML	BRV		
16.4	AML	BAL	DCA	OTT	BRV	
16.5	AML	BAL	DCA	BRV		
16.5	AML	BAL	DCA	OTT	BRV	
16.7	AML	BAL	DCA	BRV		
16.9	AML	BAL	DCA	OTT	BRV	
17.0	AML	BAL	DCA	BRV		
17.1	AML	BAL	DCA	OTT	BRV	
17.2	AML	BAL	DCA	BRV		
17.4	AML	BAL	DCA	OTT	BRV	
17.6	AML	BAL	DCA	BRV		
17.8	AML	BAL	DCA	OTT	BRV	
18.1	AML	BAL	DCA	OTT		
22.3	OTT	DCA	AML	BAL	ADW	
25.6	AML	BAL	OTT	DCA		
28.0	AML	BAL	DCA	OTT	ADW	
28.1	BAL	DCA	OTT	ADW		
37.7	BAL	ADW	DCA			
40.2	OTT	BAL	ADW	DCA		
43.2						
48.3	OTT	BAL	ADW	DCA		
49.2	OTT	BAL	ADW			
50.2	SBY	OTT	ADW	ENO	BAL	SIE
55.4	SBY	OTT	ENO	SIE	BAL	

DME DME Assessment Results for DOCTR5 path KDCA:RW15:DER_AGARD

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N38° 50' 57.616443424", W077° 01' 54.314826284"	N38° 49' 29.287199241", W077° 01' 23.927100640"	1.701
2	N39° 00' 58.669746335", W076° 20' 57.751058984"	N39° 01' 37.210856556", W076° 14' 25.794640607"	5.1314

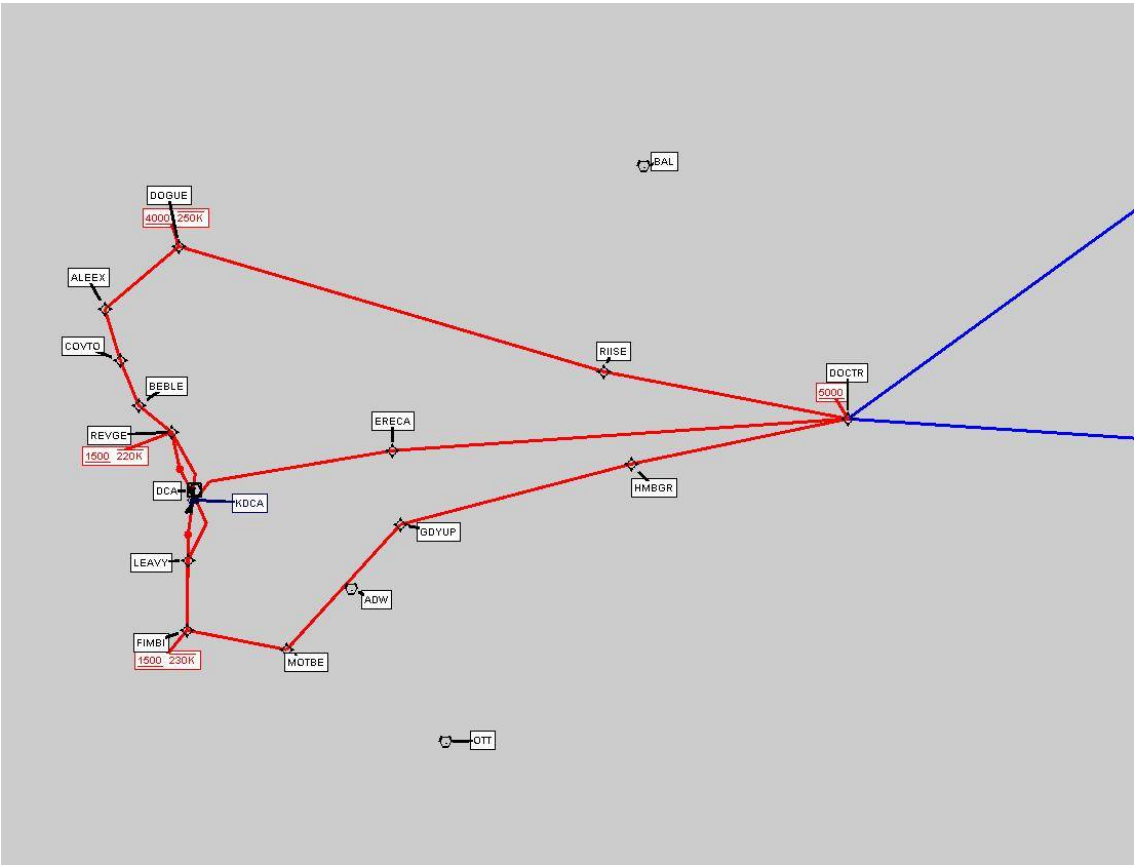
Available DMEs by Waypoints		
Waypoint Before	Waypoint After	DME List
KDCA:RW15:DER	LEAVY	DCA, BRV, BAL, OTT
LEAVY	FIMBI	BRV, BAL, OTT
FIMBI	MOTBE	DCA, BRV, BAL, OTT
MOTBE	GDYUP	AML, DCA, BRV, BAL, OTT
GDYUP	HMBGR	AML, DCA, ADW, BAL, OTT
HMBGR	DOCTR	DCA, ADW, BAL, OTT
DOCTR	AGARD	DCA, ADW, ENO, SBY, BAL, OTT, SIE

User Data Files								
#	File Name							
None								
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	ADW FAA 880073-2 ADW [IFPA]	N38° 48' 25.990000000", W076° 51' 58.520000000"	10.0 W	40	278.9	113.1	ADW FAA 880073-2	
ESV:		Bearing [True]: 308.0° to 332.0° Bearing [Mag]: 318.0° to 342.0°				Arc Distance: Out to 53.0 NM Altitude: 3000.0 to 20000.0 ft		
2	EMI FAA 701388-8 EMI [IFPA]	N39° 29' 42.026600000", W076° 58' 42.859100000"	8.0 W	130	830.1	117.9	EMI FAA 701388-8	
ESV:		Bearing [True]: 102.0° to 162.0° Bearing [Mag]: 110.0° to 170.0°				Arc Distance: Out to 88.0 NM Altitude: 9900.0 to 17000.0 ft		
3	CSN FAA 682017-18 CSN [IFPA]	N38° 38' 28.327700000", W077° 51' 55.797900000"	6.0 W	130	441.8	116.3	CSN FAA 682017-18	
ESV:		Bearing [True]: 59.0° to 76.0° Bearing [Mag]: 65.0° to 82.0°				Arc Distance: Out to 97.0 NM Altitude: 10000.0 to 16000.0 ft		
4	ESVB SBY [IFPA] SBY [IFPA]	N38° 20' 42.020100000", W075° 30' 38.067400000"	12.0 W	40	52.5	111.2	ESVB SBY [IFPA]	
ESV:		Bearing [True]: 313.0° to 333.0° Bearing [Mag]: 325.0° to 345.0°				Arc Distance: Out to 65.0 NM Altitude: 7000.0 to 16000.0 ft		
5	SIE FAA 698170-26 SIE [IFPA]	N39° 05' 43.832400000", W074° 48' 01.238200000"	9.0 W	130	16.4	114.8	SIE FAA 698170-26	
ESV:		Bearing [True]: 260.0° to 288.0° Bearing [Mag]: 269.0° to 297.0°				Arc Distance: Out to 85.0 NM Altitude: 6900.0 to 16000.0 ft		
6	EMI FAA 701388-10 EMI [IFPA]	N39° 29' 42.026600000", W076° 58' 42.859100000"	8.0 W	130	830.1	117.9	EMI FAA 701388-10	
ESV:		Bearing [True]: 102.0° to 162.0° Bearing [Mag]: 110.0° to 170.0°				Arc Distance: Out to 115.0 NM Altitude: 9900.0 to 19000.0 ft		



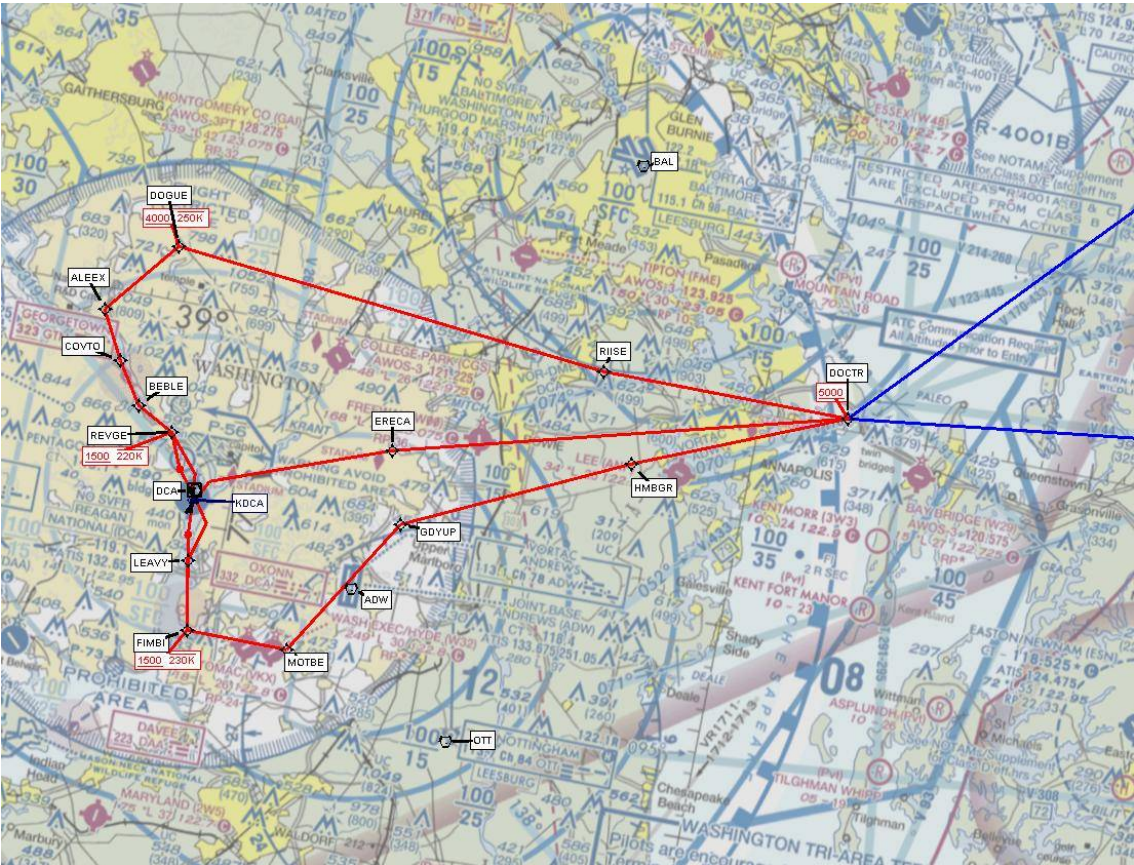
DME DME Assessment Results for DOCTR5 path KDCA:RW15:DER_AGARD

Graphic Depiction 1

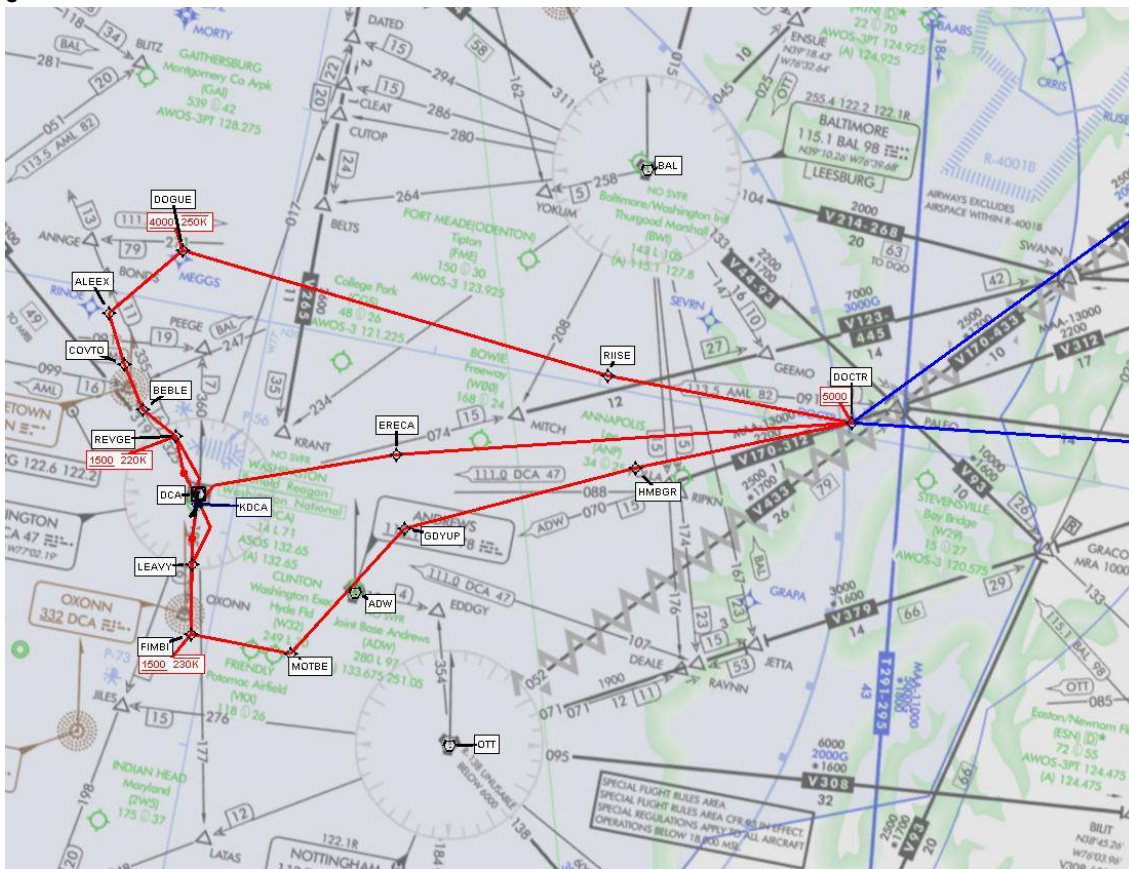


DME DME Assessment Results for DOCTR5 path KDCA:RW15:DER_AGARD

Graphic Depiction 2

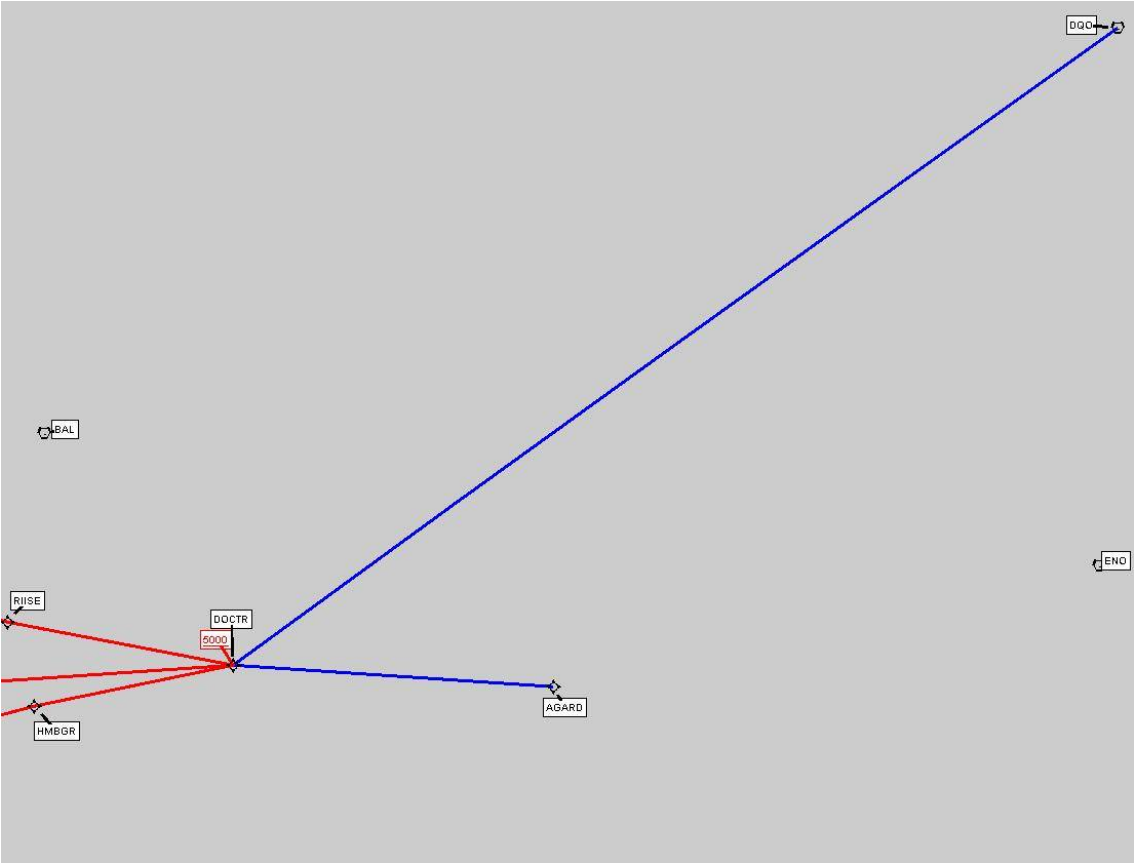


Graphic Depiction 3



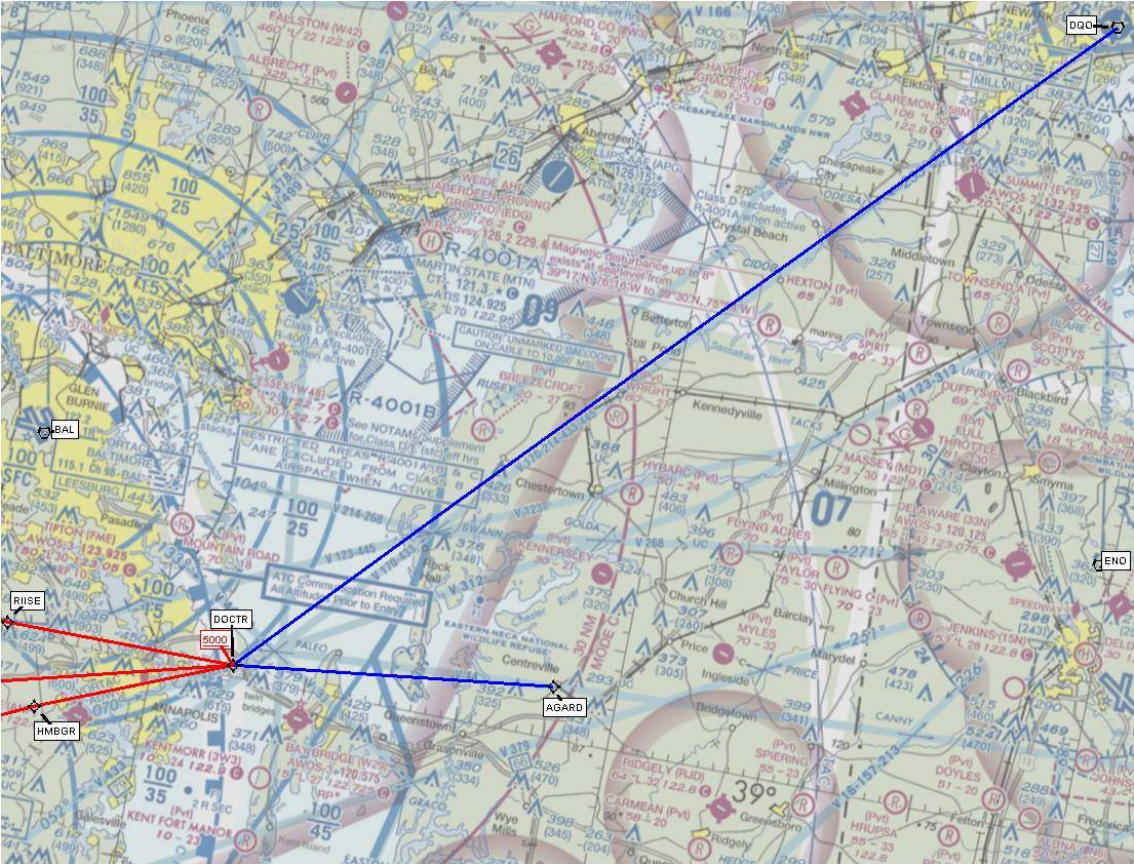
DME DME Assessment Results for DOCTR5 path KDCA:RW15:DER_AGARD

Graphic Depiction 4



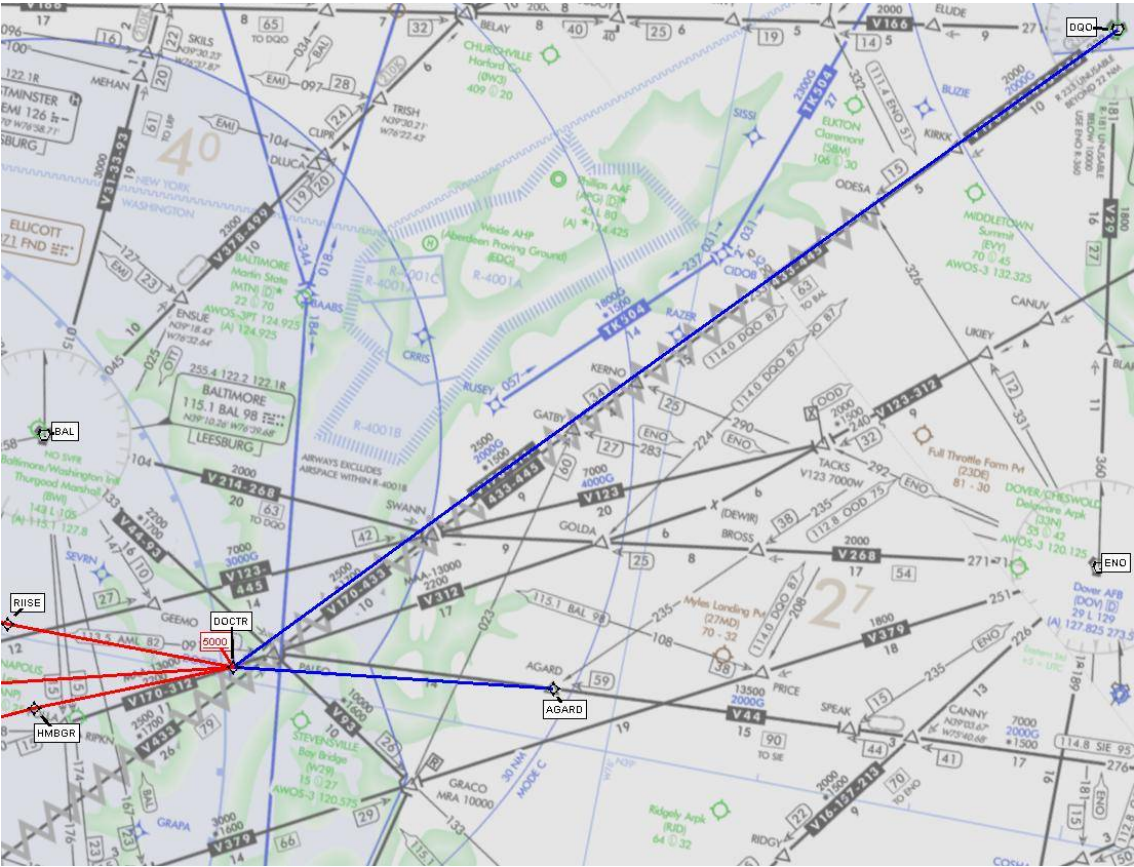
DME DME Assessment Results for DOCTR5 path KDCA:RW15:DER_AGARD

Graphic Depiction 5



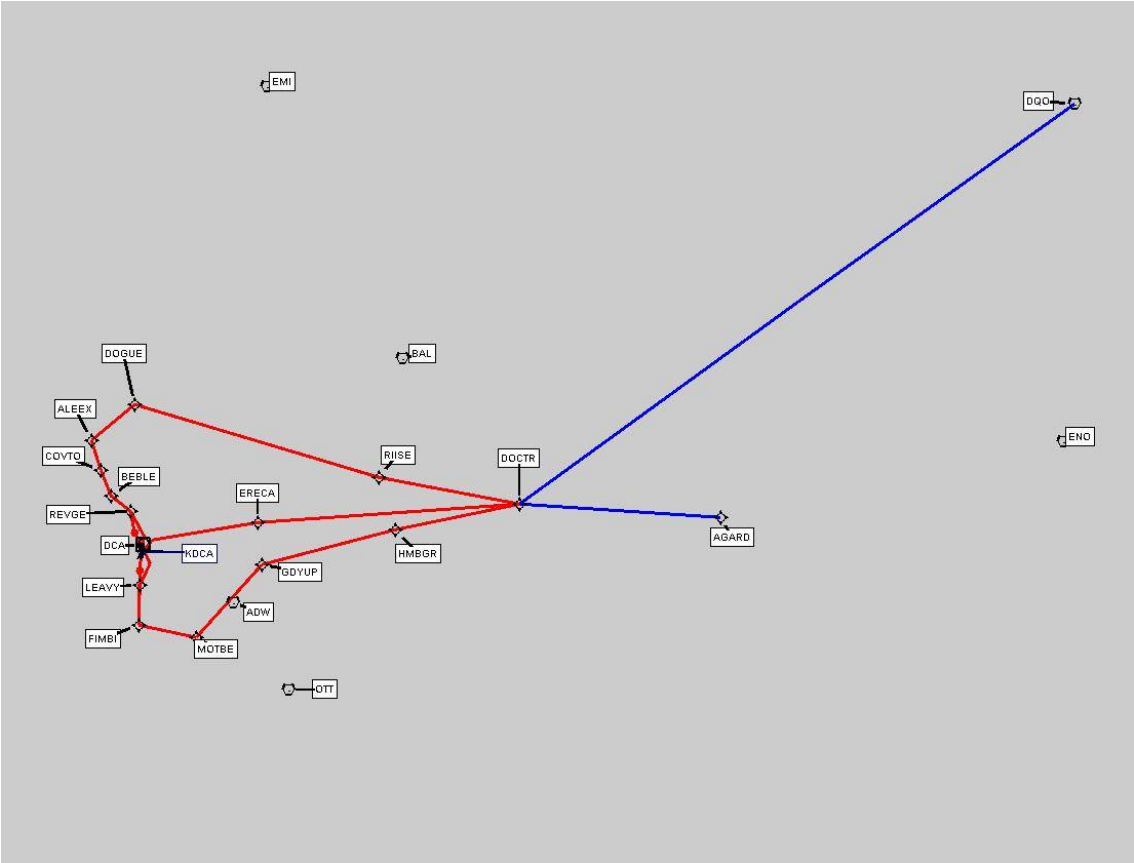
DME DME Assessment Results for DOCTR5 path KDCA:RW15:DER_AGARD

Graphic Depiction 6



DME DME Assessment Results for DOCTR5 path KDCA:RW15:DER_AGARD

Graphic Depiction 7



DME DME Assessment Results for DOCTR5 path KDCA:RW19:DER_FIMBI

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Robert CTR Mason
Project File:	C:\Users\Robert CTR Mason\Desktop\DCA SID AMENDMENTS with REVGE\DCA - DOCTR\DOCTR-DME\DOCTR - DME.tgs
Output File:	C:\Users\Robert CTR Mason\Desktop\DCA SID AMENDMENTS with REVGE\DCA - DOCTR\DOCTR-DME\KDCA [IFPA] DOCTR5 20191114_1025 EST\KDCA-RW19-DER_FIMBI\KDCA DOCTR5 SID KDCA RW19 FIMBI 20191114_1025 EST.pdf
Procedure Name:	DOCTR5
Software: DmeDmePlugin:	6.0.0
Date/Time:	11/14/2019 10:25 EST
Databases:	DTED.MAX

Failures

No Failures

Warnings

No Warnings

Notes For Flight Check

None

Flight Plan

Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
KDCA:RW19:DER	WP	N38° 50' 29.645500000", W077° 02' 12.294400000"	11.4	VNAV	130	FLY_OVER	TF
FIMBI	WP	N38° 45' 08.900000000", W077° 01' 05.770000000"	1500	VNAV	230	FLY_BY	TF
Climb Gradient: 500.0 ft/NM up to 515.0 ft MSL 200.0 ft/NM							

Flyability

Flight Type:	SID
Selected Airport:	KDCA [IFPA]
Climb Gradient:	500.0 ft/NM up to 515.0 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 DOCTR5 path KDCA:RW19:DER_FIMBI

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:	PXT

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	OTT	N38° 42' 21.135200000", W076° 44' 41.085400000"	10.0 W	40	L	IFPA	NO	Enabled	58.8 %	65.9 %
2	BAL	N39° 10' 15.828300000", W076° 39' 40.522500000"	11.0 W	40	L	IFPA	NO	Enabled	58.8 %	65.9 %
3	BRV	N38° 20' 10.526400000", W077° 21' 10.315900000"	9.0 W	40	L	IFPA	NO	Enabled	44.2 %	51.8 %
4	PXT	N38° 17' 16.282500000", W076° 24' 00.831500000"	10.0 W	40	L	IFPA	NO	Disabled		

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0						
1.8	OTT	BAL				
2.6	OTT	BRV	BAL			

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N38° 50' 27.491810194", W077° 02' 12.077669869"	N38° 48' 39.622223834", W077° 01' 54.676031951"	1.8137

Available DMEs by Waypoints		
Waypoint Before	Waypoint After	DME List
KDCA:RW19:DER	FIMBI	BRV, BAL, OTT

DME DME Assessment Results for DOCTR5 path KDCA:RW19:DER_FIMBI

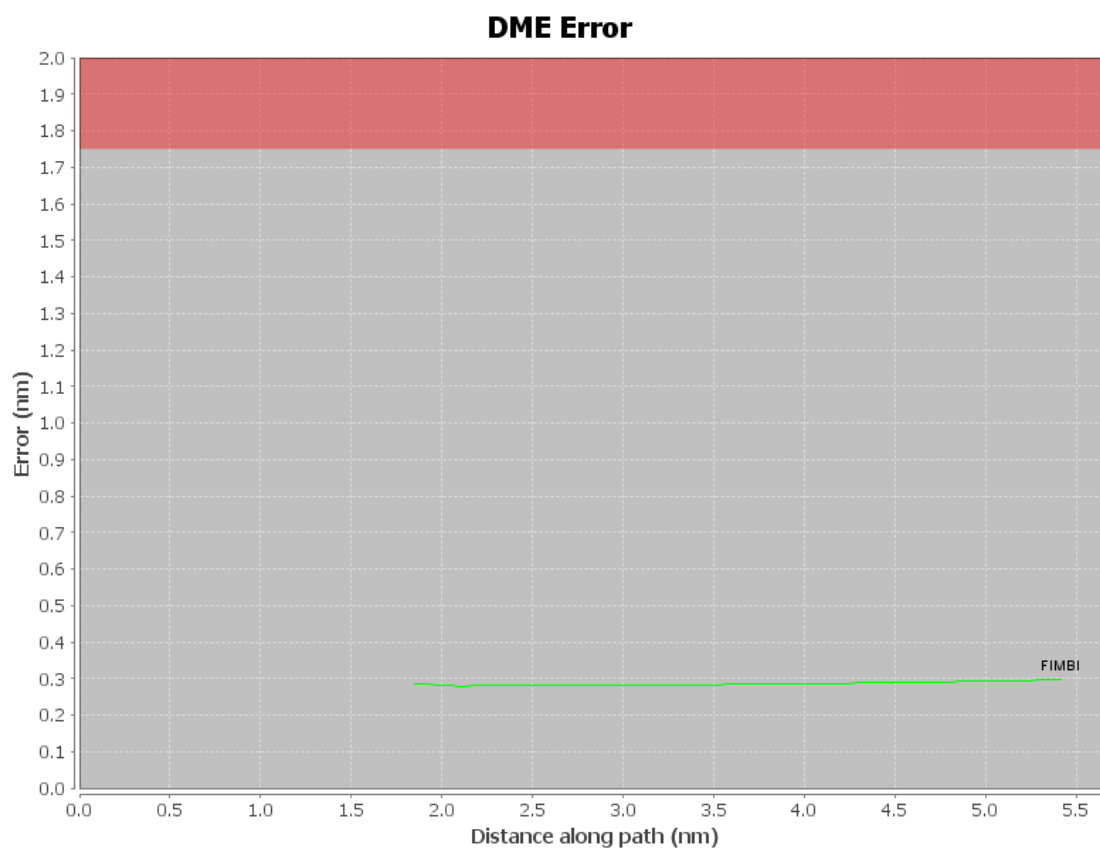
User Data Files

File Name

None

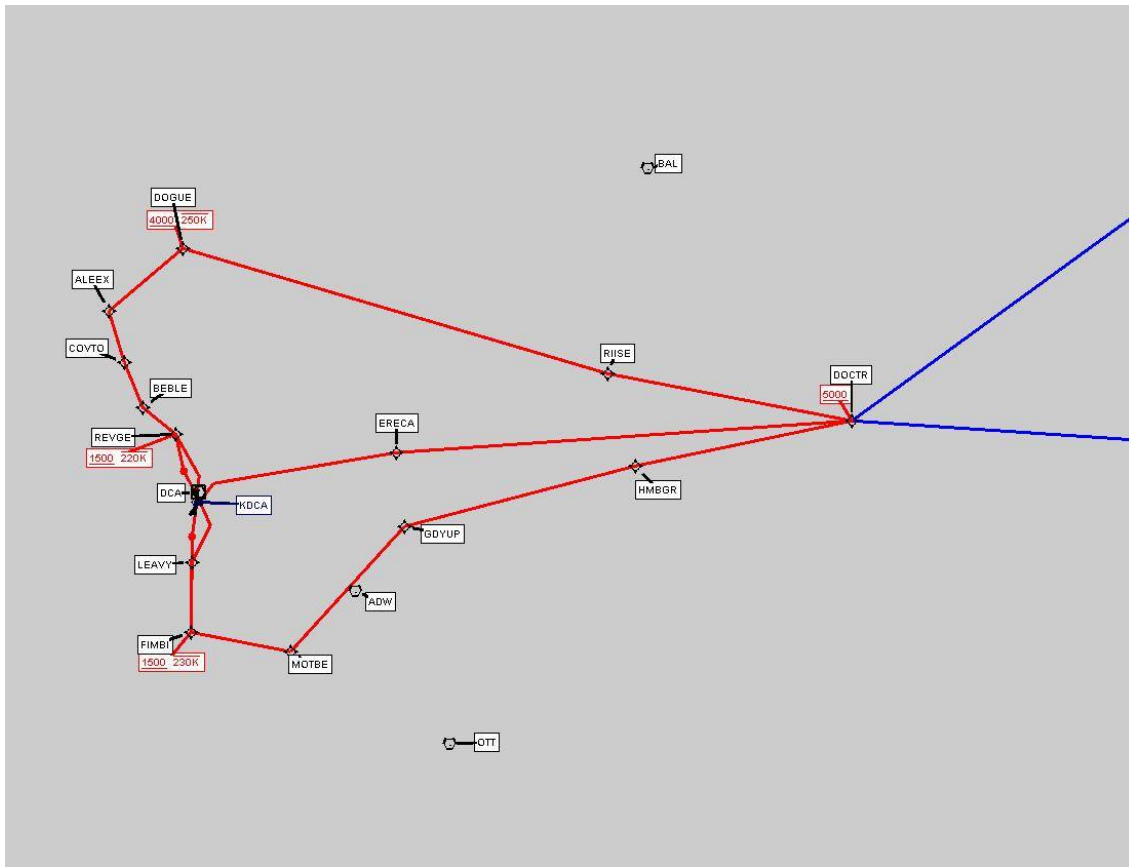
User DMEs

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	ADW FAA 880073-2 ADW [IFPA]	N38° 48' 25.990000000", W076° 51' 58.520000000"	10.0 W	40	278.9	113.1	ADW FAA 880073-2	
ESV:		Bearing [True]: 308.0° to 332.0° Bearing [Mag]: 318.0° to 342.0°				Arc Distance: Out to 53.0 NM Altitude: 3000.0 to 20000.0 ft		
2	EMI FAA 701388-8 EMI [IFPA]	N39° 29' 42.026600000", W076° 58' 42.859100000"	8.0 W	130	830.1	117.9	EMI FAA 701388-8	
ESV:		Bearing [True]: 102.0° to 162.0° Bearing [Mag]: 110.0° to 170.0°				Arc Distance: Out to 88.0 NM Altitude: 9900.0 to 17000.0 ft		
3	CSN FAA 682017-18 CSN [IFPA]	N38° 38' 28.327700000", W077° 51' 55.797900000"	6.0 W	130	441.8	116.3	CSN FAA 682017-18	
ESV:		Bearing [True]: 59.0° to 76.0° Bearing [Mag]: 65.0° to 82.0°				Arc Distance: Out to 97.0 NM Altitude: 10000.0 to 16000.0 ft		
4	ESVB SBY [IFPA] SBY [IFPA]	N38° 20' 42.020100000", W075° 30' 38.067400000"	12.0 W	40	52.5	111.2	ESVB SBY [IFPA]	
ESV:		Bearing [True]: 313.0° to 333.0° Bearing [Mag]: 325.0° to 345.0°				Arc Distance: Out to 65.0 NM Altitude: 7000.0 to 16000.0 ft		
5	SIE FAA 698170-26 SIE [IFPA]	N39° 05' 43.832400000", W074° 48' 01.238200000"	9.0 W	130	16.4	114.8	SIE FAA 698170-26	
ESV:		Bearing [True]: 260.0° to 288.0° Bearing [Mag]: 269.0° to 297.0°				Arc Distance: Out to 85.0 NM Altitude: 6900.0 to 16000.0 ft		
6	EMI FAA 701388-10 EMI [IFPA]	N39° 29' 42.026600000", W076° 58' 42.859100000"	8.0 W	130	830.1	117.9	EMI FAA 701388-10	
ESV:		Bearing [True]: 102.0° to 162.0° Bearing [Mag]: 110.0° to 170.0°				Arc Distance: Out to 115.0 NM Altitude: 9900.0 to 19000.0 ft		



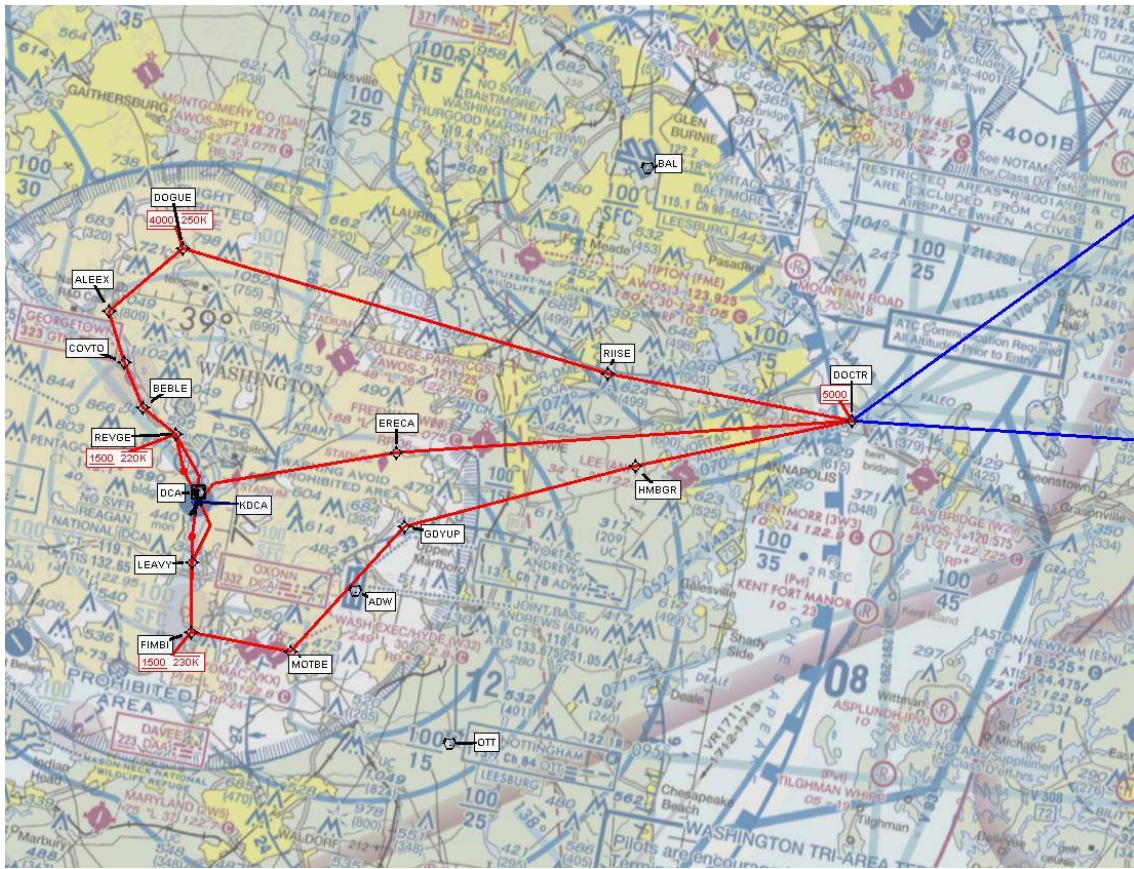
DME DME Assessment Results for DOCTR5 path KDCA:RW19:DER_FIMBI

Graphic Depiction 1



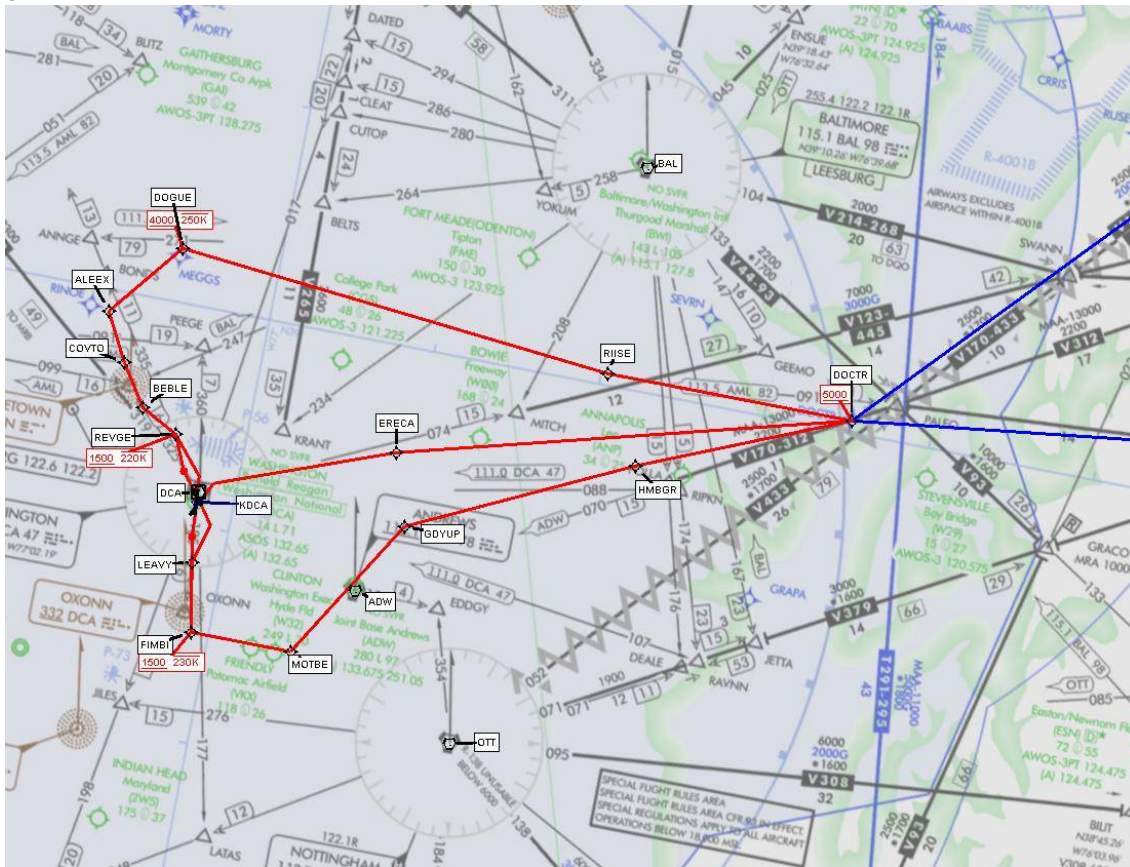
DME DME Assessment Results for DOCTR5 path KDCA:RW19:DER_FIMBI

Graphic Depiction 2



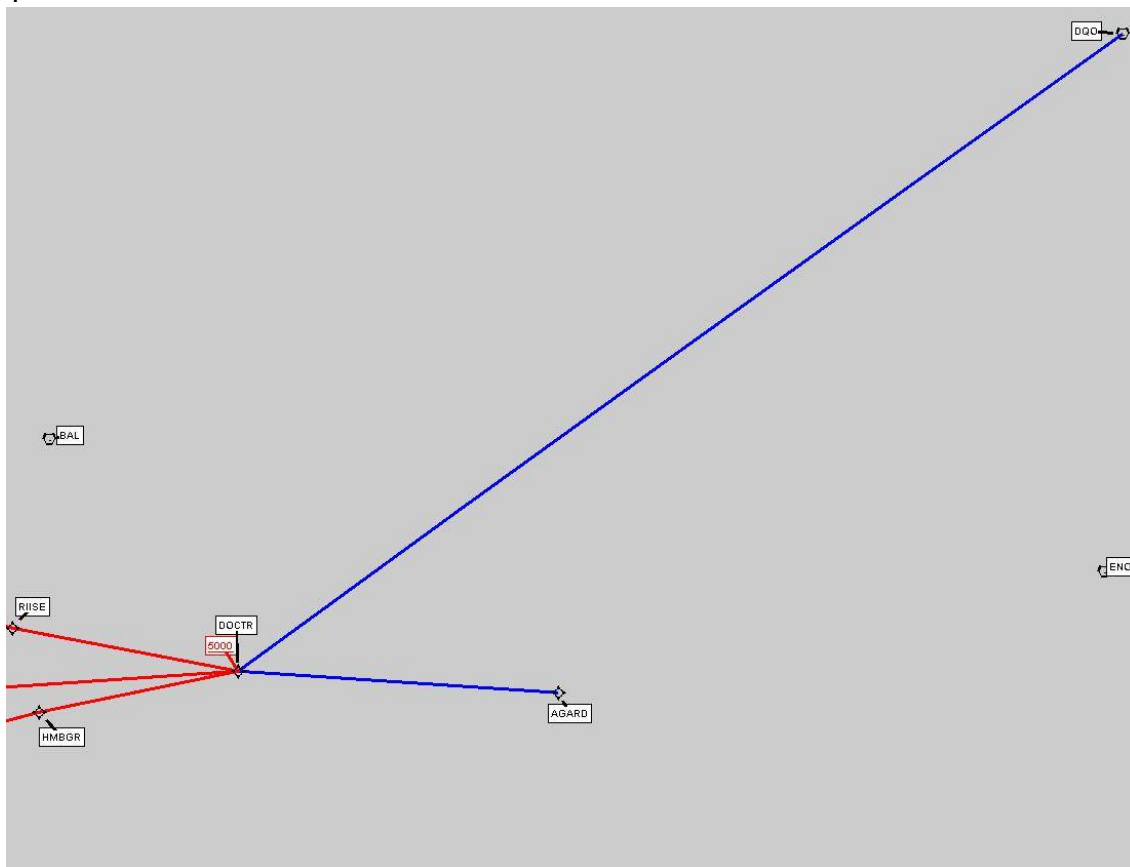
DME DME Assessment Results for DOCTR5 path KDCA:RW19:DER_FIMBI

Graphic Depiction 3



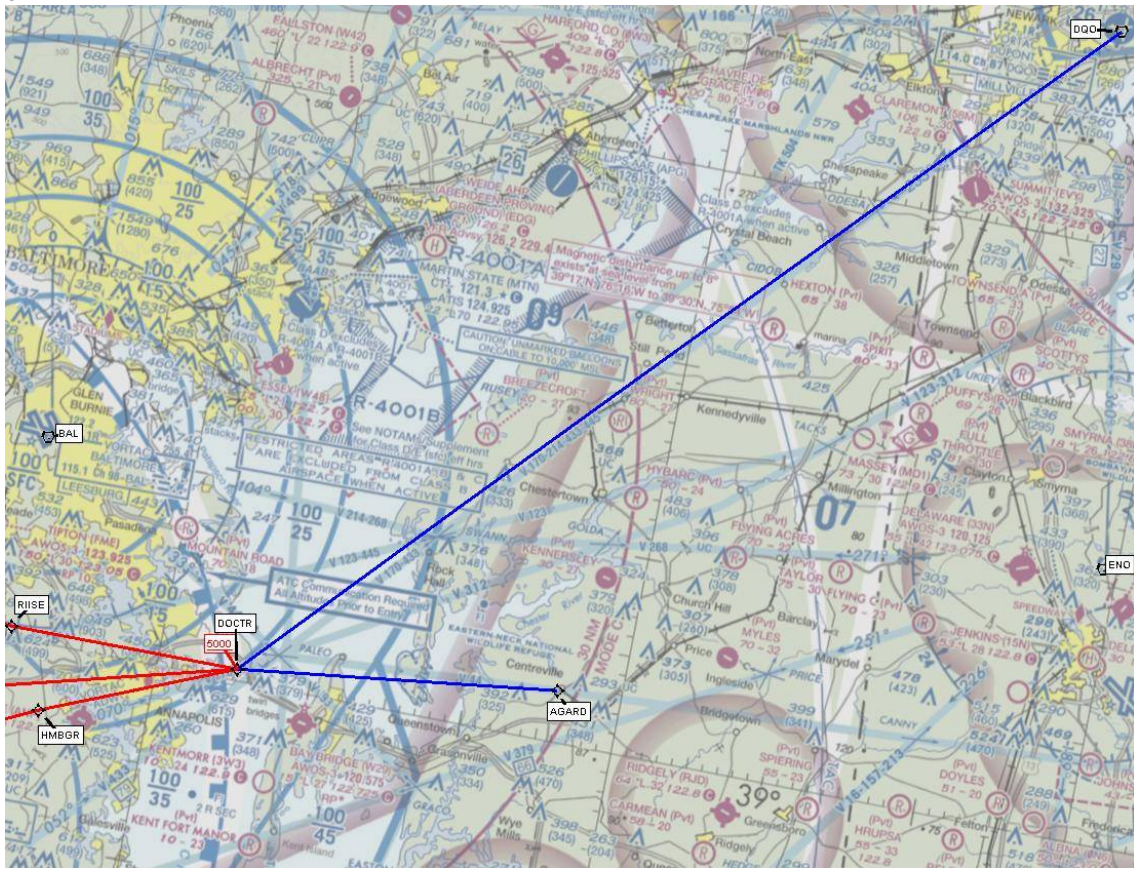
DME DME Assessment Results for DOCTR5 path KDCA:RW19:DER_FIMBI

Graphic Depiction 4

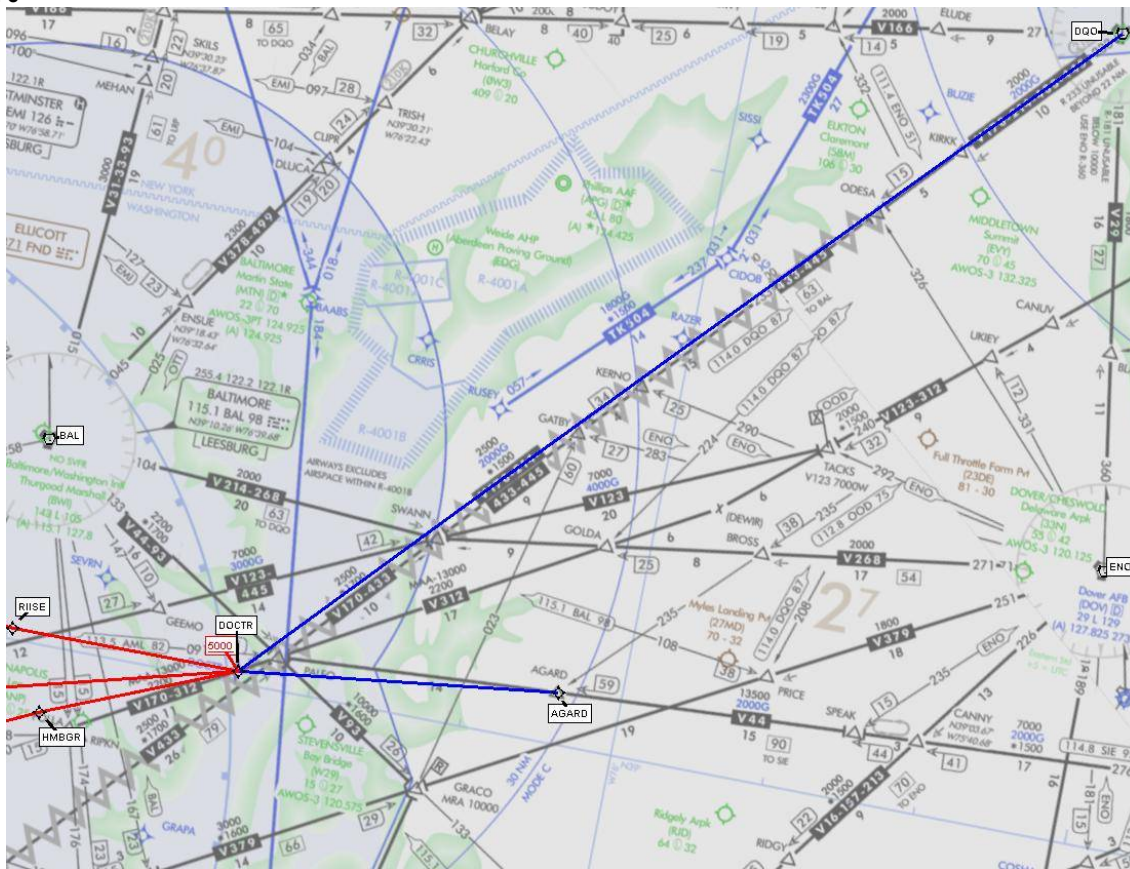


DME DME Assessment Results for DOCTR5 path KDCA:RW19:DER_FIMBI

Graphic Depiction 5

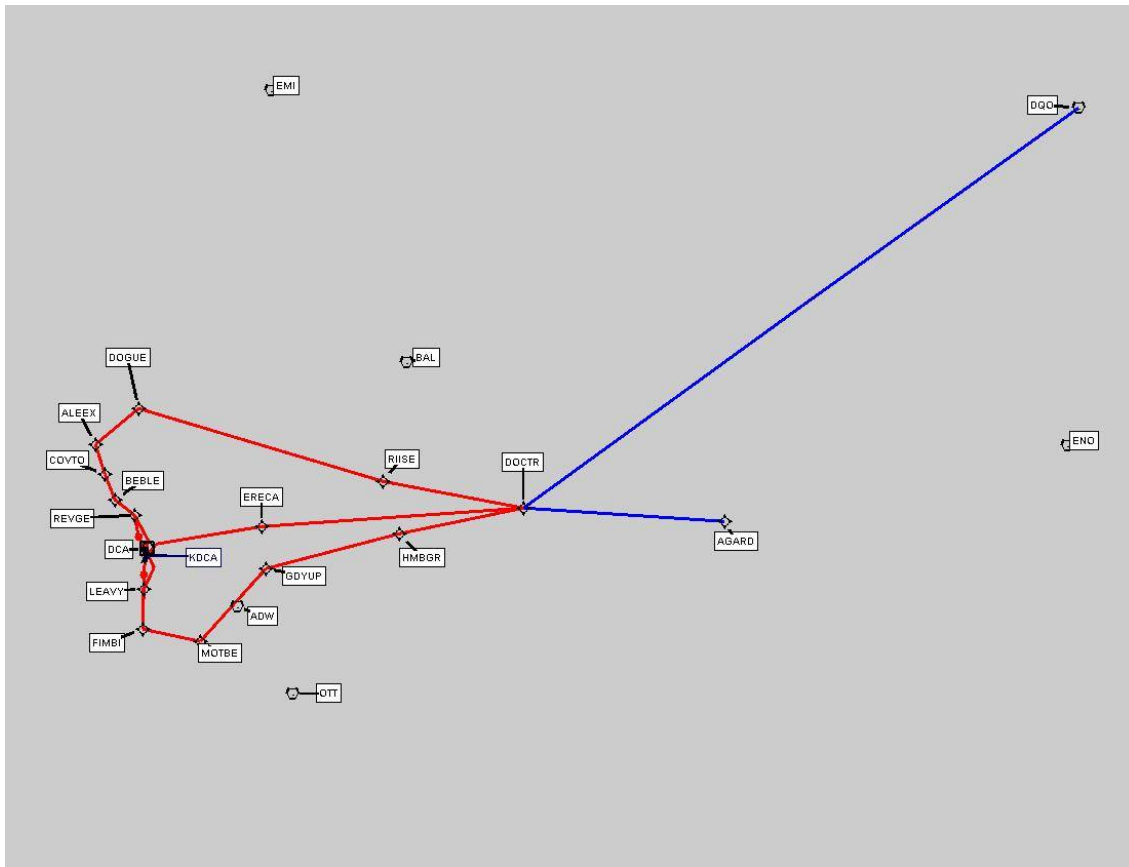


Graphic Depiction 6



DME DME Assessment Results for DOCTR5 path KDCA:RW19:DER_FIMBI

Graphic Depiction 7



DME DME Assessment Results for DOCTR5 path KDCA:RW33:DER_REVGE

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Robert CTR Mason
Project File:	C:\Users\Robert CTR Mason\Desktop\DCA SID AMENDMENTS with REVGE\DCA - DOCTR\DOCTR-DME\DOCTR - DME.tgs
Output File:	C:\Users\Robert CTR Mason\Desktop\DCA SID AMENDMENTS with REVGE\DCA - DOCTR\DOCTR-DME\KDCA [IFPA] DOCTR5 20191114_1025 EST\KDCA-RW33- DER_REVGE\KDCA DOCTR5 SID KDCA RW33 REVGE 20191114_1025 EST.pdf
Procedure Name:	DOCTR5
Software: DmeDmePlugin:	6.0.0
Date/Time:	11/14/2019 10:25 EST
Databases:	DTED.MAX

Failures

No Failures

Warnings

No Warnings

Notes For Flight Check

None

Flight Plan

Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
KDCA:RW33:DER	WP	N38° 51' 40.181200000", W077° 02' 35.869100000"	14	VNAV	130	FLY_OVER	TF
REVGE	WP	N38° 53' 59.460000000", W077° 04' 14.240000000"	1500	VNAV	220	FLY_BY	TF
Climb Gradient: 540.0 ft/NM up to 640.0 ft MSL 200.0 ft/NM							

Flyability

Flight Type:	SID
Selected Airport:	KDCA [IFPA]
Climb Gradient:	540.0 ft/NM up to 640.0 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 DOCTR5 path KDCA:RW33:DER_REVGE

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:	PXT

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	BAL	N39° 10' 15.828300000", W076° 39' 40.522500000"	11.0 W	40	L	IFPA	NO	Enabled	5 %	6.1 %
2	ADW	N38° 48' 25.990000000", W076° 51' 58.520000000"	10.0 W	40	L	IFPA	NO	Enabled	5 %	6.1 %
3	PXT	N38° 17' 16.282500000", W076° 24' 00.831500000"	10.0 W	40	L	IFPA	NO	Disabled		

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0						
2.0	BAL	ADW				
2.2						
2.3	BAL	ADW				
2.4						

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N38° 51' 41.884587399", W077° 02' 37.532417743"	N38° 53' 21.235470779", W077° 03' 52.055650586"	1.9297
2	N38° 53' 32.996996501", W077° 03' 58.880900652"	N38° 53' 41.818063733", W077° 04' 04.000248593"	0.1613

Available DMEs by Waypoints		
Waypoint Before	Waypoint After	DME List
KDCA:RW33:DER	REVGE	ADW, BAL

DME DME Assessment Results for DOCTR5 path KDCA:RW33:DER_REVGE

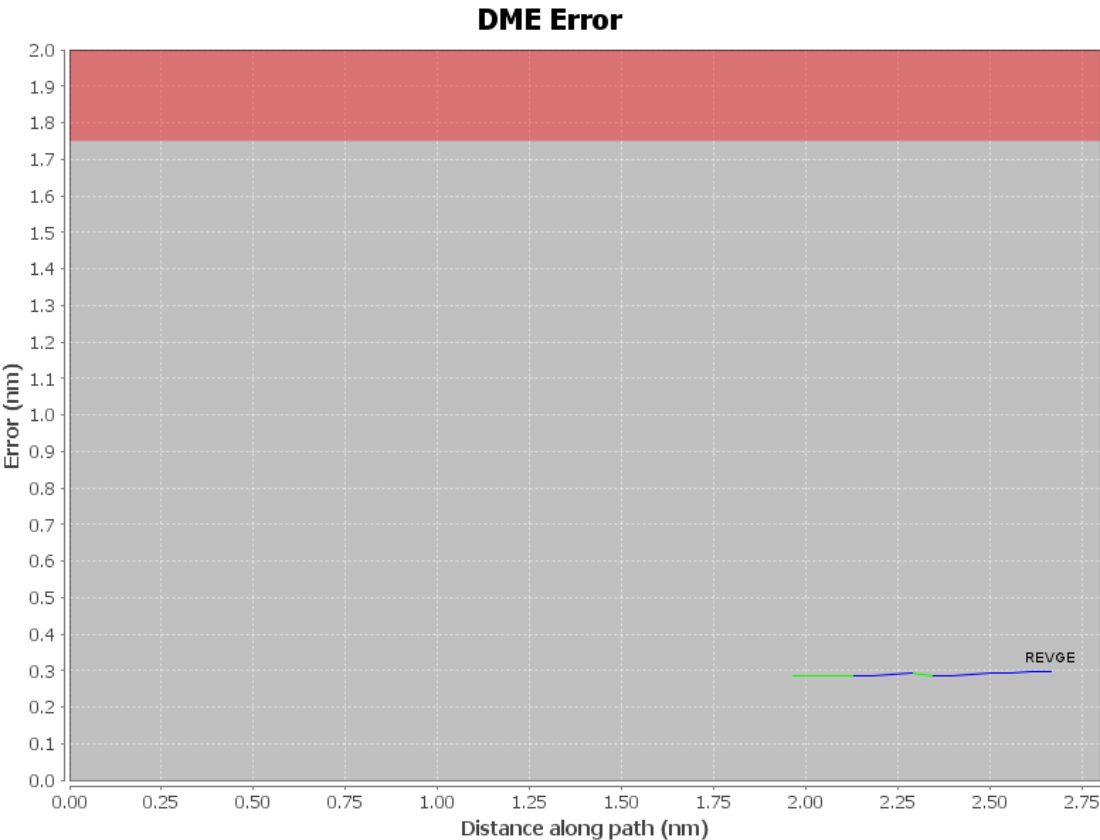
User Data Files

File Name

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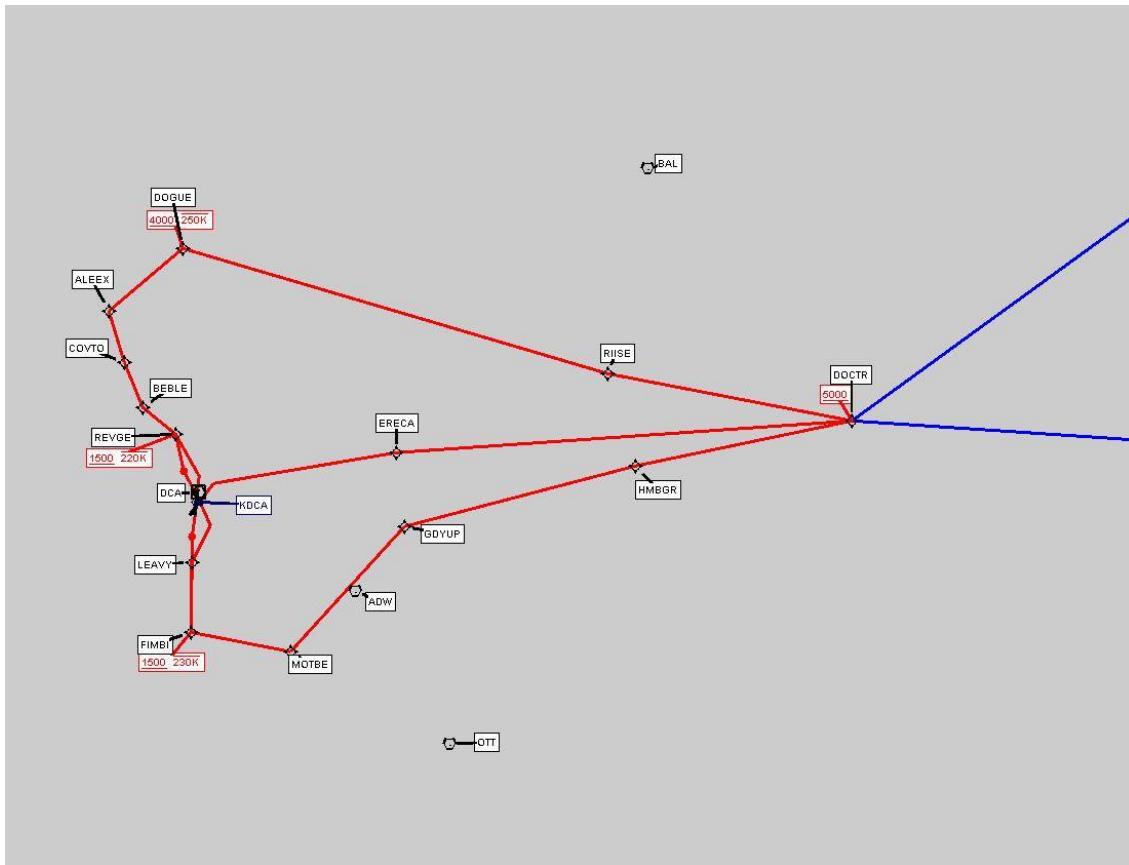
User DMEs

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	ADW FAA 880073-2 ADW [IFPA]	N38° 48' 25.990000000", W076° 51' 58.520000000"	10.0 W	40	278.9	113.1	ADW FAA 880073-2	
ESV:		Bearing [True]: 308.0° to 332.0° Bearing [Mag]: 318.0° to 342.0°				Arc Distance: Out to 53.0 NM Altitude: 3000.0 to 20000.0 ft		
2	EMI FAA 701388-8 EMI [IFPA]	N39° 29' 42.026600000", W076° 58' 42.859100000"	8.0 W	130	830.1	117.9	EMI FAA 701388-8	
ESV:		Bearing [True]: 102.0° to 162.0° Bearing [Mag]: 110.0° to 170.0°				Arc Distance: Out to 88.0 NM Altitude: 9900.0 to 17000.0 ft		
3	CSN FAA 682017-18 CSN [IFPA]	N38° 38' 28.327700000", W077° 51' 55.797900000"	6.0 W	130	441.8	116.3	CSN FAA 682017-18	
ESV:		Bearing [True]: 59.0° to 76.0° Bearing [Mag]: 65.0° to 82.0°				Arc Distance: Out to 97.0 NM Altitude: 10000.0 to 16000.0 ft		
4	ESVB SBY [IFPA] SBY [IFPA]	N38° 20' 42.020100000", W075° 30' 38.067400000"	12.0 W	40	52.5	111.2	ESVB SBY [IFPA]	
ESV:		Bearing [True]: 313.0° to 333.0° Bearing [Mag]: 325.0° to 345.0°				Arc Distance: Out to 65.0 NM Altitude: 7000.0 to 16000.0 ft		
5	SIE FAA 698170-26 SIE [IFPA]	N39° 05' 43.832400000", W074° 48' 01.238200000"	9.0 W	130	16.4	114.8	SIE FAA 698170-26	
ESV:		Bearing [True]: 260.0° to 288.0° Bearing [Mag]: 269.0° to 297.0°				Arc Distance: Out to 85.0 NM Altitude: 6900.0 to 16000.0 ft		
6	EMI FAA 701388-10 EMI [IFPA]	N39° 29' 42.026600000", W076° 58' 42.859100000"	8.0 W	130	830.1	117.9	EMI FAA 701388-10	
ESV:		Bearing [True]: 102.0° to 162.0° Bearing [Mag]: 110.0° to 170.0°				Arc Distance: Out to 115.0 NM Altitude: 9900.0 to 19000.0 ft		



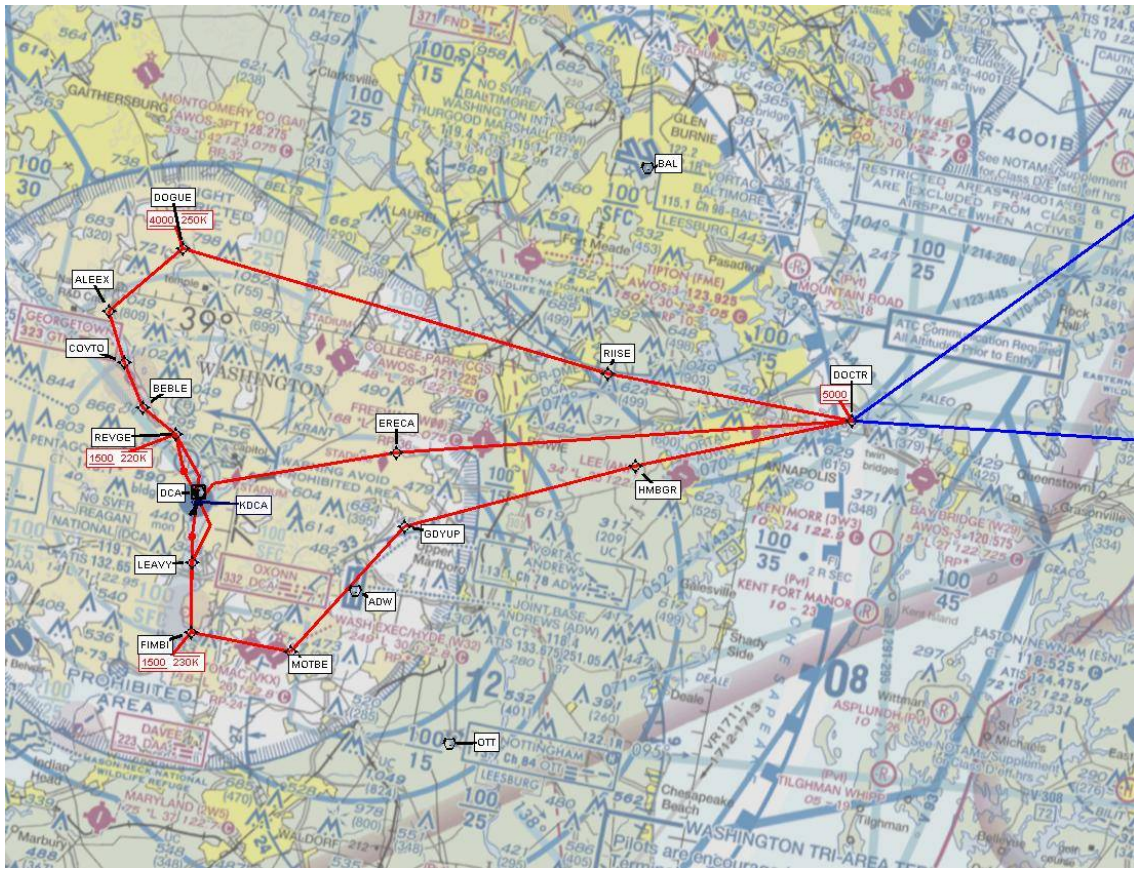
DME DME Assessment Results for DOCTR5 path KDCA:RW33:DER_REVGE

Graphic Depiction 1

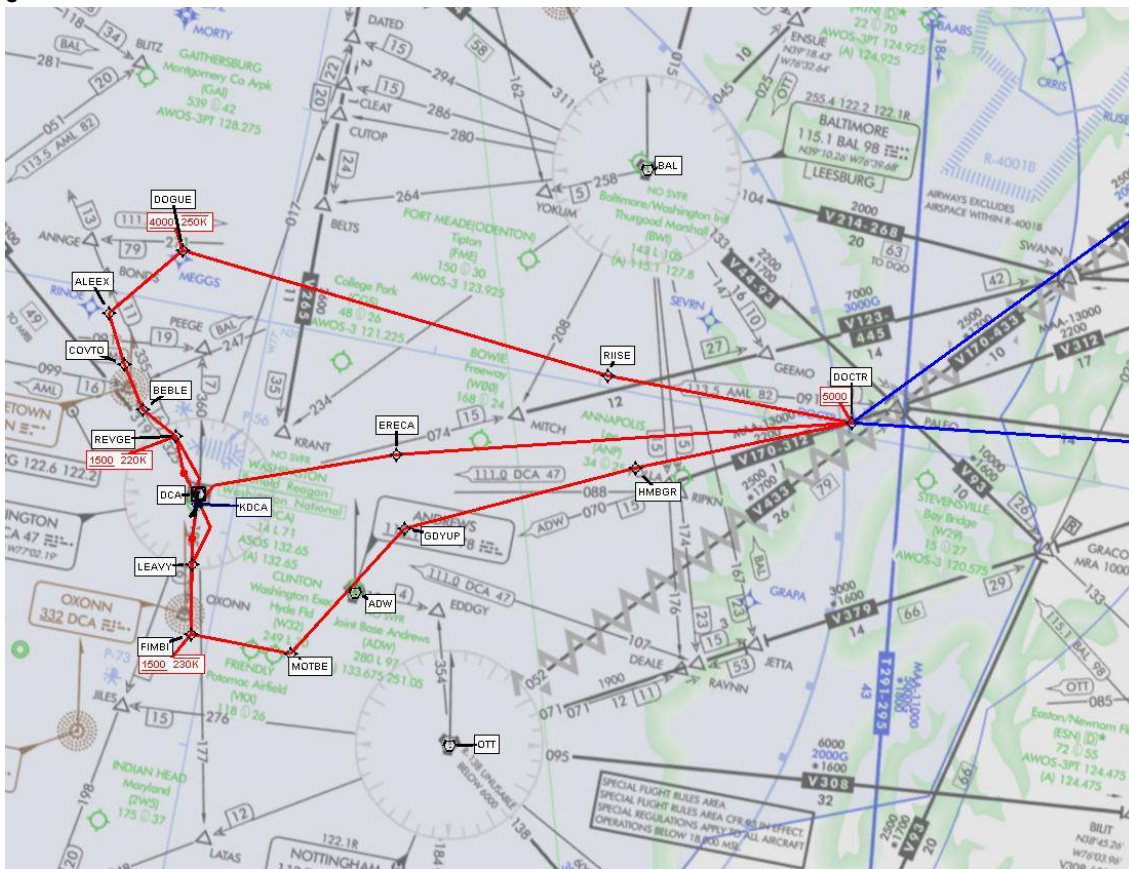


DME DME Assessment Results for DOCTR5 path KDCA:RW33:DER_REVGE

Graphic Depiction 2

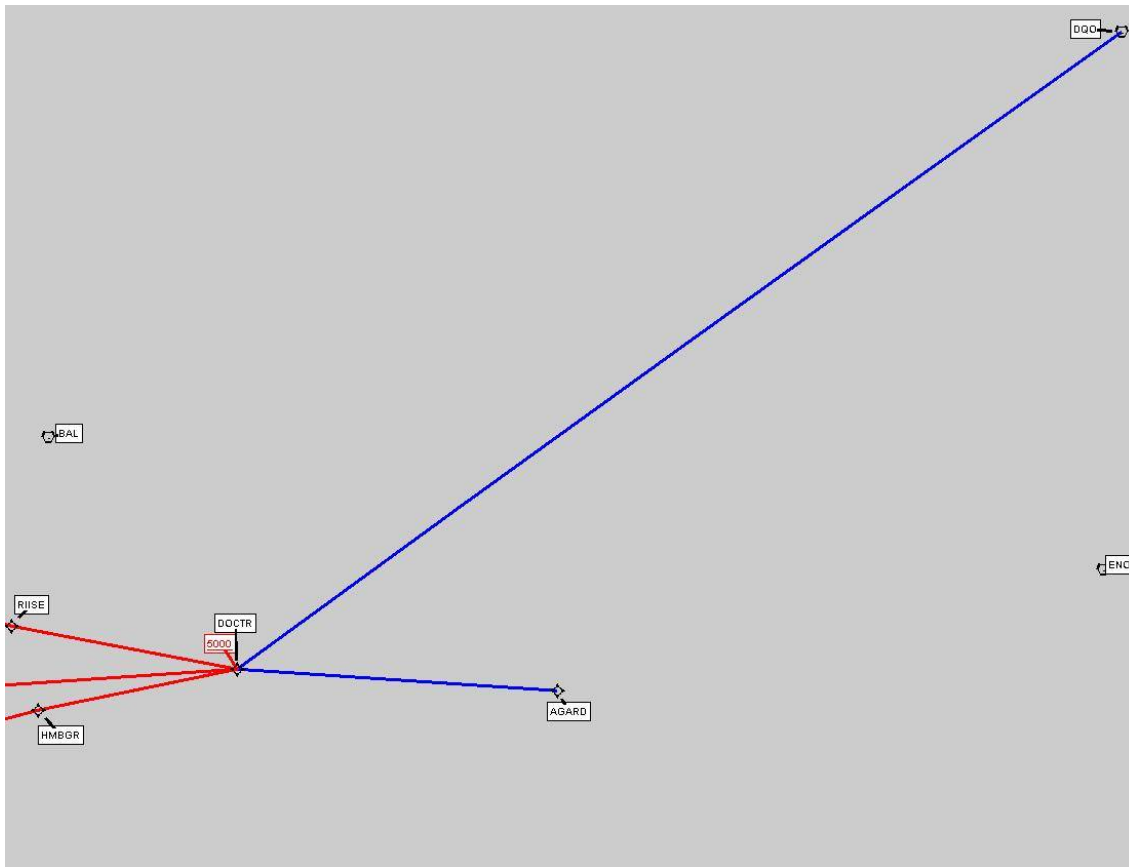


Graphic Depiction 3



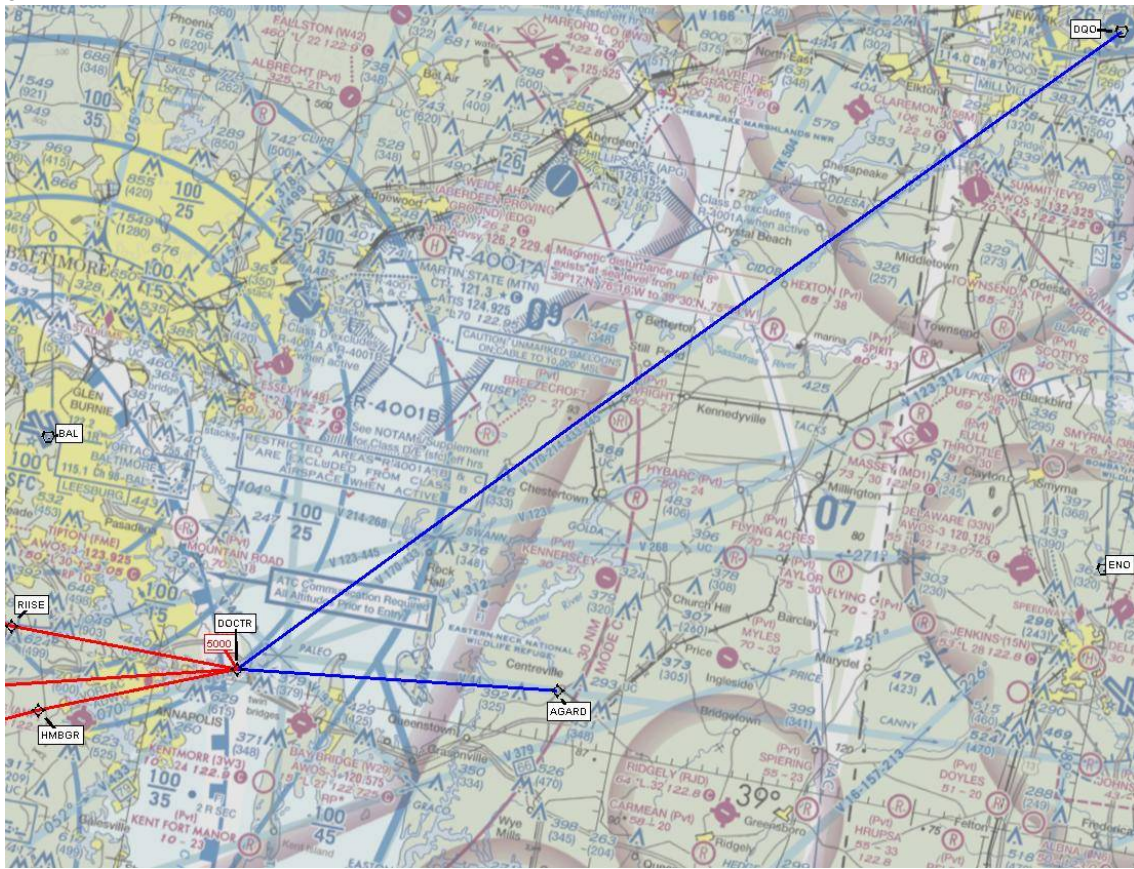
DME DME Assessment Results for DOCTR5 path KDCA:RW33:DER_REVGE

Graphic Depiction 4



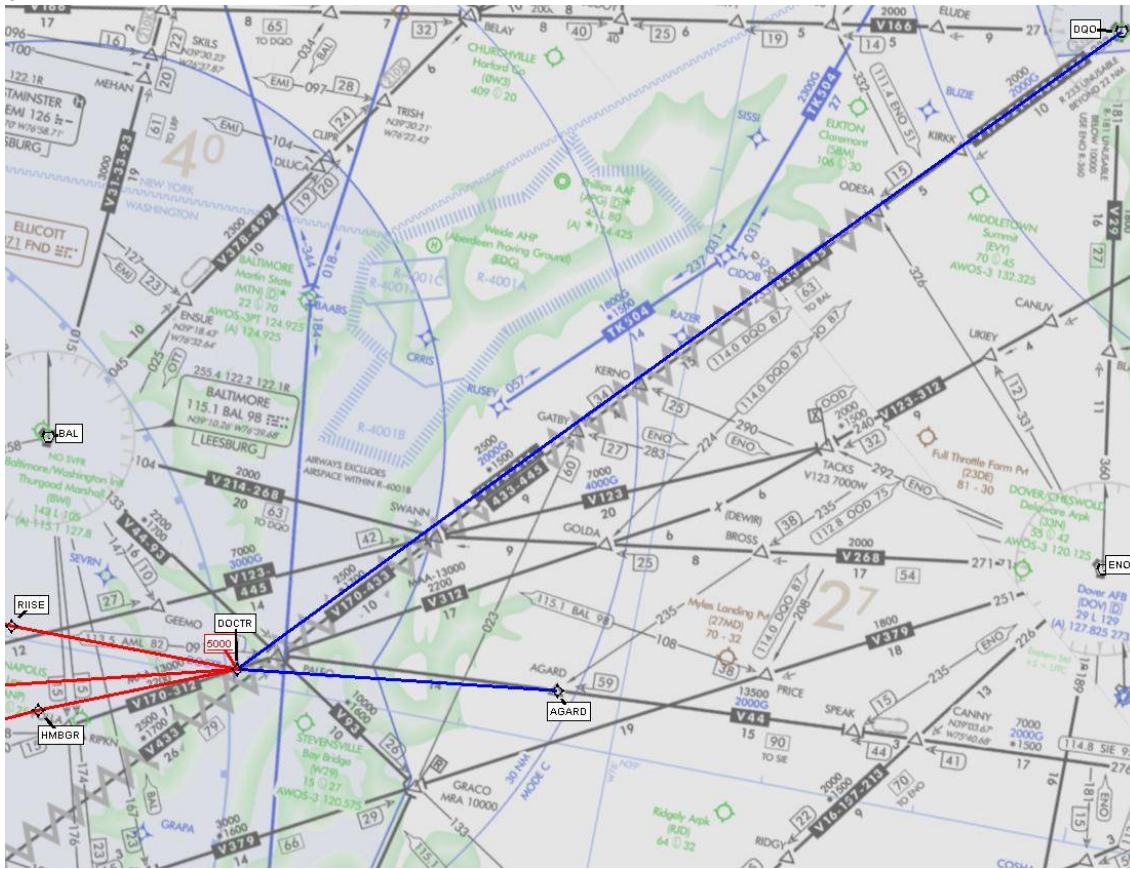
DME DME Assessment Results for DOCTR5 path KDCA:RW33:DER_REVG

Graphic Depiction 5



DME DME Assessment Results for DOCTR5 path KDCA:RW33:DER_REVG

Graphic Depiction 6



DME DME Assessment Results for DOCTR5 path KDCA:RW33:DER_REVGE

Graphic Depiction 7

