

DME ESVs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	MBS FAA 704119-19 MBS [IFPA]	N43° 31' 53.93", W084° 04' 38.29"	3.0 W	40	663	112.9	MBS FAA 704119-19	
	Restriction:	Bearing [True]: 192.0° to 197.0° Bearing [Mag]: 195.0° to 200.0°				Distance: Beyond 25.0 NM Altitude: Below 99999.0 ft		
	ESV:	Bearing [True]: 129.0° to 179.0° Bearing [Mag]: 132.0° to 182.0°				Arc Distance: Out to 57.0 NM Altitude: 3200.0 to 20000.0 ft		

## DME DME Assessment Results for TRMML4 path KDTW:RW03L:DER\_DCATS

### Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Jose G-CTR Medina
Project File:	C:\Users\Jose G-CTR Medina\OneDrive - Federal Aviation Administration\Documents\01. Projects\DME EVALUATIONS\KDTW 20230125\DME Screens\Submitted\New DMEs\Possible solutions\KDTW TRMLL DME\KDTW TRMML4 DME(2) 20240105.tgs
Output File:	C:\Users\Jose G-CTR Medina\OneDrive - Federal Aviation Administration\Documents\01. Projects\DME EVALUATIONS\KDTW 20230125\DME Screens\Submitted\New DMEs\Possible solutions\KDTW TRMLL DME\KDTW [IFPA] TRMML4 20240116_0706 CST\KDTW-RW03L- DER_DCATS\KDTW TRMML4 SID RW03L DCATS 20240116_0706 CST.pdf
Procedure Name:	TRMML4
Software: DmeDmePlugin:	7.2.1
Date/Time:	01/16/2024 07:06 CST
Databases:	DTED LEVEL 0 MAX

### 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
KDTW:RW03L:DER	WP	N42° 13' 41.8586", W083° 20' 10.1070"	631.4	VNAV	130	FLY_OVER	TF
DCATS	WP	N42° 27' 12.0000", W083° 10' 09.1700"	3000	VNAV	200	FLY_BY	TF

Climb Gradient:  
500.0 ft/NM up to 1146.0 ft MSL  
200.0 ft/NM

### Flyability

Flight Type:	SID
Selected Airport:	KDTW [IFPA]
Climb Gradient:	500.0 ft/NM up to 1146.0 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 TRMML4 path KDTW:RW03L:DER\_DCATS**

<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	PSI	N42° 42' 03.0947", W083° 31' 57.9835"	-0.0 E	40	L	IFPA	NO	Enabled	72.2 %	75.9 %
2	DXO	N42° 12' 47.2904", W083° 21' 59.9878"	6.0 W	130	H	IFPA	NO	Enabled	79.9 %	82.6 %
3	CRL	N42° 02' 52.8956", W083° 27' 27.2625"	3.0 W	130	DH	IFPA	NO	Enabled	91.9 %	93.3 %
4	SVM	N42° 24' 31.1055", W083° 35' 38.0455"	3.0 W	40	L	IFPA	NO	Enabled	52.6 %	52.7 %

<b>Flight Check DME Selection</b>						
Distance [NM]	Selected DMEs					Alternate
0.0						
1.0	SVM	CRL				
1.6	SVM	DXO	CRL			
3.7	SVM	CRL	DXO	PSI		
5.8	PSI	CRL				
6.9	PSI	DXO	CRL			
12.0	PSI	DXO	CRL	SVM		

<b>Inertial Drift Segments</b>			
#	Start Location	End Location	Length [NM]
1	N42° 13' 43.7266", W083° 20' 08.7298"	N42° 14' 36.0301", W083° 19' 30.1576"	0.9937

<b>Available DMEs by Waypoints</b>			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
KDTW:RW03L:DER	DCATS	PSI, DXO, SVM, CRL	

**DME DME Assessment Results for TRMML4 path KDTW:RW03L:DER\_DCATS**

**User Data Files**

#	File Name
None	

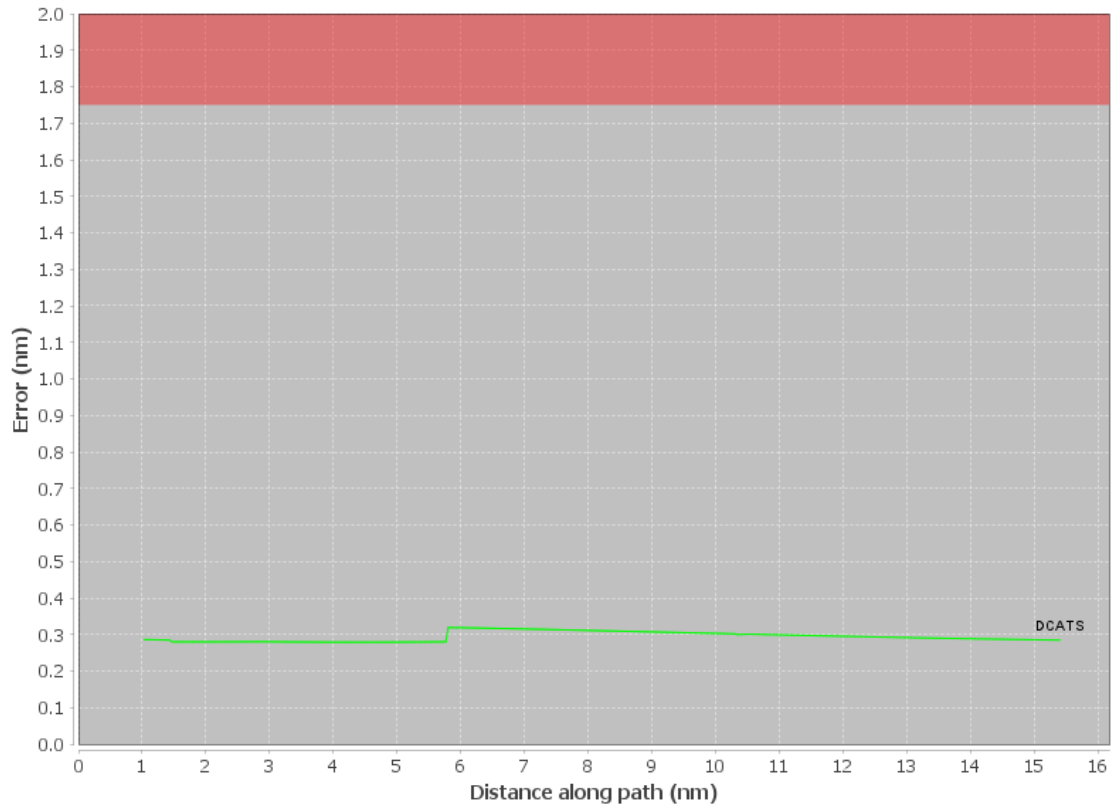
None

**User DMEs**

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	MBS FAA 704119-19 MBS [IFPA]	N43° 31' 53.9337", W084° 04' 38.2910"	3.0 W	40	663	112.9	MBS FAA 704119-19	
ESV:		Bearing [True]: 129.0° to 179.0° Bearing [Mag]: 132.0° to 182.0°				Arc Distance: Out to 57.0 NM Altitude: 3200.0 to 20000.0 ft		

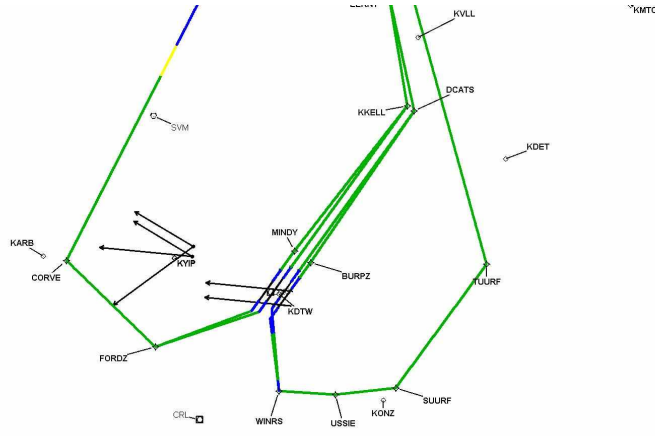
DME DME Assessment Results for TRMML4 path KDTW:RW03L:DER\_DCATS

DME Error



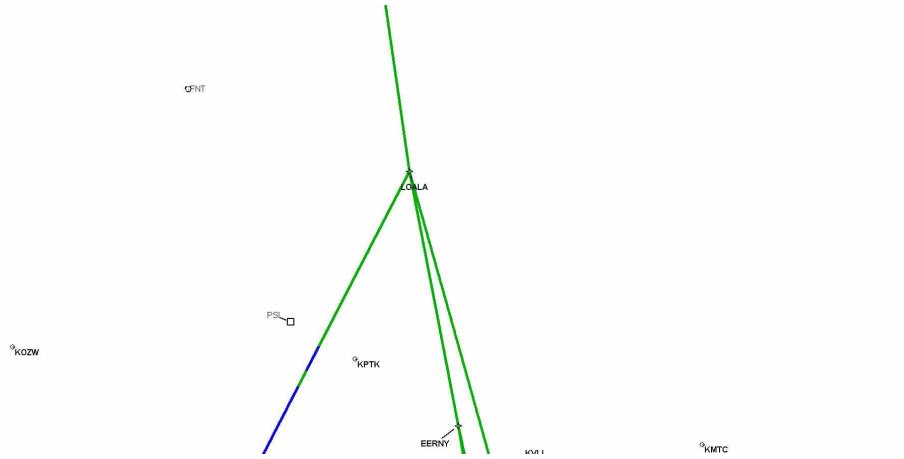
# DME DME Assessment Results for TRMML4 path KDTW:RW03L:DER\_DCATS

Graphic Depiction 1



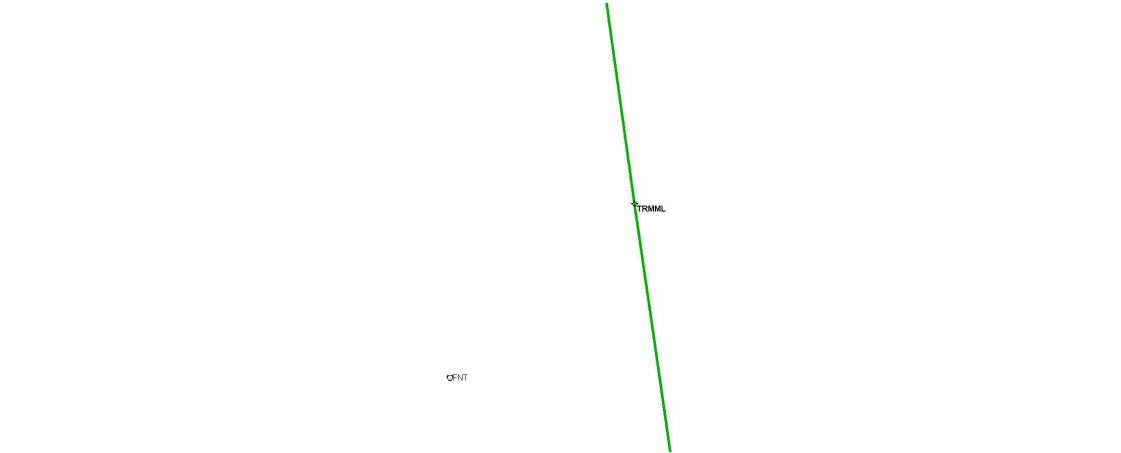
# DME DME Assessment Results for TRMML4 path KDTW:RW03L:DER\_DCATS

Graphic Depiction 2



DME DME Assessment Results for TRMML4 path KDTW:RW03L:DER\_DCATS

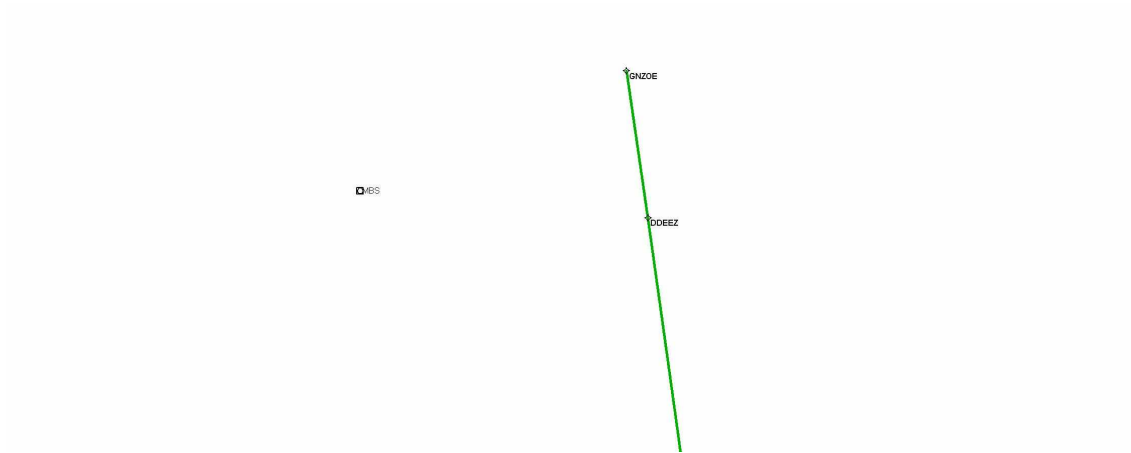
Graphic Depiction 3





# DME DME Assessment Results for TRMML4 path KDTW:RW03L:DER\_DCATS

Graphic Depiction 4



**DME DME Assessment Results for TRMML4 path KDTW:RW03R:DER\_LOALA**

<b>Results Summary</b>	
Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Jose G-CTR Medina
Project File:	C:\Users\Jose G-CTR Medina\OneDrive - Federal Aviation Administration\Documents\01. Projects\DME EVALUATIONS\KDTW 20230125\DME Screens\Submitted\New DMEs\Possible solutions\KDTW TRMLL DME\KDTW TRMML4 DME(2) 20240105.tgs
Output File:	C:\Users\Jose G-CTR Medina\OneDrive - Federal Aviation Administration\Documents\01. Projects\DME EVALUATIONS\KDTW 20230125\DME Screens\Submitted\New DMEs\Possible solutions\KDTW TRMLL DME\KDTW [IFPA] TRMML4 20240116_0706 CST\KDTW-RW03R- DER_LOALA\KDTW TRMML4 SID RW03R LOALA 20240116_0706 CST.pdf
Procedure Name:	TRMML4
Software: DmeDmePlugin:	7.2.1
Date/Time:	01/16/2024 07:06 CST
Databases:	DTED LEVEL 0 MAX

<b>Failures</b>
No Failures

<b>Warnings</b>
No Warnings

<b>Informational</b>
No Informational

<b>Notes For Flight Check</b>
None

<b>Flight Plan</b>							
Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
KDTW:RW03R:DER	WP	N42° 13' 10.8552", W083° 20' 02.6517"	631.8	VNAV	130	FLY_OVER	TF
BURPZ	WP	N42° 15' 17.6900", W083° 18' 29.1000"	1422.3	VNAV	200	FLY_BY	TF
DCATS	WP	N42° 27' 12.0000", W083° 10' 09.1700"	3000	VNAV	200	FLY_BY	TF
EERNY	WP	N42° 36' 00.3700", W083° 14' 17.9800"	3000	VNAV	200	FLY_BY	TF
LOALA	WP	N42° 54' 01.3200", W083° 22' 08.6200"	3000	VNAV	200	FLY_BY	TF

Climb Gradient:  
500.0 ft/NM up to 1146.0 ft MSL  
200.0 ft/NM

<b>Flyability</b>	
Flight Type:	SID
Selected Airport:	KDTW [IFPA]
Climb Gradient:	500.0 ft/NM up to 1146.0 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 TRMML4 path KDTW:RW03R:DER\_LOALA**

<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	PSI	N42° 42' 03.0947", W083° 31' 57.9835"	-0.0 E	40	L	IFPA	NO	Enabled	89.8 %	91.3 %
2	DXO	N42° 12' 47.2904", W083° 21' 59.9878"	6.0 W	130	H	IFPA	NO	Enabled	86.2 %	87.5 %
3	CRL	N42° 02' 52.8956", W083° 27' 27.2625"	3.0 W	130	DH	IFPA	NO	Enabled	88.9 %	89.9 %
4	SVM	N42° 24' 31.1055", W083° 35' 38.0455"	3.0 W	40	L	IFPA	NO	Enabled	82.7 %	83.6 %
5	FNT	N42° 58' 00.3594", W083° 44' 49.1561"	6.0 W	130	H	IFPA	NO	Enabled	32.7 %	33.2 %

<b>Flight Check DME Selection</b>						
Distance [NM]	Selected DMEs					Alternate
0.0						
1.0	SVM	CRL				
1.8	SVM	CRL	DXO			
3.9	SVM	CRL	DXO	PSI		
6.2	PSI	CRL				
7.0	PSI	DXO	CRL			
12.4	PSI	DXO	CRL	SVM		
29.4	PSI	DXO	SVM	FNT	CRL	
40.7	SVM	FNT	DXO	PSI		
41.2	SVM	FNT	PSI			

<b>Inertial Drift Segments</b>			
#	Start Location	End Location	Length [NM]
1	N42° 13' 12.7219", W083° 20' 01.2758"	N42° 14' 04.9862", W083° 19' 22.7426"	0.9929

**DME DME Assessment Results for TRMML4 path KDTW:RW03R:DER\_LOALA**

**Available DMEs by Waypoints**

Waypoint Before	Waypoint After	DME List	Suggested DMEs
KDTW:RW03R:DER	BURPZ	DXO, SVM, CRL	
BURPZ	DCATS	PSI, DXO, SVM, CRL	
DCATS	EERNY	PSI, DXO, SVM, CRL	
EERNY	LOALA	PSI, DXO, SVM, CRL, FNT	

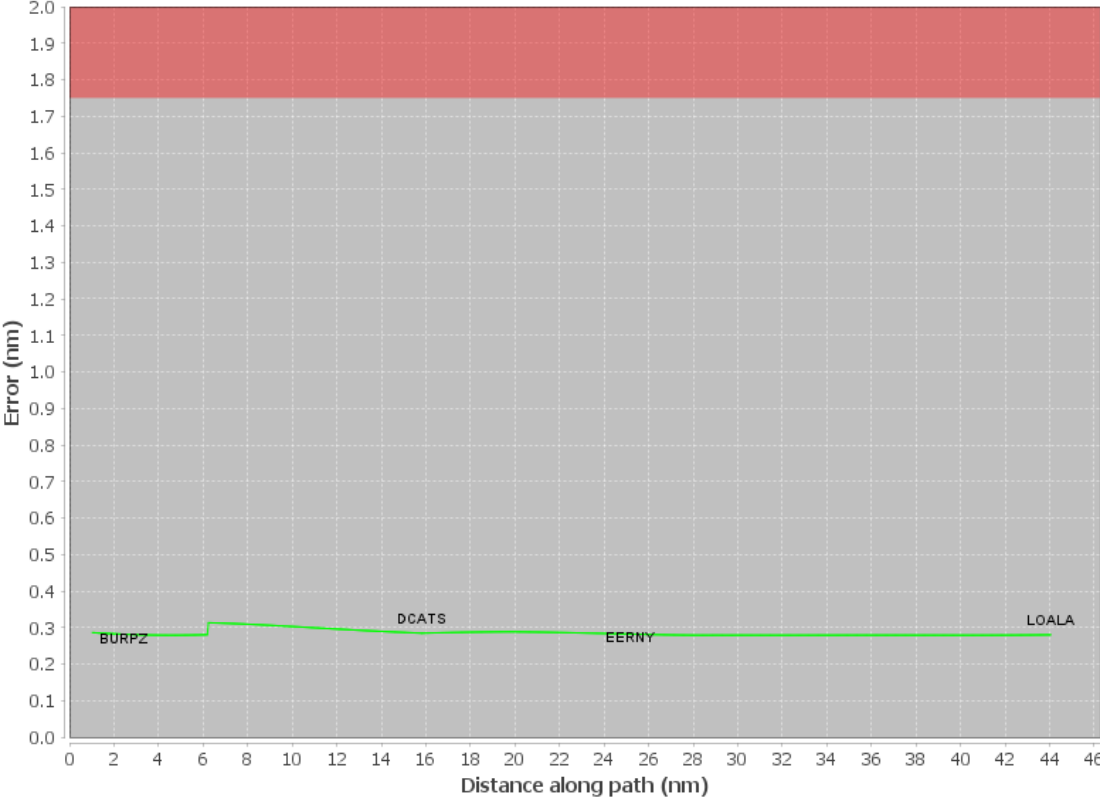
**User Data Files**

#	File Name
	None

**User DMEs**

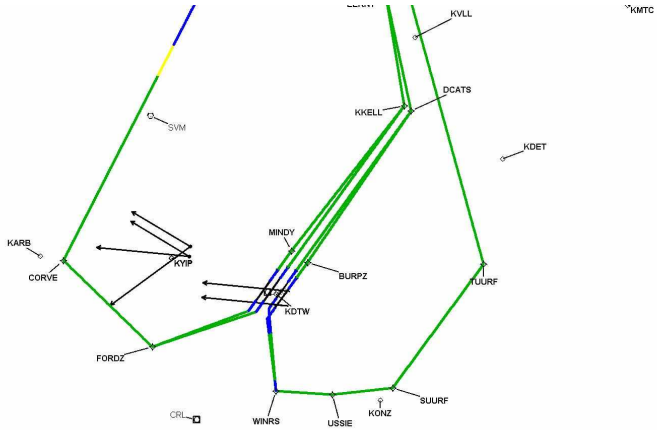
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	MBS FAA 704119-19 MBS [IFPA]	N43° 31' 53.9337", W084° 04' 38.2910"	3.0 W	40	663	112.9	MBS FAA 704119-19	
	ESV:	Bearing [True]: 129.0° to 179.0° Bearing [Mag]: 132.0° to 182.0°				Arc Distance: Out to 57.0 NM Altitude: 3200.0 to 20000.0 ft		

DME Error



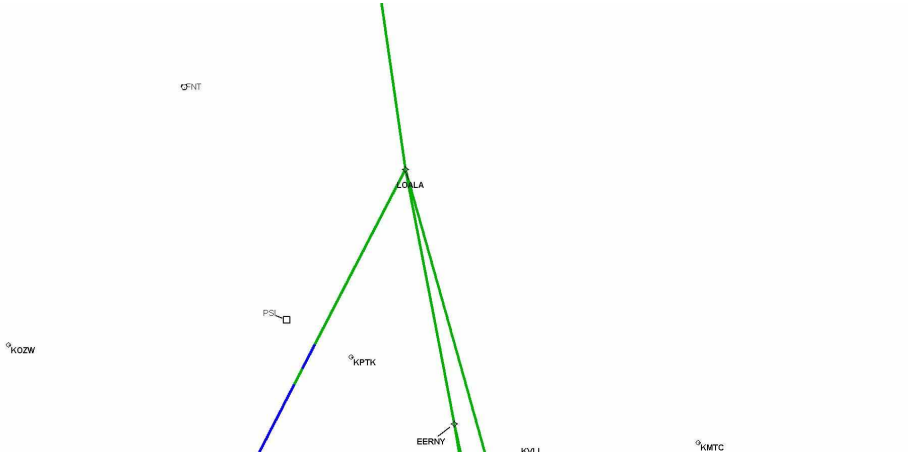
DME DME Assessment Results for TRMML4 path KDTW:RW03R:DER\_LOALA

Graphic Depiction 1



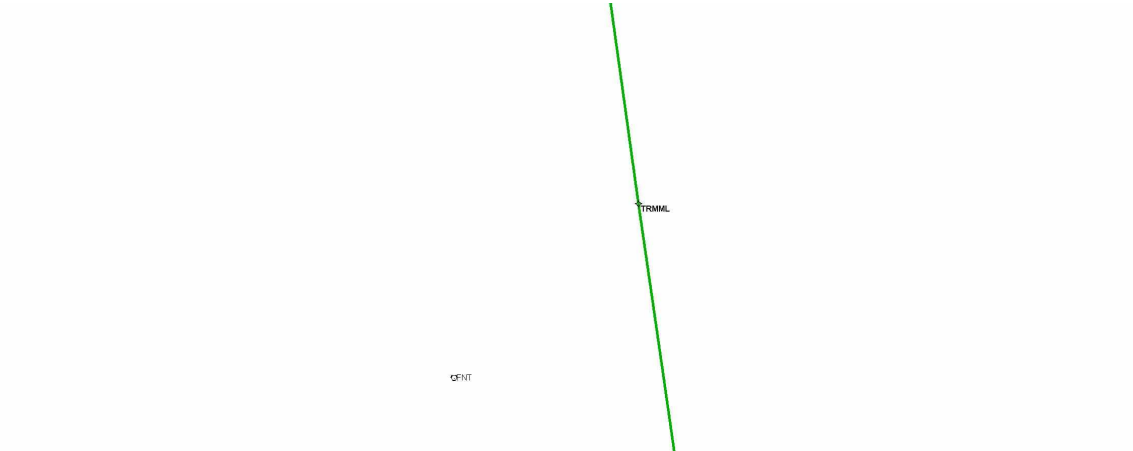
DME DME Assessment Results for TRMML4 path KDTW:RW03R:DER\_LOALA

Graphic Depiction 2



DME DME Assessment Results for TRMML4 path KDTW:RW03R:DER\_LOALA

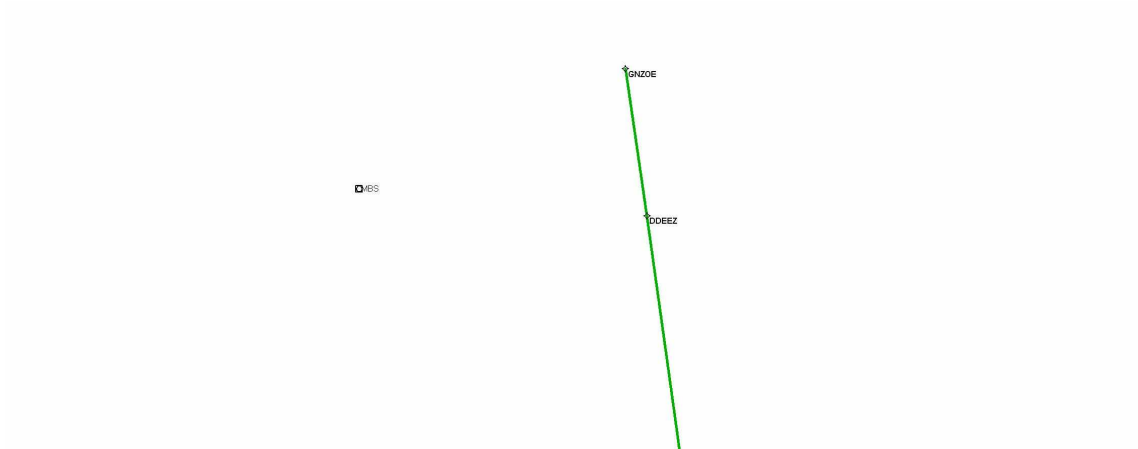
Graphic Depiction 3





DME DME Assessment Results for TRMML4 path KDTW:RW03R:DER\_LOALA

Graphic Depiction 4



## DME DME Assessment Results for TRMML4 path KDTW:RW04L:DER\_EERNY

Results Summary	
Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Jose G-CTR Medina
Project File:	C:\Users\Jose G-CTR Medina\OneDrive - Federal Aviation Administration\Documents\01. Projects\DME EVALUATIONS\KDTW 20230125\DME Screens\Submitted\New DMEs\Possible solutions\KDTW TRMLL DME\KDTW TRMML4 DME(2) 20240105.tgs
Output File:	C:\Users\Jose G-CTR Medina\OneDrive - Federal Aviation Administration\Documents\01. Projects\DME EVALUATIONS\KDTW 20230125\DME Screens\Submitted\New DMEs\Possible solutions\KDTW TRMLL DME\KDTW [IFPA] TRMML4 20240116_0706 CST\KDTW-RW04L- DER_EERNY\KDTW TRMML4 SID RW04L EERNY 20240116_0706 CST.pdf
Procedure Name:	TRMML4
Software: DmeDmePlugin:	7.2.1
Date/Time:	01/16/2024 07:06 CST
Databases:	DTED LEVEL 0 MAX

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
KDTW:RW04L:DER	WP	N42° 13' 34.4821", W083° 21' 58.6115"	642.1	VNAV	130	FLY_OVER	TF
MINDY	WP	N42° 15' 59.4700", W083° 20' 11.7800"	1495.2	VNAV	200	FLY_BY	TF
KKELL	WP	N42° 27' 30.4800", W083° 10' 53.3400"	3000	VNAV	200	FLY_BY	TF
EERNY	WP	N42° 36' 00.3700", W083° 14' 17.9800"	3000	VNAV	200	FLY_BY	TF
Climb Gradient: 500.0 ft/NM up to 1146.0 ft MSL 200.0 ft/NM							

Flyability	
Flight Type:	SID
Selected Airport:	KDTW [IFPA]
Climb Gradient:	500.0 ft/NM up to 1146.0 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 TRMML4 path KDTW:RW04L:DER\_EERNY**

<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	PSI	N42° 42' 03.0947", W083° 31' 57.9835"	-0.0 E	40	L	IFPA	NO	Enabled	82.9 %	85.5 %
2	DXO	N42° 12' 47.2904", W083° 21' 59.9878"	6.0 W	130	H	IFPA	NO	Enabled	78.4 %	80.8 %
3	CRL	N42° 02' 52.8956", W083° 27' 27.2625"	3.0 W	130	DH	IFPA	NO	Enabled	94.4 %	96.1 %
4	SVM	N42° 24' 31.1055", W083° 35' 38.0455"	3.0 W	40	L	IFPA	NO	Enabled	72.6 %	73.6 %

<b>Flight Check DME Selection</b>					
Distance [NM]	Selected DMEs				Alternate
0.0					
1.0	SVM	CRL			
2.9	SVM	DXO	CRL		
3.6	SVM	DXO	CRL	PSI	
7.1	PSI	CRL			
9.0	PSI	DXO	CRL		
12.6	PSI	DXO	SVM	CRL	

<b>Inertial Drift Segments</b>			
#	Start Location	End Location	Length [NM]
1	N42° 13' 36.3771", W083° 21' 57.2160"	N42° 14' 25.6460", W083° 21' 20.9240"	0.9358

<b>Available DMEs by Waypoints</b>			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
KDTW:RW04L:DER	MINDY	SVM, CRL	
MINDY	KKELL	PSI, DXO, SVM, CRL	
KKELL	EERNY	PSI, DXO, SVM, CRL	

**DME DME Assessment Results for TRMML4 path KDTW:RW04L:DER\_EERNY**

**User Data Files**

#	File Name
None	

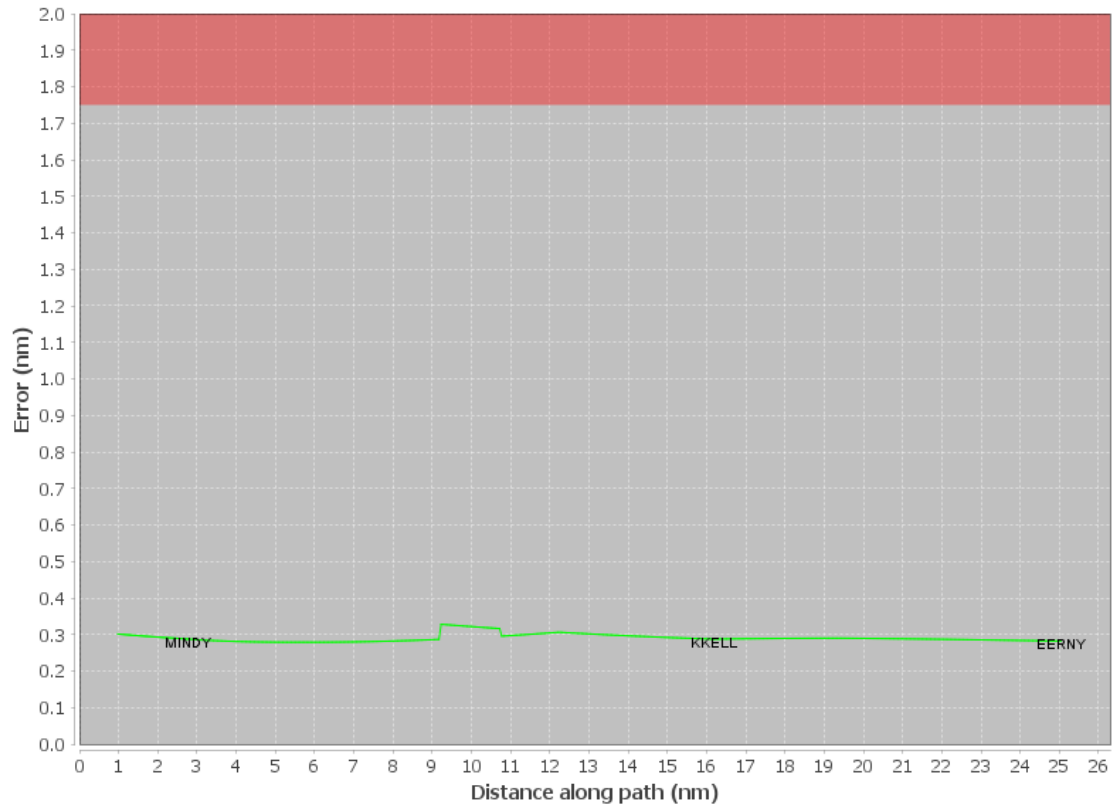
None

**User DMEs**

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	MBS FAA 704119-19 MBS [IFPA]	N43° 31' 53.9337", W084° 04' 38.2910"	3.0 W	40	663	112.9	MBS FAA 704119-19	
ESV:		Bearing [True]: 129.0° to 179.0° Bearing [Mag]: 132.0° to 182.0°				Arc Distance: Out to 57.0 NM Altitude: 3200.0 to 20000.0 ft		

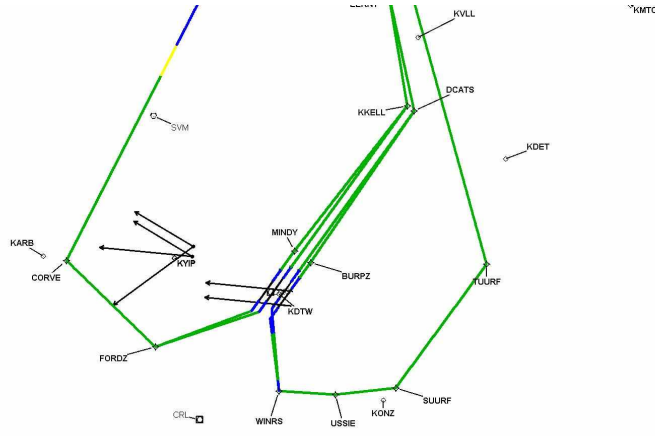
# DME DME Assessment Results for TRMML4 path KDTW:RW04L:DER\_EERNY

## DME Error



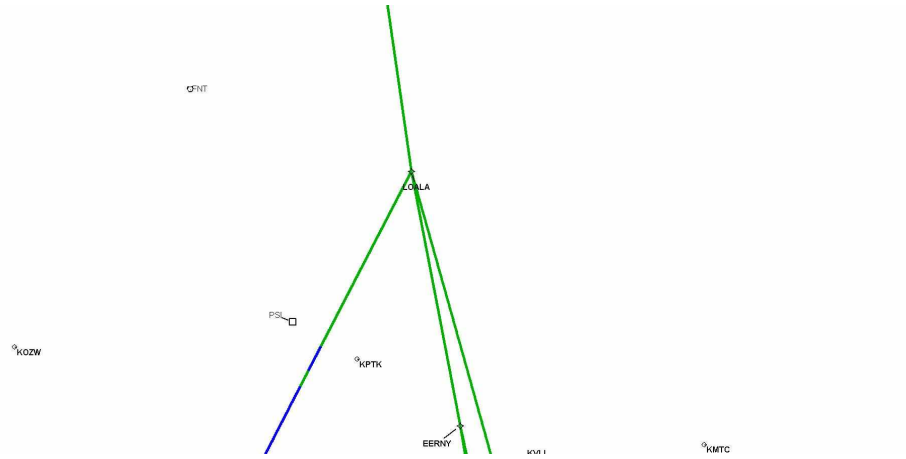
# DME DME Assessment Results for TRMML4 path KDTW:RW04L:DER\_EERNY

Graphic Depiction 1



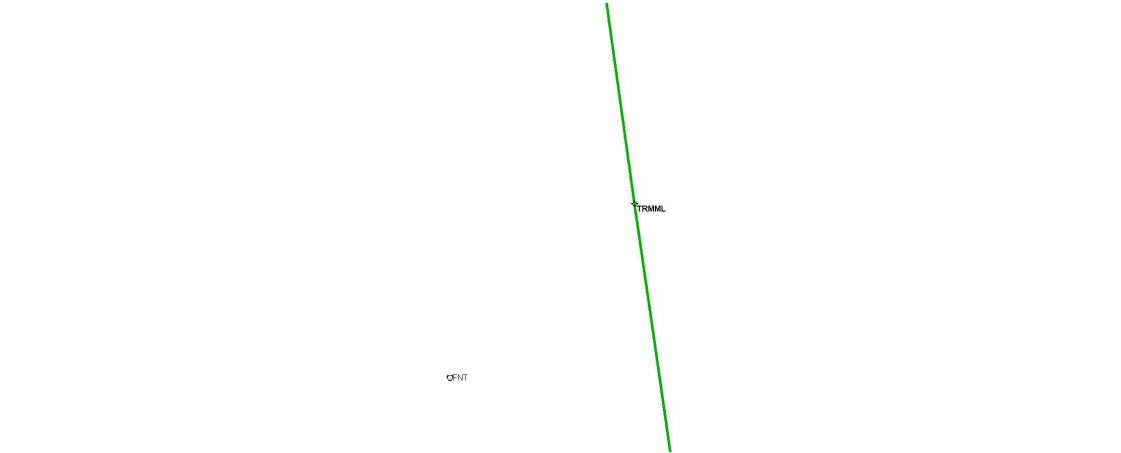
# DME DME Assessment Results for TRMML4 path KDTW:RW04L:DER\_EERNY

Graphic Depiction 2



DME DME Assessment Results for TRMML4 path KDTW:RW04L:DER\_EERNY

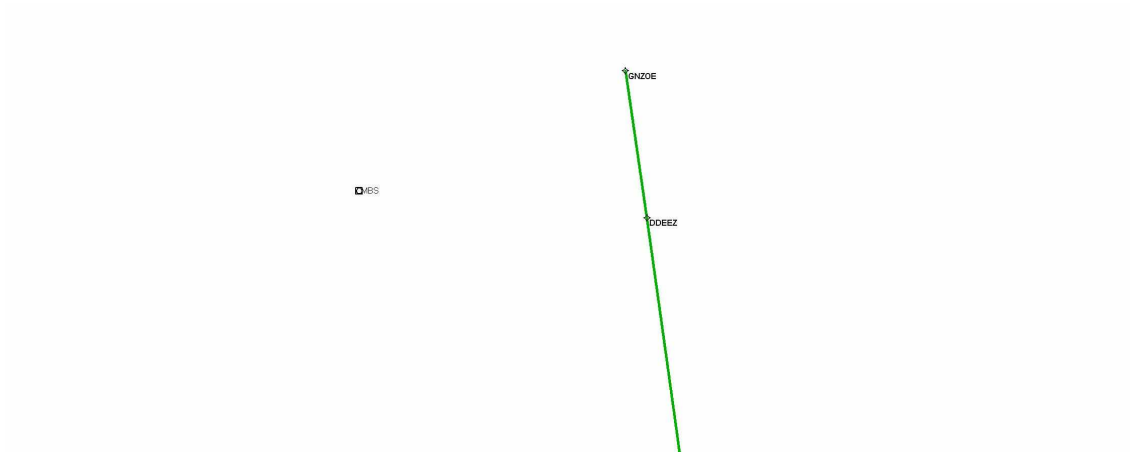
Graphic Depiction 3





DME DME Assessment Results for TRMML4 path KDTW:RW04L:DER\_EERNY

Graphic Depiction 4



## DME DME Assessment Results for TRMML4 path KDTW:RW04R:DER\_KKELL

Results Summary	
Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Jose G-CTR Medina
Project File:	C:\Users\Jose G-CTR Medina\OneDrive - Federal Aviation Administration\Documents\01. Projects\DME EVALUATIONS\KDTW 20230125\DME Screens\Submitted\New DMEs\Possible solutions\KDTW TRMLL DME\KDTW TRMML4 DME(2) 20240105.tgs
Output File:	C:\Users\Jose G-CTR Medina\OneDrive - Federal Aviation Administration\Documents\01. Projects\DME EVALUATIONS\KDTW 20230125\DME Screens\Submitted\New DMEs\Possible solutions\KDTW TRMLL DME\KDTW [IFPA] TRMML4 20240116_0706 CST\KDTW-RW04R- DER_KKELL\KDTW TRMML4 SID RW04R KKELL 20240116_0706 CST.pdf
Procedure Name:	TRMML4
Software: DmeDmePlugin:	7.2.1
Date/Time:	01/16/2024 07:06 CST
Databases:	DTED LEVEL 0 MAX

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
KDTW:RW04R:DER	WP	N42° 13' 52.3644", W083° 20' 59.9655"	635.8	VNAV	130	FLY_OVER	TF
KKELL	WP	N42° 27' 30.4800", W083° 10' 53.3400"	3000	VNAV	200	FLY_BY	TF
Climb Gradient: 500.0 ft/NM up to 1146.0 ft MSL 200.0 ft/NM							

Flyability	
Flight Type:	SID
Selected Airport:	KDTW [IFPA]
Climb Gradient:	500.0 ft/NM up to 1146.0 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 TRMML4 path KDTW:RW04R:DER\_KKELL**

<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	PSI	N42° 42' 03.0947", W083° 31' 57.9835"	-0.0 E	40	L	IFPA	NO	Enabled	73.1 %	76.7 %
2	DXO	N42° 12' 47.2904", W083° 21' 59.9878"	6.0 W	130	H	IFPA	NO	Enabled	71.2 %	74.9 %
3	CRL	N42° 02' 52.8956", W083° 27' 27.2625"	3.0 W	130	DH	IFPA	NO	Enabled	92.3 %	93.7 %
4	SVM	N42° 24' 31.1055", W083° 35' 38.0455"	3.0 W	40	L	IFPA	NO	Enabled	57.7 %	57.5 %

<b>Flight Check DME Selection</b>					
Distance [NM]	Selected DMEs				Alternate
0.0					
1.0	SVM	CRL			
2.1	SVM	DXO	CRL		
3.6	SVM	DXO	CRL	PSI	
6.3	PSI	CRL			
8.1	PSI	DXO	CRL		
11.9	PSI	DXO	SVM	CRL	

<b>Inertial Drift Segments</b>			
#	Start Location	End Location	Length [NM]
1	N42° 13' 54.2167", W083° 20' 58.6004"	N42° 14' 44.2257", W083° 20' 21.7343"	0.95

<b>Available DMEs by Waypoints</b>			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
KDTW:RW04R:DER	KKELL	PSI, DXO, SVM, CRL	

**DME DME Assessment Results for TRMML4 path KDTW:RW04R:DER\_KKELL**

**User Data Files**

#	File Name
None	

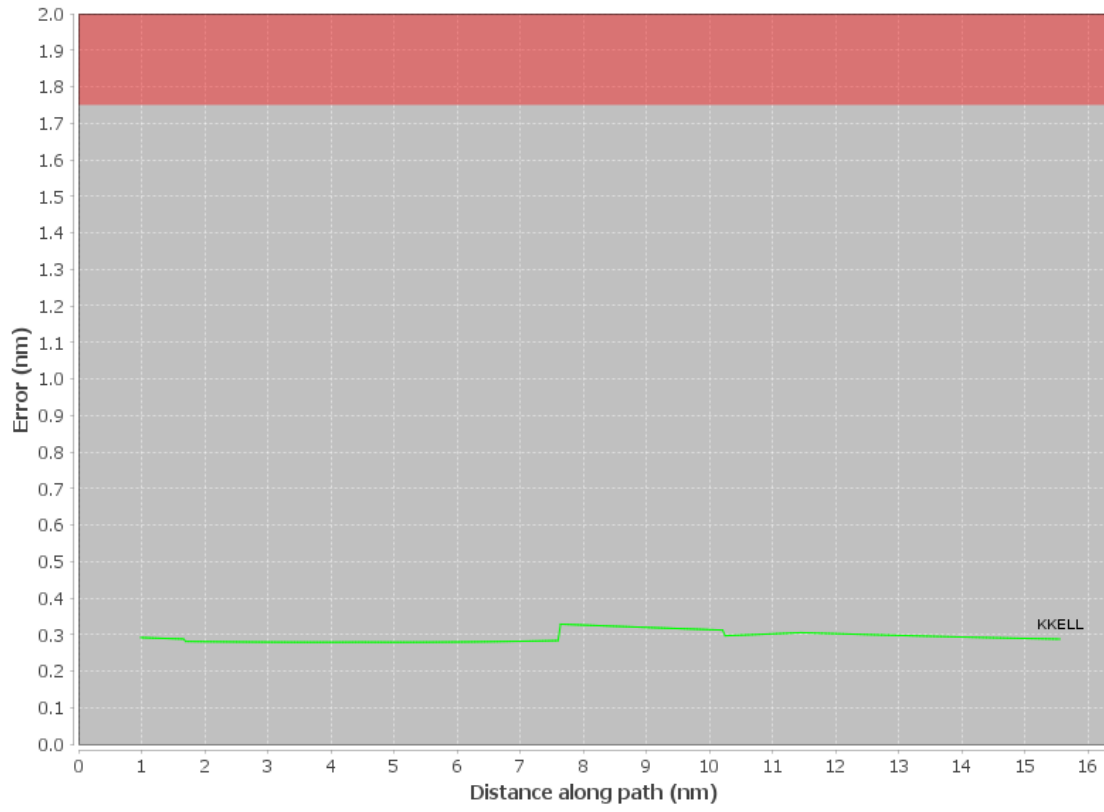
None

**User DMEs**

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	MBS FAA 704119-19 MBS [IFPA]	N43° 31' 53.9337", W084° 04' 38.2910"	3.0 W	40	663	112.9	MBS FAA 704119-19	
ESV:		Bearing [True]: 129.0° to 179.0° Bearing [Mag]: 132.0° to 182.0°				Arc Distance: Out to 57.0 NM Altitude: 3200.0 to 20000.0 ft		

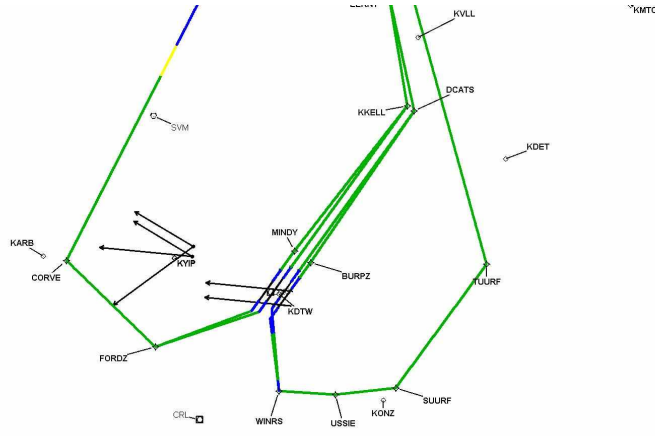
DME DME Assessment Results for TRMML4 path KDTW:RW04R:DER\_KKELL

DME Error



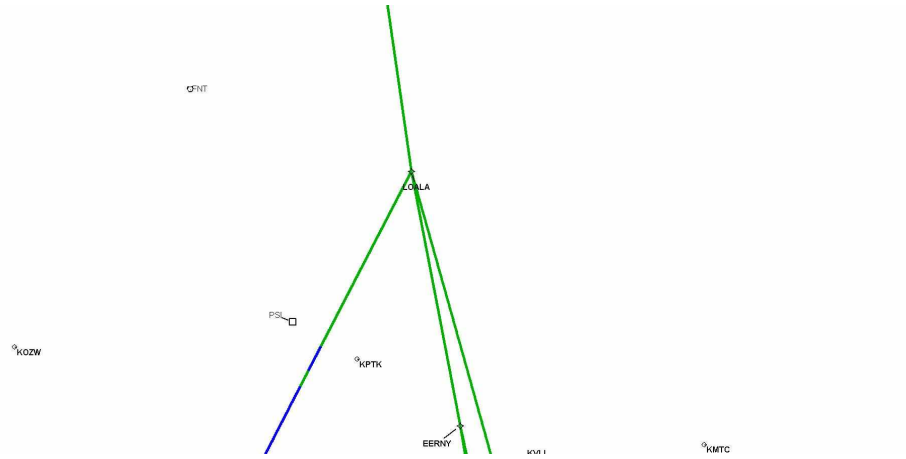
# DME DME Assessment Results for TRMML4 path KDTW:RW04R:DER\_KKELL

Graphic Depiction 1



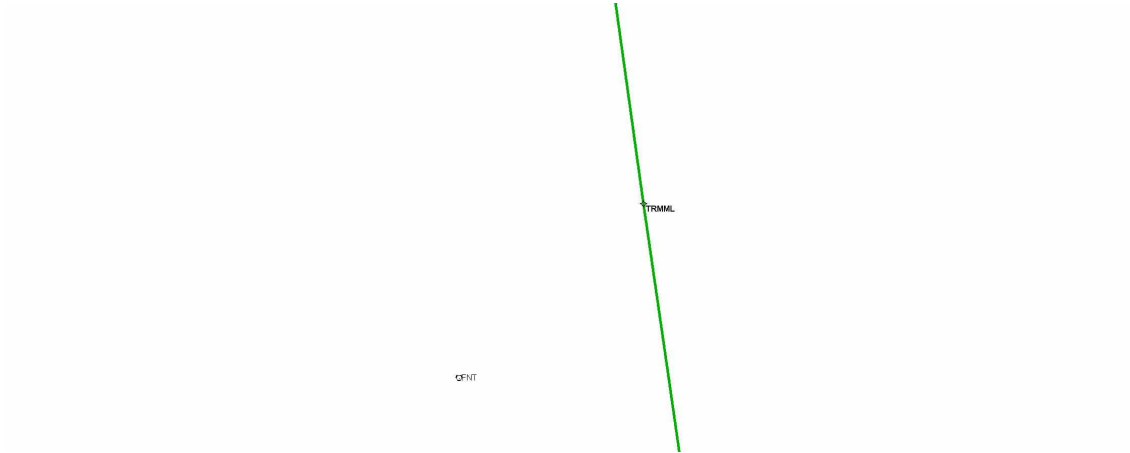
# DME DME Assessment Results for TRMML4 path KDTW:RW04R:DER\_KKELL

Graphic Depiction 2



DME DME Assessment Results for TRMML4 path KDTW:RW04R:DER\_KKELL

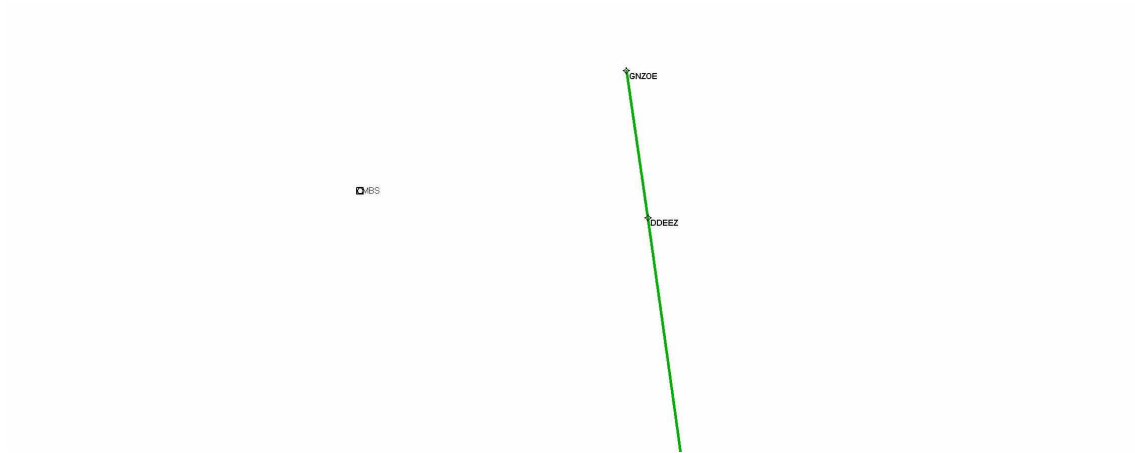
Graphic Depiction 3





DME DME Assessment Results for TRMML4 path KDTW:RW04R:DER\_KKELL

Graphic Depiction 4



**DME DME Assessment Results for TRMML4 path KDTW:RW21L:DER\_GNZOE**

<b>Results Summary</b>	
Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Jose G-CTR Medina
Project File:	C:\Users\Jose G-CTR Medina\OneDrive - Federal Aviation Administration\Documents\01. Projects\DME EVALUATIONS\KDTW 20230125\DME Screens\Submitted\New DMEs\Possible solutions\KDTW TRMLL DME\KDTW TRMML4 DME(2) 20240105.tgs
Output File:	C:\Users\Jose G-CTR Medina\OneDrive - Federal Aviation Administration\Documents\01. Projects\DME EVALUATIONS\KDTW 20230125\DME Screens\Submitted\New DMEs\Possible solutions\KDTW TRMLL DME\KDTW [IFPA] TRMML4 20240116_0706 CST\KDTW-RW21L- DER_GNZOE\KDTW TRMML4 SID RW21L GNZOE 20240116_0706 CST.pdf
Procedure Name:	TRMML4
Software: DmeDmePlugin:	7.2.1
Date/Time:	01/16/2024 07:06 CST
Databases:	DTED LEVEL 0 MAX

<b>Failures</b>
No Failures

<b>Warnings</b>
No Warnings

<b>Informational</b>
No Informational

<b>Notes For Flight Check</b>
None

<b>Flight Plan</b>							
Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
KDTW:RW21L:DER	WP	N42° 11' 44.2115", W083° 21' 06.4868"	632.8	VNAV	130	FLY_BY	TF
WINRS	WP	N42° 05' 42.0200", W083° 20' 02.3900"	2500	VNAV	230	FLY_BY	TF
USSIE	WP	N42° 05' 56.3400", W083° 14' 27.7400"	4000	VNAV	230	FLY_BY	TF
SUURF	WP	N42° 06' 57.5100", W083° 08' 37.7600"	3000	VNAV	230	FLY_BY	TF
TUURF	WP	N42° 16' 44.4000", W083° 01' 13.2800"	3000	VNAV	230	FLY_BY	TF
LOALA	WP	N42° 54' 01.3200", W083° 22' 08.6200"	3000	VNAV	200	FLY_BY	TF
TRMML	WP	N43° 12' 18.7600", W083° 28' 51.9000"	7000	VNAV	200	FLY_BY	TF
DDEEZ	WP	N43° 32' 32.5000", W083° 36' 09.0800"	7000	VNAV	200	FLY_BY	TF
GNZOE	WP	N43° 43' 00.0000", W083° 40' 00.0000"	7000	VNAV	200	FLY_BY	TF
Climb Gradient: 500.0 ft/NM up to 1146.0 ft MSL 200.0 ft/NM							

**DME DME Assessment Results for TRMML4 path KDTW:RW21L:DER\_GNZOE**

<b>Flyability</b>	
Flight Type:	SID
Selected Airport:	KDTW [IFPA]
Climb Gradient:	500.0 ft/NM up to 1146.0 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

<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	PSI	N42° 42' 03.0947", W083° 31' 57.9835"	-0.0 E	40	L	IFPA	NO	Enabled	62.4 %	63.6 %
2	DXO	N42° 12' 47.2904", W083° 21' 59.9878"	6.0 W	130	H	IFPA	NO	Enabled	45.4 %	48.8 %
3	CRL	N42° 02' 52.8956", W083° 27' 27.2625"	3.0 W	130	DH	IFPA	NO	Enabled	80 %	81.2 %
4	MBS	N43° 31' 53.9337", W084° 04' 38.2910"	3.0 W	40	L	IFPA	NO	Enabled	43.2 %	40.5 %
5	JXN	N42° 15' 33.2631", W084° 27' 30.7776"	0.0 E	130	DH	IFPA	NO	Enabled	23.2 %	21.7 %
6	SVM	N42° 24' 31.1055", W083° 35' 38.0455"	3.0 W	40	L	IFPA	NO	Enabled	49 %	51.4 %
7	FNT	N42° 58' 00.3594", W083° 44' 49.1561"	6.0 W	130	H	IFPA	NO	Enabled	50.6 %	48.9 %
8	ASP	N44° 26' 56.8613", W083° 23' 39.4201"	0.0 E	130	DH	IFPA	NO	Enabled	33.1 %	31 %

**DME DME Assessment Results for TRMML4 path KDTW:RW21L:DER\_GNZOE**

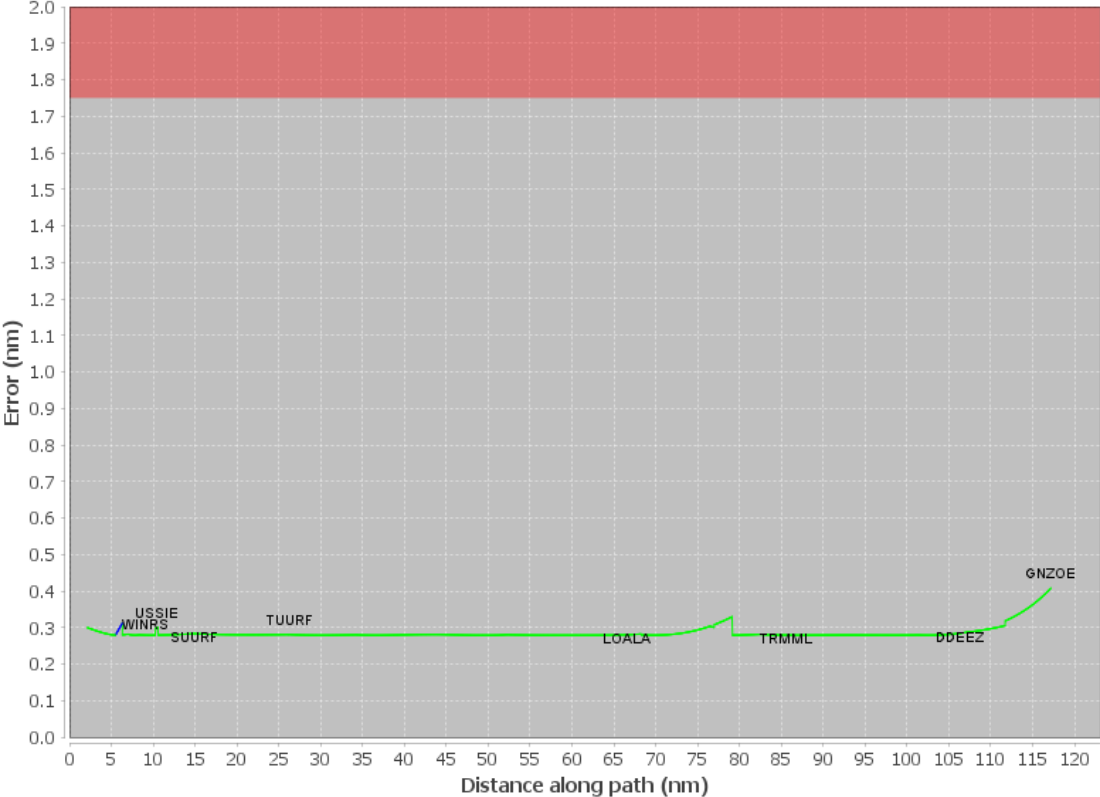
Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0						
2.1	DXO	CRL				
2.6	SVM	CRL				
5.1	SVM	CRL	PSI			
5.5						
6.4	SVM	CRL	DXO			
10.3	DXO	CRL	SVM	JXN		
10.6	DXO	CRL	SVM			
20.1	PSI	CRL	SVM	DXO		
23.3	PSI	CRL	DXO			
34.1	PSI	CRL	DXO	SVM		
52.5	SVM	FNT	PSI	DXO	CRL	
62.6	SVM	FNT	DXO	PSI		
63.2	SVM	FNT	PSI			
67.5	SVM	FNT	PSI	MBS		
68.3	CRL	FNT	SVM	PSI	MBS	
74.5	CRL	FNT	PSI	MBS		
77.0	CRL	FNT	PSI	JXN		
79.2	MBS	JXN	FNT	CRL	PSI	
94.3	MBS	FNT	JXN	ASP	CRL	
102.3	MBS	ASP	FNT	CRL		
103.9	MBS	ASP	FNT			
109.9	MBS	ASP				

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N42° 11' 42.3483", W083° 21' 07.8589"	N42° 09' 45.9768", W083° 21' 24.6038"	2.0934
2	N42° 06' 26.9609", W083° 20' 17.5215"	N42° 05' 42.0200", W083° 20' 02.3900"	0.7721

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
KDTW:RW21L:DER	WINRS	PSI, DXO, SVM, CRL	
WINRS	USSIE	JXN, DXO, SVM, CRL	
USSIE	SUURF	JXN, DXO, SVM, CRL	
SUURF	TUURF	PSI, DXO, SVM, CRL	
TUURF	LOALA	PSI, DXO, SVM, CRL, FNT	
LOALA	TRMML	JXN, PSI, SVM, CRL, FNT, ASP, MBS	
TRMML	DDEEZ	JXN, PSI, CRL, FNT, ASP, MBS	
DDEEZ	GNZOE	FNT, ASP, MBS	

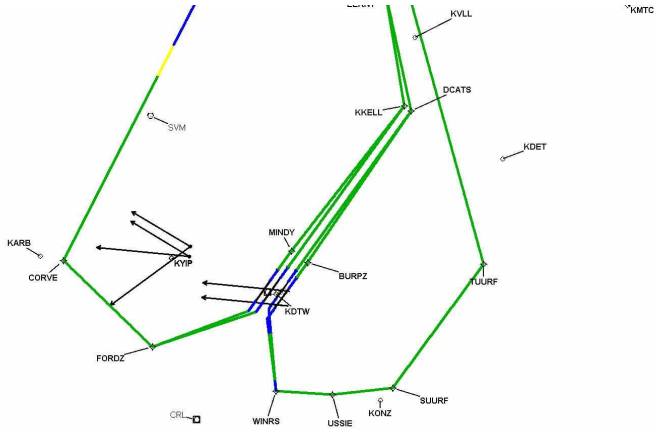
User Data Files								
#	File Name							
None								
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	MBS FAA 704119-19 MBS [IFPA]	N43° 31' 53.9337", W084° 04' 38.2910"	3.0 W	40	663	112.9	MBS FAA 704119-19	
ESV:		Bearing [True]: 129.0° to 179.0° Bearing [Mag]: 132.0° to 182.0°			Arc Distance: Out to 57.0 NM Altitude: 3200.0 to 20000.0 ft			

### DME Error



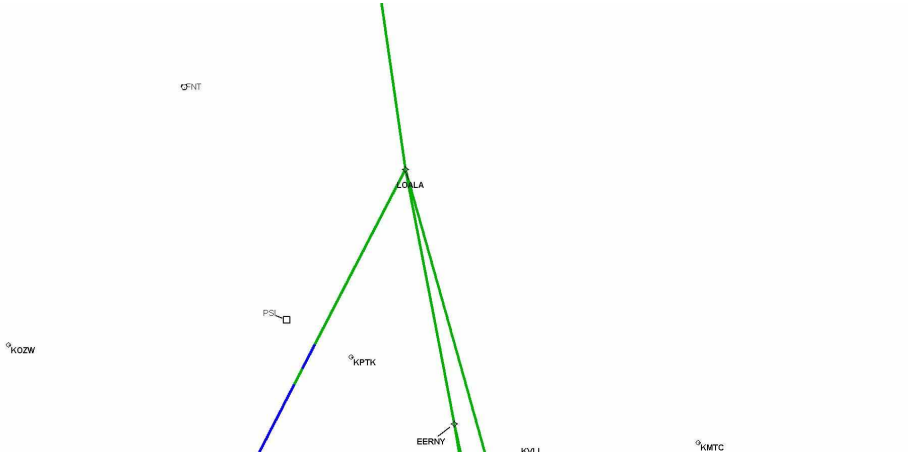
DME DME Assessment Results for TRMML4 path KDTW:RW21L:DER\_GNZOE

Graphic Depiction 1



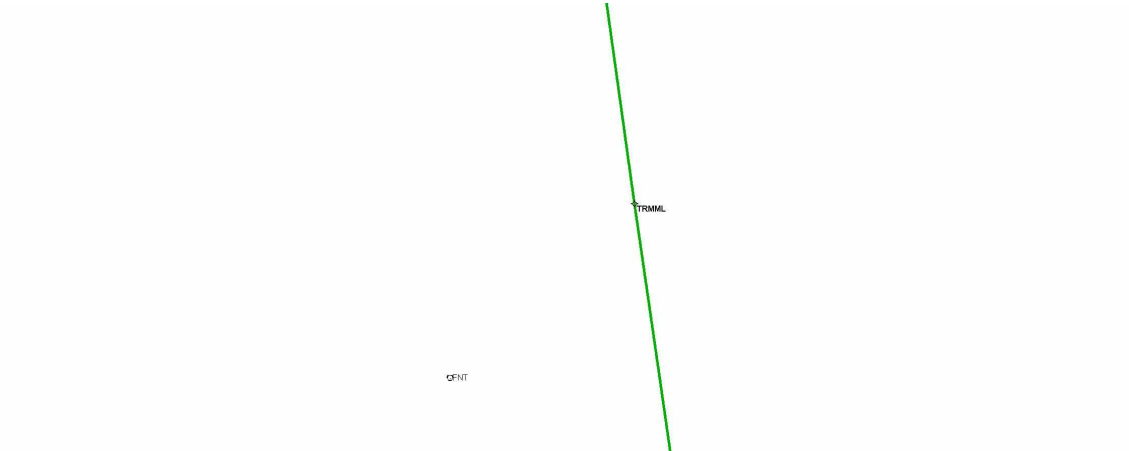
DME DME Assessment Results for TRMML4 path KDTW:RW21L:DER\_GNZOE

Graphic Depiction 2



DME DME Assessment Results for TRMML4 path KDTW:RW21L:DER\_GNZOE

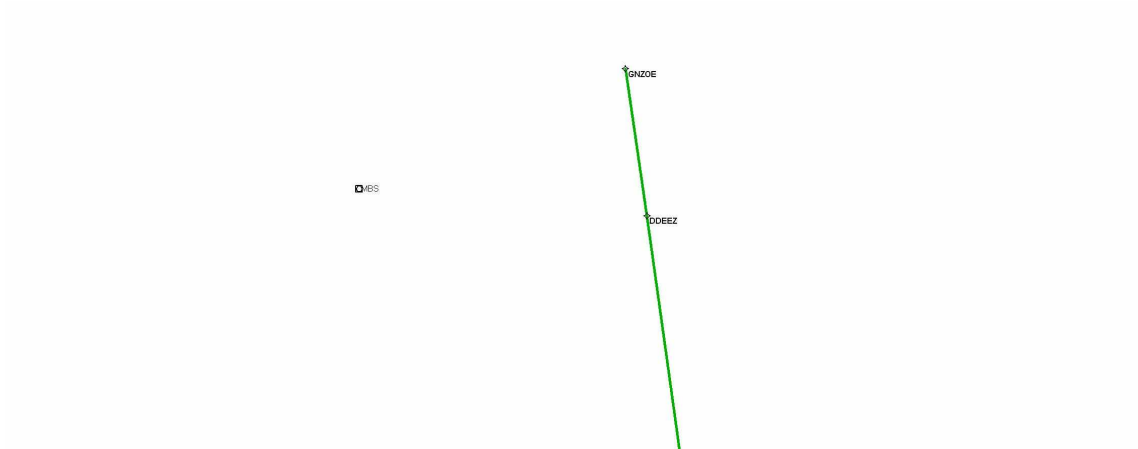
Graphic Depiction 3





DME DME Assessment Results for TRMML4 path KDTW:RW21L:DER\_GNZOE

Graphic Depiction 4



## DME DME Assessment Results for TRMML4 path KDTW:RW21R:DER\_WINRS

Results Summary	
Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Jose G-CTR Medina
Project File:	C:\Users\Jose G-CTR Medina\OneDrive - Federal Aviation Administration\Documents\01. Projects\DME EVALUATIONS\KDTW 20230125\DME Screens\Submitted\New DMEs\Possible solutions\KDTW TRMLL DME\KDTW TRMML4 DME(2) 20240105.tgs
Output File:	C:\Users\Jose G-CTR Medina\OneDrive - Federal Aviation Administration\Documents\01. Projects\DME EVALUATIONS\KDTW 20230125\DME Screens\Submitted\New DMEs\Possible solutions\KDTW TRMLL DME\KDTW [IFPA] TRMML4 20240116_0706 CST\KDTW-RW21R-DER_WINRS\KDTW TRMML4 SID RW21R WINRS 20240116_0706 CST.pdf
Procedure Name:	TRMML4
Software: DmeDmePlugin:	7.2.1
Date/Time:	01/16/2024 07:06 CST
Databases:	DTED LEVEL 0 MAX

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
KDTW:RW21R:DER	WP	N42° 12' 28.2081", W083° 21' 04.3881"	636.5	VNAV	130	FLY_BY	TF
WINRS	WP	N42° 05' 42.0200", W083° 20' 02.3900"	2500	VNAV	230	FLY_BY	TF
Climb Gradient: 500.0 ft/NM up to 1146.0 ft MSL 200.0 ft/NM							

Flyability	
Flight Type:	SID
Selected Airport:	KDTW [IFPA]
Climb Gradient:	500.0 ft/NM up to 1146.0 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 TRMML4 path KDTW:RW21R:DER\_WINRS**

<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	PSI	N42° 42' 03.0947", W083° 31' 57.9835"	-0.0 E	40	L	IFPA	NO	Enabled	6.2 %	8 %
2	DXO	N42° 12' 47.2904", W083° 21' 59.9878"	6.0 W	130	H	IFPA	NO	Enabled	5.6 %	5.1 %
3	CRL	N42° 02' 52.8956", W083° 27' 27.2625"	3.0 W	130	DH	IFPA	NO	Enabled	46.8 %	50.7 %
4	SVM	N42° 24' 31.1055", W083° 35' 38.0455"	3.0 W	40	L	IFPA	NO	Enabled	46.8 %	50.7 %

<b>Flight Check DME Selection</b>						
Distance [NM]	Selected DMEs					Alternate
0.0						
2.8	SVM	CRL				
2.8	SVM	CRL	DXO			
3.2	SVM	CRL				
5.8	SVM	CRL	PSI			
6.4						

<b>Inertial Drift Segments</b>			
#	Start Location	End Location	Length [NM]
1	N42° 12' 26.3583", W083° 21' 05.7509"	N42° 09' 51.0956", W083° 21' 14.1329"	2.7467
2	N42° 06' 19.6173", W083° 20' 13.2091"	N42° 05' 42.0200", W083° 20' 02.3900"	0.6406

<b>Available DMEs by Waypoints</b>			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
KDTW:RW21R:DER	WINRS	PSI, DXO, SVM, CRL	

**DME DME Assessment Results for TRMML4 path KDTW:RW21R:DER\_WINRS**

**User Data Files**

#	File Name
None	

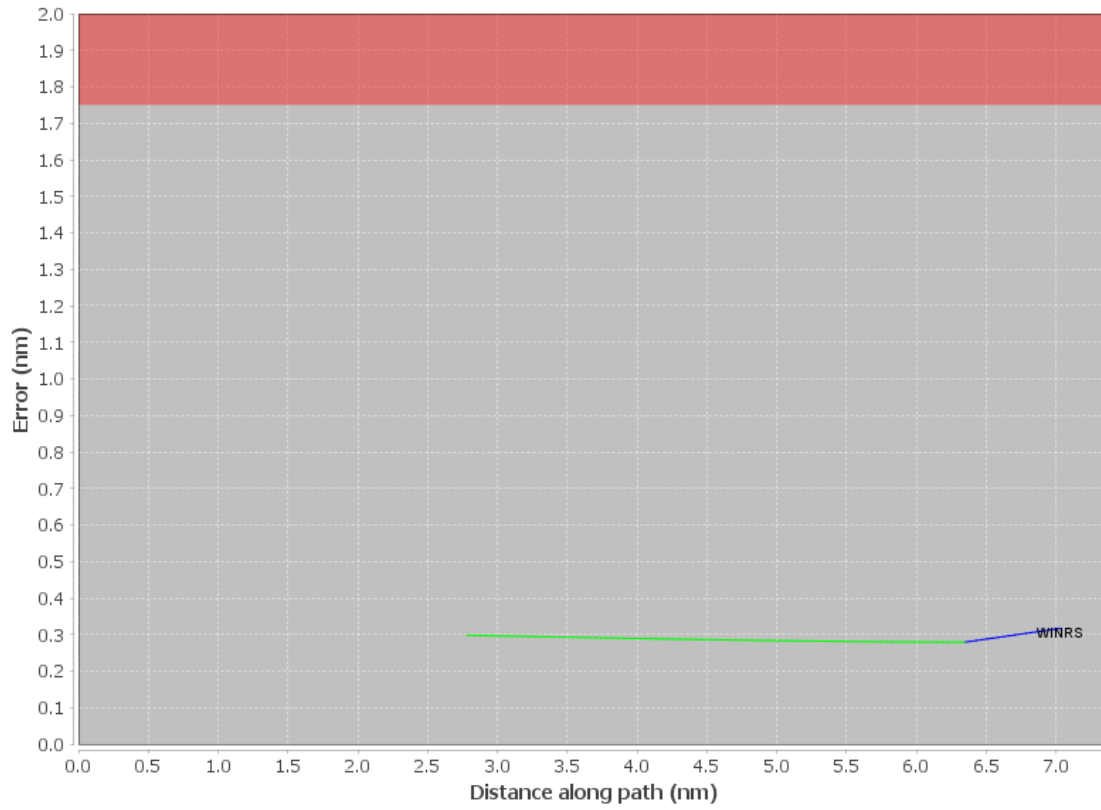
None

**User DMEs**

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	MBS FAA 704119-19 MBS [IFPA]	N43° 31' 53.9337", W084° 04' 38.2910"	3.0 W	40	663	112.9	MBS FAA 704119-19	
ESV:		Bearing [True]: 129.0° to 179.0° Bearing [Mag]: 132.0° to 182.0°				Arc Distance: Out to 57.0 NM Altitude: 3200.0 to 20000.0 ft		

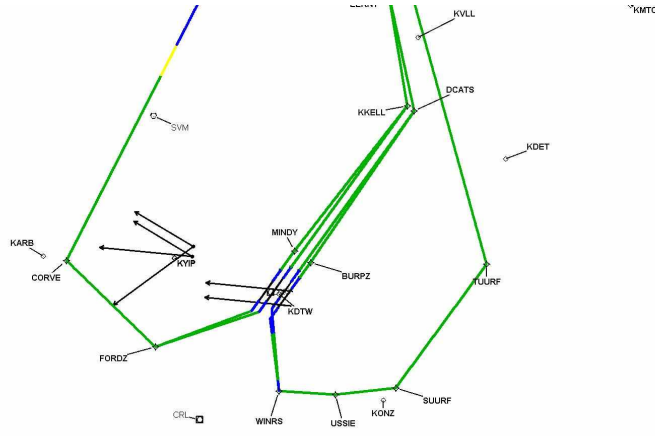
# DME DME Assessment Results for TRMML4 path KDTW:RW21R:DER\_WINRS

## DME Error



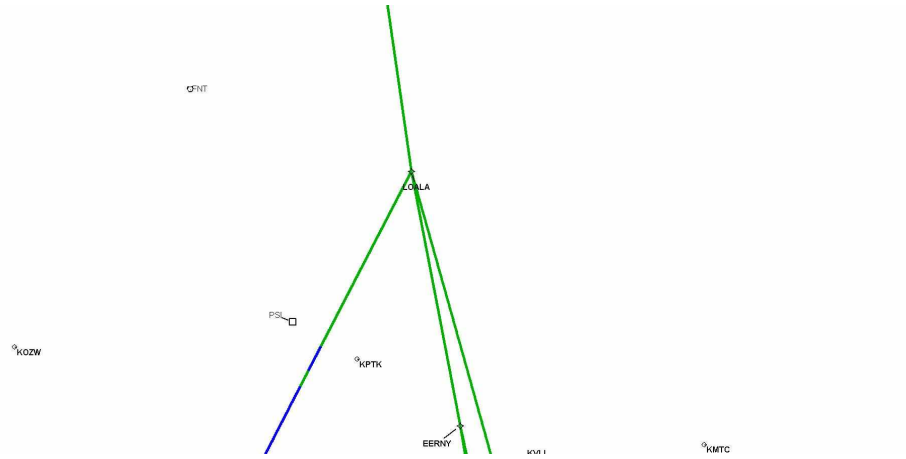
# DME DME Assessment Results for TRMML4 path KDTW:RW21R:DER\_WINRS

Graphic Depiction 1



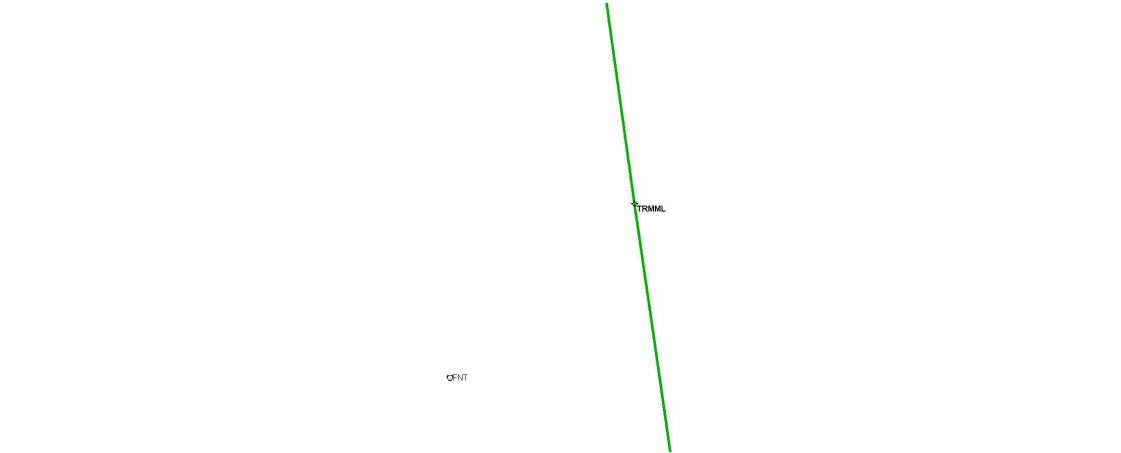
# DME DME Assessment Results for TRMML4 path KDTW:RW21R:DER\_WINRS

Graphic Depiction 2



DME DME Assessment Results for TRMML4 path KDTW:RW21R:DER\_WINRS

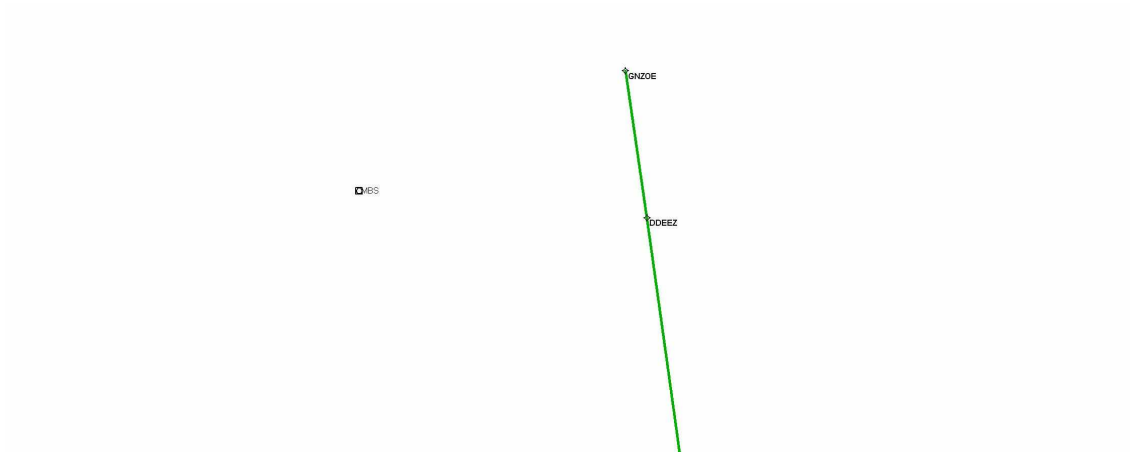
Graphic Depiction 3





# DME DME Assessment Results for TRMML4 path KDTW:RW21R:DER\_WINRS

Graphic Depiction 4



## DME DME Assessment Results for TRMML4 path KDTW:RW22L:DER\_LOALA

Results Summary	
Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Jose G-CTR Medina
Project File:	C:\Users\Jose G-CTR Medina\OneDrive - Federal Aviation Administration\Documents\01. Projects\DME EVALUATIONS\KDTW 20230125\DME Screens\Submitted\New DMEs\Possible solutions\KDTW TRMLL DME\KDTW TRMML4 DME(2) 20240105.tgs
Output File:	C:\Users\Jose G-CTR Medina\OneDrive - Federal Aviation Administration\Documents\01. Projects\DME EVALUATIONS\KDTW 20230125\DME Screens\Submitted\New DMEs\Possible solutions\KDTW TRMLL DME\KDTW [IFPA] TRMML4 20240116_0706 CST\KDTW-RW22L- DER_LOALA\KDTW TRMML4 SID RW22L LOALA 20240116_0706 CST.pdf
Procedure Name:	TRMML4
Software: DmeDmePlugin:	7.2.1
Date/Time:	01/16/2024 07:06 CST
Databases:	DTED LEVEL 0 MAX

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
KDTW:RW22L:DER	WP	N42° 12' 08.3656", W083° 22' 16.5697"	637.5	VNAV	130	FLY_BY	TF
FORDZ	WP	N42° 07' 47.3300", W083° 32' 40.3400"	4000	VNAV	200	FLY_BY	TF
CORVE	WP	N42° 13' 15.7100", W083° 42' 24.9700"	3000	VNAV	200	FLY_BY	TF
LOALA	WP	N42° 54' 01.3200", W083° 22' 08.6200"	3000	VNAV	200	FLY_BY	TF
Climb Gradient: 500.0 ft/NM up to 1146.0 ft MSL 200.0 ft/NM							

Flyability	
Flight Type:	SID
Selected Airport:	KDTW [IFPA]
Climb Gradient:	500.0 ft/NM up to 1146.0 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 TRMML4 path KDTW:RW22L:DER\_LOALA**

<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	PSI	N42° 42' 03.0947", W083° 31' 57.9835"	-0.0 E	40	L	IFPA	NO	Enabled	66.7 %	68.7 %
2	DXO	N42° 12' 47.2904", W083° 21' 59.9878"	6.0 W	130	H	IFPA	NO	Enabled	63.4 %	63.4 %
3	CRL	N42° 02' 52.8956", W083° 27' 27.2625"	3.0 W	130	DH	IFPA	NO	Enabled	58.6 %	60.1 %
4	JXN	N42° 15' 33.2631", W084° 27' 30.7776"	0.0 E	130	DH	IFPA	NO	Enabled	46.1 %	47.7 %
5	SVM	N42° 24' 31.1055", W083° 35' 38.0455"	3.0 W	40	L	IFPA	NO	Enabled	71.4 %	70.8 %
6	FNT	N42° 58' 00.3594", W083° 44' 49.1561"	6.0 W	130	H	IFPA	NO	Enabled	23.8 %	24.9 %

**DME DME Assessment Results for TRMML4 path KDTW:RW22L:DER\_LOALA**

<b>Flight Check DME Selection</b>						
<b>Distance [NM]</b>	<b>Selected DMEs</b>					<b>Alternate</b>
0.0						
1.1	SVM	CRL				
2.5	SVM	DXO	CRL			
3.3	SVM	DXO				
5.6	SVM	DXO	PSI			
6.4	PSI	JXN	SVM	DXO		
9.1	DXO	CRL	PSI	JXN	SVM	
26.7	CRL	JXN	PSI	DXO		
33.3	CRL	JXN	DXO	SVM	PSI	
35.8						
43.9	PSI	SVM				
45.2						
47.2	SVM	FNT				
50.5	SVM	FNT	CRL			
50.7	PSI	FNT	SVM	CRL		
52.6	PSI	FNT	SVM	CRL	DXO	
58.4	SVM	FNT	PSI	CRL		
58.7	SVM	FNT	PSI			

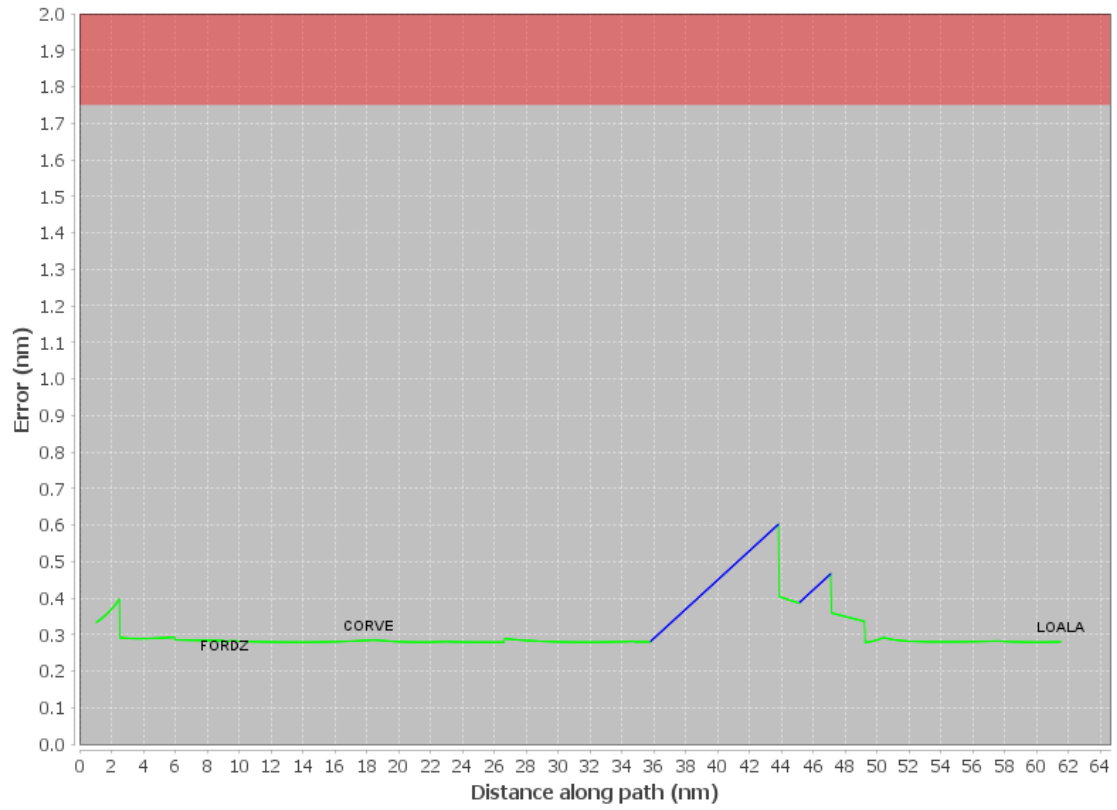
<b>Inertial Drift Segments</b>			
<b>#</b>	<b>Start Location</b>	<b>End Location</b>	<b>Length [NM]</b>
1	N42° 12' 06.5192", W083° 22' 17.9291"	N42° 11' 13.7320", W083° 22' 58.9436"	1.0227
2	N42° 29' 53.8114", W083° 34' 11.9690"	N42° 37' 27.2820", W083° 30' 26.4365"	8.0499
3	N42° 38' 39.1996", W083° 29' 50.5788"	N42° 40' 31.7594", W083° 28' 54.4077"	1.9986

<b>Available DMEs by Waypoints</b>			
<b>Waypoint Before</b>	<b>Waypoint After</b>	<b>DME List</b>	<b>Suggested DMEs</b>
KDTW:RW22L:DER	FORDZ	JXN, PSI, DXO, SVM, CRL	
FORDZ	CORVE	JXN, PSI, DXO, SVM, CRL	
CORVE	LOALA	JXN, PSI, DXO, SVM, CRL, FNT	

<b>User Data Files</b>								
<b>#</b>	<b>File Name</b>							
	None							
<b>User DMEs</b>								
<b>#</b>	<b>Name</b>	<b>Lat/Lon</b>	<b>MAGVAR</b>	<b>Range</b>	<b>Elevation [ft]</b>	<b>Frequency</b>	<b>Replaces</b>	<b>Status</b>
1	MBS FAA 704119-19 MBS [IFPA]	N43° 31' 53.9337", W084° 04' 38.2910"	3.0 W	40	663	112.9	MBS FAA 704119-19	
	ESV:	Bearing [True]: 129.0° to 179.0° Bearing [Mag]: 132.0° to 182.0°			Arc Distance: Out to 57.0 NM Altitude: 3200.0 to 20000.0 ft			

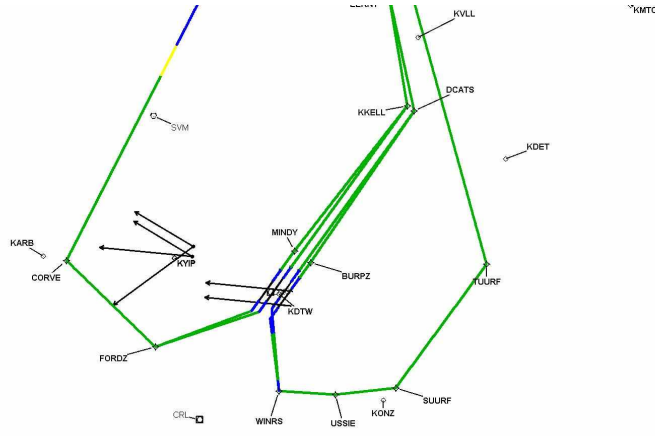
# DME DME Assessment Results for TRMML4 path KDTW:RW22L:DER\_LOALA

## DME Error



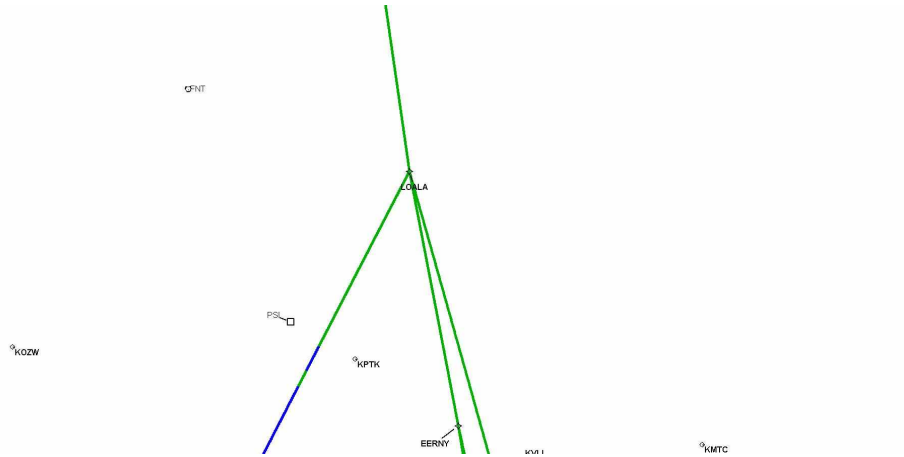
# DME DME Assessment Results for TRMML4 path KDTW:RW22L:DER\_LOALA

Graphic Depiction 1



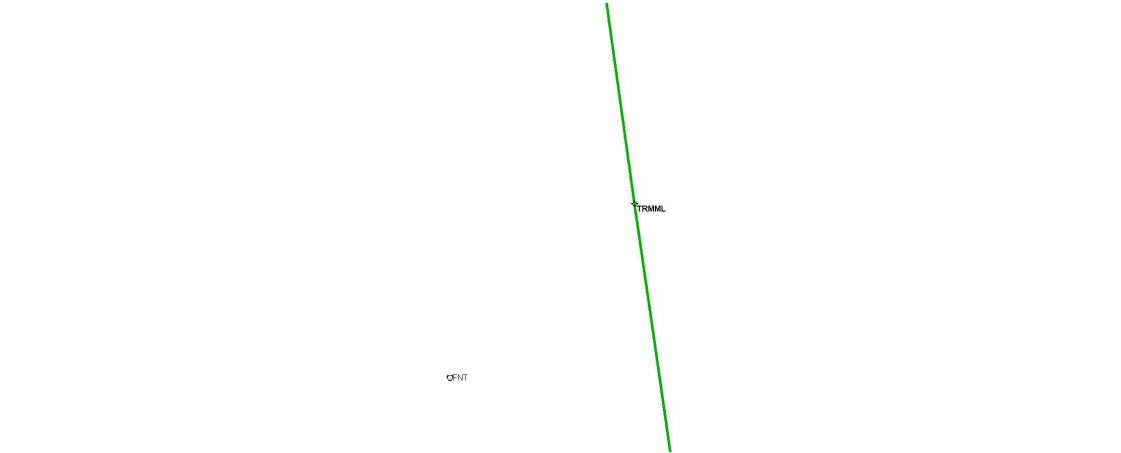
# DME DME Assessment Results for TRMML4 path KDTW:RW22L:DER\_LOALA

Graphic Depiction 2



DME DME Assessment Results for TRMML4 path KDTW:RW22L:DER\_LOALA

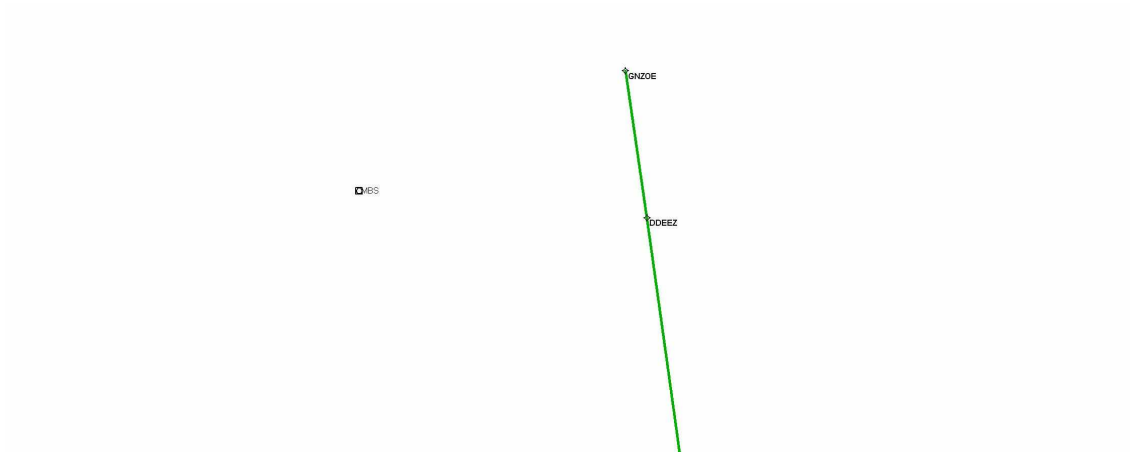
Graphic Depiction 3





# DME DME Assessment Results for TRMML4 path KDTW:RW22L:DER\_LOALA

Graphic Depiction 4



**DME DME Assessment Results for TRMML4 path KDTW:RW22R:DER\_FORDZ**

<b>Results Summary</b>	
Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Jose G-CTR Medina
Project File:	C:\Users\Jose G-CTR Medina\OneDrive - Federal Aviation Administration\Documents\01. Projects\DME EVALUATIONS\KDTW 20230125\DME Screens\Submitted\New DMEs\Possible solutions\KDTW TRMLL DME\KDTW TRMML4 DME(2) 20240105.tgs
Output File:	C:\Users\Jose G-CTR Medina\OneDrive - Federal Aviation Administration\Documents\01. Projects\DME EVALUATIONS\KDTW 20230125\DME Screens\Submitted\New DMEs\Possible solutions\KDTW TRMLL DME\KDTW [IFPA] TRMML4 20240116_0706 CST\KDTW-RW22R- DER_FORDZ\KDTW TRMML4 SID RW22R FORDZ 20240116_0706 CST.pdf
Procedure Name:	TRMML4
Software: DmeDmePlugin:	7.2.1
Date/Time:	01/16/2024 07:06 CST
Databases:	DTED LEVEL 0 MAX

<b>Failures</b>
No Failures

<b>Warnings</b>
No Warnings

<b>Informational</b>
No Informational

<b>Notes For Flight Check</b>
None

<b>Flight Plan</b>							
Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
KDTW:RW22R:DER	WP	N42° 12' 07.8216", W083° 23' 02.4003"	645.2	VNAV	130	FLY_BY	TF
FORDZ	WP	N42° 07' 47.3300", W083° 32' 40.3400"	4000	VNAV	200	FLY_BY	TF
Climb Gradient: 500.0 ft/NM up to 1146.0 ft MSL 200.0 ft/NM							

<b>Flyability</b>	
Flight Type:	SID
Selected Airport:	KDTW [IFPA]
Climb Gradient:	500.0 ft/NM up to 1146.0 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 TRMML4 path KDTW:RW22R:DER\_FORDZ**

<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	PSI	N42° 42' 03.0947", W083° 31' 57.9835"	-0.0 E	40	L	IFPA	NO	Enabled	39.3 %	41.5 %
2	DXO	N42° 12' 47.2904", W083° 21' 59.9878"	6.0 W	130	H	IFPA	NO	Enabled	71.3 %	75.3 %
3	CRL	N42° 02' 52.8956", W083° 27' 27.2625"	3.0 W	130	DH	IFPA	NO	Enabled	17.2 %	18.2 %
4	JXN	N42° 15' 33.2631", W084° 27' 30.7776"	0.0 E	130	DH	IFPA	NO	Enabled	27 %	28.5 %
5	SVM	N42° 24' 31.1055", W083° 35' 38.0455"	3.0 W	40	L	IFPA	NO	Enabled	82.9 %	87.6 %

<b>Flight Check DME Selection</b>						
Distance [NM]	Selected DMEs					Alternate
0.0						
1.1	SVM	CRL				
2.1	SVM	DXO	CRL			
2.7	SVM	DXO				
5.0	SVM	DXO	PSI			
6.1	PSI	JXN	SVM	DXO		

<b>Inertial Drift Segments</b>			
#	Start Location	End Location	Length [NM]
1	N42° 12' 05.9380", W083° 23' 03.7862"	N42° 11' 13.5530", W083° 23' 45.1668"	1.0208

<b>Available DMEs by Waypoints</b>			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
KDTW:RW22R:DER	FORDZ	JXN, PSI, DXO, SVM, CRL	

**DME DME Assessment Results for TRMML4 path KDTW:RW22R:DER\_FORDZ**

**User Data Files**

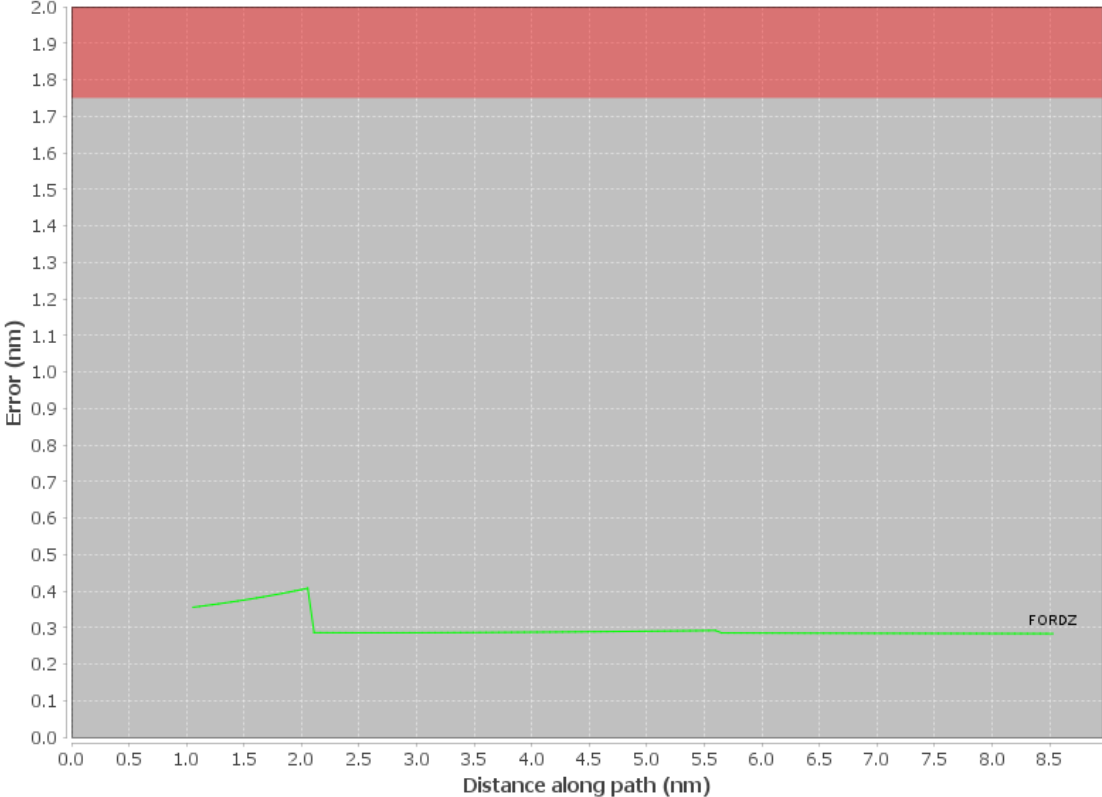
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None

**User DMEs**

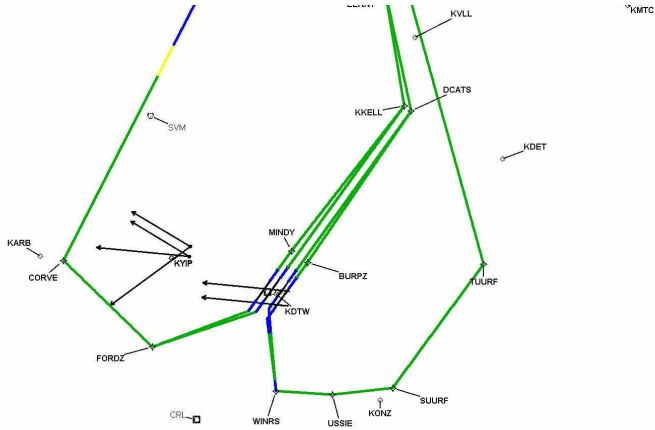
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	MBS FAA 704119-19 MBS [IFPA]	N43° 31' 53.9337", W084° 04' 38.2910"	3.0 W	40	663	112.9	MBS FAA 704119-19	
ESV:		Bearing [True]: 129.0° to 179.0° Bearing [Mag]: 132.0° to 182.0°				Arc Distance: Out to 57.0 NM Altitude: 3200.0 to 20000.0 ft		

DME Error



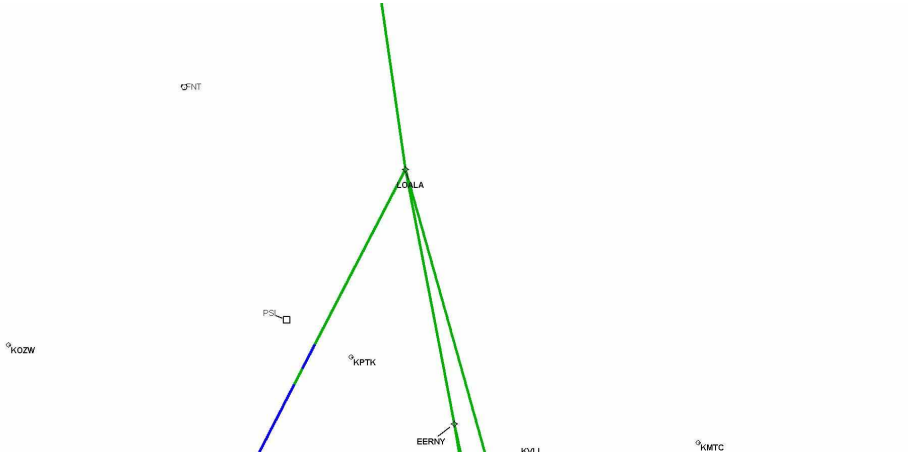
DME DME Assessment Results for TRMML4 path KDTW:RW22R:DER\_FORDZ

Graphic Depiction 1



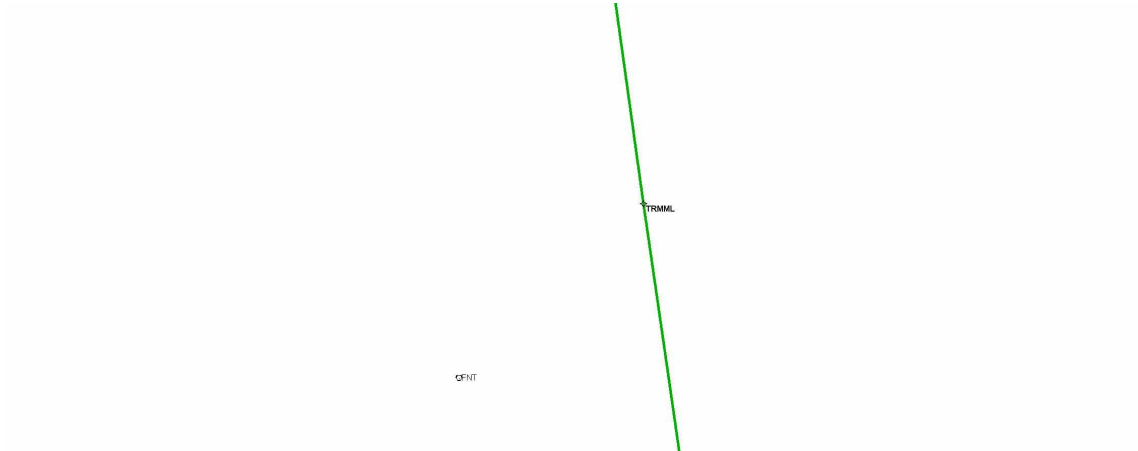
DME DME Assessment Results for TRMML4 path KDTW:RW22R:DER\_FORDZ

Graphic Depiction 2



DME DME Assessment Results for TRMML4 path KDTW:RW22R:DER\_FORDZ

Graphic Depiction 3





DME DME Assessment Results for TRMML4 path KDTW:RW22R:DER\_FORDZ

Graphic Depiction 4

