

Q864

Point Of Contact

Organization Name - Northeast Corridor VOR MON (NEC VOR MON)

POC's Name - Paul Withers, FAA Lead, Joseph Tinsley, NATCA Lead

Telephone Number -

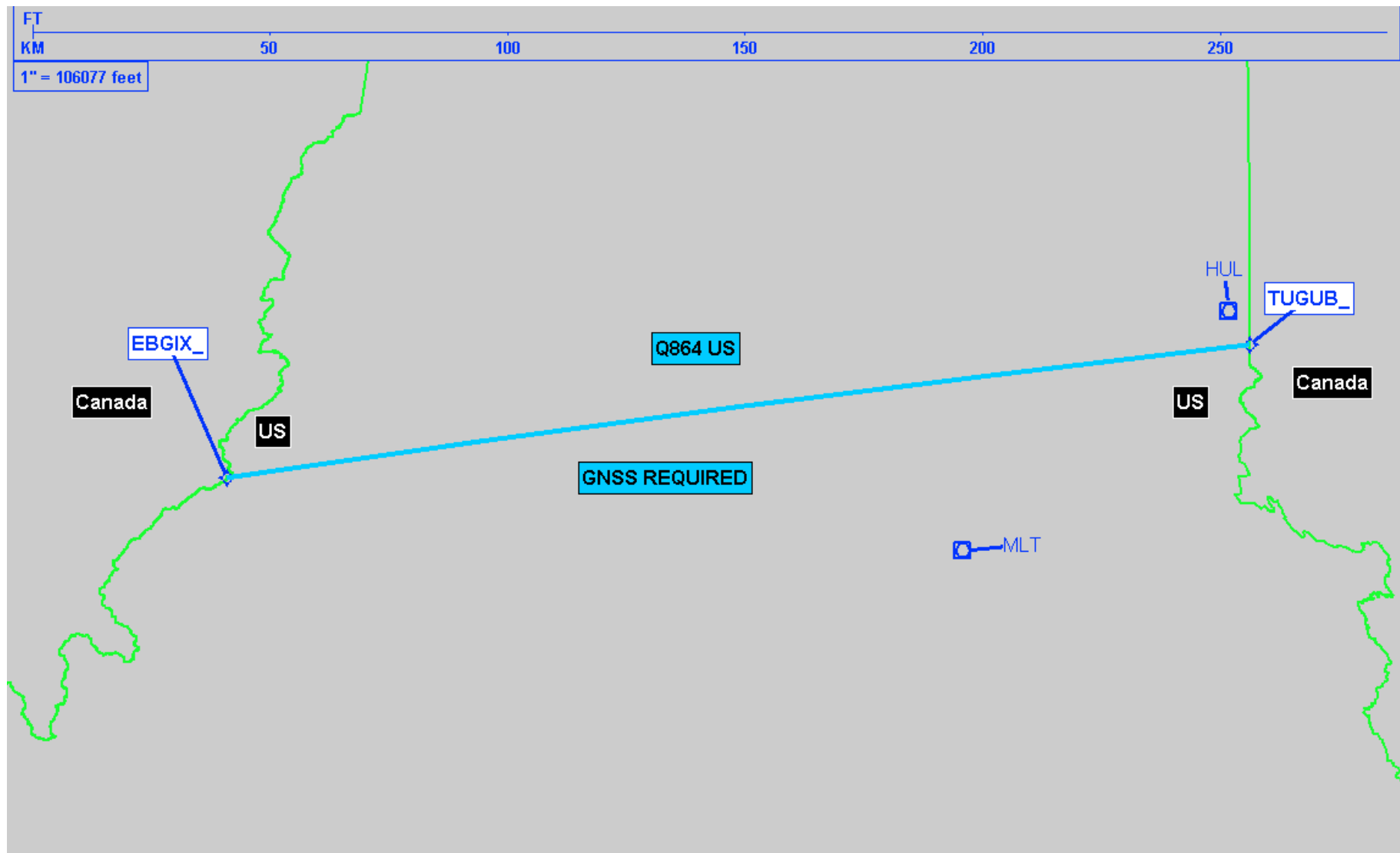
FAX Number -

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TARGETS Distribution Package

Version:6.2.0

Date: Thu Nov 19 18:52:40 EST 2020



Q864

Route Data - Q864

DB	End Point	Latitude	Longitude	FO/ FB	Leg	TC	Dist.	MRB 1	MRB 2	Start Pt State	End Pt State	MEA	RME A	MOCA	Published MOCA	MRA	MAA	GNSS MEA	MCA
	EBGIX_ WP	N45 43 32.67	W070 23 50.92		IF					ME	ME	18000 ()						18000	
	TUGUB_ WP	N45 58 42.08	W067 46 52.21	FB	TF	81.20	110.76	096	279	ME	ME	18000 ()						18000	

Point Data

DB	Point	Lat-Long (DMS.S)	Latitude (Deg)	Longitude (Deg)	Latitude (D°, M.mm')	Longitude (D°, M.mm')	Latitude (D° M' S.ss")	Longitude (D° M' S.ss")
	EBGIX_ WP	454332.67N-0702350.92W	N 45.7257406	W 70.3974786	N45 43.544	W70 23.849	N45 43 32.67	W070 23 50.92
	TUGUB_ WP	455842.08N-0674652.21W	N 45.9783556	W 67.7811694	N45 58.701	W67 46.870	N45 58 42.08	W067 46 52.21

RS Results Q864

Last Evaluation: 19-Nov-2020 18:48:34

Reference Software Version: 2.7.0

Project Chart Date: 06/17/2021

Q864 from EBGIX Evaluation Results Part 1/2

Leg Tp	Start Pt	End Pt	Turn Tp	Turn Ang	Leg Length	Min Seg Length
IF		EBGIX			0.0	0.0
TF	EBGIX	TUGUB	FLY_BY		110.76	1.0

Q864 from EBGIX Evaluation Results Part 2/2

Leg Tp	Start Pt	End Pt	DTA1	DTA1 Turn Rad	DTA1 Turn Alt	DTA1 Turn Spd	DTA1 Bank Ang	DTA1 Tailwind	DTA1 True Airspeed	DTA1 vGround	DTA2	DTA2 Turn Rad	DTA2 Turn Alt	DTA2 Turn Spd	DTA2 Bank Ang	DTA2 Tailwind	DTA2 True Airspeed	DTA2 vGround
IF		EBGIX			0.0	0.0							0.0	0.0				
TF	EBGIX	TUGUB	0.0		45000.0	300.0	0.0	136.1	683.91	570.0	0.0		45000.0	300.0	0.0	136.1	683.91	570.0

No obstacles evaluated.

Q864

Evaluation Input

Name:	RS Results Q864
Project:	Q864.tgs 201119
Last Evaluated:	19-Nov-2020 18:48:34
Evaluated Obstacles?:	false
Obstacle Database:	
Converted 9I Accuracies to 4D?:	false
Evaluated Terrain?:	false
Worst Case Vegetation Height (ft) AGL:	0
Evaluated Airspace?:	false
Maximum Aircraft Category:	D
Terrain Point Result Limit:	50

Route Settings

Route Type:	Q
Aircraft Category:	D

Altitude Inputs

Start Pt	End Pt	MEA	MEA Dir	RMEA	RMEA Dir	MRA	MAA	GNSS MEA
EBGIX	TUGUB	18000						18000

Obstacle ROC Reduction

Start Pt	End Pt	ROC Reduction
EBGIX	TUGUB	

Criteria Failures and Warnings

No failures.

Software Evaluation Failures, Warnings, and Notes

No failures.

Obstacles Requiring Accuracy Code Verification

None.

Ignored Obstacles

None.

Q864

Procedure Notes

GNSS REQUIRED

Database Effective Dates

Database	Date
UddfObstacle	07/13/2017
Tiled IFPA	N/A
OEAAA	N/A
DOF	10/08/2020
NFDC	11/05/2020
IFP_OFFLINE	N/A
AVNII_OFFLINE	N/A
IFPA	11/19/2020
CIFP	11/05/2020

Notes:

GNSS REQUIRED

EBGIX is moving 1.16NM east to the US/Canada border.

TUGUB is moving 1.23NM west to the US/Canada border.

DME DME Assessment Results for Q864 path EBGIX__TUGUB__

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Steve CTR Jubb
Project File:	C:\RNAV project tgs files and docs\Current Work\T Routes\NEC VOR MON\Q864\Q864.tgs 201118.tgs
Output File:	C:\RNAV project tgs files and docs\Current Work\T Routes\NEC VOR MON\Q864\Q864 20201119_1838 EST\EBGIX__TUGUB__\Q864 RNAV ROUTE EBGIX TUGUB 20201119_1838 EST.pdf
Procedure Name:	Q864
Software: DmeDmePlugin:	6.2.0
Date/Time:	11/19/2020 18:38 EST
Databases:	DTED 0 MAX

Failures

No Failures

Warnings

No Warnings

Notes For Flight Check

GNSS REQUIRED

Flight Plan

Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
EBGIX__	WP	N45° 43' 32.67", W070° 23' 50.92"	18000	VNAV	240	FLY_BY	TF
TUGUB__	WP	N45° 58' 42.08", W067° 46' 52.21"	18000	VNAV	240	FLY_BY	TF

Flyability

Flight Type:	RNAV_ROUTE
Selected Airport:	
Climb Gradient:	None assigned
Speeds:	200 Ground Speed to 11000 FT
	240 Ground Speed to 18000 FT
	260 Ground Speed to 24000 FT
	340 Ground Speed above 24000 FT
Descent During a Turn:	Allowed
VNAV Mode:	Flight Plan

DME DME Assessment Results for Q864 path EBGIX__TUGUB__

DME/DME	
RNP:	RNP 2
Flight Mode:	Manual
Line of Sight (DTED Level 0 Max):	Evaluated
Inertial Drift:	Enabled
Initial Drift:	0.558 NM
INS Drift Rate:	8.0 NM/Hour
Range Mode:	OSV
RNP Edges:	Evaluated
Min DME Range:	3.0 NM
DME Types:	DME, VOR-DME, VORTAC
DME Include Angles:	30 to 150
Critical DMEs:	Not Allowed
DoD Facilities:	Not included
Foreign Facilities:	Not included
High DMEs:	Included
Low DMEs:	Not included
Terminal DMEs:	Not included
Flight Check DMEs:	Not selected
Higher Altitudes:	Not Evaluated
Near Maximum Altitude:	Not Evaluated
Automatic ESVs:	Not enabled
Disabled DMEs:	None

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	HUL	N46° 02' 22.18", W067° 50' 02.90"	21.0 W	130	H	IFPA	NO	Enabled	86.3 %	86.3 %
2	BGR	N44° 50' 30.46", W068° 52' 26.28"	19.0 W	130	H	IFPA	NO	Enabled	93.6 %	93.6 %
3	BML	N44° 38' 00.72", W071° 11' 10.29"	0.0 E	130	H	IFPA	NO	Enabled	30.7 %	30.7 %
4	AUG	N44° 19' 12.07", W069° 47' 47.63"	18.0 W	130	H	IFPA	NO	Enabled	48.5 %	48.5 %
5	PQI	N46° 46' 27.07", W068° 05' 40.37"	21.0 W	130	H	IFPA	NO	Enabled	83.2 %	83.2 %
6	MLT	N45° 35' 12.15", W068° 30' 55.67"	20.0 W	130	H	IFPA	NO	Enabled	93.6 %	93.6 %

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	BGR	BML	MLT	AUG		
9.0	BGR	BML	MLT	AUG	HUL	
34.1	HUL	BGR	PQI	AUG	MLT	
53.8	HUL	BGR	PQI	MLT		
89.4	HUL	PQI	BGR			
93.8	HUL	PQI				
96.5	HUL	PQI	MLT			
100.8	HUL	PQI	MLT	BGR		
104.6	PQI	MLT	BGR			

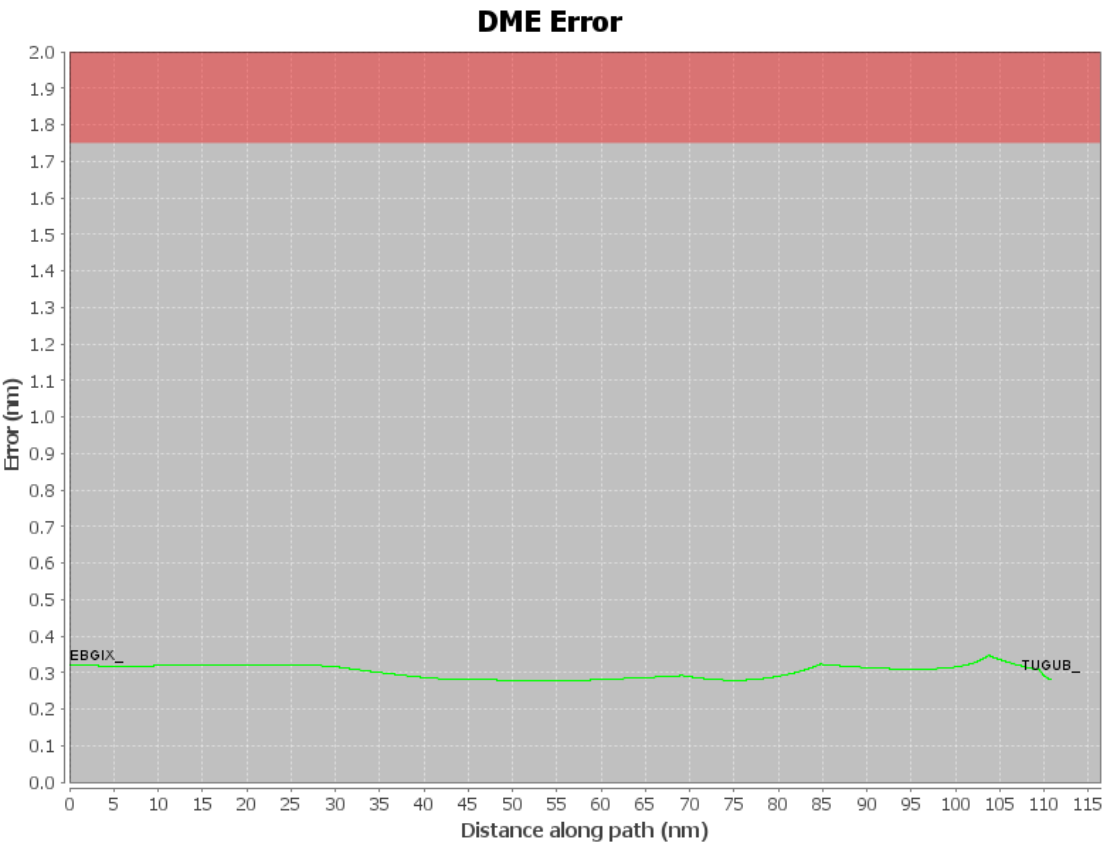
Inertial Drift Segments			
#	Start Location	End Location	Length [NM]

Available DMEs by Waypoints		
Waypoint Before	Waypoint After	DME List
EBGIX__	TUGUB__	BML, AUG, MLT, PQI, BGR, HUL

DME DME Assessment Results for Q864 path EBGIX__TUGUB__

User Data Files								
#	File Name							
None								
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
None								

DME DME Assessment Results for Q864 path EBGIX__TUGUB_



DME DME Assessment Results for Q864 path TUGUB__EBGIX__

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Steve CTR Jubb
Project File:	C:\RNAV project tgs files and docs\Current Work\T Routes\NEC VOR MON\Q864\Q864.tgs 201118.tgs
Output File:	C:\RNAV project tgs files and docs\Current Work\T Routes\NEC VOR MON\Q864\Q864 20201119_1838 EST\TUGUB__EBGIX__\Q864 RNAV ROUTE TUGUB EBGIX 20201119_1838 EST.pdf
Procedure Name:	Q864
Software: DmeDmePlugin:	6.2.0
Date/Time:	11/19/2020 18:38 EST
Databases:	DTED 0 MAX

Failures

NO_COVERAGE_BEGINNING_OF_ROUTE	Critical at beginning of route starting at TUGUB__
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Warnings

No Warnings

Notes For Flight Check

GNSS REQUIRED

Flight Plan

Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
TUGUB__	WP	N45° 58' 42.08", W067° 46' 52.21"	18000	VNAV	240	FLY_BY	TF
EBGIX__	WP	N45° 43' 32.67", W070° 23' 50.92"	18000	VNAV	240	FLY_BY	TF

Flyability

Flight Type:	RNAV_ROUTE
Selected Airport:	
Climb Gradient:	None assigned
Speeds:	200 Ground Speed to 11000 FT
	240 Ground Speed to 18000 FT
	260 Ground Speed to 24000 FT
	340 Ground Speed above 24000 FT
Descent During a Turn:	Allowed
VNAV Mode:	Flight Plan

DME DME Assessment Results for Q864 path TUGUB__EBGIX__

DME/DME	
RNP:	RNP 2
Flight Mode:	Manual
Line of Sight (DTED Level 0 Max):	Evaluated
Inertial Drift:	Enabled
Initial Drift:	0.558 NM
INS Drift Rate:	8.0 NM/Hour
Range Mode:	OSV
RNP Edges:	Evaluated
Min DME Range:	3.0 NM
DME Types:	DME, VOR-DME, VORTAC
DME Include Angles:	30 to 150
Critical DMEs:	Not Allowed
DoD Facilities:	Not included
Foreign Facilities:	Not included
High DMEs:	Included
Low DMEs:	Not included
Terminal DMEs:	Not included
Flight Check DMEs:	Not selected
Higher Altitudes:	Not Evaluated
Near Maximum Altitude:	Not Evaluated
Automatic ESVs:	Not enabled
Disabled DMEs:	None

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	HUL	N46° 02' 22.18", W067° 50' 02.90"	21.0 W	130	H	IFPA	NO	Enabled	86.3 %	86.3 %
2	BGR	N44° 50' 30.46", W068° 52' 26.28"	19.0 W	130	H	IFPA	NO	Enabled	93.6 %	93.6 %
3	BML	N44° 38' 00.72", W071° 11' 10.29"	0.0 E	130	H	IFPA	NO	Enabled	30.7 %	30.7 %
4	AUG	N44° 19' 12.07", W069° 47' 47.63"	18.0 W	130	H	IFPA	NO	Enabled	48.5 %	48.5 %
5	PQI	N46° 46' 27.07", W068° 05' 40.37"	21.0 W	130	H	IFPA	NO	Enabled	83.2 %	83.2 %
6	MLT	N45° 35' 12.15", W068° 30' 55.67"	20.0 W	130	H	IFPA	NO	Enabled	93.6 %	93.6 %

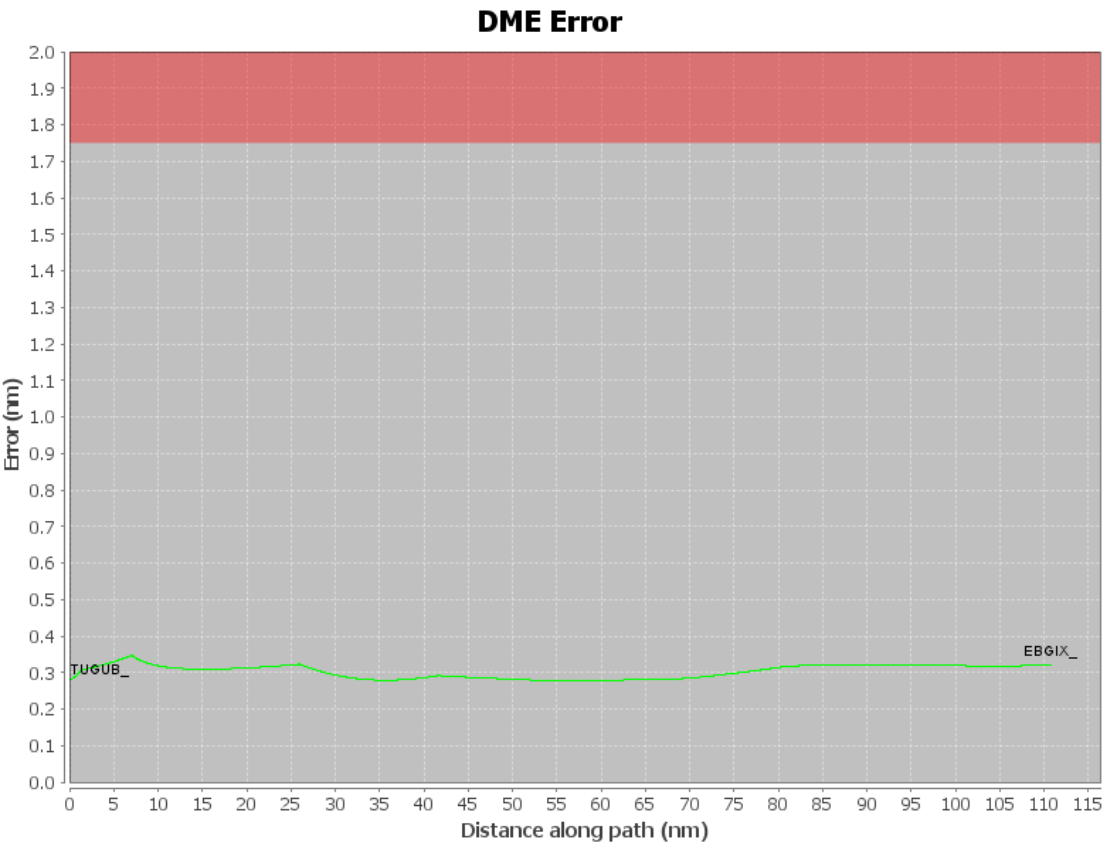
Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	PQI	MLT	BGR			
6.2	PQI	MLT	HUL	BGR		
10.0	HUL	PQI	MLT			
14.3	HUL	PQI				
17.1	HUL	PQI	BGR			
21.4	HUL	PQI	BGR	MLT		
57.0	HUL	BGR	PQI	MLT	AUG	
92.2	AUG	MLT	BGR	BML	HUL	
101.8	BGR	BML	MLT	AUG		

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

Available DMEs by Waypoints		
Waypoint Before	Waypoint After	DME List
TUGUB__	EBGIX__	BML, AUG, MLT, PQI, BGR, HUL

DME DME Assessment Results for Q864 path TUGUB_EBGIX_

User Data Files								
#	File Name							
None								
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
None								



DME DME Assessment Results for Q864 path EBGIX__TUGUB__

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Procedure Name:	Q864
Software: DmeDmePlugin:	6.2.0
Date/Time:	11/19/2020 18:38 EST
Databases:	DTED 0 MAX

Failures

No Failures

Warnings

No Warnings

Notes For Flight Check

GNSS REQUIRED

Flight Plan

Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
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Flyability

Flight Type:	RNAV_ROUTE
Selected Airport:	
Climb Gradient:	None assigned
Speeds:	200 Ground Speed to 11000 FT
	240 Ground Speed to 18000 FT
	260 Ground Speed to 24000 FT
	340 Ground Speed above 24000 FT
Descent During a Turn:	Allowed
VNAV Mode:	Flight Plan

DME DME Assessment Results for Q864 path EBGIX__TUGUB__

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
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Low DMEs:	Not included
Terminal DMEs:	Not included
Flight Check DMEs:	Not selected
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Near Maximum Altitude:	Not Evaluated
Automatic ESVs:	Not enabled
Disabled DMEs:	None

DME/DME (Continued)										
DMEs Used										
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3	BML	N44° 38' 00.72", W071° 11' 10.29"	0.0 E	130	H	IFPA	NO	Enabled	30.7 %	30.7 %
4	AUG	N44° 19' 12.07", W069° 47' 47.63"	18.0 W	130	H	IFPA	NO	Enabled	48.5 %	48.5 %
5	PQI	N46° 46' 27.07", W068° 05' 40.37"	21.0 W	130	H	IFPA	NO	Enabled	83.2 %	83.2 %
6	MLT	N45° 35' 12.15", W068° 30' 55.67"	20.0 W	130	H	IFPA	NO	Enabled	93.6 %	93.6 %

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	BGR	BML	MLT	AUG		
9.0	BGR	BML	MLT	AUG	HUL	
34.1	HUL	BGR	PQI	AUG	MLT	
53.8	HUL	BGR	PQI	MLT		
89.4	HUL	PQI	BGR			
93.8	HUL	PQI				
96.5	HUL	PQI	MLT			
100.8	HUL	PQI	MLT	BGR		
104.6	PQI	MLT	BGR			

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

Available DMEs by Waypoints		
Waypoint Before	Waypoint After	DME List
EBGIX__	TUGUB__	BML, AUG, MLT, PQI, BGR, HUL

DME DME Assessment Results for Q864 path EBGIX__TUGUB__

User Data Files								
#	File Name							
None								
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
None								

DME DME Assessment Results for Q864 path EBGIX__TUGUB_

