

DME DME Assessment Results for RYYMN3 path JONIL_DRUMZ

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Erik J-CTR John
Project File:	C:\Users\Erik J-CTR John\OneDrive - Federal Aviation Administration\Desktop\PROJECT FILES\KBNA\KBNA RYYMN3 (RNAV) STAR\KBNA RYYMN3 (RNAV) STAR DME 29 JAN 2025.tgs
Output File:	C:\Users\Erik J-CTR John\OneDrive - Federal Aviation Administration\Desktop\PROJECT FILES\KBNA\KBNA RYYMN3 (RNAV) STAR\DME\KBNA [IFPA] RYYMN3 20250129_1117 EST\JONIL_DRUMZ\KBNA RYYMN3 RNAV STAR JONIL DRUMZ 20250129_1117 EST.pdf
Procedure Name:	RYYMN3
Software: DmeDmePlugin:	7.4.1
Date/Time:	01/29/2025 11:17 EST
Databases:	MITRE 3DEP 3 arcsec

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
JONIL	WP	N36° 36' 29.630000000", W086° 58' 12.510000000"	10000	VNAV	280	FLY_BY	TF
WILEE	WP	N36° 29' 23.615502114", W086° 52' 46.007682081"	9000	VNAV	210	FLY_BY	TF
DRUMZ	WP	N36° 26' 38.796573435", W086° 49' 09.457654843"	9000	VNAV	210	FLY_OVER	TF

Flyability

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

DME DME Assessment Results for RYYMN3 path JONIL_DRUMZ

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, TACAN
DME Include Angles:	30 to 150
Critical DMEs:	Not Allowed
DoD Facilities:	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:	DOB,SKE

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	BNA	N36° 08' 13.0573000000", W086° 41' 05.1762000000"	2.0 W	130	H		NO	Enabled	100 %	100 %
2	HXW	N36° 39' 33.4930000000", W087° 30' 40.0890000000"	1.0 W	40	L		NO	Enabled	100 %	100 %
3	CKV	N36° 37' 19.1497000000", W087° 24' 45.5732000000"	1.0 W	25	T		NO	Enabled	3.4 %	3.8 %
4	DOB	N33° 54' 52.7500000000", W084° 30' 26.3200000000"	3.0 W	25	T	IFPA	NO	Disabled		
5	SKE	N38° 32' 43.3024000000", W089° 51' 05.9247000000"	2.0 W	25	T	IFPA	NO	Disabled		

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	CKV	BNA	HXW			
0.5	HXW	BNA				

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

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
JONIL	WILEE	BNA, HXW, CKV	
WILEE	DRUMZ	BNA, HXW	

DME DME Assessment Results for RYYMN3 path JONIL_DRUMZ

User Data Files

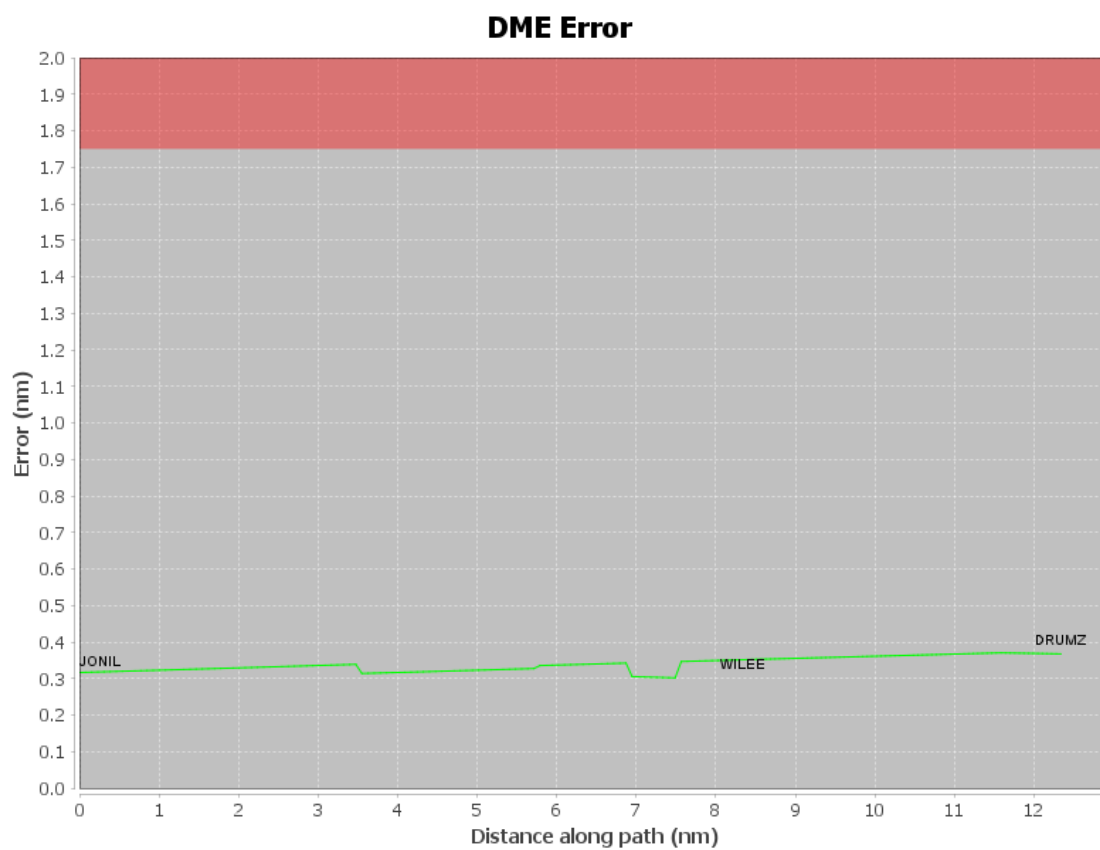
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User DMEs

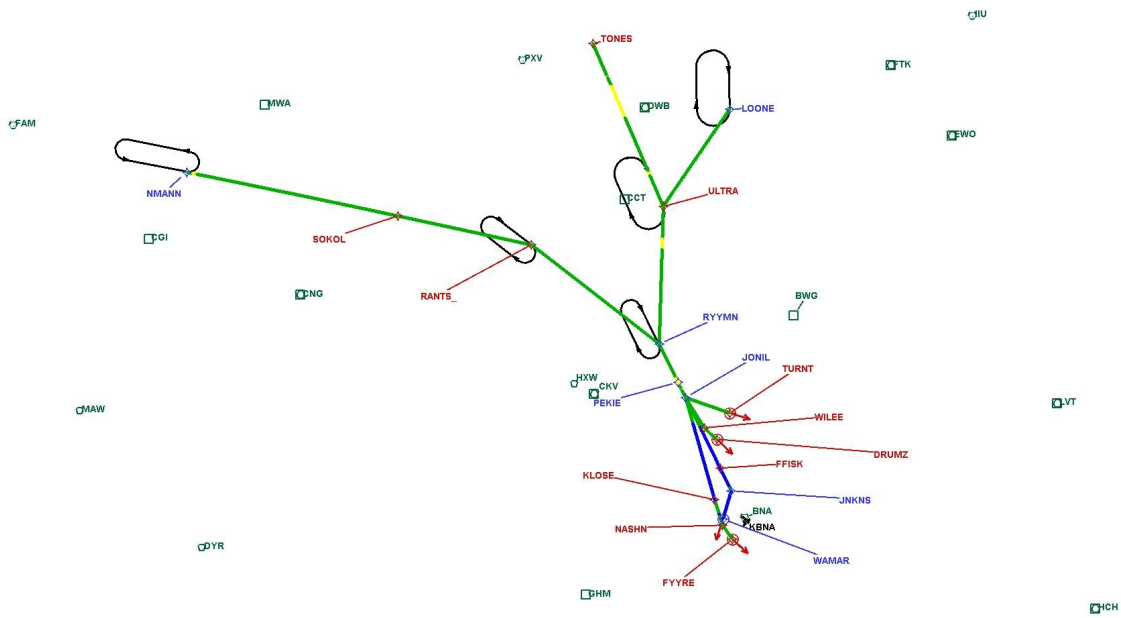
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	EWO FAA 200445-17 EWO	N37° 37' 54.521000000", W085° 40' 33.159000000"	1.0 E	40	960	113.95	EWO FAA 200445-17	
ESV:		Bearing [True]: 279.0° to 291.0° Bearing [Mag]: 278.0° to 290.0°				Arc Distance: Out to 105.0 NM Altitude: 9900.0 to 19000.0 ft		
2	GHM FAA 755483-13 GHM	N35° 50' 02.191100000", W087° 27' 06.482400000"	0.0 E	40	774.1	111.6	GHM FAA 755483-13	
ESV:		Bearing [True]: 52.0° to 109.0° Bearing [Mag]: 52.0° to 109.0°				Arc Distance: Out to 65.0 NM Altitude: 4000.0 to 20000.0 ft		
3	IIU FAA 704184-65 IIU	N38° 06' 12.471800000", W085° 34' 38.771700000"	1.0 E	130	719.7	114.8	IIU FAA 704184-65	
ESV:		Bearing [True]: 223.0° to 244.0° Bearing [Mag]: 222.0° to 243.0°				Arc Distance: Out to 100.0 NM Altitude: 10900.0 to 15300.0 ft		
4	BNA FAA 698156-40 BNA	N36° 08' 13.057300000", W086° 41' 05.176200000"	2.0 W	130	566.4	114.1	BNA FAA 698156-40	
ESV:		Bearing [True]: 316.0° to 340.0° Bearing [Mag]: 318.0° to 342.0°				Arc Distance: Out to 79.0 NM Altitude: 10000.0 to 15100.0 ft		
5	GHM FAA 755483-22 GHM	N35° 50' 02.191100000", W087° 27' 06.482400000"	0.0 E	40	774.1	111.6	GHM FAA 755483-22	
ESV:		Bearing [True]: 272.0° to 25.0° Bearing [Mag]: 272.0° to 25.0°				Arc Distance: Out to 64.0 NM Altitude: 10000.0 to 16000.0 ft		
6	CCT FAA 703978-11 CCT	N37° 22' 56.718200000", W087° 15' 49.332500000"	0.0 E	40	452.2	109.8	CCT FAA 703978-11	
ESV:		Bearing [True]: 142.0° to 162.0° Bearing [Mag]: 142.0° to 162.0°				Arc Distance: Out to 66.0 NM Altitude: 5800.0 to 12000.0 ft		

DME DME Assessment Results for RYYMN3 path JONIL_DRUMZ



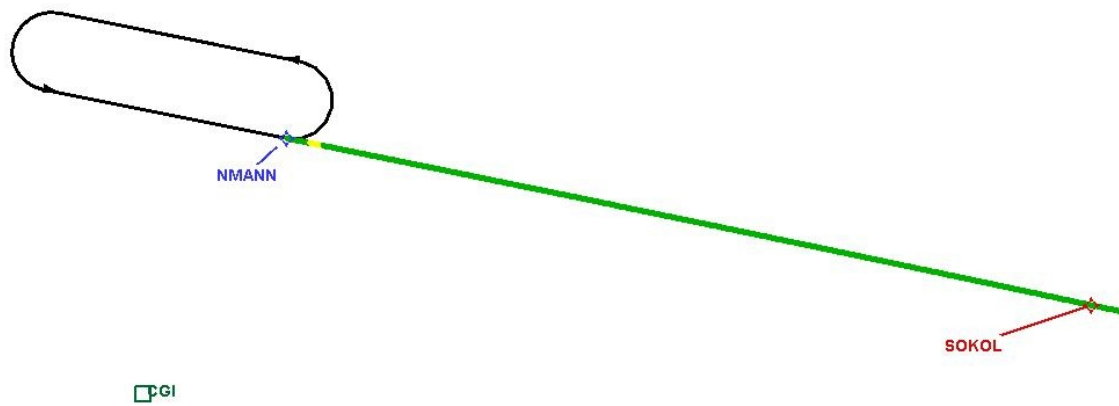
DME DME Assessment Results for RYYMN3 path JONIL_DRUMZ

Graphic Depiction 1



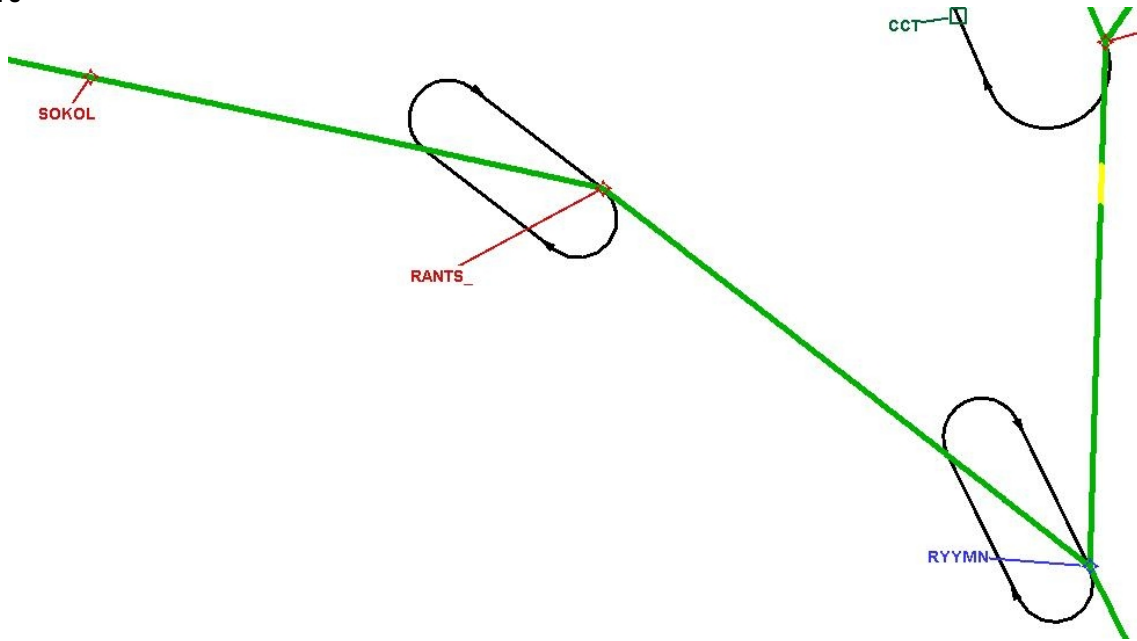
DME DME Assessment Results for RYYMN3 path JONIL_DRUMZ

Graphic Depiction 2



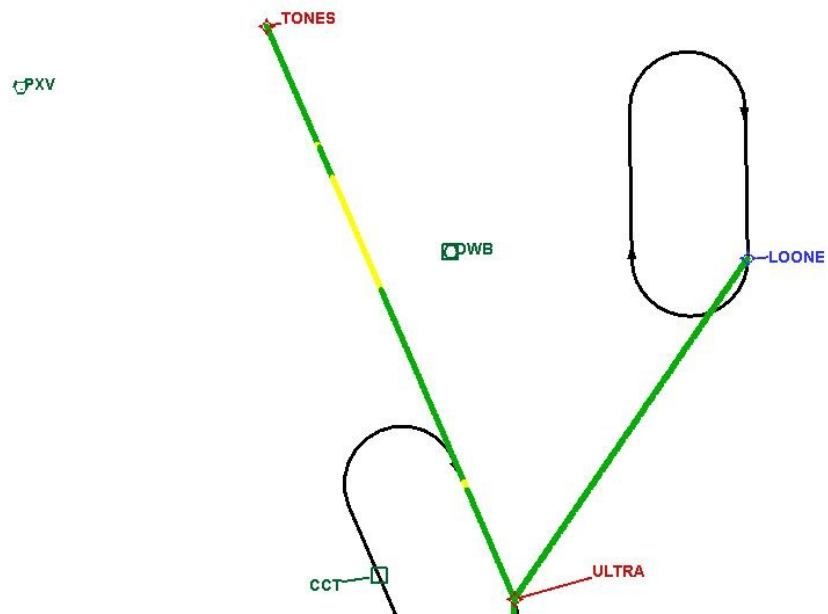
DME DME Assessment Results for RYYMN3 path JONIL_DRUMZ

Graphic Depiction 3



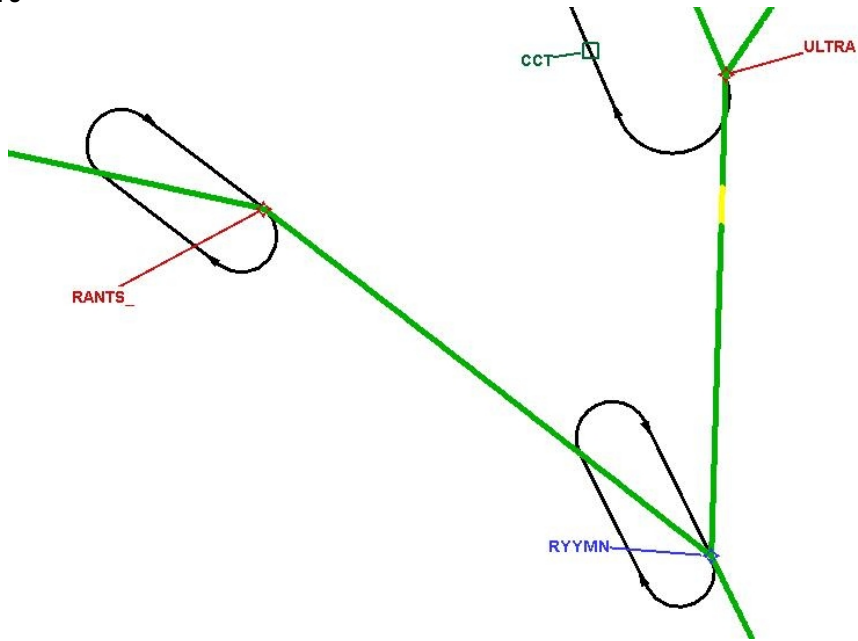
DME DME Assessment Results for RYYMN3 path JONIL_DRUMZ

Graphic Depiction 4



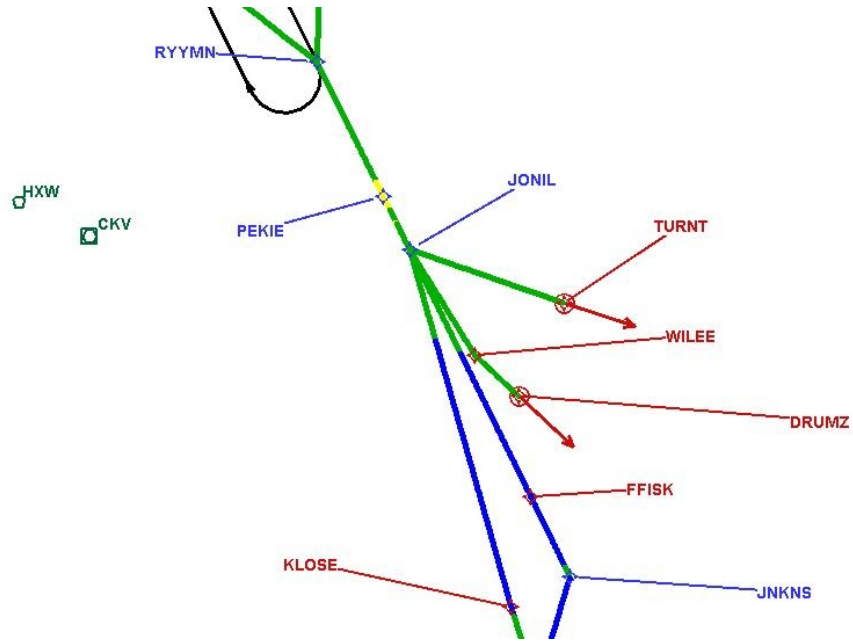
DME DME Assessment Results for RYYMN3 path JONIL_DRUMZ

Graphic Depiction 5



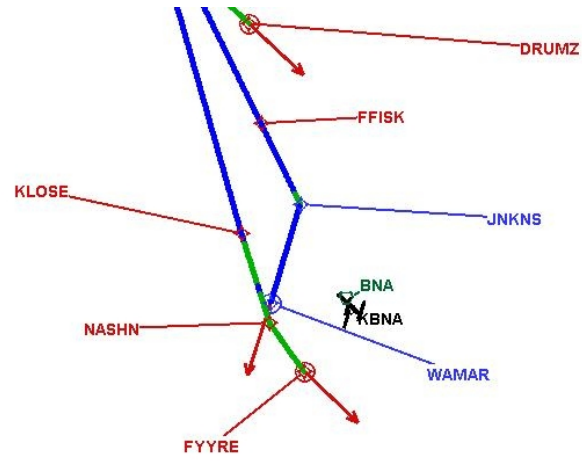
Graphic Depiction 6

DME DME Assessment Results for RYYMN3 path JONIL_DRUMZ



Graphic Depiction 7

DME DME Assessment Results for RYYMN3 path JONIL_DRUMZ



PHM

DME DME Assessment Results for RYYMN3 path JONIL_TURN

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Erik J-CTR John
Project File:	C:\Users\Erik J-CTR John\OneDrive - Federal Aviation Administration\Desktop\PROJECT FILES\KBNA\KBNA RYYMN3 (RNAV) STAR\KBNA RYYMN3 (RNAV) STAR DME 29 JAN 2025.tgs
Output File:	C:\Users\Erik J-CTR John\OneDrive - Federal Aviation Administration\Desktop\PROJECT FILES\KBNA\KBNA RYYMN3 (RNAV) STAR\DME\KBNA [IFPA] RYYMN3 20250129_1117 EST\JONIL_TURN\KBNA RYYMN3 RNAV STAR JONIL_TURN 20250129_1117 EST.pdf
Procedure Name:	RYYMN3
Software: DmeDmePlugin:	7.4.1
Date/Time:	01/29/2025 11:17 EST
Databases:	MITRE 3DEP 3 arcsec

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
JONIL	WP	N36° 36' 29.630000000", W086° 58' 12.510000000"	10000	VNAV	280	FLY_BY	TF
TURN	WP	N36° 32' 54.124894346", W086° 45' 25.757402061"	7000	VNAV	210	FLY_OVER	TF

Flyability

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

DME DME Assessment Results for RYYMN3 path JONIL_TURN1

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, TACAN
DME Include Angles:	30 to 150
Critical DMEs:	Not Allowed
DoD Facilities:	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:	DOB,SKE

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	BNA	N36° 08' 13.057300000", W086° 41' 05.176200000"	2.0 W	130	H		NO	Enabled	100 %	100 %
2	CCT	N37° 22' 56.718200000", W087° 15' 49.332500000"	0.0 E	40	L		NO	Enabled	62.4 %	62.4 %
3	HXW	N36° 39' 33.493000000", W087° 30' 40.089000000"	1.0 W	40	L		NO	Enabled	100 %	100 %
4	CKV	N36° 37' 19.149700000", W087° 24' 45.573200000"	1.0 W	25	T		NO	Enabled	22 %	22 %
5	DOB	N33° 54' 52.750000000", W084° 30' 26.320000000"	3.0 W	25	T	IFPA	NO	Disabled		
6	SKE	N38° 32' 43.302400000", W089° 51' 05.924700000"	2.0 W	25	T	IFPA	NO	Disabled		

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	CKV	BNA	HXW			
2.5	HXW	BNA				
4.1	HXW	BNA	CCT			

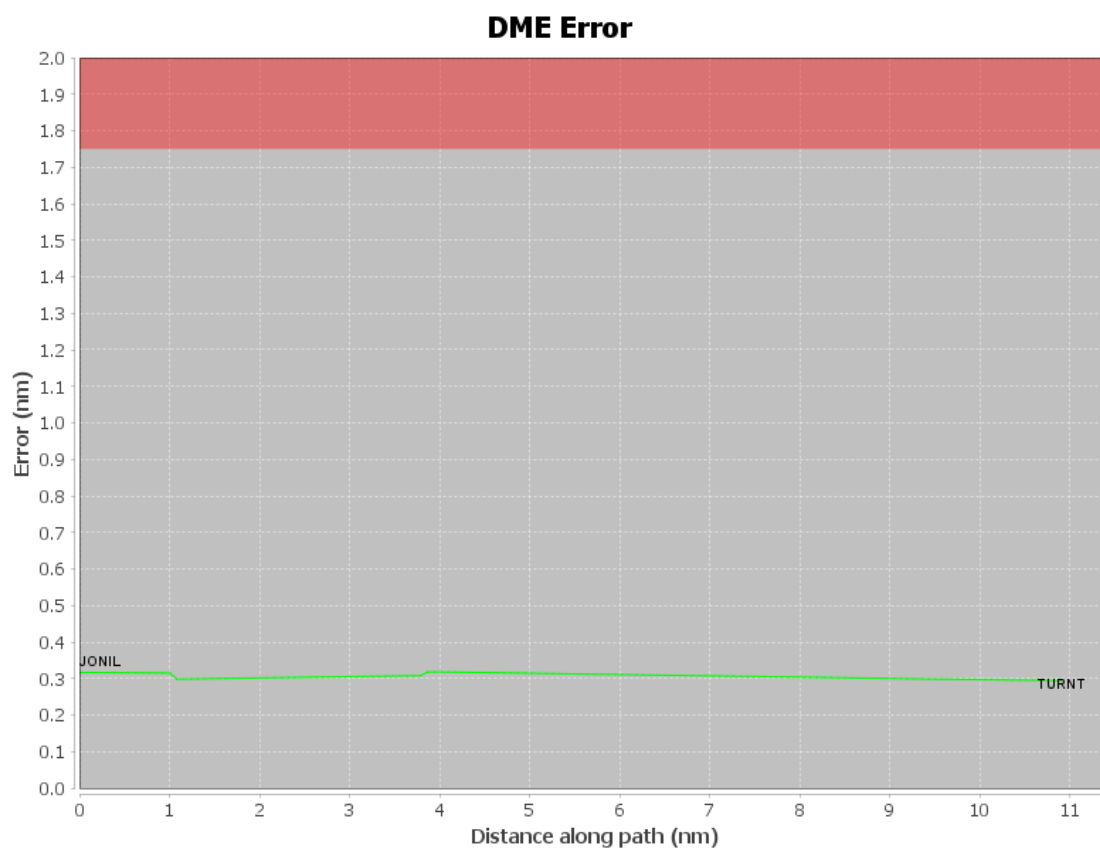
Inertial Drift Segments			
#	Start Location	End Location	Length [NM]

DME DME Assessment Results for RYYMN3 path JONIL_TURN

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
JONIL	TURN	BNA, CCT, HXW, CKV	

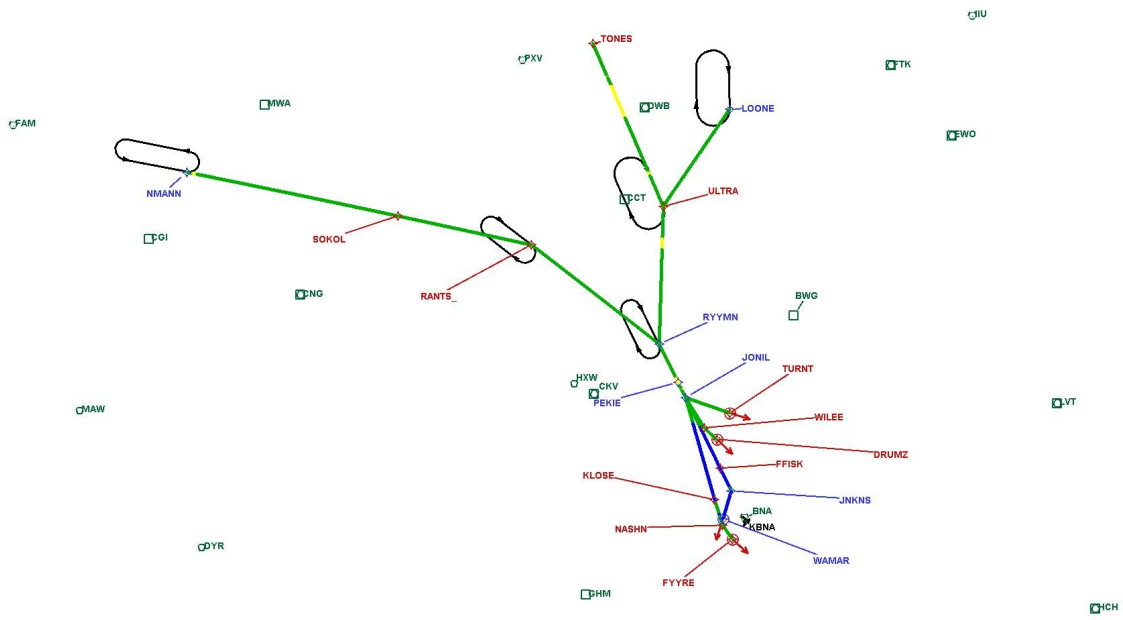
User Data Files								
#	File Name							
None								
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	EWO FAA 200445-17 EWO	N37° 37' 54.521000000", W085° 40' 33.159000000"	1.0 E	40	960	113.95	EWO FAA 200445-17	
ESV:		Bearing [True]: 279.0° to 291.0° Bearing [Mag]: 278.0° to 290.0°				Arc Distance: Out to 105.0 NM Altitude: 9900.0 to 19000.0 ft		
2	GHM FAA 755483-13 GHM	N35° 50' 02.191100000", W087° 27' 06.482400000"	0.0 E	40	774.1	111.6	GHM FAA 755483-13	
ESV:		Bearing [True]: 52.0° to 109.0° Bearing [Mag]: 52.0° to 109.0°				Arc Distance: Out to 65.0 NM Altitude: 4000.0 to 20000.0 ft		
3	IIU FAA 704184-65 IIU	N38° 06' 12.471800000", W085° 34' 38.771700000"	1.0 E	130	719.7	114.8	IIU FAA 704184-65	
ESV:		Bearing [True]: 223.0° to 244.0° Bearing [Mag]: 222.0° to 243.0°				Arc Distance: Out to 100.0 NM Altitude: 10900.0 to 15300.0 ft		
4	BNA FAA 698156-40 BNA	N36° 08' 13.057300000", W086° 41' 05.176200000"	2.0 W	130	566.4	114.1	BNA FAA 698156-40	
ESV:		Bearing [True]: 316.0° to 340.0° Bearing [Mag]: 318.0° to 342.0°				Arc Distance: Out to 79.0 NM Altitude: 10000.0 to 15100.0 ft		
5	GHM FAA 755483-22 GHM	N35° 50' 02.191100000", W087° 27' 06.482400000"	0.0 E	40	774.1	111.6	GHM FAA 755483-22	
ESV:		Bearing [True]: 272.0° to 25.0° Bearing [Mag]: 272.0° to 25.0°				Arc Distance: Out to 64.0 NM Altitude: 10000.0 to 16000.0 ft		
6	CCT FAA 703978-11 CCT	N37° 22' 56.718200000", W087° 15' 49.332500000"	0.0 E	40	452.2	109.8	CCT FAA 703978-11	
ESV:		Bearing [True]: 142.0° to 162.0° Bearing [Mag]: 142.0° to 162.0°				Arc Distance: Out to 66.0 NM Altitude: 5800.0 to 12000.0 ft		

DME DME Assessment Results for RYYMN3 path JONIL_TURN



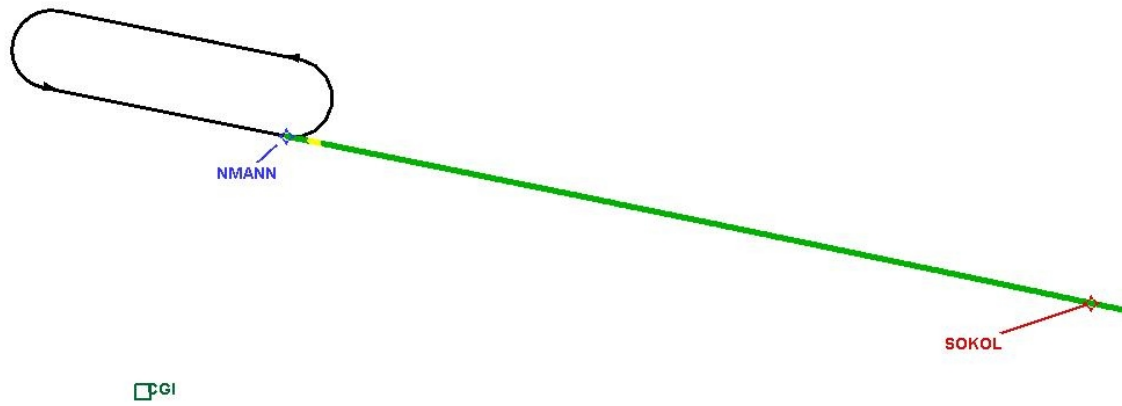
DME DME Assessment Results for RYYMN3 path JONIL_TURNT

Graphic Depiction 1



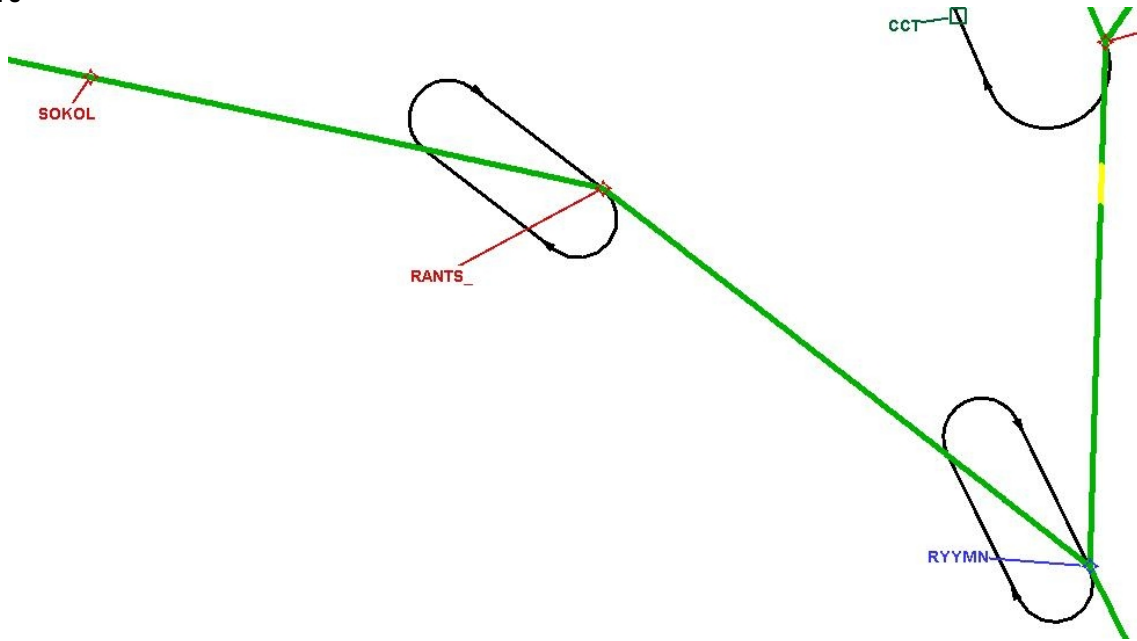
DME DME Assessment Results for RYYMN3 path JONIL_TURN

Graphic Depiction 2



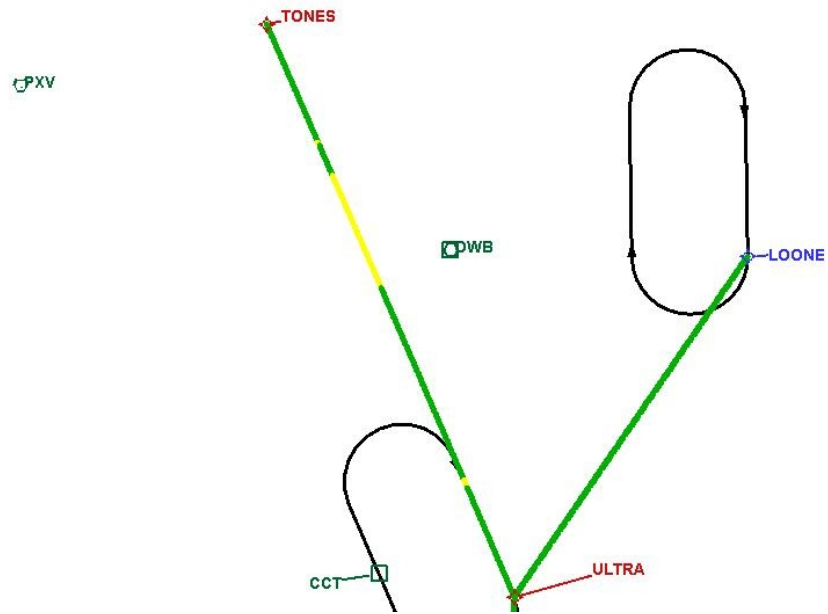
DME DME Assessment Results for RYYMN3 path JONIL_TURN

Graphic Depiction 3

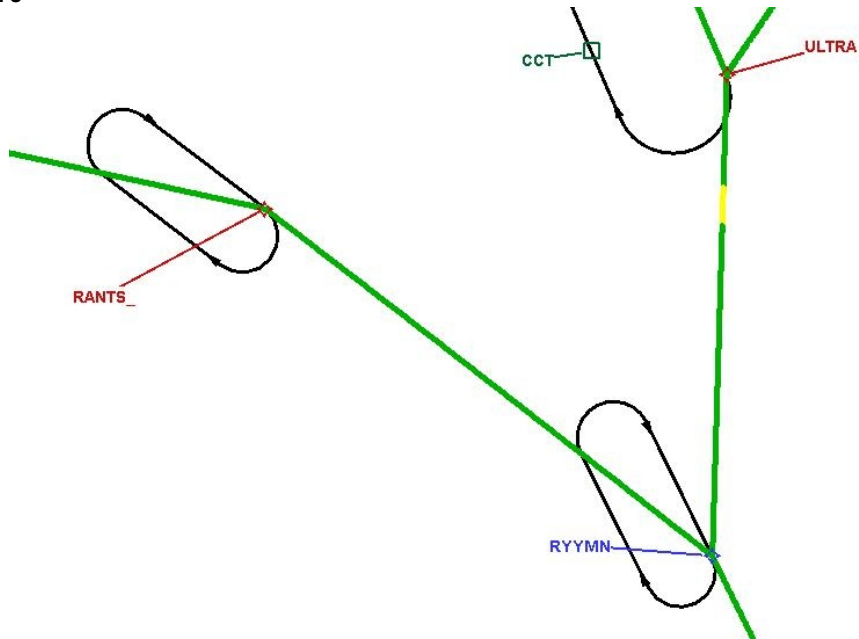


DME DME Assessment Results for RYYMN3 path JONIL_TURN

Graphic Depiction 4

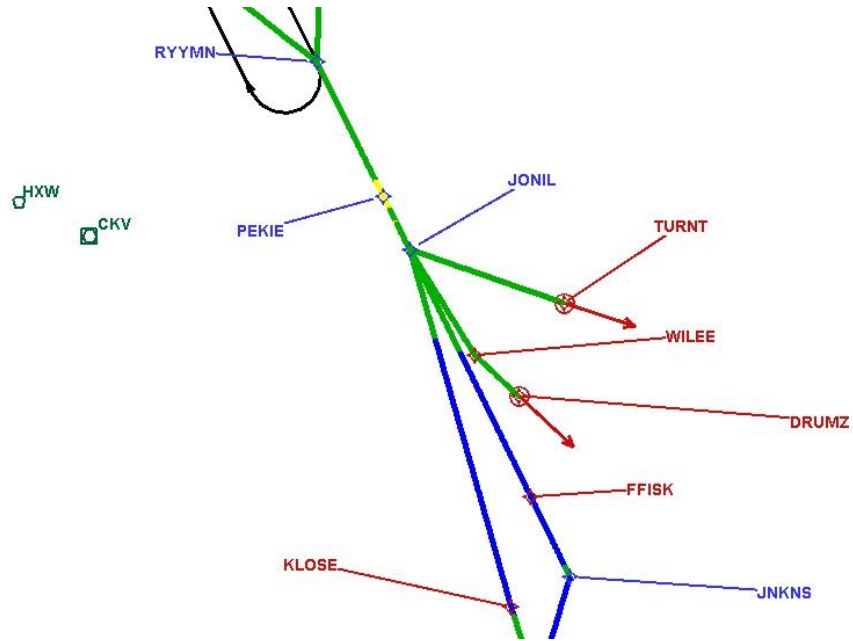


Graphic Depiction 5



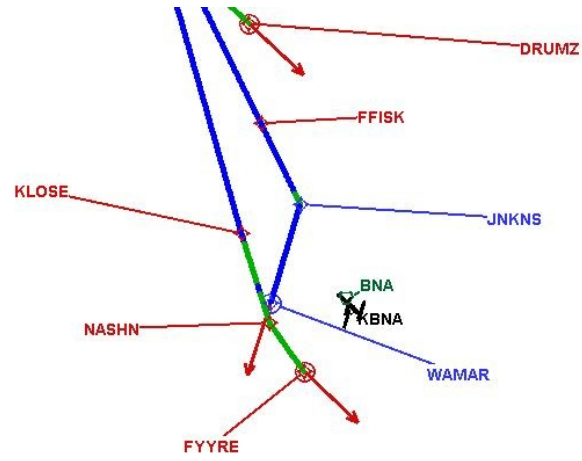
Graphic Depiction 6

DME DME Assessment Results for RYYMN3 path JONIL_TURN



Graphic Depiction 7

DME DME Assessment Results for RYYMN3 path JONIL_TURN



DME DME Assessment Results for RYYMN3 path JONIL_WAMAR

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Erik J-CTR John
Project File:	C:\Users\Erik J-CTR John\OneDrive - Federal Aviation Administration\Desktop\PROJECT FILES\KBNA\KBNA RYYMN3 (RNAV) STAR\KBNA RYYMN3 (RNAV) STAR DME 29 JAN 2025.tgs
Output File:	C:\Users\Erik J-CTR John\OneDrive - Federal Aviation Administration\Desktop\PROJECT FILES\KBNA\KBNA RYYMN3 (RNAV) STAR\DME\KBNA [IFPA] RYYMN3 20250129_1117 EST\JONIL_WAMAR\KBNA RYYMN3 RNAV STAR JONIL WAMAR 20250129_1117 EST.pdf
Procedure Name:	RYYMN3
Software: DmeDmePlugin:	7.4.1
Date/Time:	01/29/2025 11:17 EST
Databases:	MITRE 3DEP 3 arcsec

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
JONIL	WP	N36° 36' 29.630000000", W086° 58' 12.510000000"	10000	VNAV	280	FLY_BY	TF
FFISK	WP	N36° 19' 54.979993666", W086° 48' 08.472578448"	10000	VNAV	250	FLY_BY	TF
JNKNS	WP	N36° 14' 31.130000000", W086° 44' 52.840000000"	9000	VNAV	230	FLY_BY	TF
WAMAR	WP	N36° 07' 51.120000000", W086° 47' 21.230000000"	8000	VNAV	210	FLY_OVER	TF

Flyability

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

DME DME Assessment Results for RYYMN3 path JONIL_WAMAR

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, TACAN
DME Include Angles:	30 to 150
Critical DMEs:	Not Allowed
DoD Facilities:	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:	DOB,SKE

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	BNA	N36° 08' 13.0573000000", W086° 41' 05.1762000000"	2.0 W	130	H		NO	Enabled	25.6 %	27.1 %
2	HXW	N36° 39' 33.4930000000", W087° 30' 40.0890000000"	1.0 W	40	L		NO	Enabled	22.8 %	24.4 %
3	GHM	N35° 50' 02.1911000000", W087° 27' 06.4824000000"	0.0 E	40	L		NO	Enabled	2.8 %	2.6 %
4	CKV	N36° 37' 19.1497000000", W087° 24' 45.5732000000"	1.0 W	25	T		NO	Enabled	0.5 %	0.5 %
5	DOB	N33° 54' 52.7500000000", W084° 30' 26.3200000000"	3.0 W	25	T	IFPA	NO	Disabled		
6	SKE	N38° 32' 43.3024000000", W089° 51' 05.9247000000"	2.0 W	25	T	IFPA	NO	Disabled		

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	CKV	BNA	HXW			
0.2	HXW	BNA				
7.7						
23.6	GHM	BNA				
24.5						

DME DME Assessment Results for RYYMN3 path JONIL_WAMAR

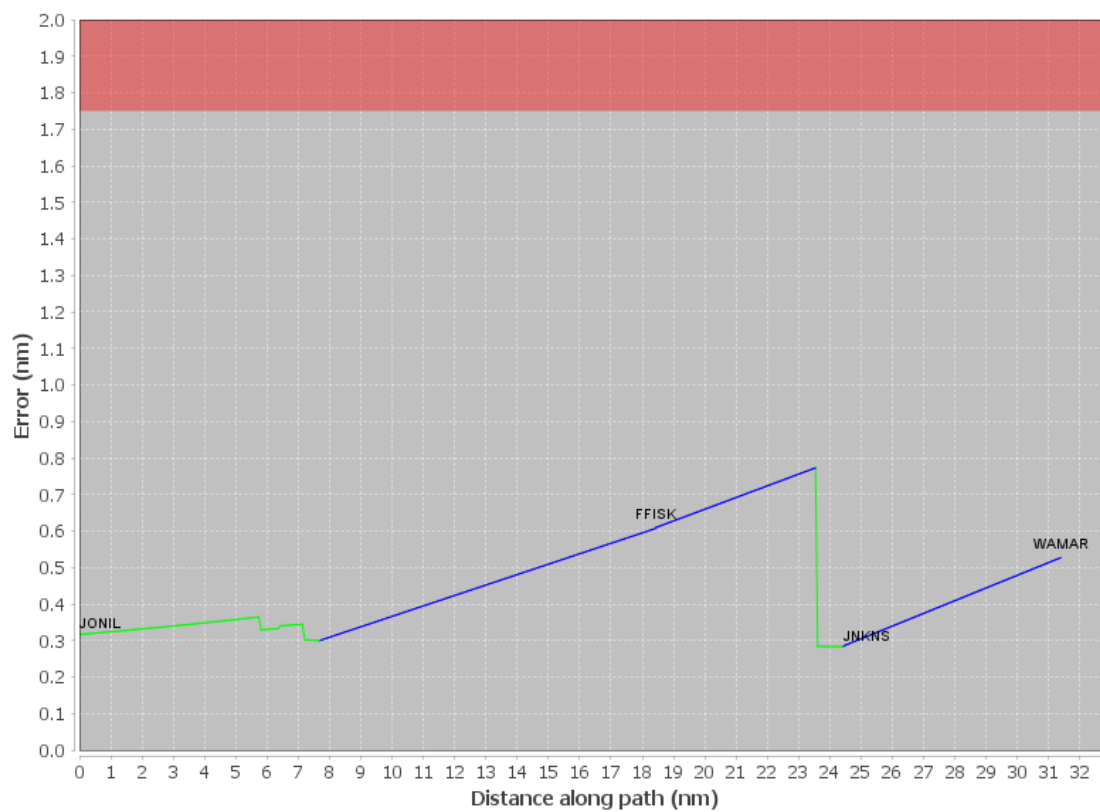
Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N36° 29' 31.818944447", W086° 53' 58.190283869"	N36° 15' 15.804536986", W086° 45' 19.797122060"	15.8709
2	N36° 14' 31.130000000", W086° 44' 52.840000000"	N36° 07' 51.120000000", W086° 47' 21.230000000"	6.9519

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
JONIL	FFISK	BNA, HXW, CKV	
FFISK	JNKNS	BNA, GHM	
JNKNS	WAMAR		

User Data Files								
#	File Name							
None								
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	EWO FAA 200445-17 EWO	N37° 37' 54.521000000", W085° 40' 33.159000000"	1.0 E	40	960	113.95	EWO FAA 200445-17	
ESV:		Bearing [True]: 279.0° to 291.0° Bearing [Mag]: 278.0° to 290.0°				Arc Distance: Out to 105.0 NM Altitude: 9900.0 to 19000.0 ft		
2	GHM FAA 755483-13 GHM	N35° 50' 02.191100000", W087° 27' 06.482400000"	0.0 E	40	774.1	111.6	GHM FAA 755483-13	
ESV:		Bearing [True]: 52.0° to 109.0° Bearing [Mag]: 52.0° to 109.0°				Arc Distance: Out to 65.0 NM Altitude: 4000.0 to 20000.0 ft		
3	IIU FAA 704184-65 IIU	N38° 06' 12.471800000", W085° 34' 38.771700000"	1.0 E	130	719.7	114.8	IIU FAA 704184-65	
ESV:		Bearing [True]: 223.0° to 244.0° Bearing [Mag]: 222.0° to 243.0°				Arc Distance: Out to 100.0 NM Altitude: 10900.0 to 15300.0 ft		
4	BNA FAA 698156-40 BNA	N36° 08' 13.057300000", W086° 41' 05.176200000"	2.0 W	130	566.4	114.1	BNA FAA 698156-40	
ESV:		Bearing [True]: 316.0° to 340.0° Bearing [Mag]: 318.0° to 342.0°				Arc Distance: Out to 79.0 NM Altitude: 10000.0 to 15100.0 ft		
5	GHM FAA 755483-22 GHM	N35° 50' 02.191100000", W087° 27' 06.482400000"	0.0 E	40	774.1	111.6	GHM FAA 755483-22	
ESV:		Bearing [True]: 272.0° to 25.0° Bearing [Mag]: 272.0° to 25.0°				Arc Distance: Out to 64.0 NM Altitude: 10000.0 to 16000.0 ft		
6	CCT FAA 703978-11 CCT	N37° 22' 56.718200000", W087° 15' 49.332500000"	0.0 E	40	452.2	109.8	CCT FAA 703978-11	
ESV:		Bearing [True]: 142.0° to 162.0° Bearing [Mag]: 142.0° to 162.0°				Arc Distance: Out to 66.0 NM Altitude: 5800.0 to 12000.0 ft		

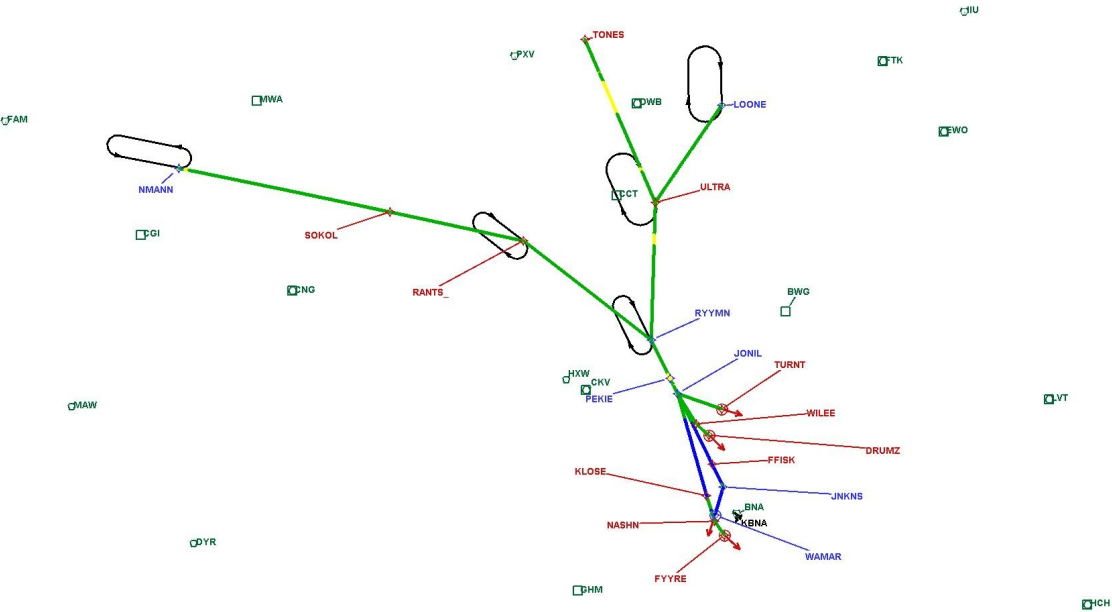
DME DME Assessment Results for RYYMN3 path JONIL_WAMAR

DME Error

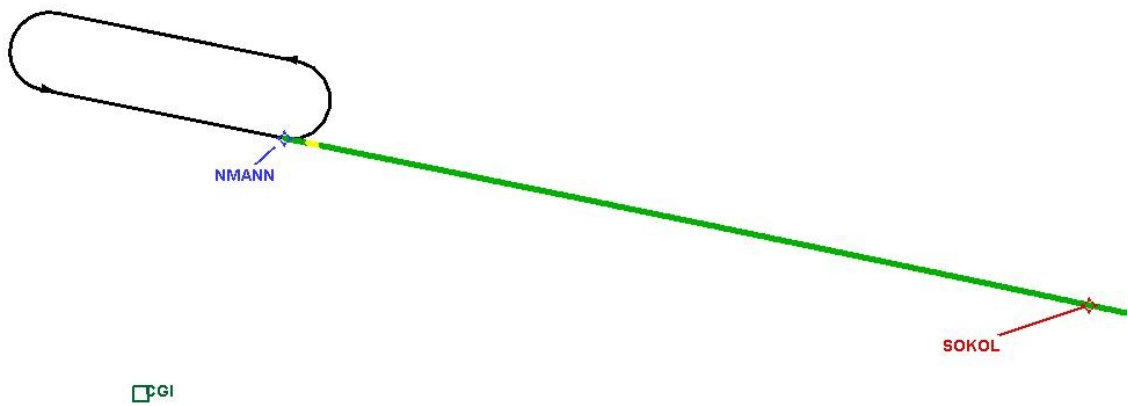


DME DME Assessment Results for RYYMN3 path JONIL_WAMAR

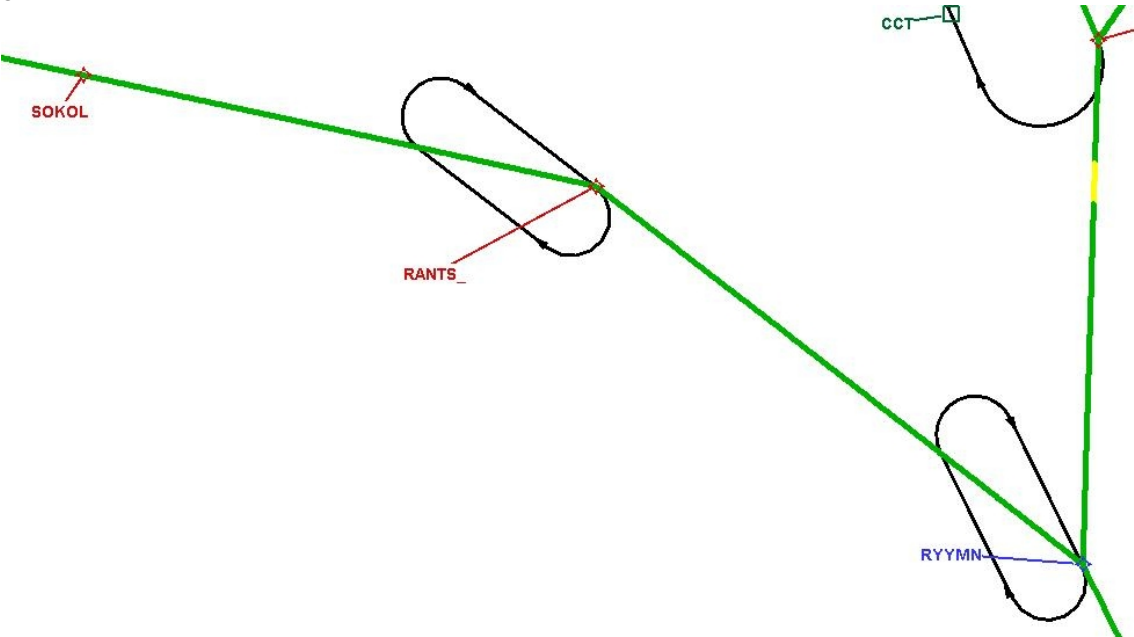
Graphic Depiction 1



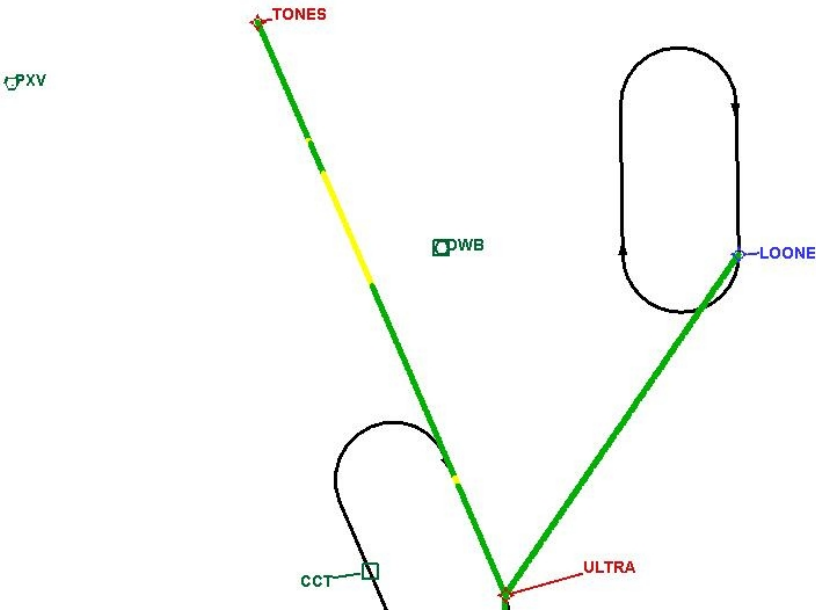
Graphic Depiction 2



Graphic Depiction 3

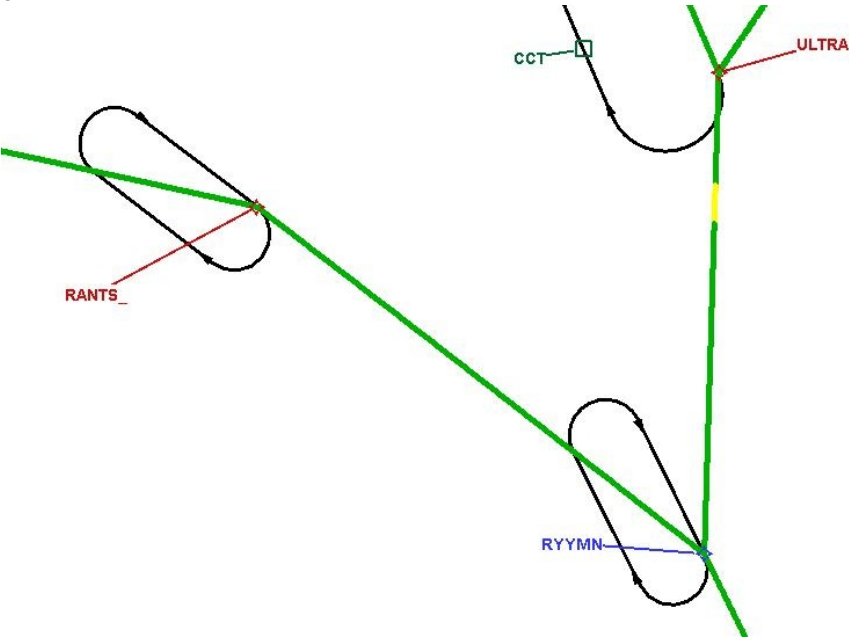


Graphic Depiction 4

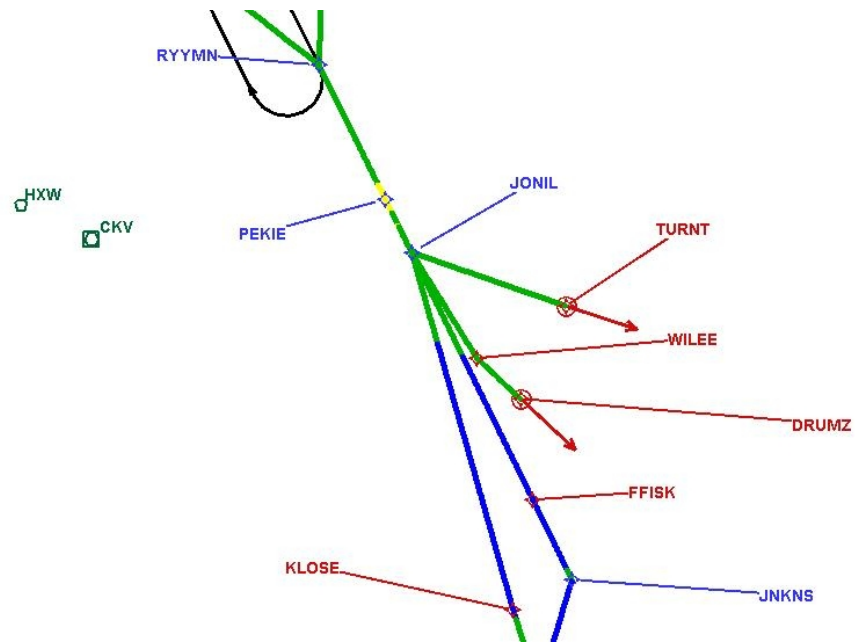


DME DME Assessment Results for RYYMN3 path JONIL_WAMAR

Graphic Depiction 5

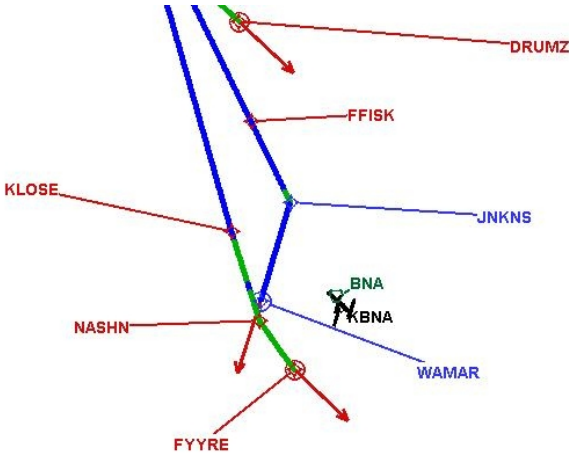


Graphic Depiction 6



DME DME Assessment Results for RYYMN3 path JONIL_WAMAR

Graphic Depiction 7



PHM

DME DME Assessment Results for RYYMN3 path LOONE_RYYMN

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Erik J-CTR John
Project File:	C:\Users\Erik J-CTR John\OneDrive - Federal Aviation Administration\Desktop\PROJECT FILES\KBNA\KBNA RYYMN3 (RNAV) STAR\KBNA RYYMN3 (RNAV) STAR DME 29 JAN 2025.tgs
Output File:	C:\Users\Erik J-CTR John\OneDrive - Federal Aviation Administration\Desktop\PROJECT FILES\KBNA\KBNA RYYMN3 (RNAV) STAR\DME\KBNA [IFPA] RYYMN3 20250129_1117 EST\LOONE_RYYMN\KBNA RYYMN3 RNAV STAR LOONE RYYMN 20250129_1117 EST.pdf
Procedure Name:	RYYMN3
Software: DmeDmePlugin:	7.4.1
Date/Time:	01/29/2025 11:17 EST
Databases:	MITRE 3DEP 3 arcsec

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
LOONE	WP	N37° 44' 14.430000000", W086° 45' 18.020000000"	12000	VNAV	280	FLY_BY	TF
ULTRA	WP	N37° 21' 22.311193758", W087° 04' 42.326443928"	12000	VNAV	280	FLY_BY	TF
RYYMN	WP	N36° 49' 04.120000000", W087° 05' 54.290000000"	11000	VNAV	280	FLY_BY	TF

Flyability

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

DME DME Assessment Results for RYYMN3 path LOONE_RYYMN

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, TACAN
DME Include Angles:	30 to 150
Critical DMEs:	Not Allowed
DoD Facilities:	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:	DOB,SKE

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	BWG	N36° 55' 43.468300000", W086° 26' 36.361900000"	0.0 E	130	DH		NO	Enabled	49.3 %	49.3 %
2	IIU	N38° 06' 12.471800000", W085° 34' 38.771700000"	1.0 E	130	H		NO	Enabled	45.9 %	45.9 %
3	BNA	N36° 08' 13.057300000", W086° 41' 05.176200000"	2.0 W	130	H		NO	Enabled	4.5 %	4.6 %
4	CCT	N37° 22' 56.718200000", W087° 15' 49.332500000"	0.0 E	40	L		NO	Enabled	100 %	100 %
5	HXW	N36° 39' 33.493000000", W087° 30' 40.089000000"	1.0 W	40	L		NO	Enabled	41.3 %	41.4 %
6	OWB	N37° 44' 36.798300000", W087° 09' 57.372200000"	4.0 W	40	L		NO	Enabled	72.6 %	72.6 %
7	GHM	N35° 50' 02.191100000", W087° 27' 06.482400000"	0.0 E	40	L		NO	Enabled	2.5 %	2.5 %
8	CKV	N36° 37' 19.149700000", W087° 24' 45.573200000"	1.0 W	25	T		NO	Enabled	7.1 %	7.2 %
9	DOB	N33° 54' 52.750000000", W084° 30' 26.320000000"	3.0 W	25	T	IFPA	NO	Disabled		
10	SKE	N38° 32' 43.302400000", W089° 51' 05.924700000"	2.0 W	25	T	IFPA	NO	Disabled		

DME DME Assessment Results for RYYMN3 path LOONE_RYYMN

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	BWG	OWB	CCT			
17.9	OWB	CCT	BWG	IIU		
29.6	OWB	CCT	IIU			
35.1	HXW	CCT	OWB			
37.5	HXW	CCT	IIU	OWB		
43.5	HXW	CCT	IIU			
47.9	HXW	CCT				
55.6	HXW	CCT	CKV			
57.1	BNA	HXW	CCT	CKV		
58.4	BNA	HXW	CCT	CKV	GHM	

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
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Available DMEs by Waypoints

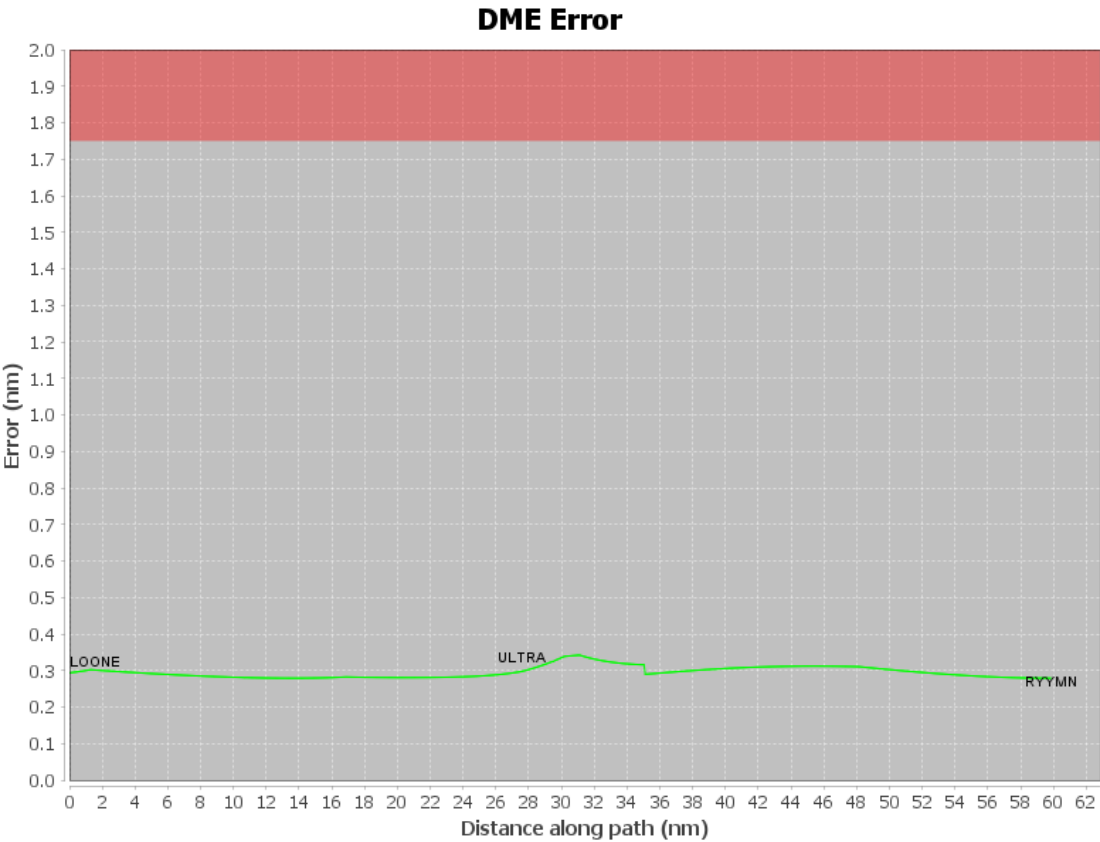
Waypoint Before	Waypoint After	DME List	Suggested DMEs
LOONE	ULTRA	BWG, IIU, CCT, OWB	
ULTRA	RYYMN	BWG, IIU, BNA, CCT, HXW, OWB, GHM, CKV	

User Data Files

#	File Name
	None

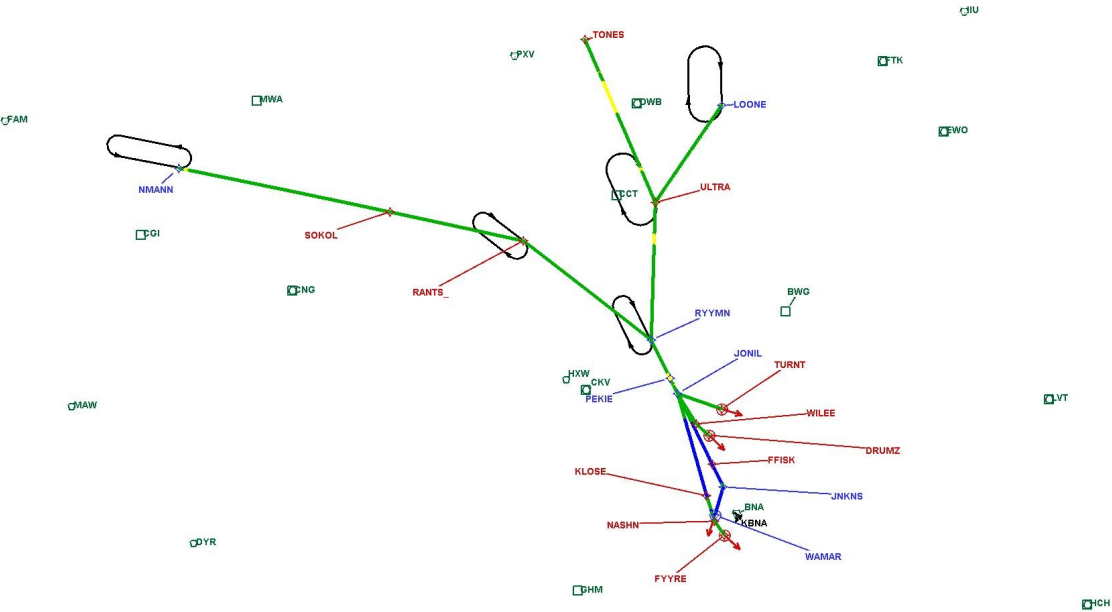
User DMEs

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	EWO FAA 200445-17 EWO	N37° 37' 54.521000000", W085° 40' 33.159000000"	1.0 E	40	960	113.95	EWO FAA 200445-17	
ESV:		Bearing [True]: 279.0° to 291.0° Bearing [Mag]: 278.0° to 290.0°				Arc Distance: Out to 105.0 NM Altitude: 9900.0 to 19000.0 ft		
2	GHM FAA 755483-13 GHM	N35° 50' 02.191100000", W087° 27' 06.482400000"	0.0 E	40	774.1	111.6	GHM FAA 755483-13	
ESV:		Bearing [True]: 52.0° to 109.0° Bearing [Mag]: 52.0° to 109.0°				Arc Distance: Out to 65.0 NM Altitude: 4000.0 to 20000.0 ft		
3	IIU FAA 704184-65 IIU	N38° 06' 12.471800000", W085° 34' 38.771700000"	1.0 E	130	719.7	114.8	IIU FAA 704184-65	
ESV:		Bearing [True]: 223.0° to 244.0° Bearing [Mag]: 222.0° to 243.0°				Arc Distance: Out to 100.0 NM Altitude: 10900.0 to 15300.0 ft		
4	BNA FAA 698156-40 BNA	N36° 08' 13.057300000", W086° 41' 05.176200000"	2.0 W	130	566.4	114.1	BNA FAA 698156-40	
ESV:		Bearing [True]: 316.0° to 340.0° Bearing [Mag]: 318.0° to 342.0°				Arc Distance: Out to 79.0 NM Altitude: 10000.0 to 15100.0 ft		
5	GHM FAA 755483-22 GHM	N35° 50' 02.191100000", W087° 27' 06.482400000"	0.0 E	40	774.1	111.6	GHM FAA 755483-22	
ESV:		Bearing [True]: 272.0° to 25.0° Bearing [Mag]: 272.0° to 25.0°				Arc Distance: Out to 64.0 NM Altitude: 10000.0 to 16000.0 ft		
6	CCT FAA 703978-11 CCT	N37° 22' 56.718200000", W087° 15' 49.332500000"	0.0 E	40	452.2	109.8	CCT FAA 703978-11	
ESV:		Bearing [True]: 142.0° to 162.0° Bearing [Mag]: 142.0° to 162.0°				Arc Distance: Out to 66.0 NM Altitude: 5800.0 to 12000.0 ft		

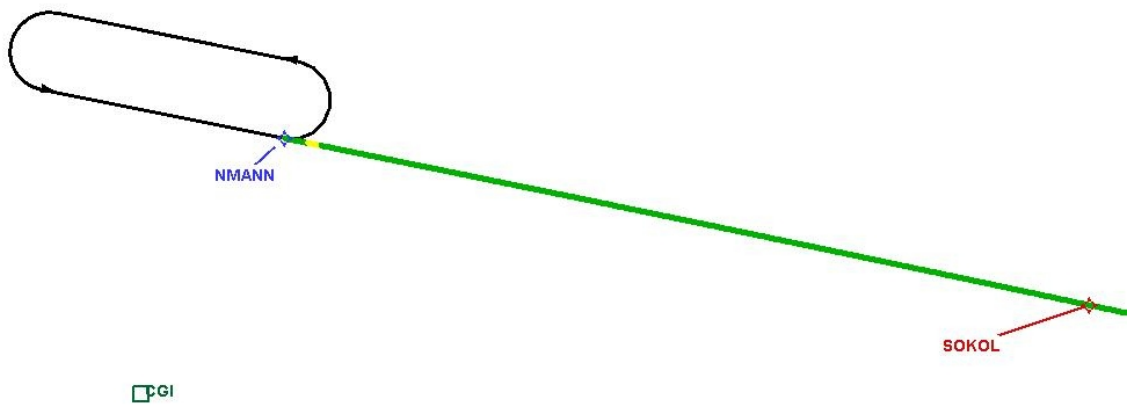


DME DME Assessment Results for RYYMN3 path LOONE_RYYMN

Graphic Depiction 1

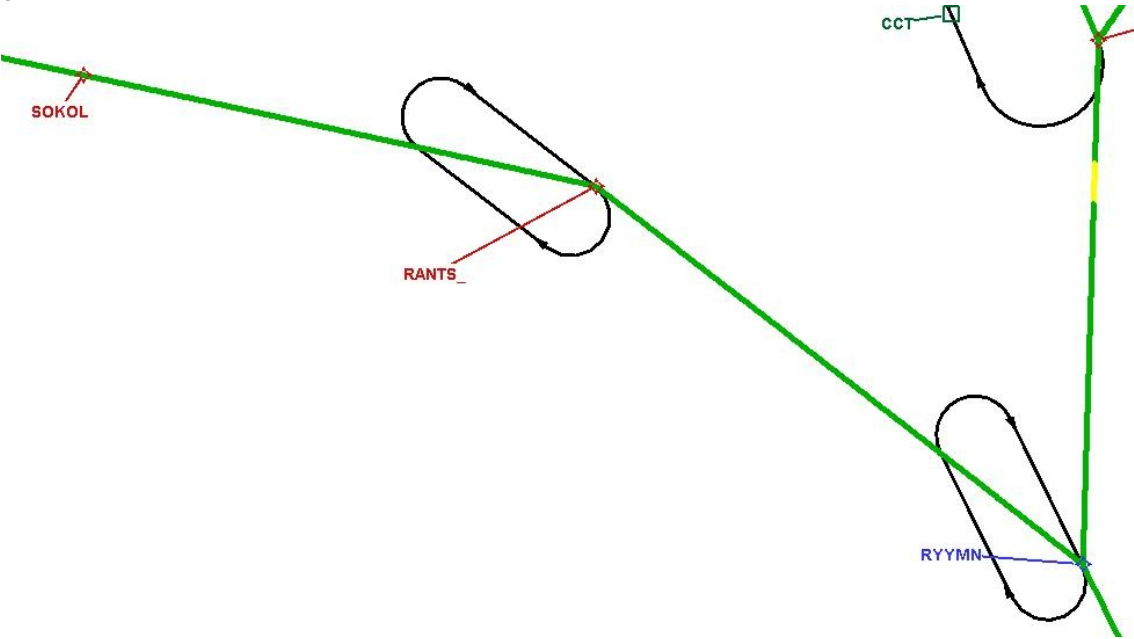


Graphic Depiction 2

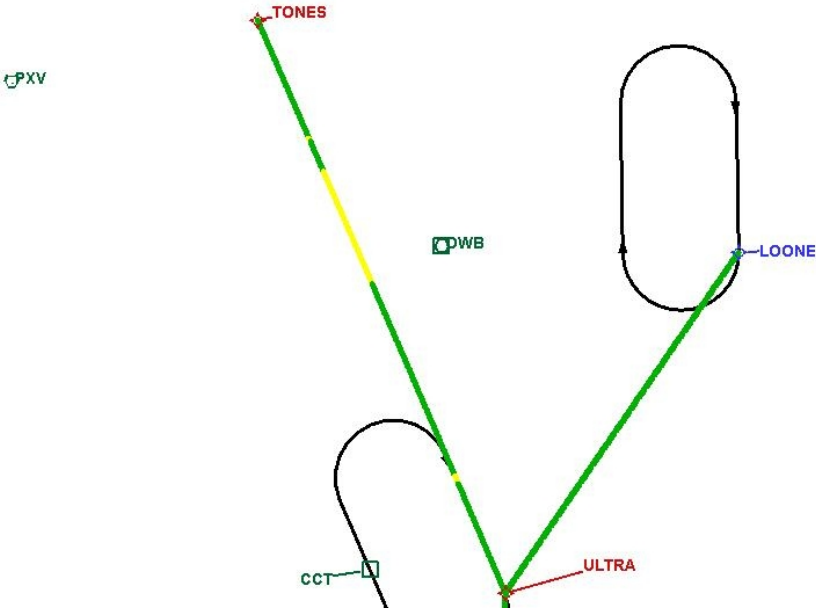


DME DME Assessment Results for RYYMN3 path LOONE_RYYMN

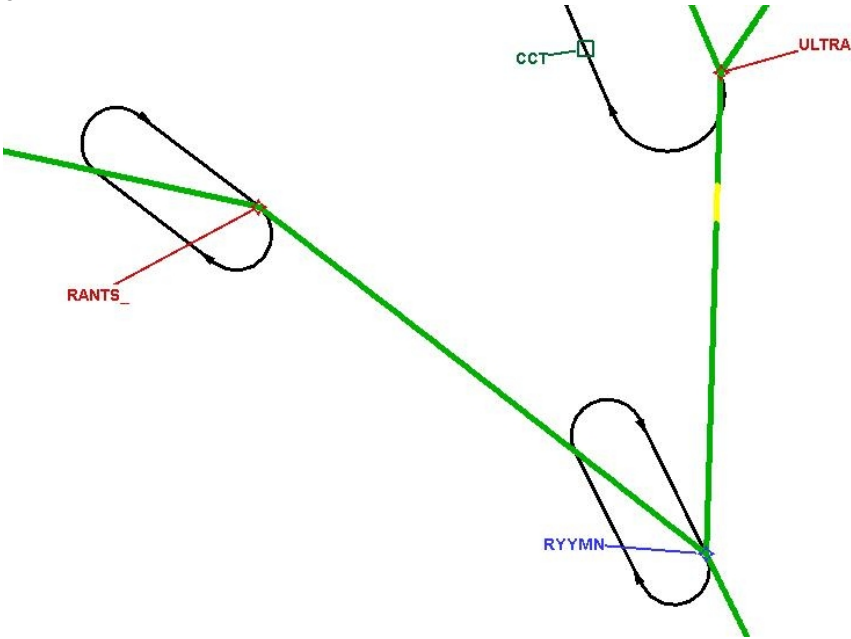
Graphic Depiction 3



Graphic Depiction 4

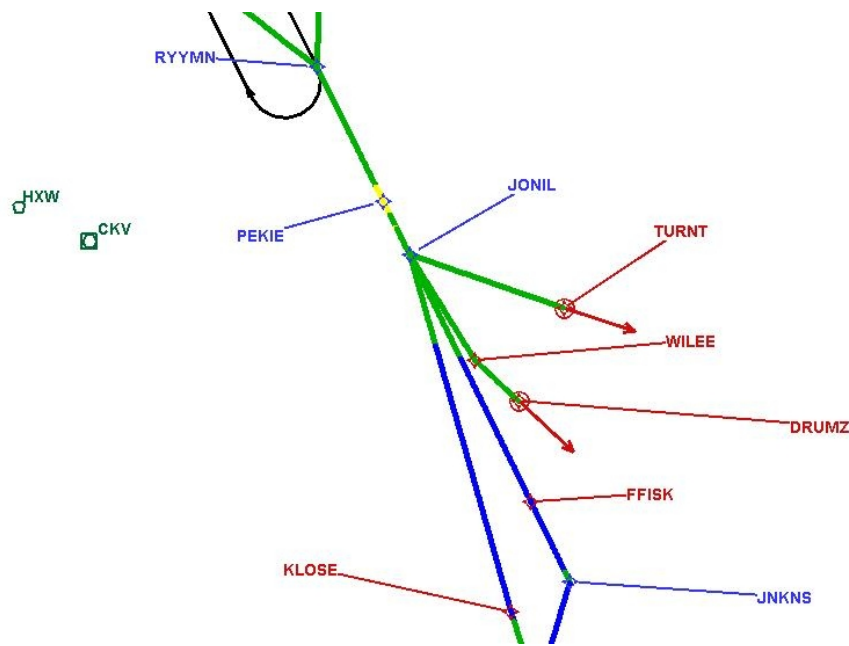


Graphic Depiction 5



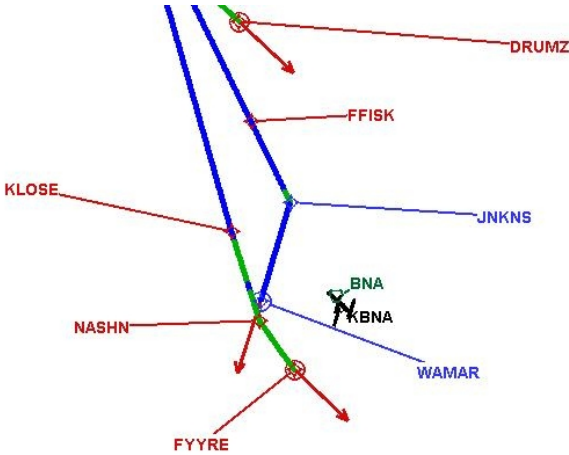
DME DME Assessment Results for RYYMN3 path LOONE_RYYMN

Graphic Depiction 6



DME DME Assessment Results for RYYMN3 path LOONE_RYYMN

Graphic Depiction 7



PHM

DME DME Assessment Results for RYYMN3 path NMANN_FYYRE

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Erik J-CTR John
Project File:	C:\Users\Erik J-CTR John\OneDrive - Federal Aviation Administration\Desktop\PROJECT FILES\KBNA\KBNA RYYMN3 (RNAV) STAR\KBNA RYYMN3 (RNAV) STAR DME 29 JAN 2025.tgs
Output File:	C:\Users\Erik J-CTR John\OneDrive - Federal Aviation Administration\Desktop\PROJECT FILES\KBNA\KBNA RYYMN3 (RNAV) STAR\DME\KBNA [IFPA] RYYMN3 20250129_1117 EST\NMANN_FYYRE\KBNA RYYMN3 RNAV STAR NMANN FYYRE 20250129_1117 EST.pdf
Procedure Name:	RYYMN3
Software: DmeDmePlugin:	7.4.1
Date/Time:	01/29/2025 11:17 EST
Databases:	MITRE 3DEP 3 arcsec

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
NMANN	WP	N37° 29' 28.40000000", W089° 23' 28.88000000"	15000	VNAV	280	FLY_BY	TF
SOKOL	WP	N37° 19' 11.451400607", W088° 22' 03.922367892"	15000	VNAV	280	FLY_BY	TF
RANTS_	WP	N37° 12' 21.460000000", W087° 43' 03.130000000"	15000	VNAV	280	FLY_BY	TF
RYYMN	WP	N36° 49' 04.120000000", W087° 05' 54.290000000"	11000	VNAV	280	FLY_BY	TF
PEKIE	WP	N36° 40' 05.250000000", W087° 00' 24.190000000"	11000	VNAV	280	FLY_BY	TF
JONIL	WP	N36° 36' 29.630000000", W086° 58' 12.510000000"	10000	VNAV	280	FLY_BY	TF
KLOSE	WP	N36° 12' 33.281495291", W086° 49' 47.320443799"	10000	VNAV	250	FLY_BY	TF
NASHN	WP	N36° 06' 32.336695971", W086° 47' 26.625560268"	9000	VNAV	250	FLY_BY	TF
FYYRE	WP	N36° 03' 16.129123577", W086° 44' 34.223610162"	9000	VNAV	210	FLY_OVER	TF

DME DME Assessment Results for RYYMN3 path NMANN_FYYRE

Flyability	
Flight Type:	RNAV STAR
Selected Airport:	KBNA [IFPA]
Climb Gradient:	None assigned
Speeds:	200 Ground Speed to 11000 FT
	240 Ground Speed to 18000 FT
	260 Ground Speed to 24000 FT
	340 Ground Speed above 24000 FT
Descent During a Turn:	Allowed
VNAV Mode:	Flight Plan

DME/DME	
RNP:	RNP 2
Flight Mode:	Manual
Line of Sight (DTED Level 0 Max):	Evaluated
Inertial Drift:	Enabled
Initial Drift:	0.558 NM
INS Drift Rate:	8.0 NM/Hour
Range Mode:	OSV
RNP Edges:	Evaluated
Min DME Range:	3.0 NM
DME Types:	DME, VOR-DME, VORTAC, TACAN
DME Include Angles:	30 to 150
Critical DMEs:	Not Allowed
DoD Facilities:	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:	DOB,SKE

DME DME Assessment Results for RYYMN3 path NMANN_FYYRE

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	SYI	N35° 33' 43.109000000", W086° 26' 20.938300000"	1.0 W	40	L		NO	Enabled	4.1 %	3.7 %
2	CGI	N37° 13' 39.140700000", W089° 34' 20.679900000"	0.0 E	40	L		NO	Enabled	16.8 %	16.9 %
3	HXW	N36° 39' 33.493000000", W087° 30' 40.089000000"	1.0 W	40	L		NO	Enabled	36.7 %	37 %
4	CSX	N38° 45' 09.879900000", W090° 21' 39.454600000"	0.0 E	130	DL		NO	Enabled	29.6 %	29.8 %
5	STL	N38° 51' 38.603900000", W090° 28' 56.456000000"	1.0 E	130	H		NO	Enabled	0.5 %	0.5 %
6	GHM	N35° 50' 02.191100000", W087° 27' 06.482400000"	0.0 E	40	L		NO	Enabled	11.8 %	11.3 %
7	PXV	N37° 55' 41.951400000", W087° 45' 44.567500000"	3.0 E	130	H		NO	Enabled	48.2 %	48.5 %
8	CKV	N36° 37' 19.149700000", W087° 24' 45.573200000"	1.0 W	25	T		NO	Enabled	17.2 %	17.4 %
9	BWG	N36° 55' 43.468300000", W086° 26' 36.361900000"	0.0 E	130	DH		NO	Enabled	45.3 %	45.6 %
10	BNA	N36° 08' 13.057300000", W086° 41' 05.176200000"	2.0 W	130	H		NO	Enabled	31.3 %	31.4 %
11	CCT	N37° 22' 56.718200000", W087° 15' 49.332500000"	0.0 E	40	L		NO	Enabled	32.2 %	32.4 %
12	MWA	N37° 45' 15.764200000", W089° 00' 42.491800000"	0.0 E	40	L		NO	Enabled	27.8 %	27.9 %
13	CNG	N37° 00' 30.993400000", W088° 50' 12.886000000"	3.0 E	40	L		NO	Enabled	35.3 %	35.5 %
14	DOB	N33° 54' 52.750000000", W084° 30' 26.320000000"	3.0 W	25	T	IFPA	NO	Disabled		
15	SKE	N38° 32' 43.302400000", W089° 51' 05.924700000"	2.0 W	25	T	IFPA	NO	Disabled		

DME DME Assessment Results for RYYMN3 path NMANN_FYYRE

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	MWA	CSX	STL	PXV	CGI	
0.2	MWA	CSX	PXV	CGI		
1.5	CNG	MWA	CGI	CSX	PXV	STL
2.3	CNG	MWA	CGI	PXV	CSX	
28.7	PXV	MWA	CNG	CSX	BWG	
47.3	BWG	PXV	CSX	CNG		
50.5	BWG	PXV	CNG			
61.6	BWG	PXV				
65.6	BWG	PXV	CCT			
77.4	HXW	CCT	BWG	PXV		
82.1	HXW	CCT	BWG			
89.9	BNA	CCT	HXW			
104.3	BNA	HXW	CCT	CKV		
105.7	BNA	HXW	CKV			
109.2	BNA	HXW	CKV	CCT		
120.0	BNA	HXW	CKV	CCT	GHM	
124.0	BNA	CKV	HXW	GHM		
129.3	BWG	BNA	CKV	HXW	GHM	
130.0	BWG	BNA	CKV	HXW		
131.6	GHM	HXW	CKV	BNA		
131.8	CKV	BNA	HXW			
133.7	HXW	BNA				
139.9						
159.1	GHM	BNA				
162.1						
162.7	GHM	SYI				

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N36° 30' 26.119606653", W086° 56' 04.144548421"	N36° 11' 57.585975740", W086° 49' 33.389587575"	19.2074
2	N36° 09' 07.033687748", W086° 48' 26.879503564"	N36° 08' 35.301748713", W086° 48' 14.514363467"	0.5539

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
NMANN	SOKOL	BWG, CGI, MWA, CSX, STL, CNG, PXV	
SOKOL	RANTS	BWG, CCT, HXW, CSX, CNG, PXV	
RANTS	RYYMN	BWG, BNA, CCT, HXW, PXV, CKV	
RYYMN	PEKIE	BWG, BNA, CCT, HXW, GHM, CKV	
PEKIE	JONIL	BWG, BNA, HXW, GHM, CKV	
JONIL	KLOSE	BNA, HXW	
KLOSE	NASHN	SYI, BNA, GHM	
NASHN	FYYRE	SYI, GHM	

DME DME Assessment Results for RYYMN3 path NMANN_FYYRE

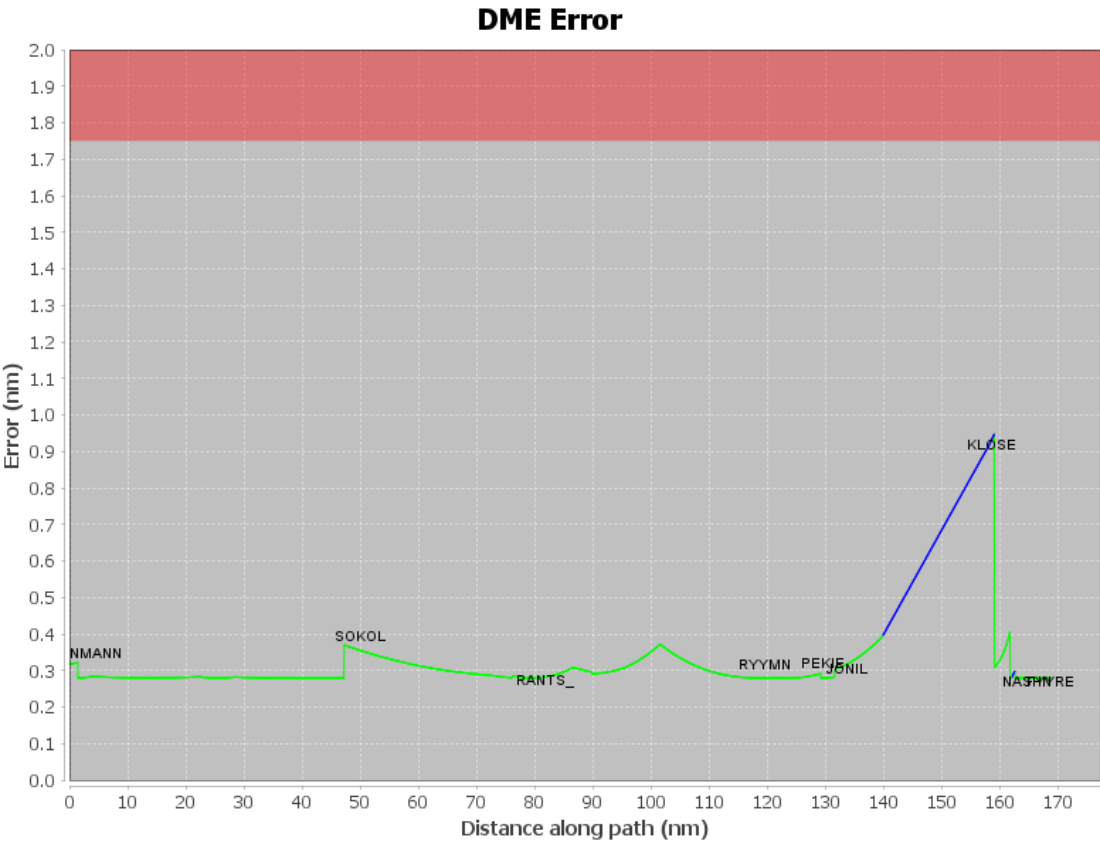
User Data Files

File Name

None

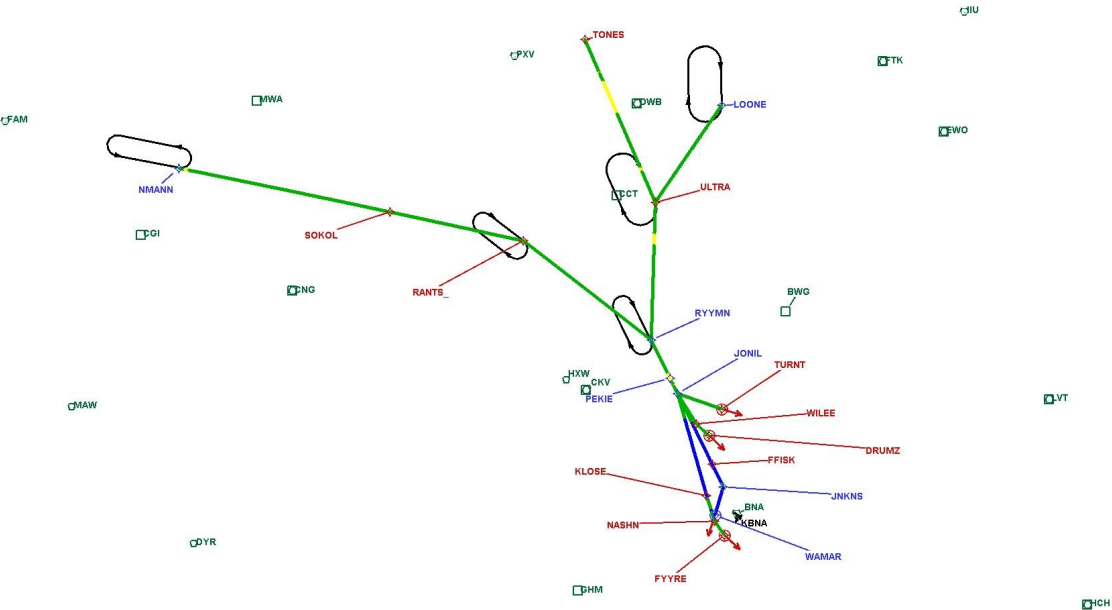
User DMEs

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	EWO FAA 200445-17 EWO	N37° 37' 54.521000000", W085° 40' 33.159000000"	1.0 E	40	960	113.95	EWO FAA 200445-17	
ESV:		Bearing [True]: 279.0° to 291.0° Bearing [Mag]: 278.0° to 290.0°				Arc Distance: Out to 105.0 NM Altitude: 9900.0 to 19000.0 ft		
2	GHM FAA 755483-13 GHM	N35° 50' 02.191100000", W087° 27' 06.482400000"	0.0 E	40	774.1	111.6	GHM FAA 755483-13	
ESV:		Bearing [True]: 52.0° to 109.0° Bearing [Mag]: 52.0° to 109.0°				Arc Distance: Out to 65.0 NM Altitude: 4000.0 to 20000.0 ft		
3	IIU FAA 704184-65 IIU	N38° 06' 12.471800000", W085° 34' 38.771700000"	1.0 E	130	719.7	114.8	IIU FAA 704184-65	
ESV:		Bearing [True]: 223.0° to 244.0° Bearing [Mag]: 222.0° to 243.0°				Arc Distance: Out to 100.0 NM Altitude: 10900.0 to 15300.0 ft		
4	BNA FAA 698156-40 BNA	N36° 08' 13.057300000", W086° 41' 05.176200000"	2.0 W	130	566.4	114.1	BNA FAA 698156-40	
ESV:		Bearing [True]: 316.0° to 340.0° Bearing [Mag]: 318.0° to 342.0°				Arc Distance: Out to 79.0 NM Altitude: 10000.0 to 15100.0 ft		
5	GHM FAA 755483-22 GHM	N35° 50' 02.191100000", W087° 27' 06.482400000"	0.0 E	40	774.1	111.6	GHM FAA 755483-22	
ESV:		Bearing [True]: 272.0° to 25.0° Bearing [Mag]: 272.0° to 25.0°				Arc Distance: Out to 64.0 NM Altitude: 10000.0 to 16000.0 ft		
6	CCT FAA 703978-11 CCT	N37° 22' 56.718200000", W087° 15' 49.332500000"	0.0 E	40	452.2	109.8	CCT FAA 703978-11	
ESV:		Bearing [True]: 142.0° to 162.0° Bearing [Mag]: 142.0° to 162.0°				Arc Distance: Out to 66.0 NM Altitude: 5800.0 to 12000.0 ft		

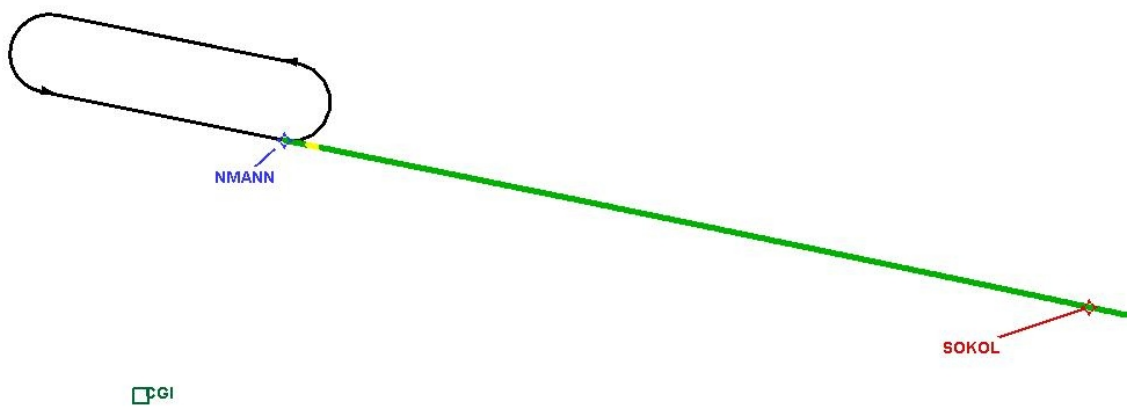


DME DME Assessment Results for RYYMN3 path NMANN_FYYRE

Graphic Depiction 1

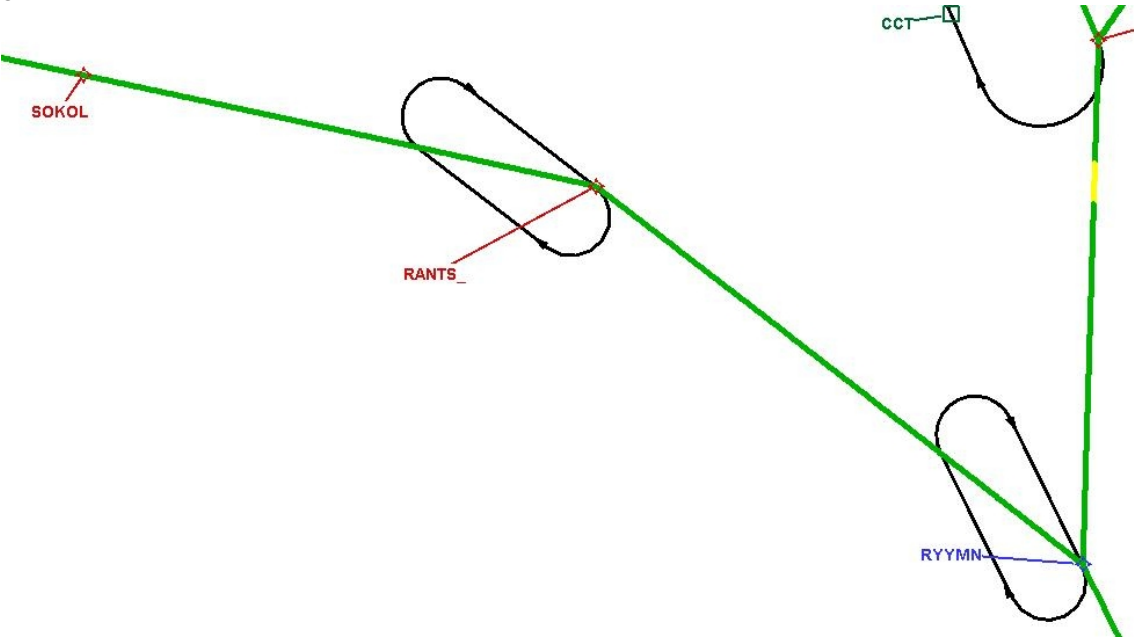


Graphic Depiction 2

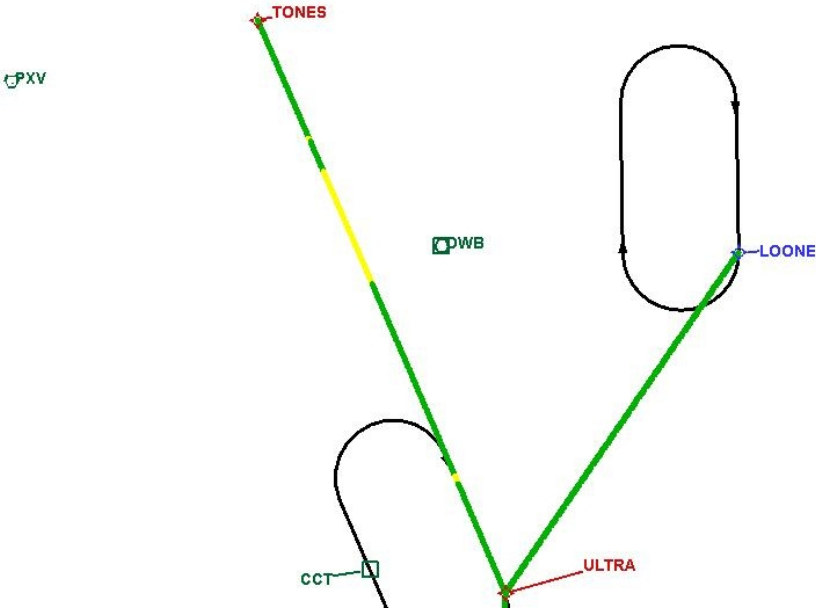


DME DME Assessment Results for RYYMN3 path NMANN_FYYRE

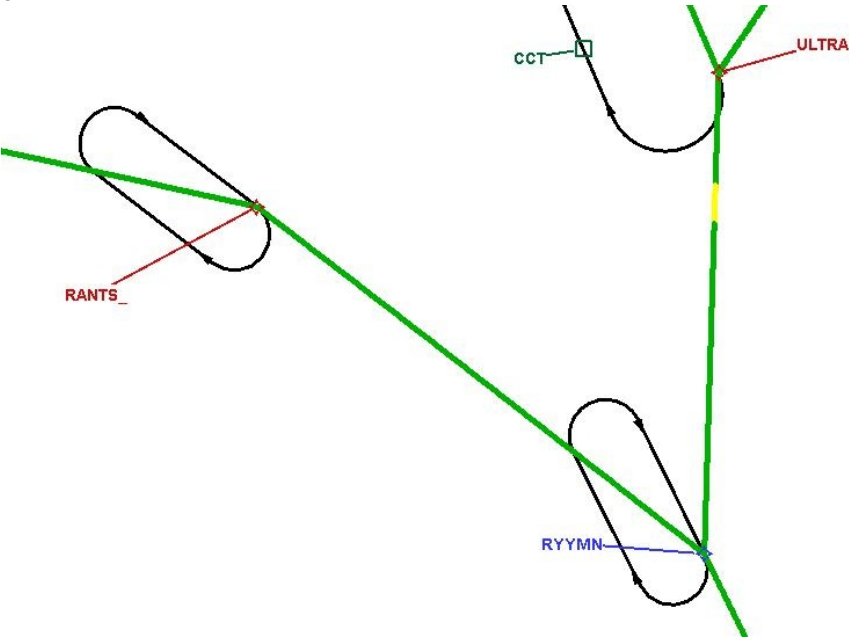
Graphic Depiction 3



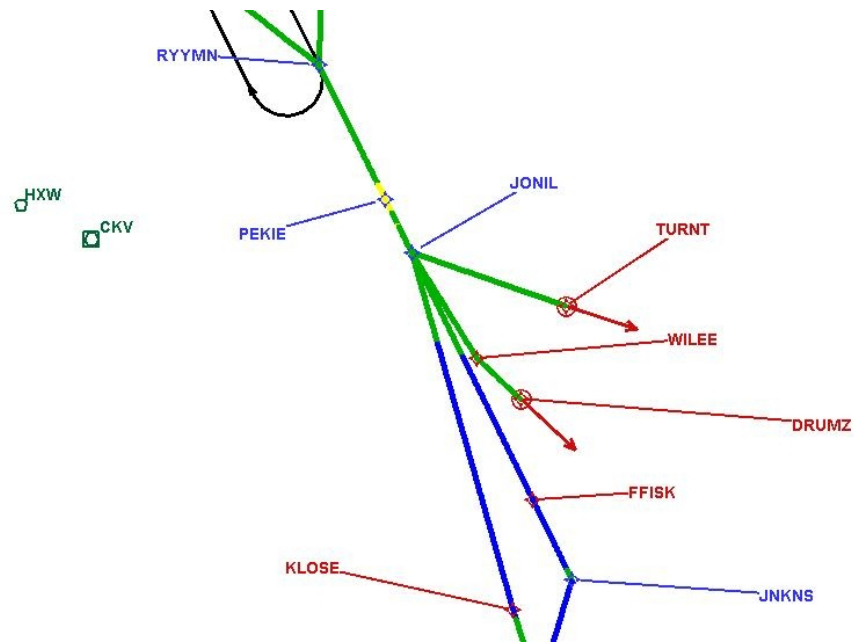
Graphic Depiction 4



Graphic Depiction 5

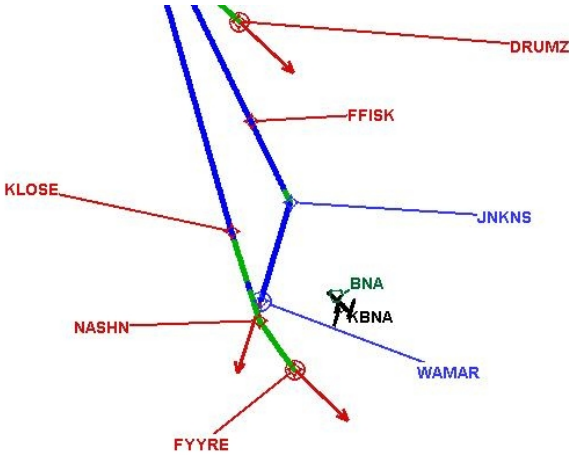


Graphic Depiction 6



DME DME Assessment Results for RYYMN3 path NMANN_FYYRE

Graphic Depiction 7



PHM

DME DME Assessment Results for RYYMN3 path TONES_ULTRA

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Erik J-CTR John
Project File:	C:\Users\Erik J-CTR John\OneDrive - Federal Aviation Administration\Desktop\PROJECT FILES\KBNA\KBNA RYYMN3 (RNAV) STAR\KBNA RYYMN3 (RNAV) STAR DME 29 JAN 2025.tgs
Output File:	C:\Users\Erik J-CTR John\OneDrive - Federal Aviation Administration\Desktop\PROJECT FILES\KBNA\KBNA RYYMN3 (RNAV) STAR\DME\KBNA [IFPA] RYYMN3 20250129_1117 EST\TONES_ULTRA\KBNA RYYMN3 RNAV STAR TONES ULTRA 20250129_1117 EST.pdf
Procedure Name:	RYYMN3
Software: DmeDmePlugin:	7.4.1
Date/Time:	01/29/2025 11:17 EST
Databases:	MITRE 3DEP 3 arcsec

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
TONES	WP	N37° 59' 45.060075373", W087° 25' 14.616163512"	12000	VNAV	280	FLY_BY	TF
ULTRA	WP	N37° 21' 22.311193758", W087° 04' 42.326443928"	12000	VNAV	280	FLY_BY	TF

Flyability

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

DME DME Assessment Results for RYYMN3 path TONES_ULTRA

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, TACAN
DME Include Angles:	30 to 150
Critical DMEs:	Not Allowed
DoD Facilities:	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:	DOB,SKE

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	BWG	N36° 55' 43.468300000", W086° 26' 36.361900000"	0.0 E	130	DH		NO	Enabled	94.2 %	94.2 %
2	IIU	N38° 06' 12.471800000", W085° 34' 38.771700000"	1.0 E	130	H		NO	Enabled	19 %	19 %
3	CCT	N37° 22' 56.718200000", W087° 15' 49.332500000"	0.0 E	40	L		NO	Enabled	100 %	100 %
4	OWB	N37° 44' 36.798300000", W087° 09' 57.372200000"	4.0 W	40	L		NO	Enabled	78.4 %	78.4 %
5	EWO	N37° 37' 54.521000000", W085° 40' 33.159000000"	1.0 E	40	L		NO	Enabled	20.3 %	20.3 %
6	PXV	N37° 55' 41.951400000", W087° 45' 44.567500000"	3.0 E	130	H		NO	Enabled	77.4 %	77.4 %
7	DOB	N33° 54' 52.750000000", W084° 30' 26.320000000"	3.0 W	25	T	IFPA	NO	Disabled		
8	SKE	N38° 32' 43.302400000", W089° 51' 05.924700000"	2.0 W	25	T	IFPA	NO	Disabled		

DME DME Assessment Results for RYYMN3 path TONES_ULTRA

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	PXV	CCT	OWB	BWG	EWO	
4.0	PXV	CCT	EWO	BWG		
8.5	PXV	CCT	OWB	BWG		
8.8	PXV	CCT				
9.3	PXV	CCT	OWB			
11.0	PXV	CCT	OWB	BWG		
13.5	PXV	CCT	OWB			
13.6	OWB	CCT	PXV	BWG		
19.1	PXV	CCT	BWG			
21.5	PXV	OWB	BWG	CCT		
31.8	BWG	CCT				
33.1	PXV	CCT	BWG	OWB		
33.7	BWG	CCT	IIU	OWB		

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
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Available DMEs by Waypoints

Waypoint Before	Waypoint After	DME List	Suggested DMEs
TONES	ULTRA	BWG, IIU, CCT, OWB, EWO, PXV	

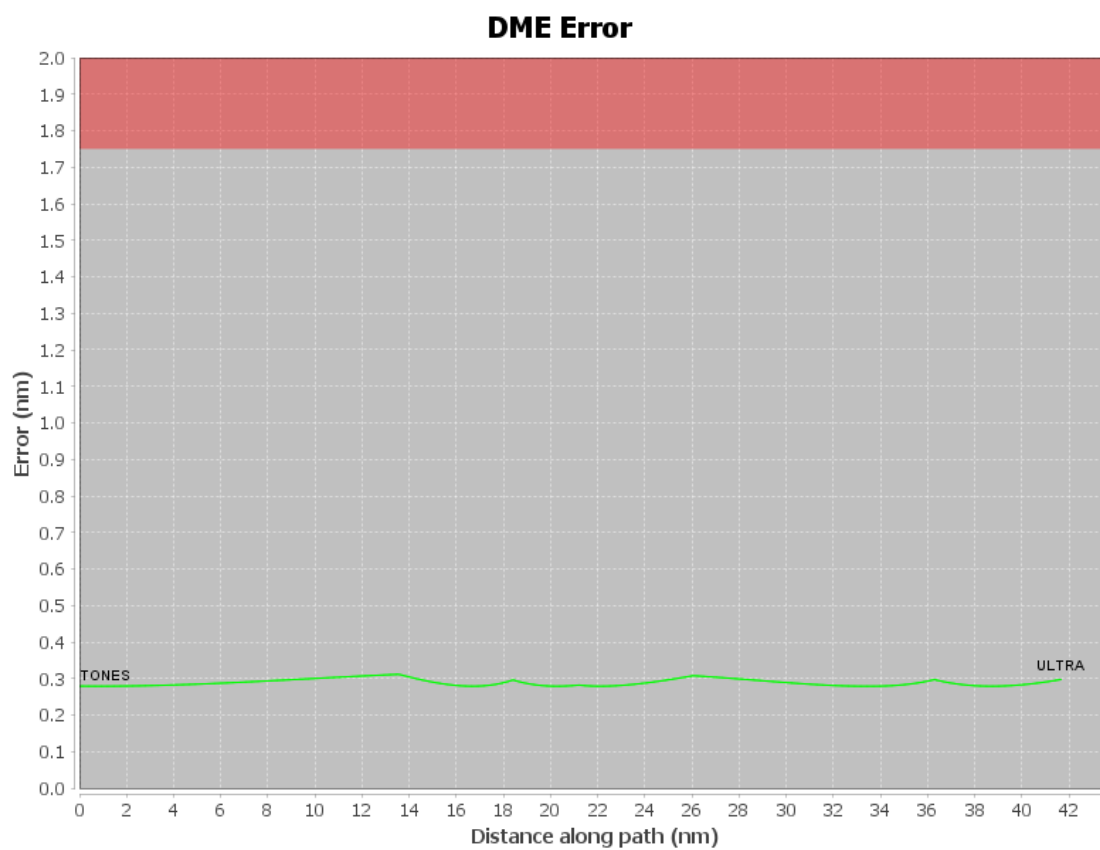
User Data Files

#	File Name
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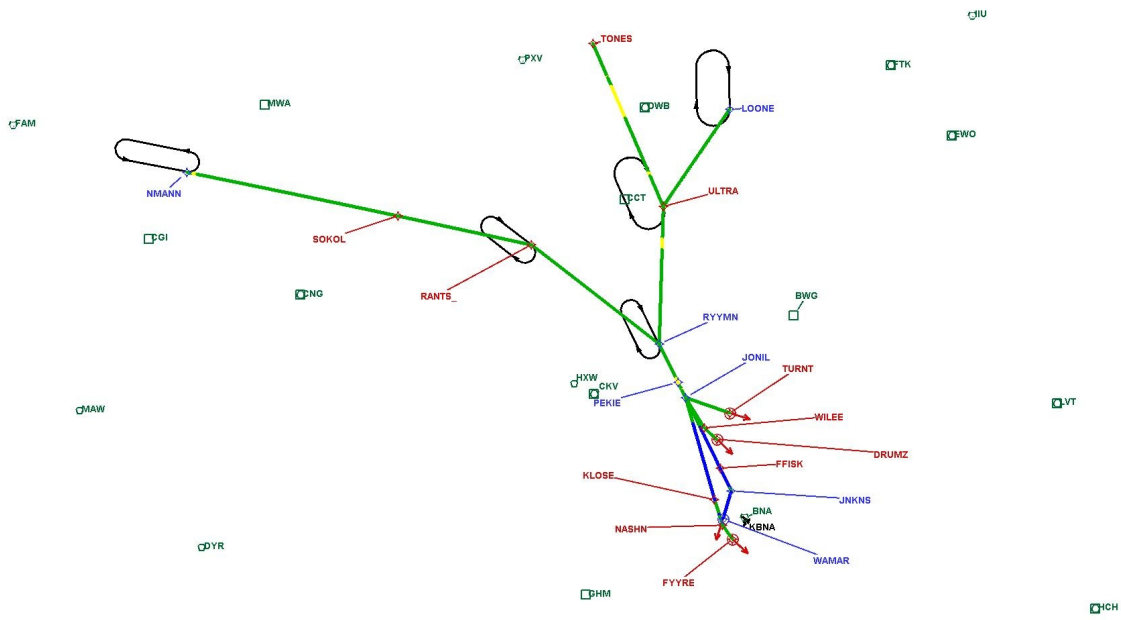
User DMEs

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	EWO FAA 200445-17 EWO	N37° 37' 54.521000000", W085° 40' 33.159000000"	1.0 E	40	960	113.95	EWO FAA 200445-17	
ESV:		Bearing [True]: 279.0° to 291.0° Bearing [Mag]: 278.0° to 290.0°				Arc Distance: Out to 105.0 NM Altitude: 9900.0 to 19000.0 ft		
2	GHM FAA 755483-13 GHM	N35° 50' 02.191100000", W087° 27' 06.482400000"	0.0 E	40	774.1	111.6	GHM FAA 755483-13	
ESV:		Bearing [True]: 52.0° to 109.0° Bearing [Mag]: 52.0° to 109.0°				Arc Distance: Out to 65.0 NM Altitude: 4000.0 to 20000.0 ft		
3	IIU FAA 704184-65 IIU	N38° 06' 12.471800000", W085° 34' 38.771700000"	1.0 E	130	719.7	114.8	IIU FAA 704184-65	
ESV:		Bearing [True]: 223.0° to 244.0° Bearing [Mag]: 222.0° to 243.0°				Arc Distance: Out to 100.0 NM Altitude: 10900.0 to 15300.0 ft		
4	BNA FAA 698156-40 BNA	N36° 08' 13.057300000", W086° 41' 05.176200000"	2.0 W	130	566.4	114.1	BNA FAA 698156-40	
ESV:		Bearing [True]: 316.0° to 340.0° Bearing [Mag]: 318.0° to 342.0°				Arc Distance: Out to 79.0 NM Altitude: 10000.0 to 15100.0 ft		
5	GHM FAA 755483-22 GHM	N35° 50' 02.191100000", W087° 27' 06.482400000"	0.0 E	40	774.1	111.6	GHM FAA 755483-22	
ESV:		Bearing [True]: 272.0° to 25.0° Bearing [Mag]: 272.0° to 25.0°				Arc Distance: Out to 64.0 NM Altitude: 10000.0 to 16000.0 ft		
6	CCT FAA 703978-11 CCT	N37° 22' 56.718200000", W087° 15' 49.332500000"	0.0 E	40	452.2	109.8	CCT FAA 703978-11	
ESV:		Bearing [True]: 142.0° to 162.0° Bearing [Mag]: 142.0° to 162.0°				Arc Distance: Out to 66.0 NM Altitude: 5800.0 to 12000.0 ft		

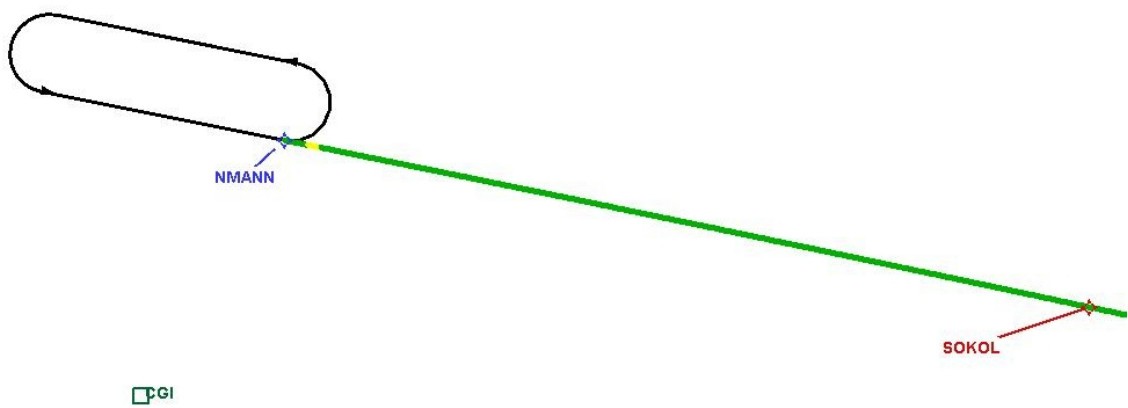
DME DME Assessment Results for RYYMN3 path TONES_ULTRA



Graphic Depiction 1

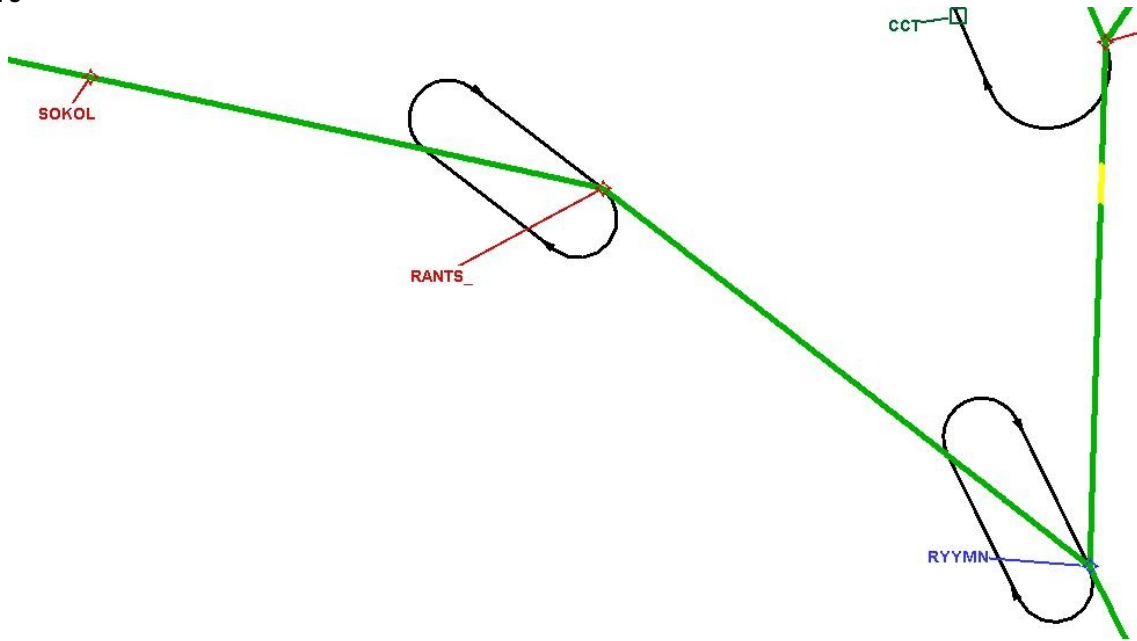


Graphic Depiction 2



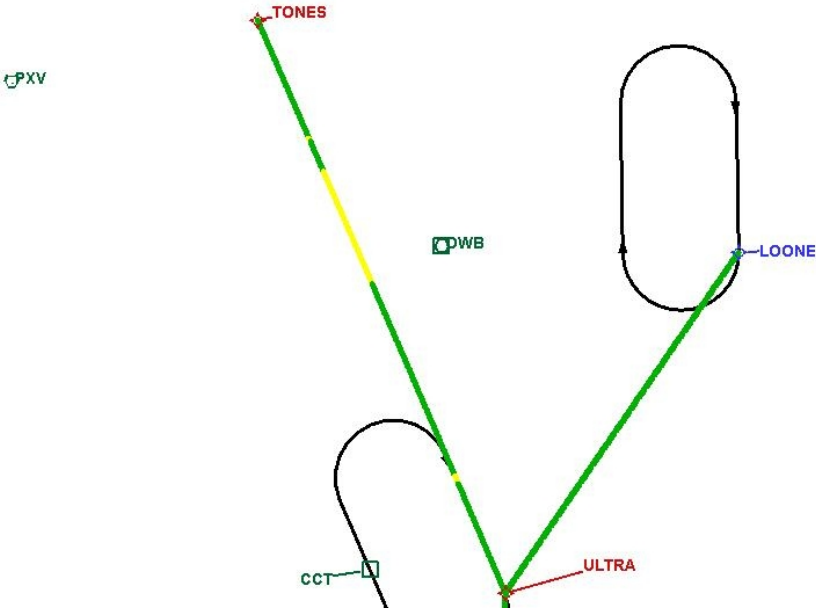
DME DME Assessment Results for RYYMN3 path TONES_ULTRA

Graphic Depiction 3



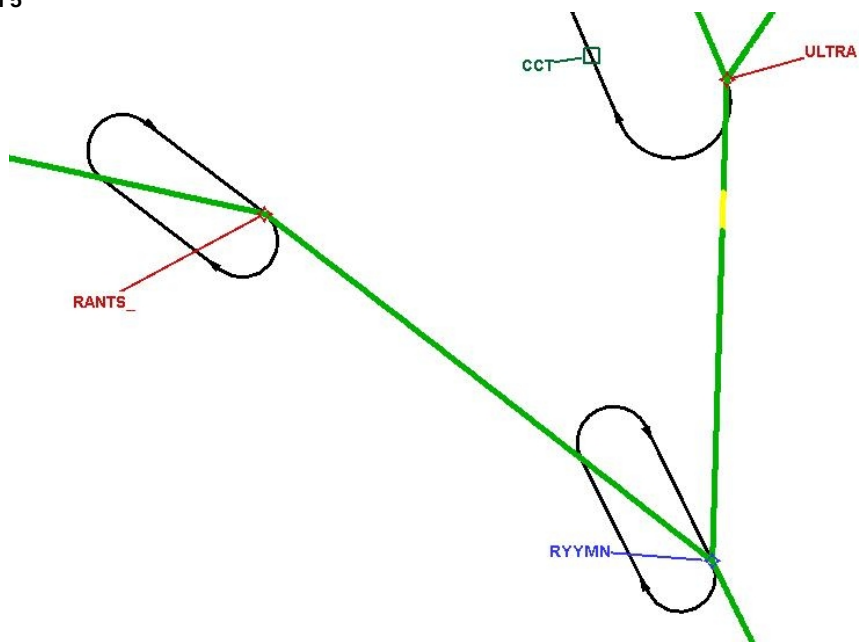
DME DME Assessment Results for RYYMN3 path TONES_ULTRA

Graphic Depiction 4



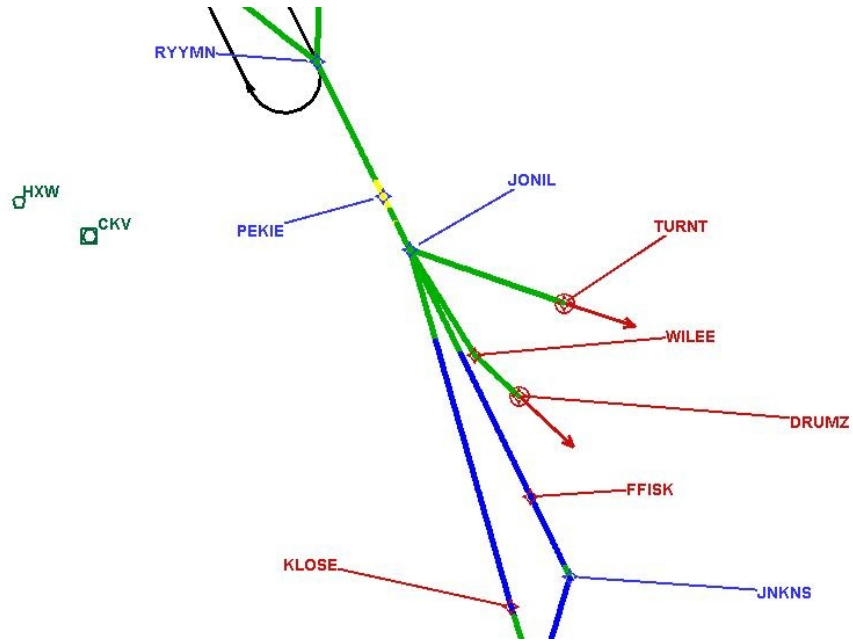
DME DME Assessment Results for RYYMN3 path TONES_ULTRA

Graphic Depiction 5



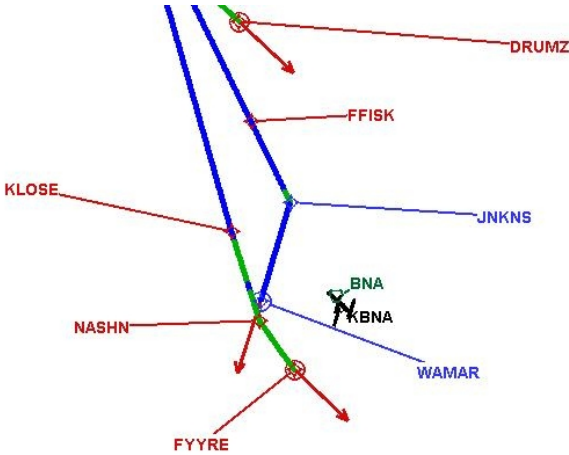
DME DME Assessment Results for RYYMN3 path TONES_ULTRA

Graphic Depiction 6



DME DME Assessment Results for RYYMN3 path TONES_ULTRA

Graphic Depiction 7



PHM

DME DME Assessment Results for RYYMN3 path RANTS__NMANN

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Erik J-CTR John
Project File:	C:\Users\Erik J-CTR John\OneDrive - Federal Aviation Administration\Desktop\PROJECT FILES\KBNA\KBNA RYYMN3 (RNAV) STAR\KBNA RYYMN3 (RNAV) STAR DME 29 JAN 2025.tgs
Output File:	C:\Users\Erik J-CTR John\OneDrive - Federal Aviation Administration\Desktop\PROJECT FILES\KBNA\KBNA RYYMN3 (RNAV) STAR\DME\KBNA [IFPA] RYYMN3 20250129_1117 EST\RANTS__NMANN\KBNA RYYMN3 RNAV STAR RANTS__NMANN 20250129_1117 EST.pdf
Procedure Name:	RYYMN3
Software: DmeDmePlugin:	7.4.1
Date/Time:	01/29/2025 11:17 EST
Databases:	MITRE 3DEP 3 arcsec

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
RANTS_	WP	N37° 12' 21.460000000", W087° 43' 03.130000000"	15000	VNAV	280	FLY_BY	TF
SOKOL	WP	N37° 19' 11.451400607", W088° 22' 03.922367892"	15000	VNAV	280	FLY_BY	TF
NMANN	WP	N37° 29' 28.400000000", W089° 23' 28.880000000"	15000	VNAV	280	FLY_BY	TF

Flyability

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

DME DME Assessment Results for RYYMN3 path RANTS__NMANN

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, TACAN
DME Include Angles:	30 to 150
Critical DMEs:	Not Allowed
DoD Facilities:	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:	DOB,SKE

DME DME Assessment Results for RYYMN3 path RANTS_ NMANN

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	BWG	N36° 55' 43.468300000", W086° 26' 36.361900000"	0.0 E	130	DH		NO	Enabled	81.6 %	81.6 %
2	CGI	N37° 13' 39.140700000", W089° 34' 20.679900000"	0.0 E	40	L		NO	Enabled	34.9 %	34.9 %
3	CCT	N37° 22' 56.718200000", W087° 15' 49.332500000"	0.0 E	40	L		NO	Enabled	19.9 %	19.9 %
4	HXW	N36° 39' 33.493000000", W087° 30' 40.089000000"	1.0 W	40	L		NO	Enabled	5.4 %	5.4 %
5	MWA	N37° 45' 15.764200000", W089° 00' 42.491800000"	0.0 E	40	L		NO	Enabled	57.6 %	57.6 %
6	CSX	N38° 45' 09.879900000", W090° 21' 39.454600000"	0.0 E	130	DL		NO	Enabled	61.5 %	61.5 %
7	STL	N38° 51' 38.603900000", W090° 28' 56.456000000"	1.0 E	130	H		NO	Enabled	1 %	1 %
8	CNG	N37° 00' 30.993400000", W088° 50' 12.886000000"	3.0 E	40	L		NO	Enabled	73.3 %	73.3 %
9	PXV	N37° 55' 41.951400000", W087° 45' 44.567500000"	3.0 E	130	H		NO	Enabled	100 %	100 %
10	DOB	N33° 54' 52.750000000", W084° 30' 26.320000000"	3.0 W	25	T	IFPA	NO	Disabled		
11	SKE	N38° 32' 43.302400000", W089° 51' 05.924700000"	2.0 W	25	T	IFPA	NO	Disabled		

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	HXW	CCT	BWG	PXV		
4.5	BWG	PXV	CCT			
16.4	BWG	PXV				
20.4	BWG	PXV	CNG			
31.5	BWG	PXV	CSX	CNG		
34.7	PXV	MWA	CNG	BWG	CSX	
66.9	CNG	CGI	PXV	CSX	MWA	
80.5	MWA	CSX	PXV	CGI		
81.8	MWA	CSX	STL	PXV	CGI	

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

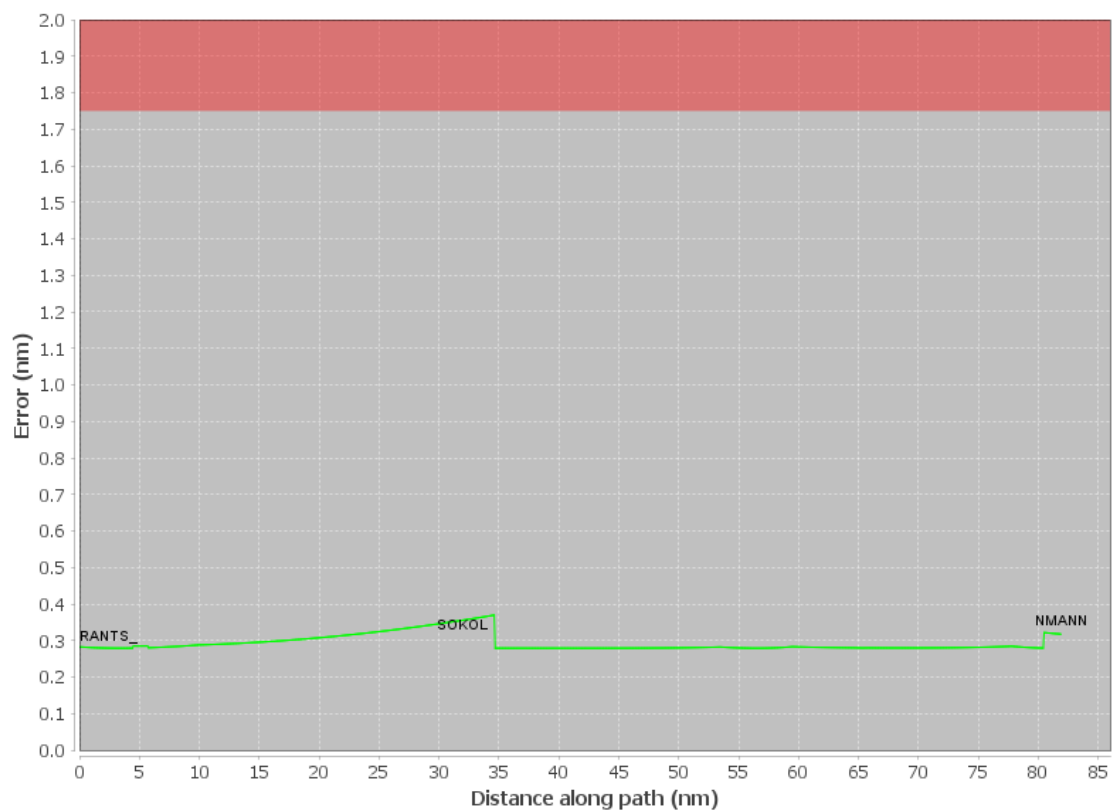
Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
RANTS_	SOKOL	BWG, CCT, HXW, CSX, CNG, PXV	
SOKOL	NMANN	BWG, CGI, MWA, CSX, STL, CNG, PXV	

DME DME Assessment Results for RYYMN3 path RANTS__NMANN

User Data Files								
#	File Name							
None								
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	EWO FAA 200445-17 EWO	N37° 37' 54.521000000", W085° 40' 33.159000000"	1.0 E	40	960	113.95	EWO FAA 200445-17	
ESV:		Bearing [True]: 279.0° to 291.0° Bearing [Mag]: 278.0° to 290.0°				Arc Distance: Out to 105.0 NM Altitude: 9900.0 to 19000.0 ft		
2	GHM FAA 755483-13 GHM	N35° 50' 02.191100000", W087° 27' 06.482400000"	0.0 E	40	774.1	111.6	GHM FAA 755483-13	
ESV:		Bearing [True]: 52.0° to 109.0° Bearing [Mag]: 52.0° to 109.0°				Arc Distance: Out to 65.0 NM Altitude: 4000.0 to 20000.0 ft		
3	IIU FAA 704184-65 IIU	N38° 06' 12.471800000", W085° 34' 38.771700000"	1.0 E	130	719.7	114.8	IIU FAA 704184-65	
ESV:		Bearing [True]: 223.0° to 244.0° Bearing [Mag]: 222.0° to 243.0°				Arc Distance: Out to 100.0 NM Altitude: 10900.0 to 15300.0 ft		
4	BNA FAA 698156-40 BNA	N36° 08' 13.057300000", W086° 41' 05.176200000"	2.0 W	130	566.4	114.1	BNA FAA 698156-40	
ESV:		Bearing [True]: 316.0° to 340.0° Bearing [Mag]: 318.0° to 342.0°				Arc Distance: Out to 79.0 NM Altitude: 10000.0 to 15100.0 ft		
5	GHM FAA 755483-22 GHM	N35° 50' 02.191100000", W087° 27' 06.482400000"	0.0 E	40	774.1	111.6	GHM FAA 755483-22	
ESV:		Bearing [True]: 272.0° to 25.0° Bearing [Mag]: 272.0° to 25.0°				Arc Distance: Out to 64.0 NM Altitude: 10000.0 to 16000.0 ft		
6	CCT FAA 703978-11 CCT	N37° 22' 56.718200000", W087° 15' 49.332500000"	0.0 E	40	452.2	109.8	CCT FAA 703978-11	
ESV:		Bearing [True]: 142.0° to 162.0° Bearing [Mag]: 142.0° to 162.0°				Arc Distance: Out to 66.0 NM Altitude: 5800.0 to 12000.0 ft		

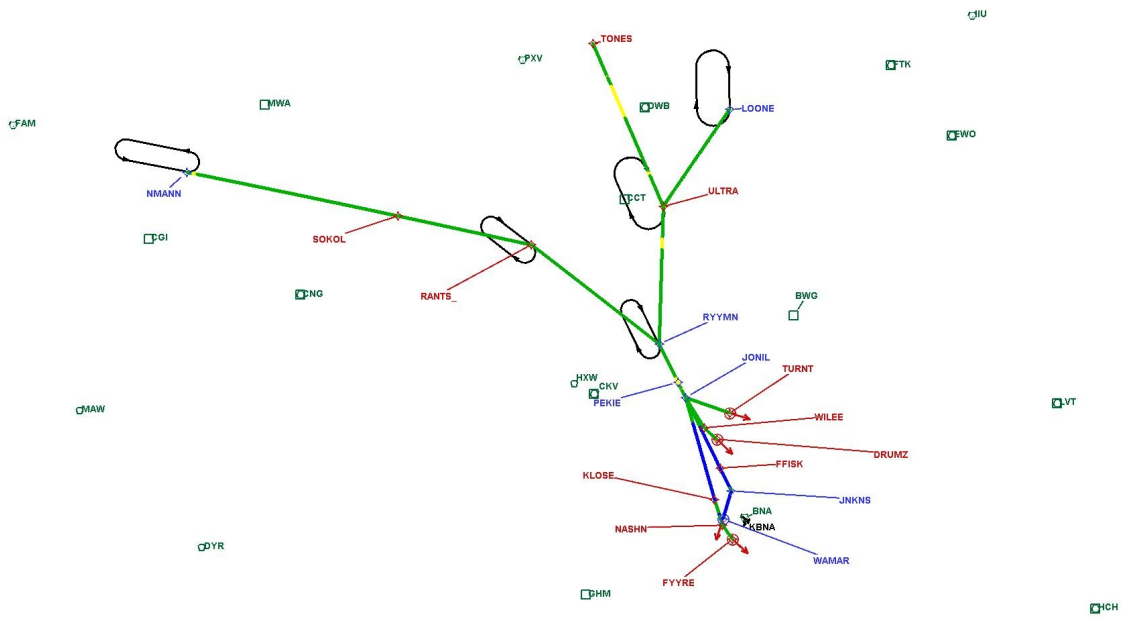
DME DME Assessment Results for RYYMN3 path RANTS__NMANN

DME Error



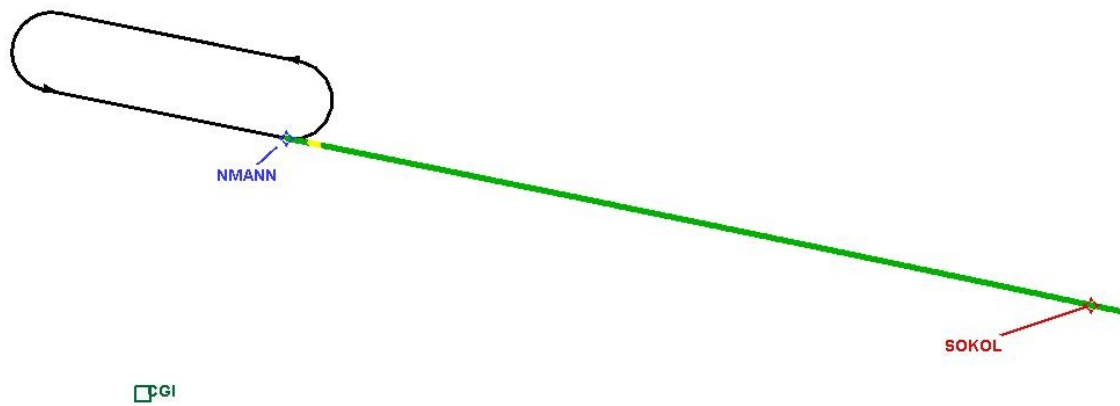
DME DME Assessment Results for RYYMN3 path RANTS__NMANN

Graphic Depiction 1



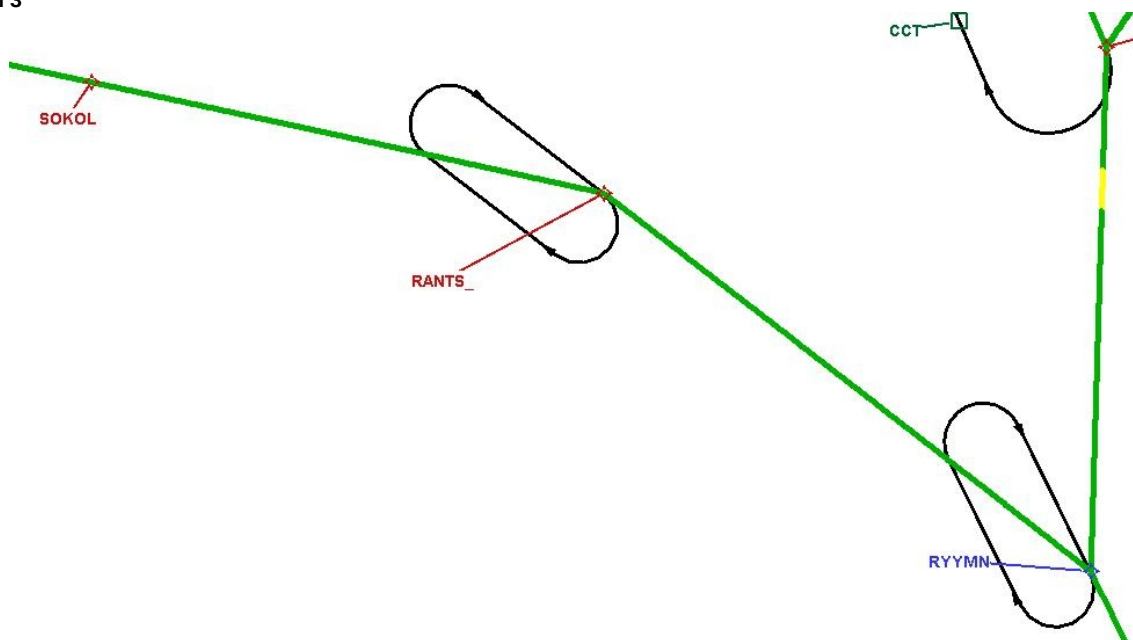
DME DME Assessment Results for RYYMN3 path RANTS__NMANN

Graphic Depiction 2

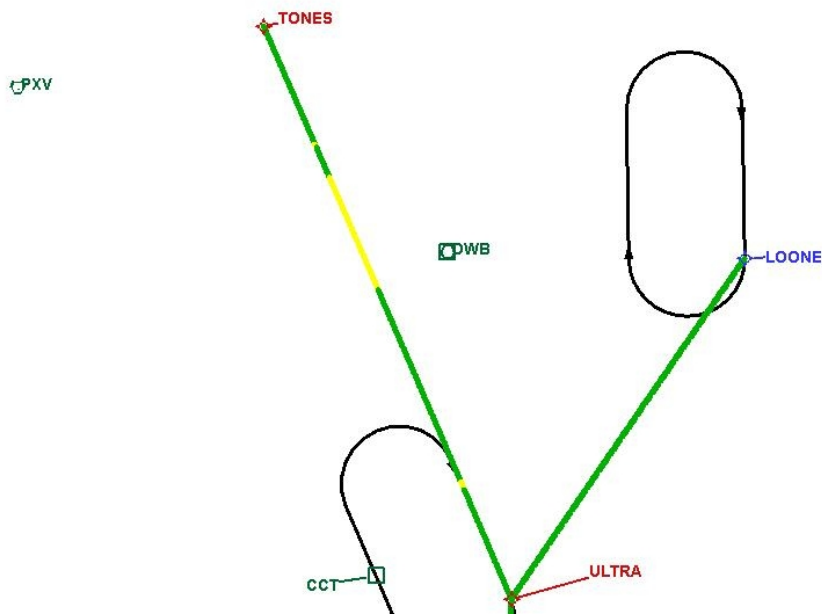


DME DME Assessment Results for RYYMN3 path RANTS__NMANN

Graphic Depiction 3

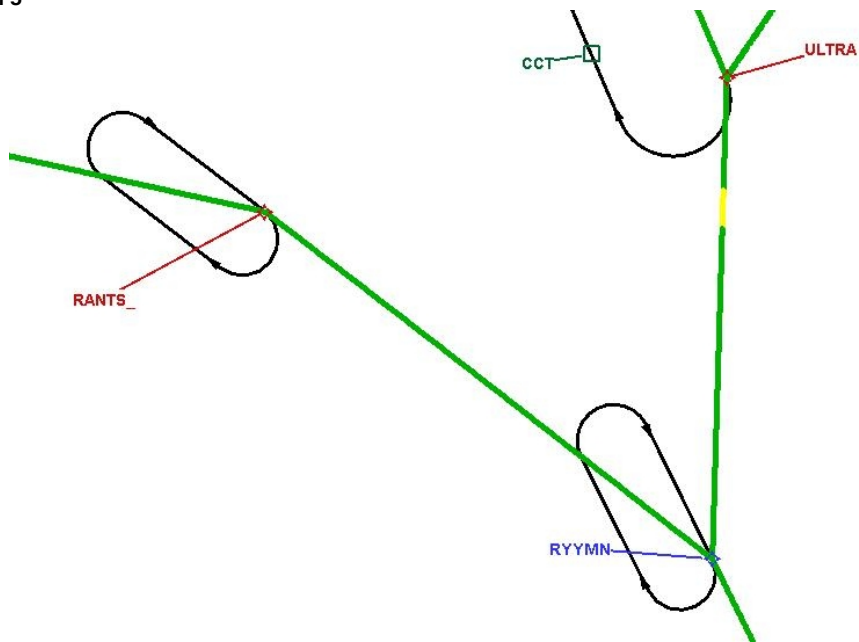


Graphic Depiction 4



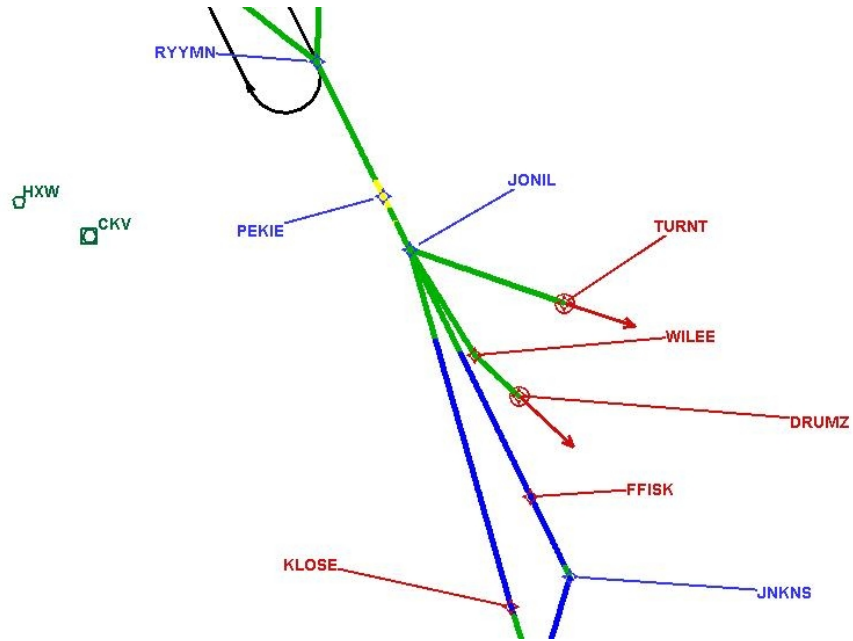
DME DME Assessment Results for RYYMN3 path RANTS__NMANN

Graphic Depiction 5



Graphic Depiction 6

DME DME Assessment Results for RYYMN3 path RANTS__NMANN



Graphic Depiction 7



DME DME Assessment Results for RYYMN3 path ULTRA_TONES

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Erik J-CTR John
Project File:	C:\Users\Erik J-CTR John\OneDrive - Federal Aviation Administration\Desktop\PROJECT FILES\KBNA\KBNA RYYMN3 (RNAV) STAR\KBNA RYYMN3 (RNAV) STAR DME 29 JAN 2025.tgs
Output File:	C:\Users\Erik J-CTR John\OneDrive - Federal Aviation Administration\Desktop\PROJECT FILES\KBNA\KBNA RYYMN3 (RNAV) STAR\DME\KBNA [IFPA] RYYMN3 20250129_1117 EST\ULTRA_TONES\KBNA RYYMN3 RNAV STAR ULTRA TONES 20250129_1117 EST.pdf
Procedure Name:	RYYMN3
Software: DmeDmePlugin:	7.4.1
Date/Time:	01/29/2025 11:17 EST
Databases:	MITRE 3DEP 3 arcsec

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
ULTRA	WP	N37° 21' 22.311193758", W087° 04' 42.326443928"	12000	VNAV	280	FLY_BY	TF
TONES	WP	N37° 59' 45.060075373", W087° 25' 14.616163512"	12000	VNAV	280	FLY_BY	TF

Flyability

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

DME DME Assessment Results for RYYMN3 path ULTRA_TONES

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, TACAN
DME Include Angles:	30 to 150
Critical DMEs:	Not Allowed
DoD Facilities:	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:	DOB,SKE

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	BWG	N36° 55' 43.468300000", W086° 26' 36.361900000"	0.0 E	130	DH		NO	Enabled	94.2 %	94.2 %
2	IIU	N38° 06' 12.471800000", W085° 34' 38.771700000"	1.0 E	130	H		NO	Enabled	19 %	19 %
3	CCT	N37° 22' 56.718200000", W087° 15' 49.332500000"	0.0 E	40	L		NO	Enabled	100 %	100 %
4	OWB	N37° 44' 36.798300000", W087° 09' 57.372200000"	4.0 W	40	L		NO	Enabled	78.4 %	78.4 %
5	EWO	N37° 37' 54.521000000", W085° 40' 33.159000000"	1.0 E	40	L		NO	Enabled	20.3 %	20.3 %
6	PXV	N37° 55' 41.951400000", W087° 45' 44.567500000"	3.0 E	130	H		NO	Enabled	77.4 %	77.4 %
7	DOB	N33° 54' 52.750000000", W084° 30' 26.320000000"	3.0 W	25	T	IFPA	NO	Disabled		
8	SKE	N38° 32' 43.302400000", W089° 51' 05.924700000"	2.0 W	25	T	IFPA	NO	Disabled		

DME DME Assessment Results for RYYMN3 path ULTRA_TONES

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0	OWB	CCT	IIU	BWG		
8.0	BWG	CCT	PXV	OWB		
8.6	BWG	CCT				
9.9	PXV	CCT	BWG	OWB		
20.3	PXV	CCT	BWG			
22.6	BWG	OWB	CCT	PXV		
28.1	PXV	CCT	OWB			
28.2	PXV	CCT	OWB	BWG		
30.8	PXV	CCT	OWB			
32.4	PXV	CCT				
33.0	PXV	CCT	OWB	BWG		
33.2	PXV	CCT	EWO	BWG		
37.7	PXV	CCT	EWO	BWG	OWB	

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
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Available DMEs by Waypoints

Waypoint Before	Waypoint After	DME List	Suggested DMEs
ULTRA	TONES	BWG, IIU, CCT, OWB, EWO, PXV	

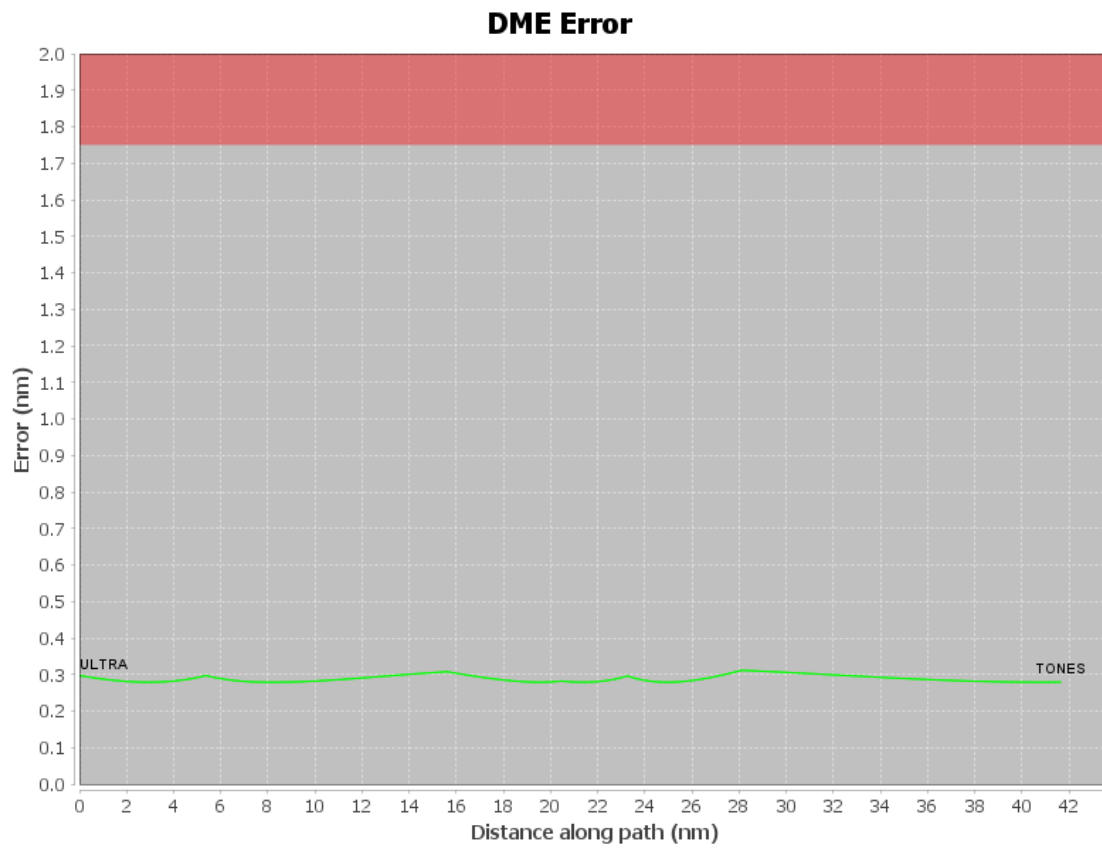
User Data Files

#	File Name
	None

User DMEs

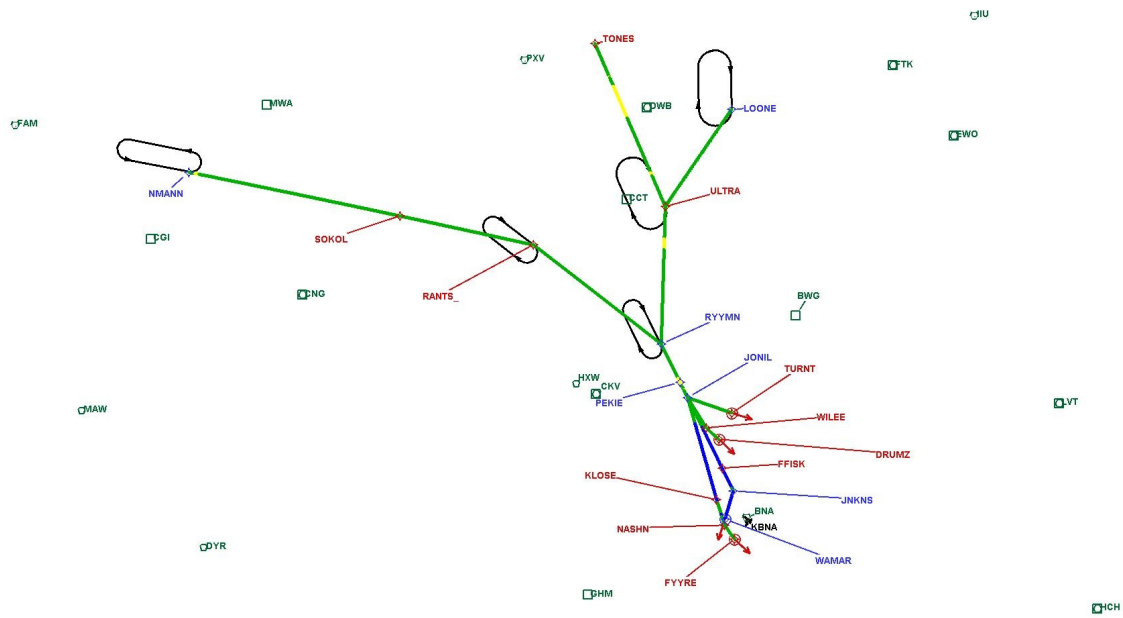
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	EWO FAA 200445-17 EWO	N37° 37' 54.521000000", W085° 40' 33.159000000"	1.0 E	40	960	113.95	EWO FAA 200445-17	
ESV:		Bearing [True]: 279.0° to 291.0° Bearing [Mag]: 278.0° to 290.0°				Arc Distance: Out to 105.0 NM Altitude: 9900.0 to 19000.0 ft		
2	GHM FAA 755483-13 GHM	N35° 50' 02.191100000", W087° 27' 06.482400000"	0.0 E	40	774.1	111.6	GHM FAA 755483-13	
ESV:		Bearing [True]: 52.0° to 109.0° Bearing [Mag]: 52.0° to 109.0°				Arc Distance: Out to 65.0 NM Altitude: 4000.0 to 20000.0 ft		
3	IIU FAA 704184-65 IIU	N38° 06' 12.471800000", W085° 34' 38.771700000"	1.0 E	130	719.7	114.8	IIU FAA 704184-65	
ESV:		Bearing [True]: 223.0° to 244.0° Bearing [Mag]: 222.0° to 243.0°				Arc Distance: Out to 100.0 NM Altitude: 10900.0 to 15300.0 ft		
4	BNA FAA 698156-40 BNA	N36° 08' 13.057300000", W086° 41' 05.176200000"	2.0 W	130	566.4	114.1	BNA FAA 698156-40	
ESV:		Bearing [True]: 316.0° to 340.0° Bearing [Mag]: 318.0° to 342.0°				Arc Distance: Out to 79.0 NM Altitude: 10000.0 to 15100.0 ft		
5	GHM FAA 755483-22 GHM	N35° 50' 02.191100000", W087° 27' 06.482400000"	0.0 E	40	774.1	111.6	GHM FAA 755483-22	
ESV:		Bearing [True]: 272.0° to 25.0° Bearing [Mag]: 272.0° to 25.0°				Arc Distance: Out to 64.0 NM Altitude: 10000.0 to 16000.0 ft		
6	CCT FAA 703978-11 CCT	N37° 22' 56.718200000", W087° 15' 49.332500000"	0.0 E	40	452.2	109.8	CCT FAA 703978-11	
ESV:		Bearing [True]: 142.0° to 162.0° Bearing [Mag]: 142.0° to 162.0°				Arc Distance: Out to 66.0 NM Altitude: 5800.0 to 12000.0 ft		

DME DME Assessment Results for RYYMN3 path ULTRA_TONES

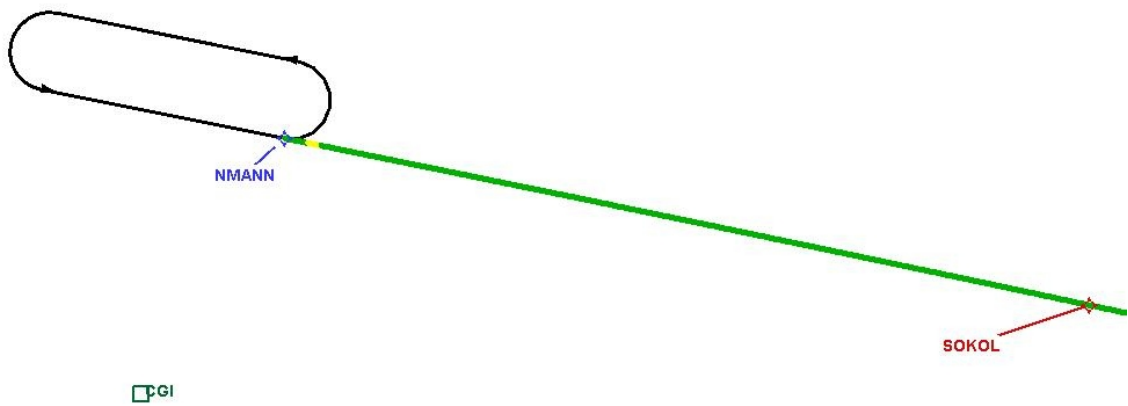


DME DME Assessment Results for RYYMN3 path ULTRA_TONES

Graphic Depiction 1

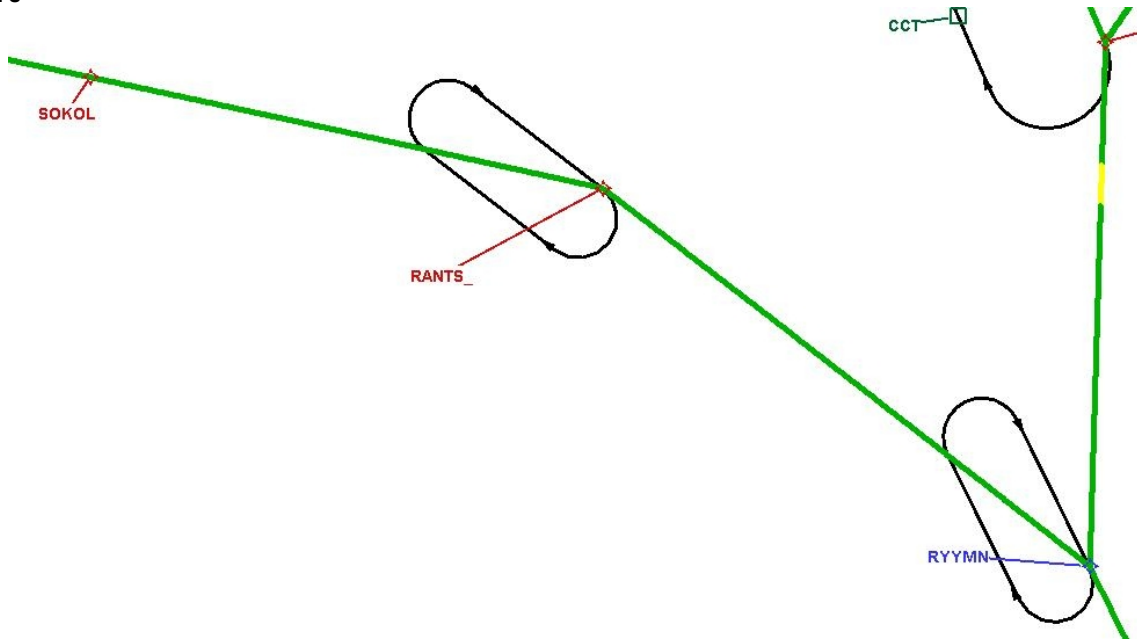


Graphic Depiction 2



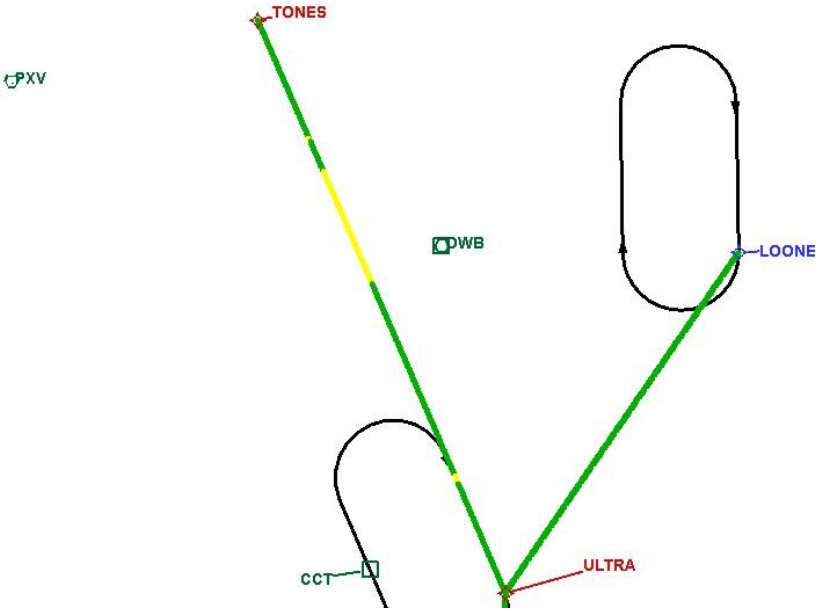
DME DME Assessment Results for RYYMN3 path ULTRA_TONES

Graphic Depiction 3



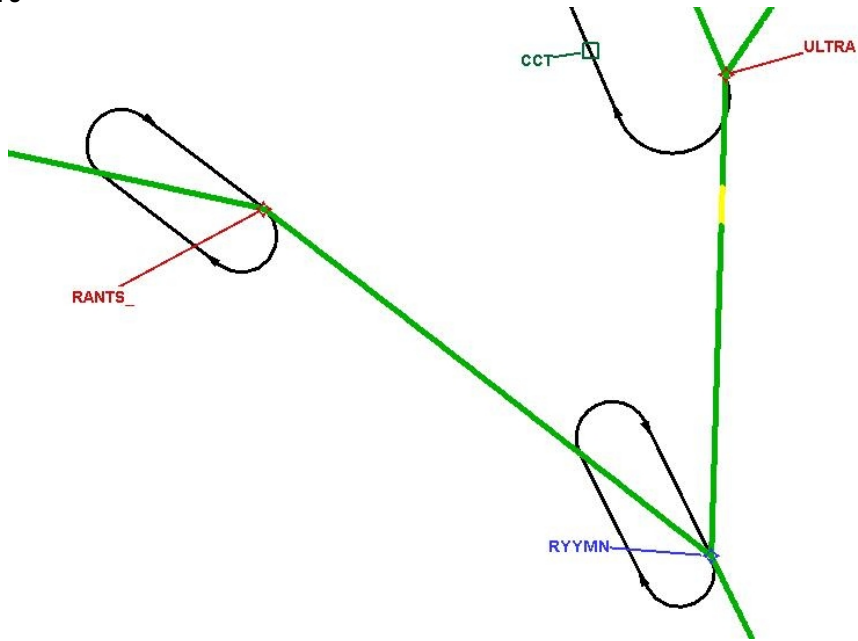
DME DME Assessment Results for RYYMN3 path ULTRA_TONES

Graphic Depiction 4



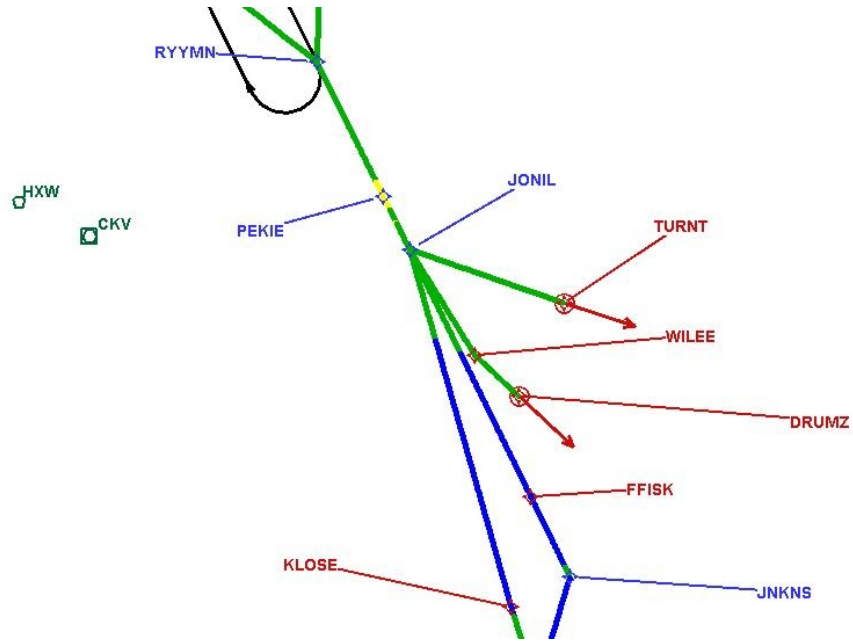
DME DME Assessment Results for RYYMN3 path ULTRA_TONES

Graphic Depiction 5



DME DME Assessment Results for RYYMN3 path ULTRA_TONES

Graphic Depiction 6



Graphic Depiction 7

