

DME DME Assessment Results for RAYZZ3 path ALROE_MAHAR

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Mark CTR Thompson
Project File:	C:\Users\Mark CTR Thompson\OneDrive - Federal Aviation Administration\Desktop\RNAV Projects\RNAV Projects 2025\TPA.SRQ STARS_250417\KTPA RAYZZ3 (RNAV) STAR\DME\KTPA RAYZZ3 (RNAV) STAR DME_240905.tgs
Output File:	C:\Users\Mark CTR Thompson\OneDrive - Federal Aviation Administration\Desktop\RNAV Projects\RNAV Projects 2025\TPA.SRQ STARS_250417\KTPA RAYZZ3 (RNAV) STAR\DME\KTPA [IFPA] RAYZZ3 20240905_0849 EDT\ALROE_MAHAR\KTPA RAYZZ3 RNAV STAR ALROE MAHAR 20240905_0849 EDT.pdf
Procedure Name:	RAYZZ3
Software: DmeDmePlugin:	7.3.3
Date/Time:	09/05/2024 08:49 EDT
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
ALROE	WP	N27° 47' 11.09", W083° 00' 29.00"	8000	VNAV	240	FLY_BY	TF
MAHAR	WP	N27° 41' 47.52", W082° 53' 53.64"	6000	VNAV	240	FLY_OVER	TF

Flyability

Flight Type:	RNAV_STAR
Selected Airport:	KTPA [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 RAYZZ3 path ALROE_MAHAR

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:	Allowed
DoD Facilities:	Not included
Foreign Facilities:	Not included
High DMEs:	Included
Low DMEs:	Included
Terminal DMEs:	Included
Flight Check DMEs:	Not selected
Higher Altitudes:	Not Evaluated
Near Maximum Altitude:	Not Evaluated
Automatic ESVs:	Not enabled
Disabled DMEs:	None

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	LAL	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	H	IFPA	NO	Enabled		
2	SRQ	N27° 24' 25.26", W082° 33' 49.18"	5.0 W	130	DH	IFPA	NO	Enabled		
3	PIE	N27° 54' 27.95", W082° 41' 03.51"	5.0 W	130	H	IFPA	NO	Enabled		
4	OCF	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	L	IFPA	NO	Enabled		
5	RSW	N26° 31' 47.59", W081° 46' 32.77"	2.0 W	130	H	IFPA	NO	Enabled		

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	SRQ [IFPA]	PIE [IFPA]	LAL [IFPA]	OCF [IFPA]	RSW [IFPA]	
0.1	SRQ [IFPA]	PIE [IFPA]	LAL [IFPA]	OCF [IFPA]		

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

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
ALROE	MAHAR	LAL [IFPA], SRQ [IFPA], PIE [IFPA], OCF [IFPA], RSW [IFPA]	

User Data Files

#	File Name
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None

DME DME Assessment Results for RAYZZ3 path ALROE_MAHAR

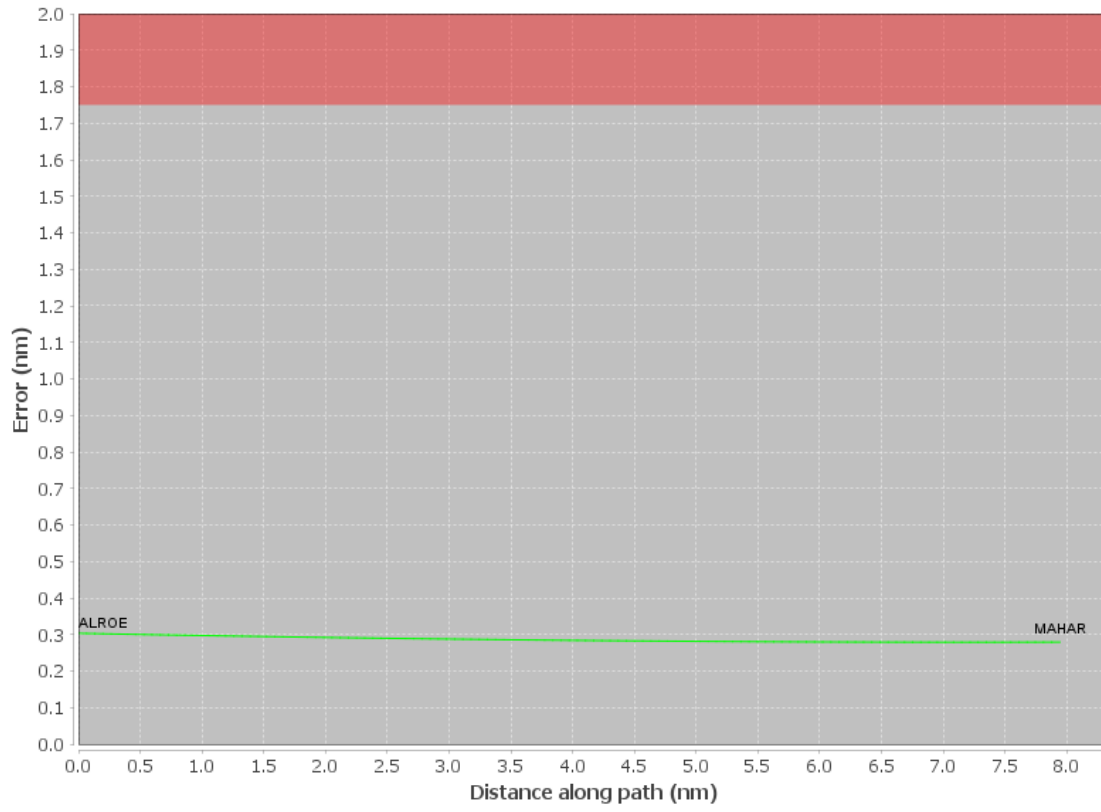
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	LAL FAA 704224-69 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-69	
	ESV:	Bearing [True]: 240.0° to 260.0° Bearing [Mag]: 239.0° to 259.0°			Arc Distance: Out to 75.0 NM Altitude: 6000.0 to 14700.0 ft			
2	OCF FAA 714002-37 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-37	
	ESV:	Bearing [True]: 190.0° to 220.0° Bearing [Mag]: 190.0° to 220.0°			Arc Distance: Out to 77.0 NM Altitude: 5200.0 to 6100.0 ft			
3	OCF FAA 714002-25 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-25	
	ESV:	Bearing [True]: 190.0° to 235.0° Bearing [Mag]: 190.0° to 235.0°			Arc Distance: Out to 130.0 NM Altitude: 10000.0 to 20000.0 ft			
4	ORL FAA 694096-76 ORL [IFPA]	N28° 32' 33.80", W081° 20' 06.05"	0.0 E	130	101.6	112.2	ORL FAA 694096-76	
	ESV:	Bearing [True]: 200.0° to 271.0° Bearing [Mag]: 200.0° to 271.0°			Arc Distance: Out to 86.0 NM Altitude: 5500.0 to 14700.0 ft			
5	CTY FAA 704013-51 CTY [IFPA]	N29° 35' 56.40", W083° 02' 55.65"	2.0 W	40	33.8	112.0	CTY FAA 704013-51	
	ESV:	Bearing [True]: 167.0° to 215.0° Bearing [Mag]: 169.0° to 217.0°			Arc Distance: Out to 130.0 NM Altitude: 15000.0 to 18000.0 ft			
6	OCF FAA 714002-10 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-10	
	ESV:	Bearing [True]: 210.0° to 235.0° Bearing [Mag]: 210.0° to 235.0°			Arc Distance: Out to 138.0 NM Altitude: 14000.0 to 18000.0 ft			
7	ORL FAA 694096-35 ORL [IFPA]	N28° 32' 33.80", W081° 20' 06.05"	0.0 E	130	101.6	112.2	ORL FAA 694096-35	
	ESV:	Bearing [True]: 225.0° to 275.0° Bearing [Mag]: 225.0° to 275.0°			Arc Distance: Out to 100.0 NM Altitude: 7000.0 to 14700.0 ft			
8	ORL FAA 694096-38 ORL [IFPA]	N28° 32' 33.80", W081° 20' 06.05"	0.0 E	130	101.6	112.2	ORL FAA 694096-38	
	ESV:	Bearing [True]: 242.0° to 256.0° Bearing [Mag]: 242.0° to 256.0°			Arc Distance: Out to 165.0 NM Altitude: 18000.0 to 35000.0 ft			
9	OCF FAA 714002-46 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-46	
	ESV:	Bearing [True]: 190.0° to 225.0° Bearing [Mag]: 190.0° to 225.0°			Arc Distance: Out to 72.0 NM Altitude: 3600.0 to 10000.0 ft			
10	OCF FAA 714002-26 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-26	
	ESV:	Bearing [True]: 190.0° to 210.0° Bearing [Mag]: 190.0° to 210.0°			Arc Distance: Out to 105.0 NM Altitude: 6000.0 to 18000.0 ft			
11	CTY FAA 704013-34 CTY [IFPA]	N29° 35' 56.40", W083° 02' 55.65"	2.0 W	40	33.8	112.0	CTY FAA 704013-34	
	ESV:	Bearing [True]: 188.0° to 197.0° Bearing [Mag]: 190.0° to 199.0°			Arc Distance: Out to 109.0 NM Altitude: 10000.0 to 20000.0 ft			
12	LAL FAA 704224-28 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-28	
	ESV:	Bearing [True]: 247.0° to 260.0° Bearing [Mag]: 246.0° to 259.0°			Arc Distance: Out to 90.0 NM Altitude: 6000.0 to 14600.0 ft			
13	OCF FAA 714002-17 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-17	
	ESV:	Bearing [True]: 205.0° to 227.0° Bearing [Mag]: 205.0° to 227.0°			Arc Distance: Out to 105.0 NM Altitude: 6000.0 to 18000.0 ft			
14	OCF FAA 714002-27 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-27	
	ESV:	Bearing [True]: 215.0° to 230.0° Bearing [Mag]: 215.0° to 230.0°			Arc Distance: Out to 145.0 NM Altitude: 13500.0 to 18100.0 ft			
15	CTY FAA 704013-39 CTY [IFPA]	N29° 35' 56.40", W083° 02' 55.65"	2.0 W	40	33.8	112.0	CTY FAA 704013-39	
	ESV:	Bearing [True]: 193.0° to 208.0° Bearing [Mag]: 195.0° to 210.0°			Arc Distance: Out to 138.0 NM Altitude: 14500.0 to 18100.0 ft			
16	LAL FAA 704224-107 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-107	
	ESV:	Bearing [True]: 230.0° to 260.0° Bearing [Mag]: 229.0° to 259.0°			Arc Distance: Out to 55.0 NM Altitude: 3000.0 to 14500.0 ft			
17	LAL FAA 704224-35 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-35	

DME DME Assessment Results for RAYZZ3 path ALROE_MAHAR

User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
	ESV:	Bearing [True]: 245.0° to 270.0° Bearing [Mag]: 244.0° to 269.0°				Arc Distance: Out to 95.0 NM Altitude: 7000.0 to 14700.0 ft		
18	LAL FAA 704224-82 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-82	
	ESV:	Bearing [True]: 251.0° to 306.0° Bearing [Mag]: 250.0° to 305.0°				Arc Distance: Out to 51.0 NM Altitude: 2900.0 to 6100.0 ft		
19	OCF FAA 714002-45 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-45	
	ESV:	Bearing [True]: 190.0° to 220.0° Bearing [Mag]: 190.0° to 220.0°				Arc Distance: Out to 75.0 NM Altitude: 4600.0 to 6100.0 ft		
20	ORL FAA 694096-74 ORL [IFPA]	N28° 32' 33.80", W081° 20' 06.05"	0.0 E	130	101.6	112.2	ORL FAA 694096-74	
	ESV:	Bearing [True]: 200.0° to 271.0° Bearing [Mag]: 200.0° to 271.0°				Arc Distance: Out to 93.0 NM Altitude: 5500.0 to 14700.0 ft		
21	LAL FAA 704224-56 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-56	
	ESV:	Bearing [True]: 270.0° to 355.0° Bearing [Mag]: 269.0° to 354.0°				Arc Distance: Out to 60.0 NM Altitude: 6000.0 to 14700.0 ft		
22	CTY FAA 704013-48 CTY [IFPA]	N29° 35' 56.40", W083° 02' 55.65"	2.0 W	40	33.8	112.0	CTY FAA 704013-48	
	ESV:	Bearing [True]: 148.0° to 228.0° Bearing [Mag]: 150.0° to 230.0°				Arc Distance: Out to 130.0 NM Altitude: 16000.0 to 18000.0 ft		
23	RSW FAA 191354-62 RSW [IFPA]	N26° 31' 47.59", W081° 46' 32.77"	2.0 W	130	24.8	114.15	RSW FAA 191354-62	
	ESV:	Bearing [True]: 305.0° to 325.0° Bearing [Mag]: 307.0° to 327.0°				Arc Distance: Out to 105.0 NM Altitude: 8000.0 to 12500.0 ft		
24	OCF FAA 714002-42 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-42	
	ESV:	Bearing [True]: 180.0° to 200.0° Bearing [Mag]: 180.0° to 200.0°				Arc Distance: Out to 82.0 NM Altitude: 4900.0 to 10000.0 ft		

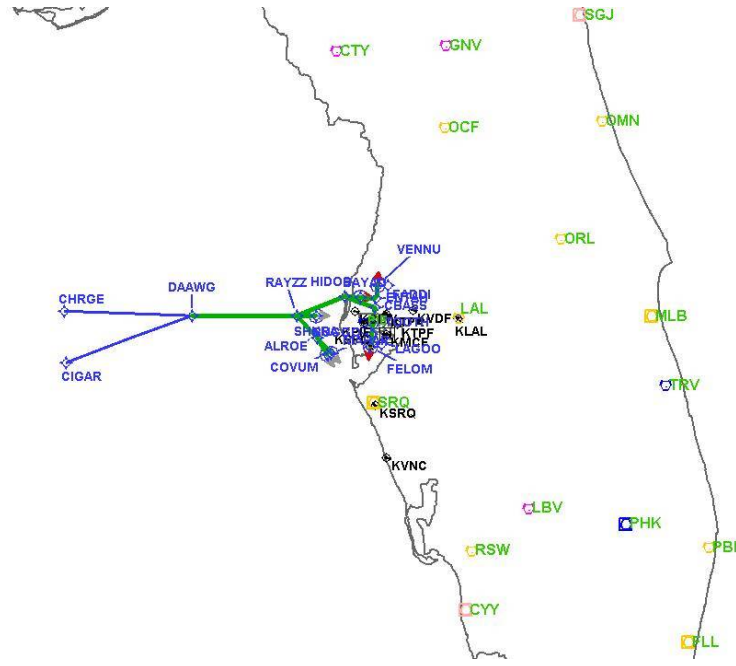
DME DME Assessment Results for RAYZZ3 path ALROE_MAHAR

DME Error



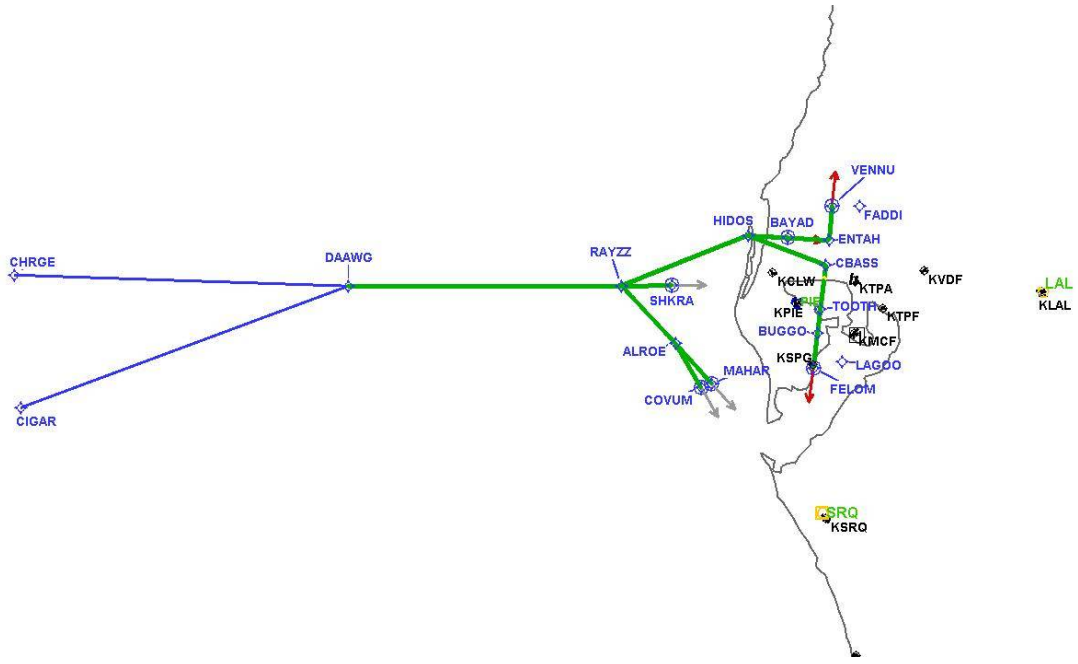
DME DME Assessment Results for RAYZZ3 path ALROE_MAHAR

Graphic Depiction 1



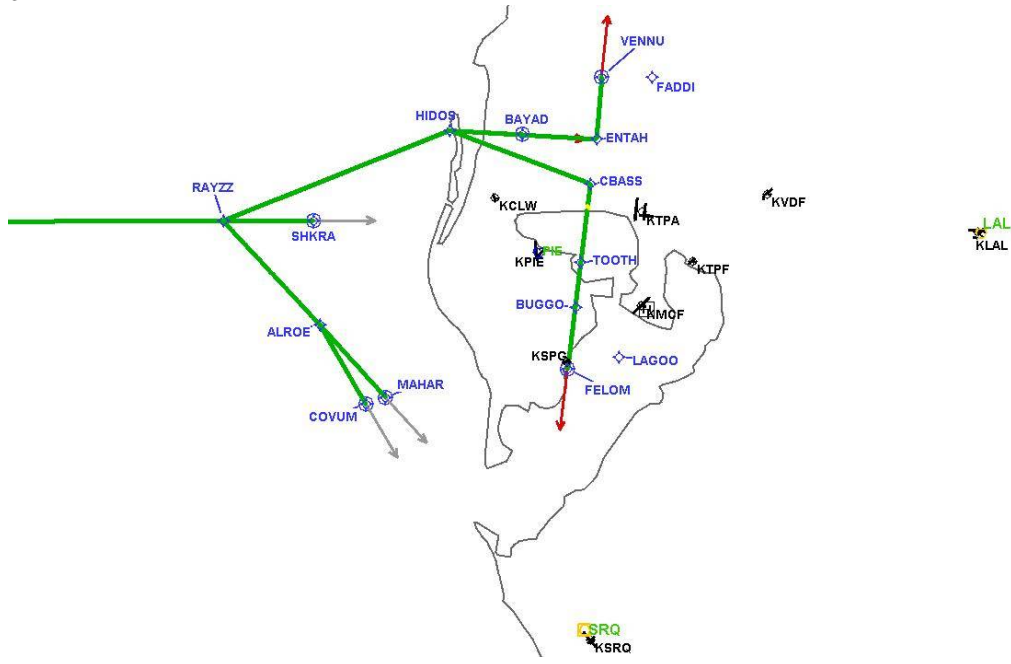
DME DME Assessment Results for RAYZZ3 path ALROE_MAHAR

Graphic Depiction 2



DME DME Assessment Results for RAYZZ3 path ALROE_MAHAR

Graphic Depiction 3



DME DME Assessment Results for RAYZZ3 path CHRGE_DAAWG

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Mark CTR Thompson
Project File:	C:\Users\Mark CTR Thompson\OneDrive - Federal Aviation Administration\Desktop\RNAV Projects\RNAV Projects 2025\TPA.SRQ STARS_250417\KTPA RAYZZ3 (RNAV) STAR\DME\KTPA RAYZZ3 (RNAV) STAR DME_240905.tgs
Output File:	C:\Users\Mark CTR Thompson\OneDrive - Federal Aviation Administration\Desktop\RNAV Projects\RNAV Projects 2025\TPA.SRQ STARS_250417\KTPA RAYZZ3 (RNAV) STAR\DME\KTPA [IFPA] RAYZZ3 20240905_0849 EDT\CHRGE_DAAWG\KTPA RAYZZ3 RNAV STAR CHRGE DAAWG 20240905_0849 EDT.pdf
Procedure Name:	RAYZZ3
Software: DmeDmePlugin:	7.3.3
Date/Time:	09/05/2024 08:49 EDT
Databases:	MITRE 3DEP 3 arcsec

Failures

No Failures

Warnings

GNSS_ONLY CHRGE_____DAAWG is GNSS Only and was not evaluated

Informational

GNSS_ONLY CHRGE_____DAAWG is GNSS Only and was not evaluated

Notes For Flight Check

None

Flight Plan

Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
CHRGE	WP	N27° 48' 44.48", W084° 49' 55.93"	18000	VNAV	240	FLY_BY	TF
DAAWG	WP	N27° 51' 15.40", W083° 54' 55.52"	18000	VNAV	240	FLY_BY	TF

Flyability

Flight Type:	RNAV_STAR
Selected Airport:	KTPA [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 RAYZZ3 path CHRGE_DAAWG

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:	Allowed
DoD Facilities:	Not included
Foreign Facilities:	Not included
High DMEs:	Included
Low DMEs:	Included
Terminal DMEs:	Included
Flight Check DMEs:	Not selected
Higher Altitudes:	Not Evaluated
Near Maximum Altitude:	Not Evaluated
Automatic ESVs:	Not enabled
Disabled DMEs:	None

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance

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

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
CHRGE	DAAWG		

User Data Files

#	File Name
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None

DME DME Assessment Results for RAYZZ3 path CHRGE_DAAWG

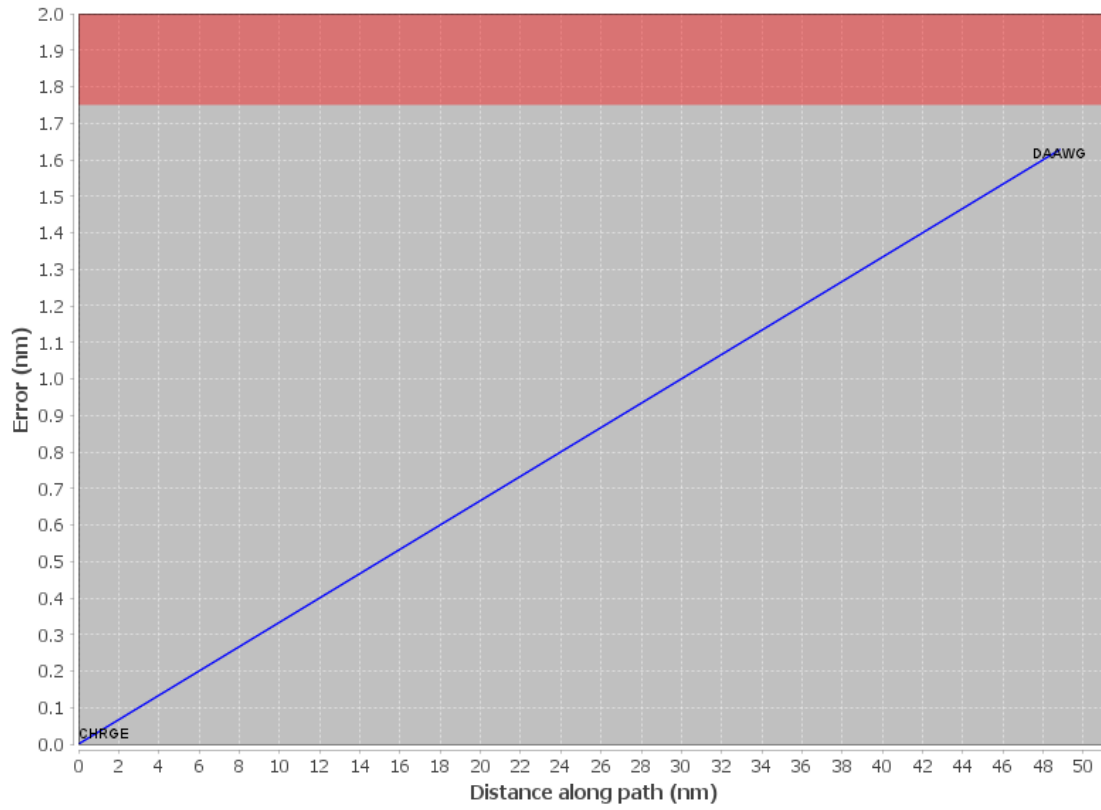
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	LAL FAA 704224-69 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-69	
	ESV:	Bearing [True]: 240.0° to 260.0° Bearing [Mag]: 239.0° to 259.0°			Arc Distance: Out to 75.0 NM Altitude: 6000.0 to 14700.0 ft			
2	OCF FAA 714002-37 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-37	
	ESV:	Bearing [True]: 190.0° to 220.0° Bearing [Mag]: 190.0° to 220.0°			Arc Distance: Out to 77.0 NM Altitude: 5200.0 to 6100.0 ft			
3	OCF FAA 714002-25 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-25	
	ESV:	Bearing [True]: 190.0° to 235.0° Bearing [Mag]: 190.0° to 235.0°			Arc Distance: Out to 130.0 NM Altitude: 10000.0 to 20000.0 ft			
4	ORL FAA 694096-76 ORL [IFPA]	N28° 32' 33.80", W081° 20' 06.05"	0.0 E	130	101.6	112.2	ORL FAA 694096-76	
	ESV:	Bearing [True]: 200.0° to 271.0° Bearing [Mag]: 200.0° to 271.0°			Arc Distance: Out to 86.0 NM Altitude: 5500.0 to 14700.0 ft			
5	CTY FAA 704013-51 CTY [IFPA]	N29° 35' 56.40", W083° 02' 55.65"	2.0 W	40	33.8	112.0	CTY FAA 704013-51	
	ESV:	Bearing [True]: 167.0° to 215.0° Bearing [Mag]: 169.0° to 217.0°			Arc Distance: Out to 130.0 NM Altitude: 15000.0 to 18000.0 ft			
6	OCF FAA 714002-10 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-10	
	ESV:	Bearing [True]: 210.0° to 235.0° Bearing [Mag]: 210.0° to 235.0°			Arc Distance: Out to 138.0 NM Altitude: 14000.0 to 18000.0 ft			
7	ORL FAA 694096-35 ORL [IFPA]	N28° 32' 33.80", W081° 20' 06.05"	0.0 E	130	101.6	112.2	ORL FAA 694096-35	
	ESV:	Bearing [True]: 225.0° to 275.0° Bearing [Mag]: 225.0° to 275.0°			Arc Distance: Out to 100.0 NM Altitude: 7000.0 to 14700.0 ft			
8	ORL FAA 694096-38 ORL [IFPA]	N28° 32' 33.80", W081° 20' 06.05"	0.0 E	130	101.6	112.2	ORL FAA 694096-38	
	ESV:	Bearing [True]: 242.0° to 256.0° Bearing [Mag]: 242.0° to 256.0°			Arc Distance: Out to 165.0 NM Altitude: 18000.0 to 35000.0 ft			
9	OCF FAA 714002-46 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-46	
	ESV:	Bearing [True]: 190.0° to 225.0° Bearing [Mag]: 190.0° to 225.0°			Arc Distance: Out to 72.0 NM Altitude: 3600.0 to 10000.0 ft			
10	OCF FAA 714002-26 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-26	
	ESV:	Bearing [True]: 190.0° to 210.0° Bearing [Mag]: 190.0° to 210.0°			Arc Distance: Out to 105.0 NM Altitude: 6000.0 to 18000.0 ft			
11	CTY FAA 704013-34 CTY [IFPA]	N29° 35' 56.40", W083° 02' 55.65"	2.0 W	40	33.8	112.0	CTY FAA 704013-34	
	ESV:	Bearing [True]: 188.0° to 197.0° Bearing [Mag]: 190.0° to 199.0°			Arc Distance: Out to 109.0 NM Altitude: 10000.0 to 20000.0 ft			
12	LAL FAA 704224-28 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-28	
	ESV:	Bearing [True]: 247.0° to 260.0° Bearing [Mag]: 246.0° to 259.0°			Arc Distance: Out to 90.0 NM Altitude: 6000.0 to 14600.0 ft			
13	OCF FAA 714002-17 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-17	
	ESV:	Bearing [True]: 205.0° to 227.0° Bearing [Mag]: 205.0° to 227.0°			Arc Distance: Out to 105.0 NM Altitude: 6000.0 to 18000.0 ft			
14	OCF FAA 714002-27 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-27	
	ESV:	Bearing [True]: 215.0° to 230.0° Bearing [Mag]: 215.0° to 230.0°			Arc Distance: Out to 145.0 NM Altitude: 13500.0 to 18100.0 ft			
15	CTY FAA 704013-39 CTY [IFPA]	N29° 35' 56.40", W083° 02' 55.65"	2.0 W	40	33.8	112.0	CTY FAA 704013-39	
	ESV:	Bearing [True]: 193.0° to 208.0° Bearing [Mag]: 195.0° to 210.0°			Arc Distance: Out to 138.0 NM Altitude: 14500.0 to 18100.0 ft			
16	LAL FAA 704224-107 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-107	
	ESV:	Bearing [True]: 230.0° to 260.0° Bearing [Mag]: 229.0° to 259.0°			Arc Distance: Out to 55.0 NM Altitude: 3000.0 to 14500.0 ft			
17	LAL FAA 704224-35 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-35	

DME DME Assessment Results for RAYZZ3 path CHRGE_DAAWG

User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
	ESV:	Bearing [True]: 245.0° to 270.0° Bearing [Mag]: 244.0° to 269.0°					Arc Distance: Out to 95.0 NM Altitude: 7000.0 to 14700.0 ft	
18	LAL FAA 704224-82 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-82	
	ESV:	Bearing [True]: 251.0° to 306.0° Bearing [Mag]: 250.0° to 305.0°					Arc Distance: Out to 51.0 NM Altitude: 2900.0 to 6100.0 ft	
19	OCF FAA 714002-45 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-45	
	ESV:	Bearing [True]: 190.0° to 220.0° Bearing [Mag]: 190.0° to 220.0°					Arc Distance: Out to 75.0 NM Altitude: 4600.0 to 6100.0 ft	
20	ORL FAA 694096-74 ORL [IFPA]	N28° 32' 33.80", W081° 20' 06.05"	0.0 E	130	101.6	112.2	ORL FAA 694096-74	
	ESV:	Bearing [True]: 200.0° to 271.0° Bearing [Mag]: 200.0° to 271.0°					Arc Distance: Out to 93.0 NM Altitude: 5500.0 to 14700.0 ft	
21	LAL FAA 704224-56 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-56	
	ESV:	Bearing [True]: 270.0° to 355.0° Bearing [Mag]: 269.0° to 354.0°					Arc Distance: Out to 60.0 NM Altitude: 6000.0 to 14700.0 ft	
22	CTY FAA 704013-48 CTY [IFPA]	N29° 35' 56.40", W083° 02' 55.65"	2.0 W	40	33.8	112.0	CTY FAA 704013-48	
	ESV:	Bearing [True]: 148.0° to 228.0° Bearing [Mag]: 150.0° to 230.0°					Arc Distance: Out to 130.0 NM Altitude: 16000.0 to 18000.0 ft	
23	RSW FAA 191354-62 RSW [IFPA]	N26° 31' 47.59", W081° 46' 32.77"	2.0 W	130	24.8	114.15	RSW FAA 191354-62	
	ESV:	Bearing [True]: 305.0° to 325.0° Bearing [Mag]: 307.0° to 327.0°					Arc Distance: Out to 105.0 NM Altitude: 8000.0 to 12500.0 ft	
24	OCF FAA 714002-42 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-42	
	ESV:	Bearing [True]: 180.0° to 200.0° Bearing [Mag]: 180.0° to 200.0°					Arc Distance: Out to 82.0 NM Altitude: 4900.0 to 10000.0 ft	

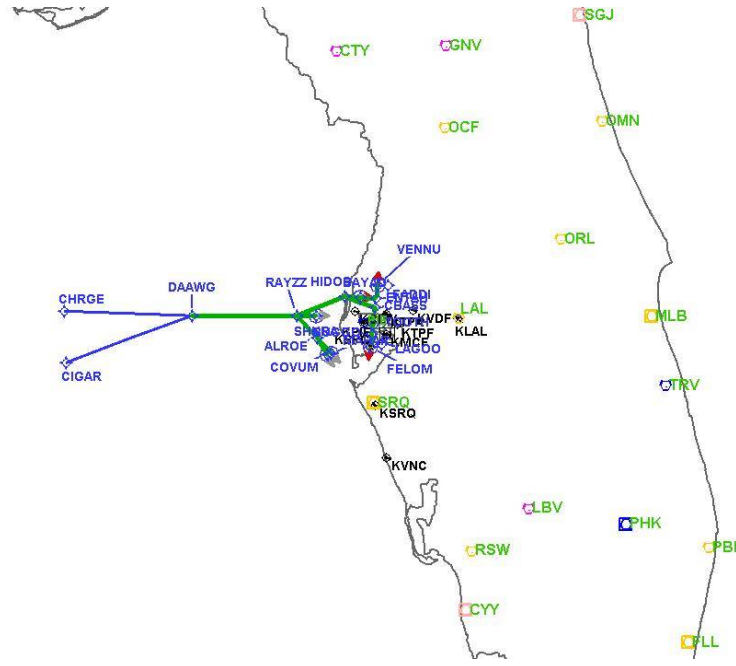
DME DME Assessment Results for RAYZZ3 path CHRGE_DAAWG

DME Error



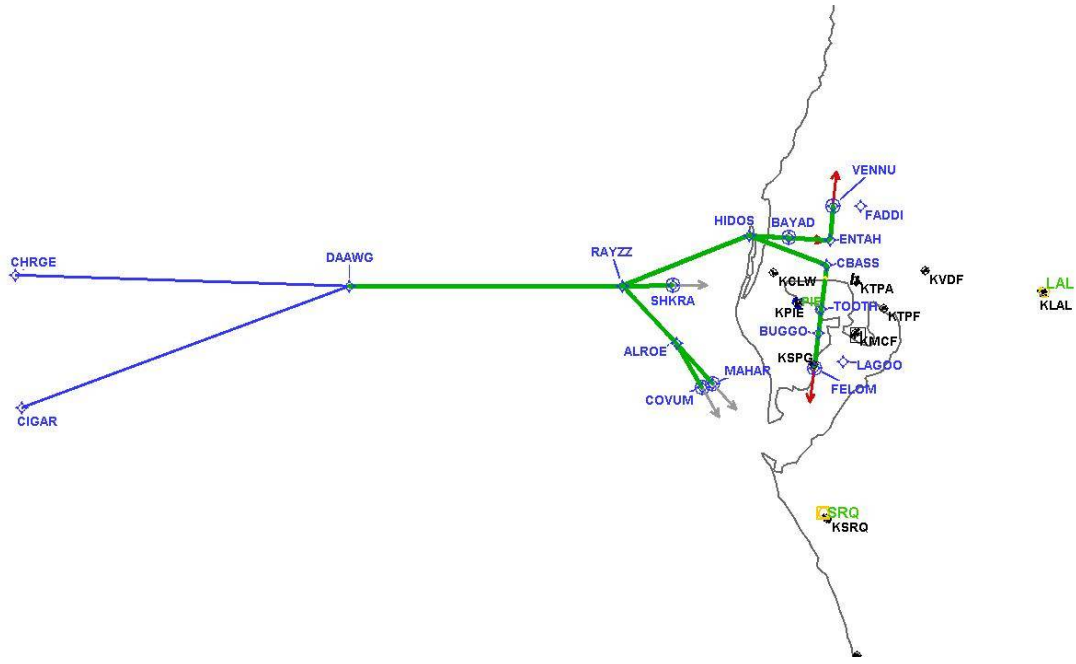
DME DME Assessment Results for RAYZZ3 path CHRGE_DAAWG

Graphic Depiction 1



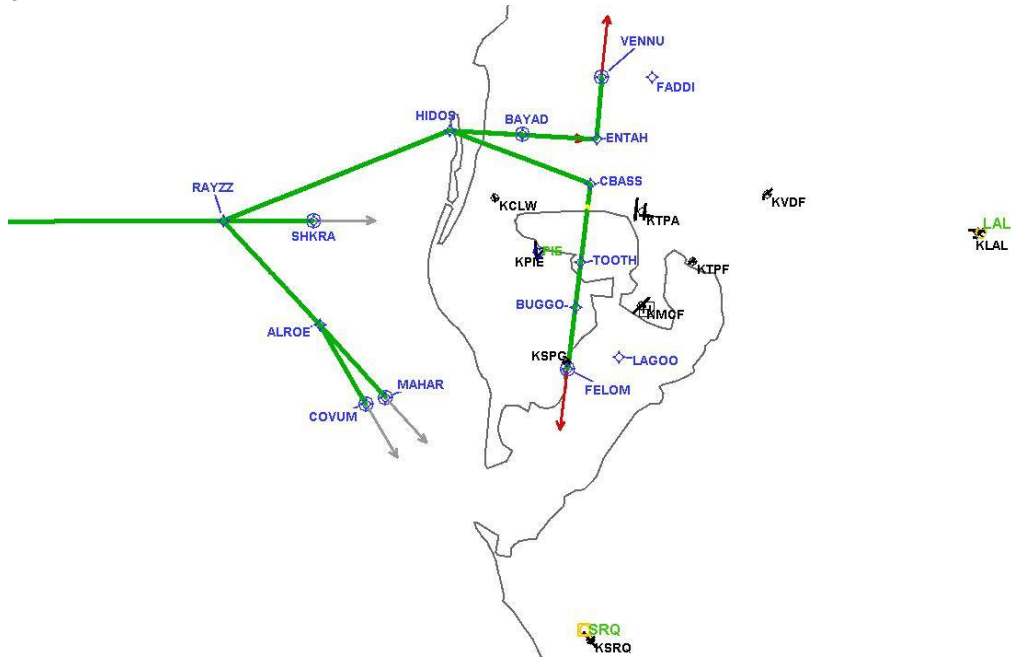
DME DME Assessment Results for RAYZZ3 path CHRGE_DAAWG

Graphic Depiction 2



DME DME Assessment Results for RAYZZ3 path CHRGE_DAAWG

Graphic Depiction 3



DME DME Assessment Results for RAYZZ3 path CIGAR_DAAWG

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Mark CTR Thompson
Project File:	C:\Users\Mark CTR Thompson\OneDrive - Federal Aviation Administration\Desktop\RNAV Projects\RNAV Projects 2025\TPA.SRQ STARS_250417\KTPA RAYZZ3 (RNAV) STAR\DME\KTPA RAYZZ3 (RNAV) STAR DME_240905.tgs
Output File:	C:\Users\Mark CTR Thompson\OneDrive - Federal Aviation Administration\Desktop\RNAV Projects\RNAV Projects 2025\TPA.SRQ STARS_250417\KTPA RAYZZ3 (RNAV) STAR\DME\KTPA [IFPA] RAYZZ3 20240905_0849 EDT\CIGAR_DAAWG\KTPA RAYZZ3 RNAV STAR CIGAR DAAWG 20240905_0849 EDT.pdf
Procedure Name:	RAYZZ3
Software: DmeDmePlugin:	7.3.3
Date/Time:	09/05/2024 08:49 EDT
Databases:	MITRE 3DEP 3 arcsec

Failures

No Failures

Warnings

GNSS_ONLY CIGAR_____DAAWG is GNSS Only and was not evaluated

Informational

GNSS_ONLY CIGAR_____DAAWG is GNSS Only and was not evaluated

Notes For Flight Check

None

Flight Plan

Name	Type	Lat/Lon	Altitude (ft)	VNAV Mode	Ground Speed (kts)	Turn Type	Leg Type
CIGAR	WP	N27° 29' 36.61", W084° 46' 59.51"	18000	VNAV	240	FLY_BY	TF
DAAWG	WP	N27° 51' 15.40", W083° 54' 55.52"	18000	VNAV	240	FLY_BY	TF

Flyability

Flight Type:	RNAV_STAR
Selected Airport:	KTPA [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 RAYZZ3 path CIGAR_DAAWG

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:	Allowed
DoD Facilities:	Not included
Foreign Facilities:	Not included
High DMEs:	Included
Low DMEs:	Included
Terminal DMEs:	Included
Flight Check DMEs:	Not selected
Higher Altitudes:	Not Evaluated
Near Maximum Altitude:	Not Evaluated
Automatic ESVs:	Not enabled
Disabled DMEs:	None

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance

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

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
CIGAR	DAAWG		

User Data Files

#	File Name
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None

DME DME Assessment Results for RAYZZ3 path CIGAR_DAAWG

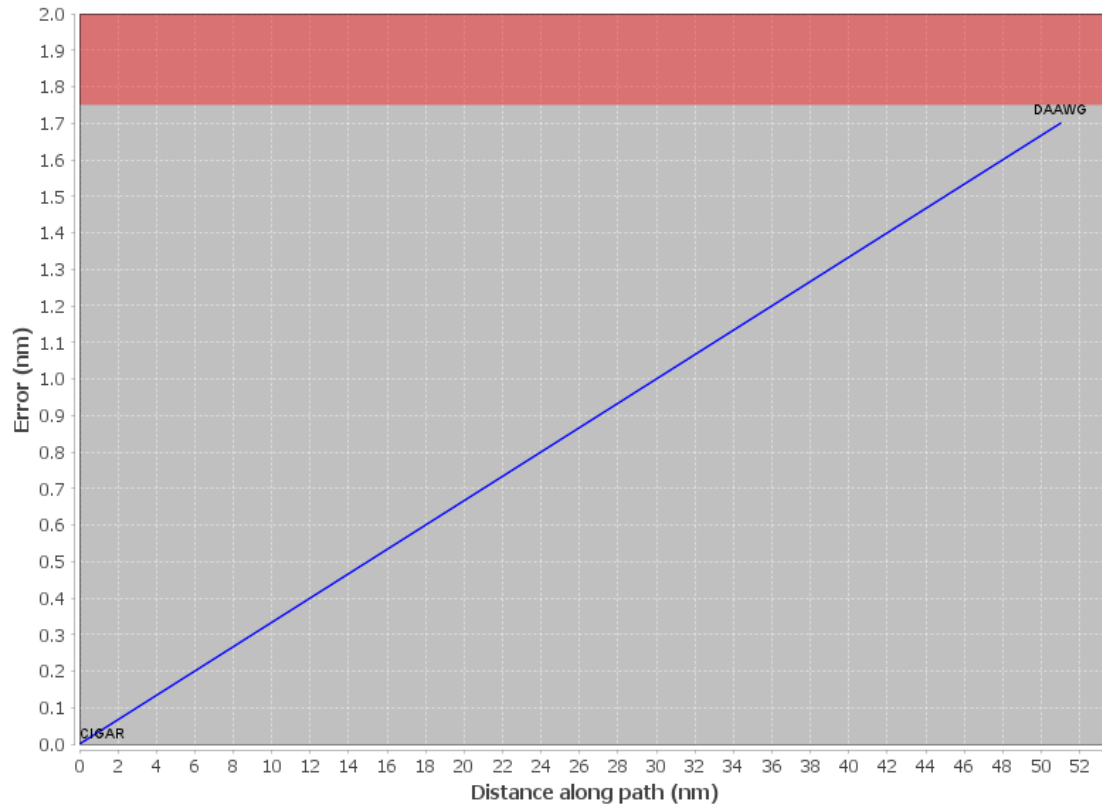
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	LAL FAA 704224-69 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-69	
	ESV:	Bearing [True]: 240.0° to 260.0° Bearing [Mag]: 239.0° to 259.0°			Arc Distance: Out to 75.0 NM Altitude: 6000.0 to 14700.0 ft			
2	OCF FAA 714002-37 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-37	
	ESV:	Bearing [True]: 190.0° to 220.0° Bearing [Mag]: 190.0° to 220.0°			Arc Distance: Out to 77.0 NM Altitude: 5200.0 to 6100.0 ft			
3	OCF FAA 714002-25 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-25	
	ESV:	Bearing [True]: 190.0° to 235.0° Bearing [Mag]: 190.0° to 235.0°			Arc Distance: Out to 130.0 NM Altitude: 10000.0 to 20000.0 ft			
4	ORL FAA 694096-76 ORL [IFPA]	N28° 32' 33.80", W081° 20' 06.05"	0.0 E	130	101.6	112.2	ORL FAA 694096-76	
	ESV:	Bearing [True]: 200.0° to 271.0° Bearing [Mag]: 200.0° to 271.0°			Arc Distance: Out to 86.0 NM Altitude: 5500.0 to 14700.0 ft			
5	CTY FAA 704013-51 CTY [IFPA]	N29° 35' 56.40", W083° 02' 55.65"	2.0 W	40	33.8	112.0	CTY FAA 704013-51	
	ESV:	Bearing [True]: 167.0° to 215.0° Bearing [Mag]: 169.0° to 217.0°			Arc Distance: Out to 130.0 NM Altitude: 15000.0 to 18000.0 ft			
6	OCF FAA 714002-10 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-10	
	ESV:	Bearing [True]: 210.0° to 235.0° Bearing [Mag]: 210.0° to 235.0°			Arc Distance: Out to 138.0 NM Altitude: 14000.0 to 18000.0 ft			
7	ORL FAA 694096-35 ORL [IFPA]	N28° 32' 33.80", W081° 20' 06.05"	0.0 E	130	101.6	112.2	ORL FAA 694096-35	
	ESV:	Bearing [True]: 225.0° to 275.0° Bearing [Mag]: 225.0° to 275.0°			Arc Distance: Out to 100.0 NM Altitude: 7000.0 to 14700.0 ft			
8	ORL FAA 694096-38 ORL [IFPA]	N28° 32' 33.80", W081° 20' 06.05"	0.0 E	130	101.6	112.2	ORL FAA 694096-38	
	ESV:	Bearing [True]: 242.0° to 256.0° Bearing [Mag]: 242.0° to 256.0°			Arc Distance: Out to 165.0 NM Altitude: 18000.0 to 35000.0 ft			
9	OCF FAA 714002-46 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-46	
	ESV:	Bearing [True]: 190.0° to 225.0° Bearing [Mag]: 190.0° to 225.0°			Arc Distance: Out to 72.0 NM Altitude: 3600.0 to 10000.0 ft			
10	OCF FAA 714002-26 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-26	
	ESV:	Bearing [True]: 190.0° to 210.0° Bearing [Mag]: 190.0° to 210.0°			Arc Distance: Out to 105.0 NM Altitude: 6000.0 to 18000.0 ft			
11	CTY FAA 704013-34 CTY [IFPA]	N29° 35' 56.40", W083° 02' 55.65"	2.0 W	40	33.8	112.0	CTY FAA 704013-34	
	ESV:	Bearing [True]: 188.0° to 197.0° Bearing [Mag]: 190.0° to 199.0°			Arc Distance: Out to 109.0 NM Altitude: 10000.0 to 20000.0 ft			
12	LAL FAA 704224-28 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-28	
	ESV:	Bearing [True]: 247.0° to 260.0° Bearing [Mag]: 246.0° to 259.0°			Arc Distance: Out to 90.0 NM Altitude: 6000.0 to 14600.0 ft			
13	OCF FAA 714002-17 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-17	
	ESV:	Bearing [True]: 205.0° to 227.0° Bearing [Mag]: 205.0° to 227.0°			Arc Distance: Out to 105.0 NM Altitude: 6000.0 to 18000.0 ft			
14	OCF FAA 714002-27 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-27	
	ESV:	Bearing [True]: 215.0° to 230.0° Bearing [Mag]: 215.0° to 230.0°			Arc Distance: Out to 145.0 NM Altitude: 13500.0 to 18100.0 ft			
15	CTY FAA 704013-39 CTY [IFPA]	N29° 35' 56.40", W083° 02' 55.65"	2.0 W	40	33.8	112.0	CTY FAA 704013-39	
	ESV:	Bearing [True]: 193.0° to 208.0° Bearing [Mag]: 195.0° to 210.0°			Arc Distance: Out to 138.0 NM Altitude: 14500.0 to 18100.0 ft			
16	LAL FAA 704224-107 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-107	
	ESV:	Bearing [True]: 230.0° to 260.0° Bearing [Mag]: 229.0° to 259.0°			Arc Distance: Out to 55.0 NM Altitude: 3000.0 to 14500.0 ft			
17	LAL FAA 704224-35 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-35	

DME DME Assessment Results for RAYZZ3 path CIGAR_DAAWG

User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
	ESV:	Bearing [True]: 245.0° to 270.0° Bearing [Mag]: 244.0° to 269.0°				Arc Distance: Out to 95.0 NM Altitude: 7000.0 to 14700.0 ft		
18	LAL FAA 704224-82 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-82	
	ESV:	Bearing [True]: 251.0° to 306.0° Bearing [Mag]: 250.0° to 305.0°				Arc Distance: Out to 51.0 NM Altitude: 2900.0 to 6100.0 ft		
19	OCF FAA 714002-45 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-45	
	ESV:	Bearing [True]: 190.0° to 220.0° Bearing [Mag]: 190.0° to 220.0°				Arc Distance: Out to 75.0 NM Altitude: 4600.0 to 6100.0 ft		
20	ORL FAA 694096-74 ORL [IFPA]	N28° 32' 33.80", W081° 20' 06.05"	0.0 E	130	101.6	112.2	ORL FAA 694096-74	
	ESV:	Bearing [True]: 200.0° to 271.0° Bearing [Mag]: 200.0° to 271.0°				Arc Distance: Out to 93.0 NM Altitude: 5500.0 to 14700.0 ft		
21	LAL FAA 704224-56 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-56	
	ESV:	Bearing [True]: 270.0° to 355.0° Bearing [Mag]: 269.0° to 354.0°				Arc Distance: Out to 60.0 NM Altitude: 6000.0 to 14700.0 ft		
22	CTY FAA 704013-48 CTY [IFPA]	N29° 35' 56.40", W083° 02' 55.65"	2.0 W	40	33.8	112.0	CTY FAA 704013-48	
	ESV:	Bearing [True]: 148.0° to 228.0° Bearing [Mag]: 150.0° to 230.0°				Arc Distance: Out to 130.0 NM Altitude: 16000.0 to 18000.0 ft		
23	RSW FAA 191354-62 RSW [IFPA]	N26° 31' 47.59", W081° 46' 32.77"	2.0 W	130	24.8	114.15	RSW FAA 191354-62	
	ESV:	Bearing [True]: 305.0° to 325.0° Bearing [Mag]: 307.0° to 327.0°				Arc Distance: Out to 105.0 NM Altitude: 8000.0 to 12500.0 ft		
24	OCF FAA 714002-42 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-42	
	ESV:	Bearing [True]: 180.0° to 200.0° Bearing [Mag]: 180.0° to 200.0°				Arc Distance: Out to 82.0 NM Altitude: 4900.0 to 10000.0 ft		

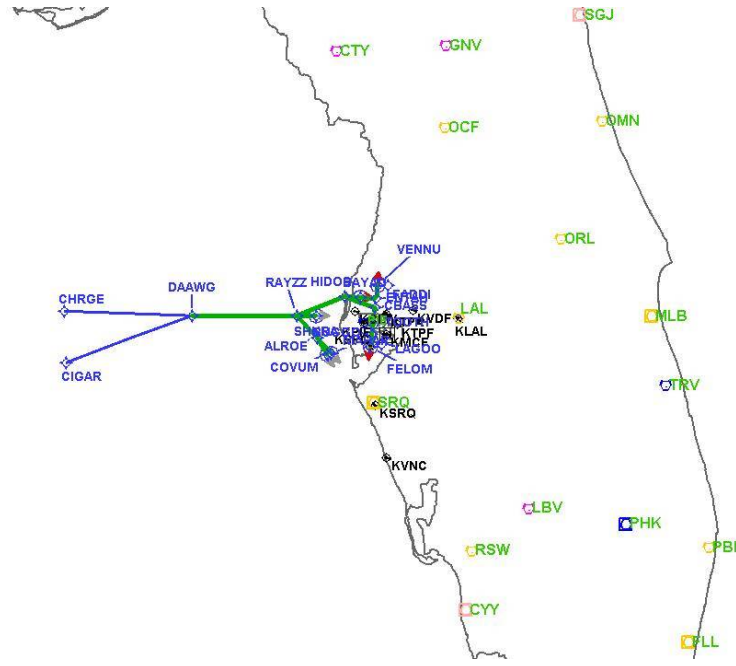
DME DME Assessment Results for RAYZZ3 path CIGAR_DAAWG

DME Error



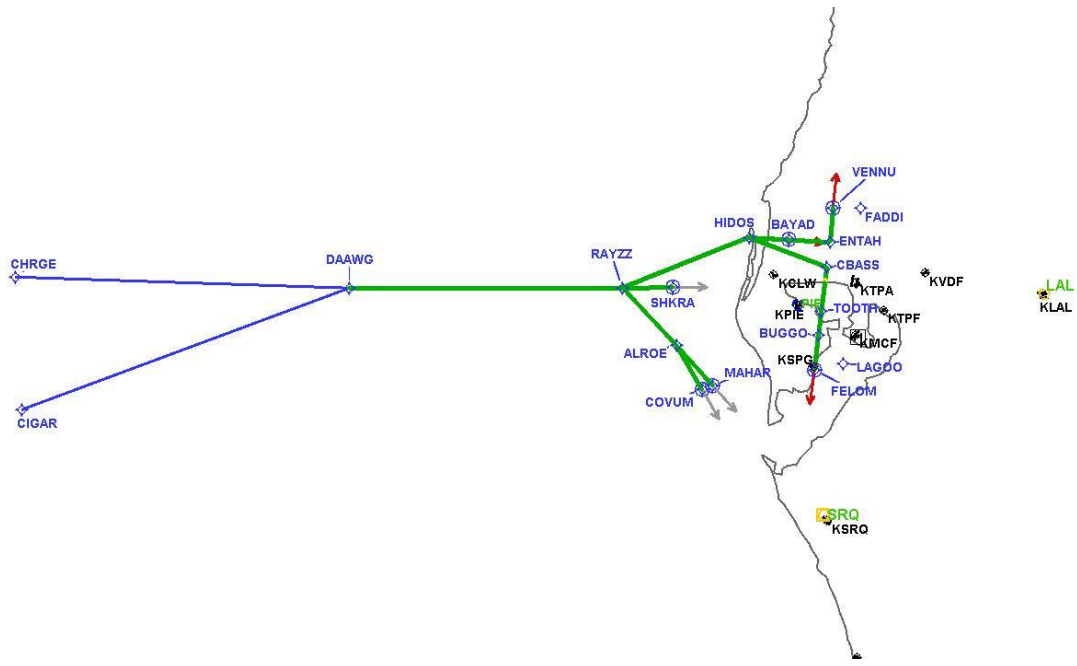
DME DME Assessment Results for RAYZZ3 path CIGAR_DAAWG

Graphic Depiction 1



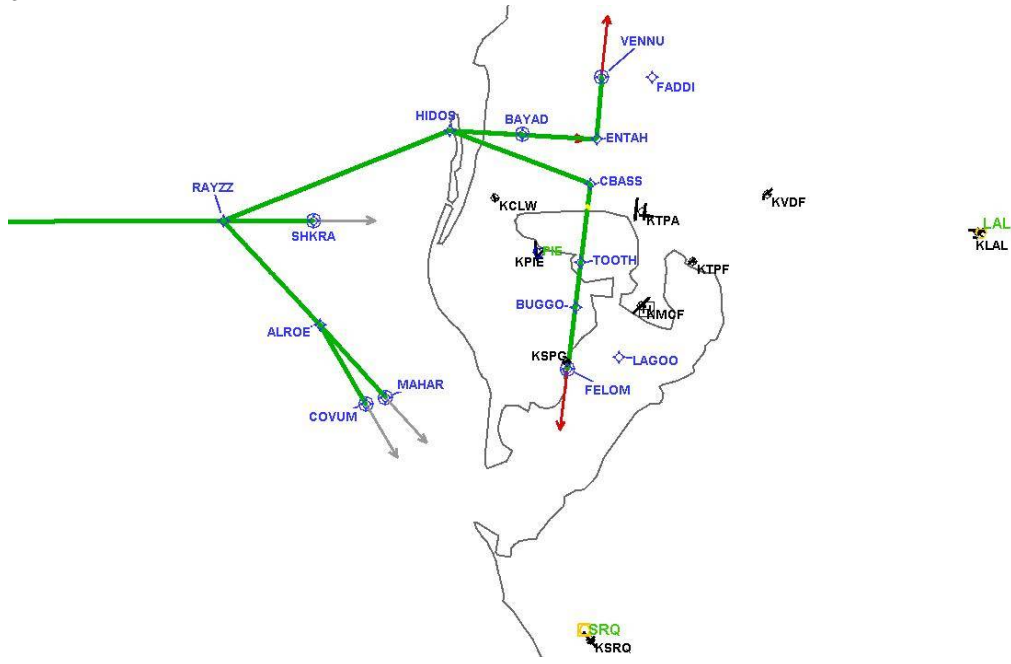
DME DME Assessment Results for RAYZZ3 path CIGAR_DAAWG

Graphic Depiction 2



DME DME Assessment Results for RAYZZ3 path CIGAR_DAAWG

Graphic Depiction 3



DME DME Assessment Results for RAYZZ3 path DAAWG_FELOM

Results Summary	
Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Mark CTR Thompson
Project File:	C:\Users\Mark CTR Thompson\OneDrive - Federal Aviation Administration\Desktop\RNAV Projects\RNAV Projects 2025\TPA.SRQ STARS_250417\KTPA RAYZZ3 (RNAV) STAR\DME\KTPA RAYZZ3 (RNAV) STAR DME_240905.tgs
Output File:	C:\Users\Mark CTR Thompson\OneDrive - Federal Aviation Administration\Desktop\RNAV Projects\RNAV Projects 2025\TPA.SRQ STARS_250417\KTPA RAYZZ3 (RNAV) STAR\DME\KTPA [IFPA] RAYZZ3 20240905_0849 EDT\DAAWG_FELOM\KTPA RAYZZ3 RNAV STAR DAAWG FELOM 20240905_0849 EDT.pdf
Procedure Name:	RAYZZ3
Software: DmeDmePlugin:	7.3.3
Date/Time:	09/05/2024 08:49 EDT
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
DAAWG	WP	N27° 51' 15.40", W083° 54' 55.52"	18000	VNAV	240	FLY_BY	TF
RAYZZ	WP	N27° 54' 49.67", W083° 10' 07.19"	10000	VNAV	240	FLY_BY	TF
HIDOS	WP	N28° 03' 42.59", W082° 50' 07.14"	8000	VNAV	210	FLY_BY	TF
CBASS	WP	N28° 00' 25.50", W082° 36' 53.27"	6000	VNAV	210	FLY_BY	TF
TOOTH	WP	N27° 54' 00.48", W082° 37' 08.70"	3000	VNAV	210	FLY_BY	TF
BUGGO	WP	N27° 50' 24.04", W082° 37' 17.20"	3000	VNAV	210	FLY_BY	TF
FELOM	WP	N27° 45' 23.21", W082° 37' 29.01"	3000	VNAV	210	FLY_OVER	TF

Flyability	
Flight Type:	RNAV_STAR
Selected Airport:	KTPA [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 RAYZZ3 path DAAWG_FELOM

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:	Allowed
DoD Facilities:	Not included
Foreign Facilities:	Not included
High DMEs:	Included
Low DMEs:	Included
Terminal DMEs:	Included
Flight Check DMEs:	Not selected
Higher Altitudes:	Not Evaluated
Near Maximum Altitude:	Not Evaluated
Automatic ESVs:	Not enabled
Disabled DMEs:	None

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	LAL	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	H	IFPA	NO	Enabled		
2	SRQ	N27° 24' 25.26", W082° 33' 49.18"	5.0 W	130	DH	IFPA	NO	Enabled		
3	PIE	N27° 54' 27.95", W082° 41' 03.51"	5.0 W	130	H	IFPA	NO	Enabled		
4	CTY	N29° 35' 56.40", W083° 02' 55.65"	2.0 W	40	L	IFPA	NO	Enabled		
5	OCF	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	L	IFPA	NO	Enabled		
6	ORL	N28° 32' 33.80", W081° 20' 06.05"	0.0 E	130	H	IFPA	NO	Enabled		

DME DME Assessment Results for RAYZZ3 path DAAWG_FELOM

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	CTY [IFPA]	SRQ [IFPA]	PIE [IFPA]	OCF [IFPA]	ORL [IFPA]	
0.1	CTY [IFPA]	SRQ [IFPA]	PIE [IFPA]	OCF [IFPA]		
1.3	CTY [IFPA]	SRQ [IFPA]	PIE [IFPA]	OCF [IFPA]	LAL [IFPA]	
7.0	CTY [IFPA]	SRQ [IFPA]	OCF [IFPA]	LAL [IFPA]		
7.1	OCF [IFPA]	SRQ [IFPA]	LAL [IFPA]			
22.9	OCF [IFPA]	SRQ [IFPA]	CTY [IFPA]	LAL [IFPA]		
25.9	OCF [IFPA]	SRQ [IFPA]	CTY [IFPA]	PIE [IFPA]	LAL [IFPA]	
31.1	OCF [IFPA]	SRQ [IFPA]	PIE [IFPA]	LAL [IFPA]		
40.9	OCF [IFPA]	SRQ [IFPA]	PIE [IFPA]			
44.4	OCF [IFPA]	SRQ [IFPA]	PIE [IFPA]	ORL [IFPA]		
57.2	OCF [IFPA]	PIE [IFPA]	ORL [IFPA]	SRQ [IFPA]	LAL [IFPA]	
62.7	ORL [IFPA]	SRQ [IFPA]	PIE [IFPA]	OCF [IFPA]		
63.5	LAL [IFPA]	SRQ [IFPA]	ORL [IFPA]	OCF [IFPA]	PIE [IFPA]	
68.7	SRQ [IFPA]	LAL [IFPA]	OCF [IFPA]	ORL [IFPA]		
71.1	SRQ [IFPA]	LAL [IFPA]	OCF [IFPA]	PIE [IFPA]	ORL [IFPA]	
72.9	SRQ [IFPA]	LAL [IFPA]	OCF [IFPA]	PIE [IFPA]		
73.2	SRQ [IFPA]	LAL [IFPA]	OCF [IFPA]			
73.6	SRQ [IFPA]	LAL [IFPA]	PIE [IFPA]			
74.0	SRQ [IFPA]	LAL [IFPA]				
80.8	SRQ [IFPA]	LAL [IFPA]	PIE [IFPA]			

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

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
DAAWG	RAYZZ	LAL [IFPA], SRQ [IFPA], PIE [IFPA], CTY [IFPA], OCF [IFPA], ORL [IFPA]	
RAYZZ	HIDOS	LAL [IFPA], SRQ [IFPA], PIE [IFPA], OCF [IFPA], ORL [IFPA]	
HIDOS	CBASS	LAL [IFPA], SRQ [IFPA], PIE [IFPA], OCF [IFPA], ORL [IFPA]	
CBASS	TOOTH	LAL [IFPA], SRQ [IFPA], PIE [IFPA], OCF [IFPA], ORL [IFPA]	
TOOTH	BUGGO	LAL [IFPA], SRQ [IFPA], PIE [IFPA]	
BUGGO	FELOM	LAL [IFPA], SRQ [IFPA], PIE [IFPA]	

User Data Files

#	File Name
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None

DME DME Assessment Results for RAYZZ3 path DAAWG_FELOM

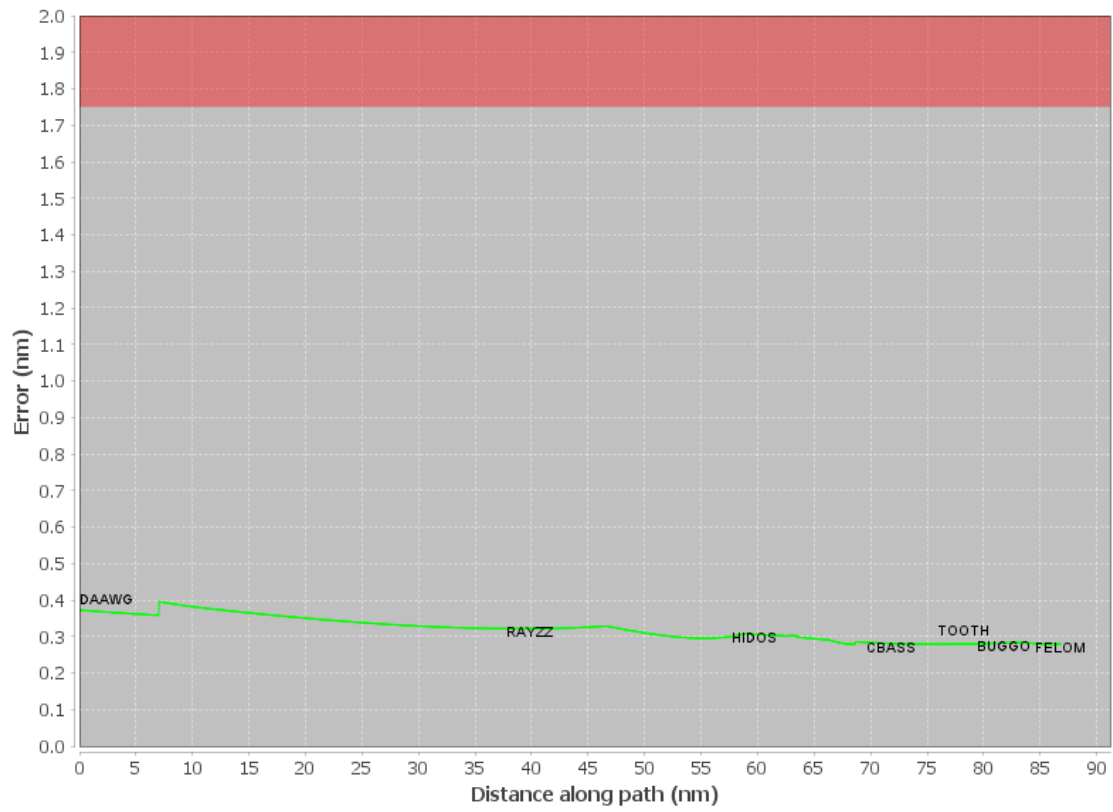
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	LAL FAA 704224-69 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-69	
	ESV:	Bearing [True]: 240.0° to 260.0° Bearing [Mag]: 239.0° to 259.0°			Arc Distance: Out to 75.0 NM Altitude: 6000.0 to 14700.0 ft			
2	OCF FAA 714002-37 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-37	
	ESV:	Bearing [True]: 190.0° to 220.0° Bearing [Mag]: 190.0° to 220.0°			Arc Distance: Out to 77.0 NM Altitude: 5200.0 to 6100.0 ft			
3	OCF FAA 714002-25 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-25	
	ESV:	Bearing [True]: 190.0° to 235.0° Bearing [Mag]: 190.0° to 235.0°			Arc Distance: Out to 130.0 NM Altitude: 10000.0 to 20000.0 ft			
4	ORL FAA 694096-76 ORL [IFPA]	N28° 32' 33.80", W081° 20' 06.05"	0.0 E	130	101.6	112.2	ORL FAA 694096-76	
	ESV:	Bearing [True]: 200.0° to 271.0° Bearing [Mag]: 200.0° to 271.0°			Arc Distance: Out to 86.0 NM Altitude: 5500.0 to 14700.0 ft			
5	CTY FAA 704013-51 CTY [IFPA]	N29° 35' 56.40", W083° 02' 55.65"	2.0 W	40	33.8	112.0	CTY FAA 704013-51	
	ESV:	Bearing [True]: 167.0° to 215.0° Bearing [Mag]: 169.0° to 217.0°			Arc Distance: Out to 130.0 NM Altitude: 15000.0 to 18000.0 ft			
6	OCF FAA 714002-10 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-10	
	ESV:	Bearing [True]: 210.0° to 235.0° Bearing [Mag]: 210.0° to 235.0°			Arc Distance: Out to 138.0 NM Altitude: 14000.0 to 18000.0 ft			
7	ORL FAA 694096-35 ORL [IFPA]	N28° 32' 33.80", W081° 20' 06.05"	0.0 E	130	101.6	112.2	ORL FAA 694096-35	
	ESV:	Bearing [True]: 225.0° to 275.0° Bearing [Mag]: 225.0° to 275.0°			Arc Distance: Out to 100.0 NM Altitude: 7000.0 to 14700.0 ft			
8	ORL FAA 694096-38 ORL [IFPA]	N28° 32' 33.80", W081° 20' 06.05"	0.0 E	130	101.6	112.2	ORL FAA 694096-38	
	ESV:	Bearing [True]: 242.0° to 256.0° Bearing [Mag]: 242.0° to 256.0°			Arc Distance: Out to 165.0 NM Altitude: 18000.0 to 35000.0 ft			
9	OCF FAA 714002-46 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-46	
	ESV:	Bearing [True]: 190.0° to 225.0° Bearing [Mag]: 190.0° to 225.0°			Arc Distance: Out to 72.0 NM Altitude: 3600.0 to 10000.0 ft			
10	OCF FAA 714002-26 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-26	
	ESV:	Bearing [True]: 190.0° to 210.0° Bearing [Mag]: 190.0° to 210.0°			Arc Distance: Out to 105.0 NM Altitude: 6000.0 to 18000.0 ft			
11	CTY FAA 704013-34 CTY [IFPA]	N29° 35' 56.40", W083° 02' 55.65"	2.0 W	40	33.8	112.0	CTY FAA 704013-34	
	ESV:	Bearing [True]: 188.0° to 197.0° Bearing [Mag]: 190.0° to 199.0°			Arc Distance: Out to 109.0 NM Altitude: 10000.0 to 20000.0 ft			
12	LAL FAA 704224-28 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-28	
	ESV:	Bearing [True]: 247.0° to 260.0° Bearing [Mag]: 246.0° to 259.0°			Arc Distance: Out to 90.0 NM Altitude: 6000.0 to 14600.0 ft			
13	OCF FAA 714002-17 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-17	
	ESV:	Bearing [True]: 205.0° to 227.0° Bearing [Mag]: 205.0° to 227.0°			Arc Distance: Out to 105.0 NM Altitude: 6000.0 to 18000.0 ft			
14	OCF FAA 714002-27 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-27	
	ESV:	Bearing [True]: 215.0° to 230.0° Bearing [Mag]: 215.0° to 230.0°			Arc Distance: Out to 145.0 NM Altitude: 13500.0 to 18100.0 ft			
15	CTY FAA 704013-39 CTY [IFPA]	N29° 35' 56.40", W083° 02' 55.65"	2.0 W	40	33.8	112.0	CTY FAA 704013-39	
	ESV:	Bearing [True]: 193.0° to 208.0° Bearing [Mag]: 195.0° to 210.0°			Arc Distance: Out to 138.0 NM Altitude: 14500.0 to 18100.0 ft			
16	LAL FAA 704224-107 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-107	
	ESV:	Bearing [True]: 230.0° to 260.0° Bearing [Mag]: 229.0° to 259.0°			Arc Distance: Out to 55.0 NM Altitude: 3000.0 to 14500.0 ft			
17	LAL FAA 704224-35 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-35	

DME DME Assessment Results for RAYZZ3 path DAAWG_FELOM

User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
	ESV:	Bearing [True]: 245.0° to 270.0° Bearing [Mag]: 244.0° to 269.0°				Arc Distance: Out to 95.0 NM Altitude: 7000.0 to 14700.0 ft		
18	LAL FAA 704224-82 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-82	
	ESV:	Bearing [True]: 251.0° to 306.0° Bearing [Mag]: 250.0° to 305.0°				Arc Distance: Out to 51.0 NM Altitude: 2900.0 to 6100.0 ft		
19	OCF FAA 714002-45 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-45	
	ESV:	Bearing [True]: 190.0° to 220.0° Bearing [Mag]: 190.0° to 220.0°				Arc Distance: Out to 75.0 NM Altitude: 4600.0 to 6100.0 ft		
20	ORL FAA 694096-74 ORL [IFPA]	N28° 32' 33.80", W081° 20' 06.05"	0.0 E	130	101.6	112.2	ORL FAA 694096-74	
	ESV:	Bearing [True]: 200.0° to 271.0° Bearing [Mag]: 200.0° to 271.0°				Arc Distance: Out to 93.0 NM Altitude: 5500.0 to 14700.0 ft		
21	LAL FAA 704224-56 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-56	
	ESV:	Bearing [True]: 270.0° to 355.0° Bearing [Mag]: 269.0° to 354.0°				Arc Distance: Out to 60.0 NM Altitude: 6000.0 to 14700.0 ft		
22	CTY FAA 704013-48 CTY [IFPA]	N29° 35' 56.40", W083° 02' 55.65"	2.0 W	40	33.8	112.0	CTY FAA 704013-48	
	ESV:	Bearing [True]: 148.0° to 228.0° Bearing [Mag]: 150.0° to 230.0°				Arc Distance: Out to 130.0 NM Altitude: 16000.0 to 18000.0 ft		
23	RSW FAA 191354-62 RSW [IFPA]	N26° 31' 47.59", W081° 46' 32.77"	2.0 W	130	24.8	114.15	RSW FAA 191354-62	
	ESV:	Bearing [True]: 305.0° to 325.0° Bearing [Mag]: 307.0° to 327.0°				Arc Distance: Out to 105.0 NM Altitude: 8000.0 to 12500.0 ft		
24	OCF FAA 714002-42 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-42	
	ESV:	Bearing [True]: 180.0° to 200.0° Bearing [Mag]: 180.0° to 200.0°				Arc Distance: Out to 82.0 NM Altitude: 4900.0 to 10000.0 ft		

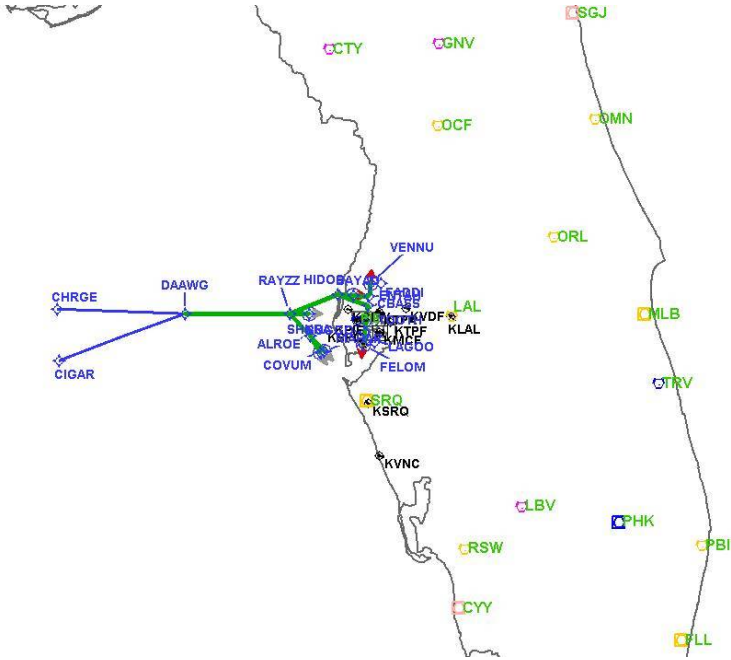
DME DME Assessment Results for RAYZZ3 path DAAWG_FELOM

DME Error



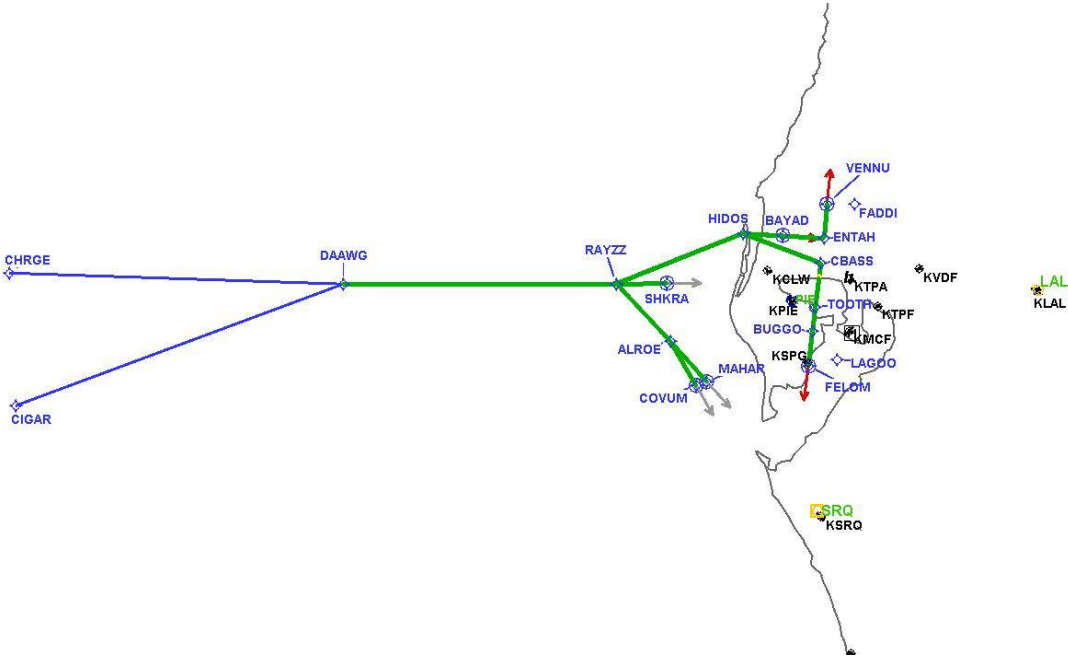
DME DME Assessment Results for RAYZZ path DAAWG_FELOM

Graphic Depiction 1



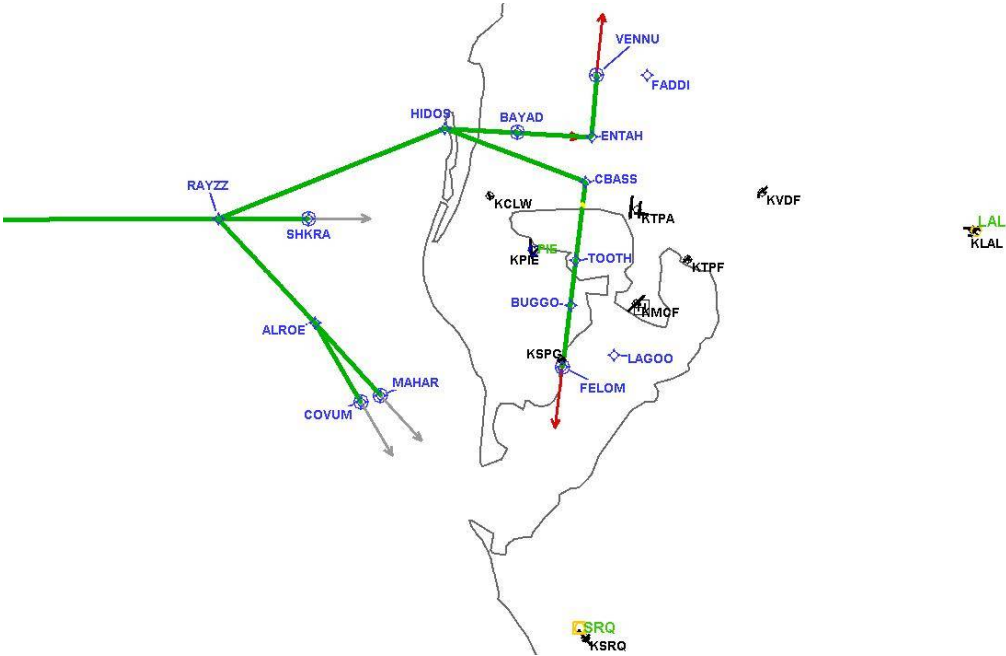
DME DME Assessment Results for RAYZZ3 path DAAWG_FELOM

Graphic Depiction 2



DME DME Assessment Results for RAYZZ3 path DAAWG_FELOM

Graphic Depiction 3



DME DME Assessment Results for RAYZZ3 path HIDOS_BAYAD

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Mark CTR Thompson
Project File:	C:\Users\Mark CTR Thompson\OneDrive - Federal Aviation Administration\Desktop\RNAV Projects\RNAV Projects 2025\TPA.SRQ STARS_250417\KTPA RAYZZ3 (RNAV) STAR\DME\KTPA RAYZZ3 (RNAV) STAR DME_240905.tgs
Output File:	C:\Users\Mark CTR Thompson\OneDrive - Federal Aviation Administration\Desktop\RNAV Projects\RNAV Projects 2025\TPA.SRQ STARS_250417\KTPA RAYZZ3 (RNAV) STAR\DME\KTPA [IFPA] RAYZZ3 20240905_0849 EDT\HIDOS_BAYAD\KTPA RAYZZ3 RNAV STAR HIDOS BAYAD 20240905_0849 EDT.pdf
Procedure Name:	RAYZZ3
Software: DmeDmePlugin:	7.3.3
Date/Time:	09/05/2024 08:49 EDT
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
HIDOS	WP	N28° 03' 42.59", W082° 50' 07.14"	8000	VNAV	210	FLY_BY	TF
BAYAD	WP	N28° 03' 54.11", W082° 43' 28.21"	6000	VNAV	240	FLY_OVER	TF

Flyability

Flight Type:	RNAV_STAR
Selected Airport:	KTPA [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 RAYZZ3 path HIDOS_BAYAD

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:	Allowed
DoD Facilities:	Not included
Foreign Facilities:	Not included
High DMEs:	Included
Low DMEs:	Included
Terminal DMEs:	Included
Flight Check DMEs:	Not selected
Higher Altitudes:	Not Evaluated
Near Maximum Altitude:	Not Evaluated
Automatic ESVs:	Not enabled
Disabled DMEs:	None

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	LAL	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	H	IFPA	NO	Enabled		
2	SRQ	N27° 24' 25.26", W082° 33' 49.18"	5.0 W	130	DH	IFPA	NO	Enabled		
3	PIE	N27° 54' 27.95", W082° 41' 03.51"	5.0 W	130	H	IFPA	NO	Enabled		
4	OCF	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	L	IFPA	NO	Enabled		
5	ORL	N28° 32' 33.80", W081° 20' 06.05"	0.0 E	130	H	IFPA	NO	Enabled		

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	ORL [IFPA]	SRQ [IFPA]	OCF [IFPA]	LAL [IFPA]	PIE [IFPA]	

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

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
HIDOS	BAYAD	LAL [IFPA], SRQ [IFPA], PIE [IFPA], OCF [IFPA], ORL [IFPA]	

User Data Files

#	File Name
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None

DME DME Assessment Results for RAYZZ3 path HIDOS_BAYAD

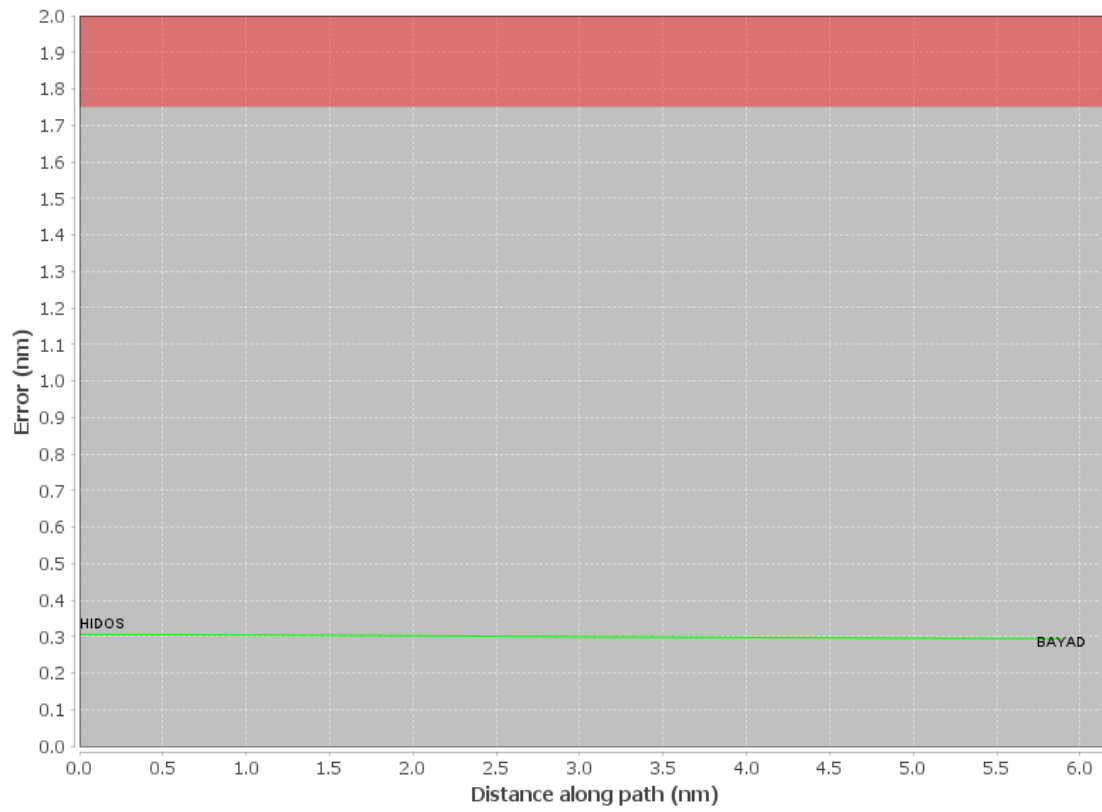
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	LAL FAA 704224-69 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-69	
	ESV:	Bearing [True]: 240.0° to 260.0° Bearing [Mag]: 239.0° to 259.0°			Arc Distance: Out to 75.0 NM Altitude: 6000.0 to 14700.0 ft			
2	OCF FAA 714002-37 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-37	
	ESV:	Bearing [True]: 190.0° to 220.0° Bearing [Mag]: 190.0° to 220.0°			Arc Distance: Out to 77.0 NM Altitude: 5200.0 to 6100.0 ft			
3	OCF FAA 714002-25 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-25	
	ESV:	Bearing [True]: 190.0° to 235.0° Bearing [Mag]: 190.0° to 235.0°			Arc Distance: Out to 130.0 NM Altitude: 10000.0 to 20000.0 ft			
4	ORL FAA 694096-76 ORL [IFPA]	N28° 32' 33.80", W081° 20' 06.05"	0.0 E	130	101.6	112.2	ORL FAA 694096-76	
	ESV:	Bearing [True]: 200.0° to 271.0° Bearing [Mag]: 200.0° to 271.0°			Arc Distance: Out to 86.0 NM Altitude: 5500.0 to 14700.0 ft			
5	CTY FAA 704013-51 CTY [IFPA]	N29° 35' 56.40", W083° 02' 55.65"	2.0 W	40	33.8	112.0	CTY FAA 704013-51	
	ESV:	Bearing [True]: 167.0° to 215.0° Bearing [Mag]: 169.0° to 217.0°			Arc Distance: Out to 130.0 NM Altitude: 15000.0 to 18000.0 ft			
6	OCF FAA 714002-10 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-10	
	ESV:	Bearing [True]: 210.0° to 235.0° Bearing [Mag]: 210.0° to 235.0°			Arc Distance: Out to 138.0 NM Altitude: 14000.0 to 18000.0 ft			
7	ORL FAA 694096-35 ORL [IFPA]	N28° 32' 33.80", W081° 20' 06.05"	0.0 E	130	101.6	112.2	ORL FAA 694096-35	
	ESV:	Bearing [True]: 225.0° to 275.0° Bearing [Mag]: 225.0° to 275.0°			Arc Distance: Out to 100.0 NM Altitude: 7000.0 to 14700.0 ft			
8	ORL FAA 694096-38 ORL [IFPA]	N28° 32' 33.80", W081° 20' 06.05"	0.0 E	130	101.6	112.2	ORL FAA 694096-38	
	ESV:	Bearing [True]: 242.0° to 256.0° Bearing [Mag]: 242.0° to 256.0°			Arc Distance: Out to 165.0 NM Altitude: 18000.0 to 35000.0 ft			
9	OCF FAA 714002-46 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-46	
	ESV:	Bearing [True]: 190.0° to 225.0° Bearing [Mag]: 190.0° to 225.0°			Arc Distance: Out to 72.0 NM Altitude: 3600.0 to 10000.0 ft			
10	OCF FAA 714002-26 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-26	
	ESV:	Bearing [True]: 190.0° to 210.0° Bearing [Mag]: 190.0° to 210.0°			Arc Distance: Out to 105.0 NM Altitude: 6000.0 to 18000.0 ft			
11	CTY FAA 704013-34 CTY [IFPA]	N29° 35' 56.40", W083° 02' 55.65"	2.0 W	40	33.8	112.0	CTY FAA 704013-34	
	ESV:	Bearing [True]: 188.0° to 197.0° Bearing [Mag]: 190.0° to 199.0°			Arc Distance: Out to 109.0 NM Altitude: 10000.0 to 20000.0 ft			
12	LAL FAA 704224-28 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-28	
	ESV:	Bearing [True]: 247.0° to 260.0° Bearing [Mag]: 246.0° to 259.0°			Arc Distance: Out to 90.0 NM Altitude: 6000.0 to 14600.0 ft			
13	OCF FAA 714002-17 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-17	
	ESV:	Bearing [True]: 205.0° to 227.0° Bearing [Mag]: 205.0° to 227.0°			Arc Distance: Out to 105.0 NM Altitude: 6000.0 to 18000.0 ft			
14	OCF FAA 714002-27 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-27	
	ESV:	Bearing [True]: 215.0° to 230.0° Bearing [Mag]: 215.0° to 230.0°			Arc Distance: Out to 145.0 NM Altitude: 13500.0 to 18100.0 ft			
15	CTY FAA 704013-39 CTY [IFPA]	N29° 35' 56.40", W083° 02' 55.65"	2.0 W	40	33.8	112.0	CTY FAA 704013-39	
	ESV:	Bearing [True]: 193.0° to 208.0° Bearing [Mag]: 195.0° to 210.0°			Arc Distance: Out to 138.0 NM Altitude: 14500.0 to 18100.0 ft			
16	LAL FAA 704224-107 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-107	
	ESV:	Bearing [True]: 230.0° to 260.0° Bearing [Mag]: 229.0° to 259.0°			Arc Distance: Out to 55.0 NM Altitude: 3000.0 to 14500.0 ft			
17	LAL FAA 704224-35 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-35	

DME DME Assessment Results for RAYZZ3 path HIDOS_BAYAD

User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
	ESV:	Bearing [True]: 245.0° to 270.0° Bearing [Mag]: 244.0° to 269.0°					Arc Distance: Out to 95.0 NM Altitude: 7000.0 to 14700.0 ft	
18	LAL FAA 704224-82 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-82	
	ESV:	Bearing [True]: 251.0° to 306.0° Bearing [Mag]: 250.0° to 305.0°					Arc Distance: Out to 51.0 NM Altitude: 2900.0 to 6100.0 ft	
19	OCF FAA 714002-45 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-45	
	ESV:	Bearing [True]: 190.0° to 220.0° Bearing [Mag]: 190.0° to 220.0°					Arc Distance: Out to 75.0 NM Altitude: 4600.0 to 6100.0 ft	
20	ORL FAA 694096-74 ORL [IFPA]	N28° 32' 33.80", W081° 20' 06.05"	0.0 E	130	101.6	112.2	ORL FAA 694096-74	
	ESV:	Bearing [True]: 200.0° to 271.0° Bearing [Mag]: 200.0° to 271.0°					Arc Distance: Out to 93.0 NM Altitude: 5500.0 to 14700.0 ft	
21	LAL FAA 704224-56 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-56	
	ESV:	Bearing [True]: 270.0° to 355.0° Bearing [Mag]: 269.0° to 354.0°					Arc Distance: Out to 60.0 NM Altitude: 6000.0 to 14700.0 ft	
22	CTY FAA 704013-48 CTY [IFPA]	N29° 35' 56.40", W083° 02' 55.65"	2.0 W	40	33.8	112.0	CTY FAA 704013-48	
	ESV:	Bearing [True]: 148.0° to 228.0° Bearing [Mag]: 150.0° to 230.0°					Arc Distance: Out to 130.0 NM Altitude: 16000.0 to 18000.0 ft	
23	RSW FAA 191354-62 RSW [IFPA]	N26° 31' 47.59", W081° 46' 32.77"	2.0 W	130	24.8	114.15	RSW FAA 191354-62	
	ESV:	Bearing [True]: 305.0° to 325.0° Bearing [Mag]: 307.0° to 327.0°					Arc Distance: Out to 105.0 NM Altitude: 8000.0 to 12500.0 ft	
24	OCF FAA 714002-42 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-42	
	ESV:	Bearing [True]: 180.0° to 200.0° Bearing [Mag]: 180.0° to 200.0°					Arc Distance: Out to 82.0 NM Altitude: 4900.0 to 10000.0 ft	

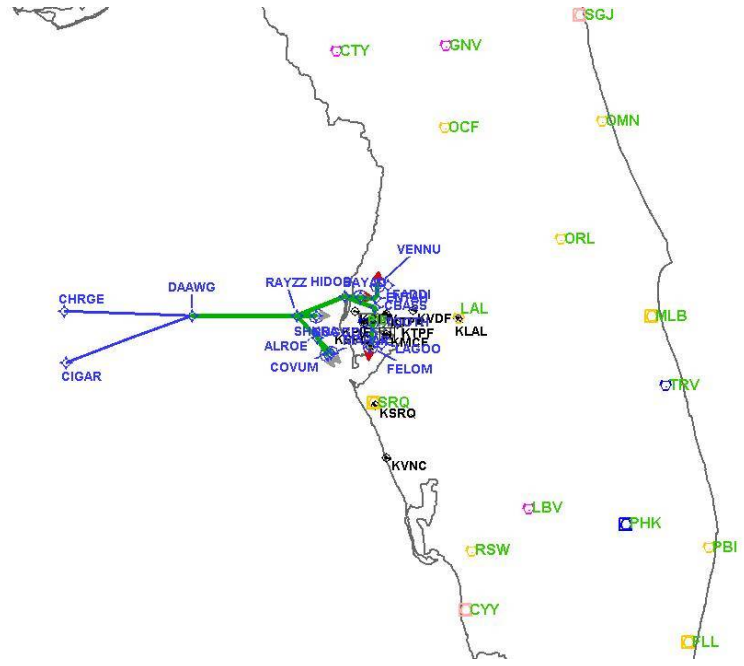
DME DME Assessment Results for RAYZZ3 path HIDOS_BAYAD

DME Error



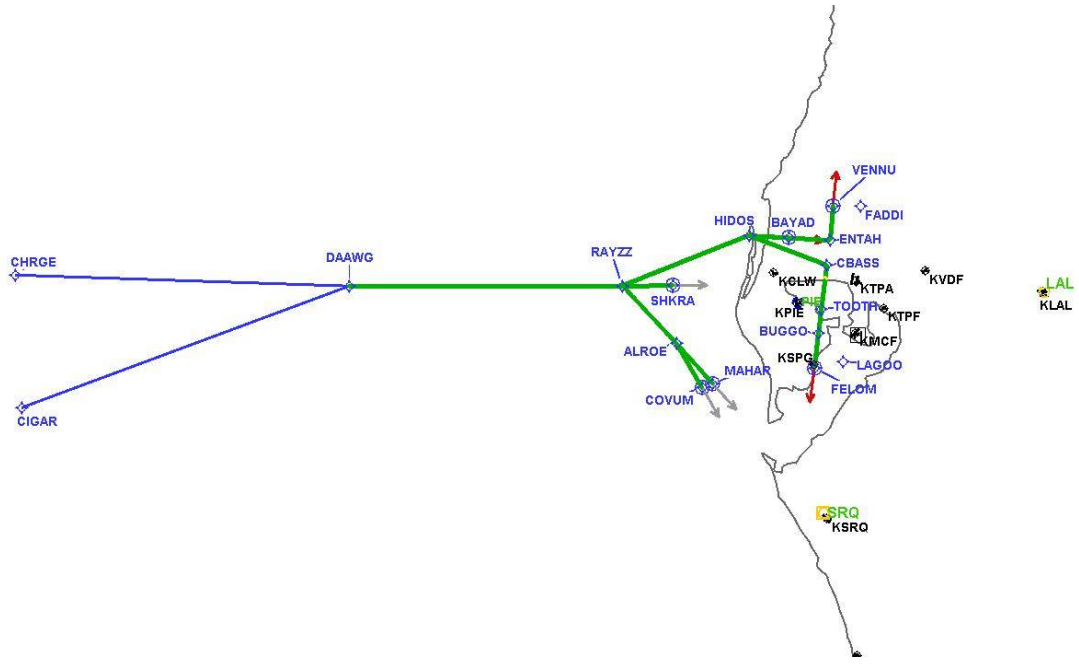
DME DME Assessment Results for RAYZZ path HIDOS_BAYAD

Graphic Depiction 1



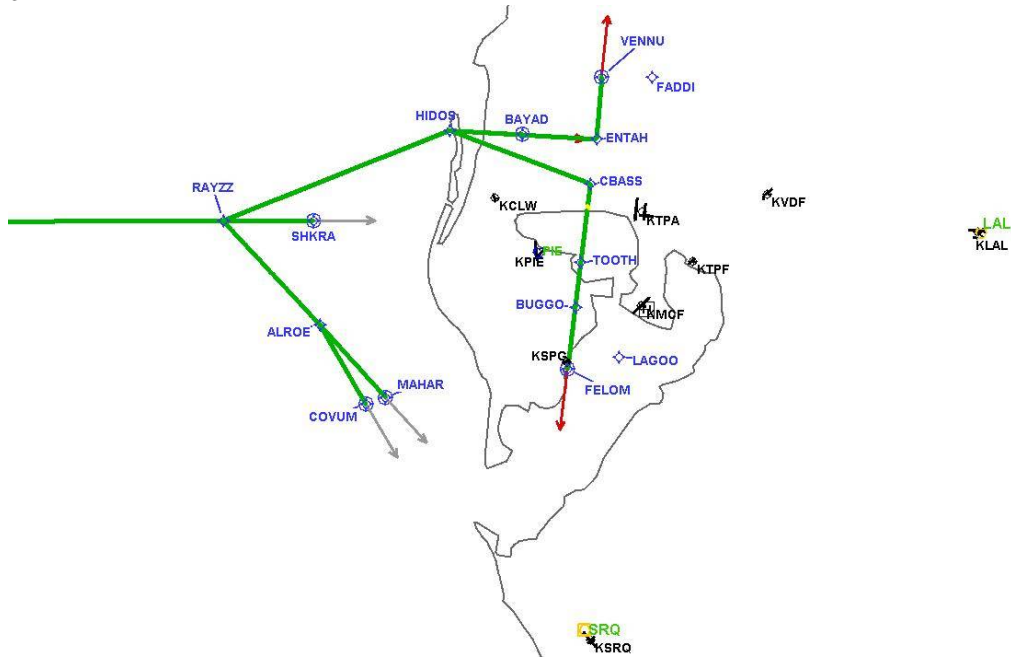
DME DME Assessment Results for RAYZZ3 path HIDOS_BAYAD

Graphic Depiction 2



DME DME Assessment Results for RAYZZ3 path HIDOS_BAYAD

Graphic Depiction 3



DME DME Assessment Results for RAYZZ3 path HIDOS_VENNU

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Mark CTR Thompson
Project File:	C:\Users\Mark CTR Thompson\OneDrive - Federal Aviation Administration\Desktop\RNAV Projects\RNAV Projects 2025\TPA.SRQ STARS_250417\KTPA RAYZZ3 (RNAV) STAR\DME\KTPA RAYZZ3 (RNAV) STAR DME_240905.tgs
Output File:	C:\Users\Mark CTR Thompson\OneDrive - Federal Aviation Administration\Desktop\RNAV Projects\RNAV Projects 2025\TPA.SRQ STARS_250417\KTPA RAYZZ3 (RNAV) STAR\DME\KTPA [IFPA] RAYZZ3 20240905_0849 EDT\HIDOS_VENNU\KTPA RAYZZ3 RNAV STAR HIDOS VENNU 20240905_0849 EDT.pdf
Procedure Name:	RAYZZ3
Software: DmeDmePlugin:	7.3.3
Date/Time:	09/05/2024 08:49 EDT
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
HIDOS	WP	N28° 03' 42.59", W082° 50' 07.14"	8000	VNAV	210	FLY_BY	TF
ENTAH	WP	N28° 04' 03.27", W082° 36' 41.64"	6000	VNAV	210	FLY_BY	TF
VENNU	WP	N28° 09' 04.08", W082° 36' 41.64"	3000	VNAV	210	FLY_OVER	TF

Flyability

Flight Type:	RNAV_STAR
Selected Airport:	KTPA [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 RAYZZ3 path HIDOS_VENNU

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:	Allowed
DoD Facilities:	Not included
Foreign Facilities:	Not included
High DMEs:	Included
Low DMEs:	Included
Terminal DMEs:	Included
Flight Check DMEs:	Not selected
Higher Altitudes:	Not Evaluated
Near Maximum Altitude:	Not Evaluated
Automatic ESVs:	Not enabled
Disabled DMEs:	None

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	LAL	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	H	IFPA	NO	Enabled		
2	SRQ	N27° 24' 25.26", W082° 33' 49.18"	5.0 W	130	DH	IFPA	NO	Enabled		
3	PIE	N27° 54' 27.95", W082° 41' 03.51"	5.0 W	130	H	IFPA	NO	Enabled		
4	OCF	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	L	IFPA	NO	Enabled		
5	ORL	N28° 32' 33.80", W081° 20' 06.05"	0.0 E	130	H	IFPA	NO	Enabled		

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	ORL [IFPA]	SRQ [IFPA]	OCF [IFPA]	LAL [IFPA]	PIE [IFPA]	
12.9	OCF [IFPA]	LAL [IFPA]	PIE [IFPA]	SRQ [IFPA]		
16.7	PIE [IFPA]	LAL [IFPA]	SRQ [IFPA]			

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

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
HIDOS	ENTAH	LAL [IFPA], SRQ [IFPA], PIE [IFPA], OCF [IFPA], ORL [IFPA]	
ENTAH	VENNU	LAL [IFPA], SRQ [IFPA], PIE [IFPA], OCF [IFPA], ORL [IFPA]	

User Data Files

#	File Name
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None

DME DME Assessment Results for RAYZZ3 path HIDOS_VENNU

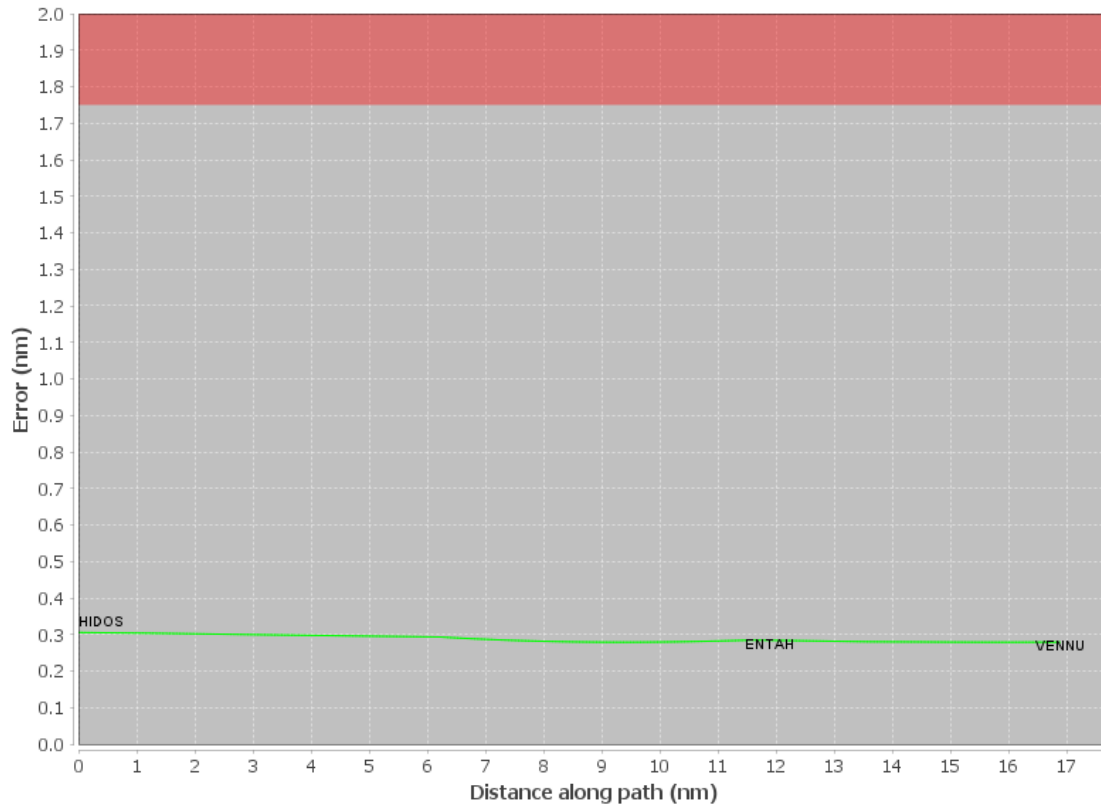
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	LAL FAA 704224-69 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-69	
	ESV:	Bearing [True]: 240.0° to 260.0° Bearing [Mag]: 239.0° to 259.0°			Arc Distance: Out to 75.0 NM Altitude: 6000.0 to 14700.0 ft			
2	OCF FAA 714002-37 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-37	
	ESV:	Bearing [True]: 190.0° to 220.0° Bearing [Mag]: 190.0° to 220.0°			Arc Distance: Out to 77.0 NM Altitude: 5200.0 to 6100.0 ft			
3	OCF FAA 714002-25 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-25	
	ESV:	Bearing [True]: 190.0° to 235.0° Bearing [Mag]: 190.0° to 235.0°			Arc Distance: Out to 130.0 NM Altitude: 10000.0 to 20000.0 ft			
4	ORL FAA 694096-76 ORL [IFPA]	N28° 32' 33.80", W081° 20' 06.05"	0.0 E	130	101.6	112.2	ORL FAA 694096-76	
	ESV:	Bearing [True]: 200.0° to 271.0° Bearing [Mag]: 200.0° to 271.0°			Arc Distance: Out to 86.0 NM Altitude: 5500.0 to 14700.0 ft			
5	CTY FAA 704013-51 CTY [IFPA]	N29° 35' 56.40", W083° 02' 55.65"	2.0 W	40	33.8	112.0	CTY FAA 704013-51	
	ESV:	Bearing [True]: 167.0° to 215.0° Bearing [Mag]: 169.0° to 217.0°			Arc Distance: Out to 130.0 NM Altitude: 15000.0 to 18000.0 ft			
6	OCF FAA 714002-10 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-10	
	ESV:	Bearing [True]: 210.0° to 235.0° Bearing [Mag]: 210.0° to 235.0°			Arc Distance: Out to 138.0 NM Altitude: 14000.0 to 18000.0 ft			
7	ORL FAA 694096-35 ORL [IFPA]	N28° 32' 33.80", W081° 20' 06.05"	0.0 E	130	101.6	112.2	ORL FAA 694096-35	
	ESV:	Bearing [True]: 225.0° to 275.0° Bearing [Mag]: 225.0° to 275.0°			Arc Distance: Out to 100.0 NM Altitude: 7000.0 to 14700.0 ft			
8	ORL FAA 694096-38 ORL [IFPA]	N28° 32' 33.80", W081° 20' 06.05"	0.0 E	130	101.6	112.2	ORL FAA 694096-38	
	ESV:	Bearing [True]: 242.0° to 256.0° Bearing [Mag]: 242.0° to 256.0°			Arc Distance: Out to 165.0 NM Altitude: 18000.0 to 35000.0 ft			
9	OCF FAA 714002-46 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-46	
	ESV:	Bearing [True]: 190.0° to 225.0° Bearing [Mag]: 190.0° to 225.0°			Arc Distance: Out to 72.0 NM Altitude: 3600.0 to 10000.0 ft			
10	OCF FAA 714002-26 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-26	
	ESV:	Bearing [True]: 190.0° to 210.0° Bearing [Mag]: 190.0° to 210.0°			Arc Distance: Out to 105.0 NM Altitude: 6000.0 to 18000.0 ft			
11	CTY FAA 704013-34 CTY [IFPA]	N29° 35' 56.40", W083° 02' 55.65"	2.0 W	40	33.8	112.0	CTY FAA 704013-34	
	ESV:	Bearing [True]: 188.0° to 197.0° Bearing [Mag]: 190.0° to 199.0°			Arc Distance: Out to 109.0 NM Altitude: 10000.0 to 20000.0 ft			
12	LAL FAA 704224-28 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-28	
	ESV:	Bearing [True]: 247.0° to 260.0° Bearing [Mag]: 246.0° to 259.0°			Arc Distance: Out to 90.0 NM Altitude: 6000.0 to 14600.0 ft			
13	OCF FAA 714002-17 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-17	
	ESV:	Bearing [True]: 205.0° to 227.0° Bearing [Mag]: 205.0° to 227.0°			Arc Distance: Out to 105.0 NM Altitude: 6000.0 to 18000.0 ft			
14	OCF FAA 714002-27 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-27	
	ESV:	Bearing [True]: 215.0° to 230.0° Bearing [Mag]: 215.0° to 230.0°			Arc Distance: Out to 145.0 NM Altitude: 13500.0 to 18100.0 ft			
15	CTY FAA 704013-39 CTY [IFPA]	N29° 35' 56.40", W083° 02' 55.65"	2.0 W	40	33.8	112.0	CTY FAA 704013-39	
	ESV:	Bearing [True]: 193.0° to 208.0° Bearing [Mag]: 195.0° to 210.0°			Arc Distance: Out to 138.0 NM Altitude: 14500.0 to 18100.0 ft			
16	LAL FAA 704224-107 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-107	
	ESV:	Bearing [True]: 230.0° to 260.0° Bearing [Mag]: 229.0° to 259.0°			Arc Distance: Out to 55.0 NM Altitude: 3000.0 to 14500.0 ft			
17	LAL FAA 704224-35 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-35	

DME DME Assessment Results for RAYZZ3 path HIDOS_VENNU

User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
	ESV:	Bearing [True]: 245.0° to 270.0° Bearing [Mag]: 244.0° to 269.0°					Arc Distance: Out to 95.0 NM Altitude: 7000.0 to 14700.0 ft	
18	LAL FAA 704224-82 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-82	
	ESV:	Bearing [True]: 251.0° to 306.0° Bearing [Mag]: 250.0° to 305.0°					Arc Distance: Out to 51.0 NM Altitude: 2900.0 to 6100.0 ft	
19	OCF FAA 714002-45 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-45	
	ESV:	Bearing [True]: 190.0° to 220.0° Bearing [Mag]: 190.0° to 220.0°					Arc Distance: Out to 75.0 NM Altitude: 4600.0 to 6100.0 ft	
20	ORL FAA 694096-74 ORL [IFPA]	N28° 32' 33.80", W081° 20' 06.05"	0.0 E	130	101.6	112.2	ORL FAA 694096-74	
	ESV:	Bearing [True]: 200.0° to 271.0° Bearing [Mag]: 200.0° to 271.0°					Arc Distance: Out to 93.0 NM Altitude: 5500.0 to 14700.0 ft	
21	LAL FAA 704224-56 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-56	
	ESV:	Bearing [True]: 270.0° to 355.0° Bearing [Mag]: 269.0° to 354.0°					Arc Distance: Out to 60.0 NM Altitude: 6000.0 to 14700.0 ft	
22	CTY FAA 704013-48 CTY [IFPA]	N29° 35' 56.40", W083° 02' 55.65"	2.0 W	40	33.8	112.0	CTY FAA 704013-48	
	ESV:	Bearing [True]: 148.0° to 228.0° Bearing [Mag]: 150.0° to 230.0°					Arc Distance: Out to 130.0 NM Altitude: 16000.0 to 18000.0 ft	
23	RSW FAA 191354-62 RSW [IFPA]	N26° 31' 47.59", W081° 46' 32.77"	2.0 W	130	24.8	114.15	RSW FAA 191354-62	
	ESV:	Bearing [True]: 305.0° to 325.0° Bearing [Mag]: 307.0° to 327.0°					Arc Distance: Out to 105.0 NM Altitude: 8000.0 to 12500.0 ft	
24	OCF FAA 714002-42 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-42	
	ESV:	Bearing [True]: 180.0° to 200.0° Bearing [Mag]: 180.0° to 200.0°					Arc Distance: Out to 82.0 NM Altitude: 4900.0 to 10000.0 ft	

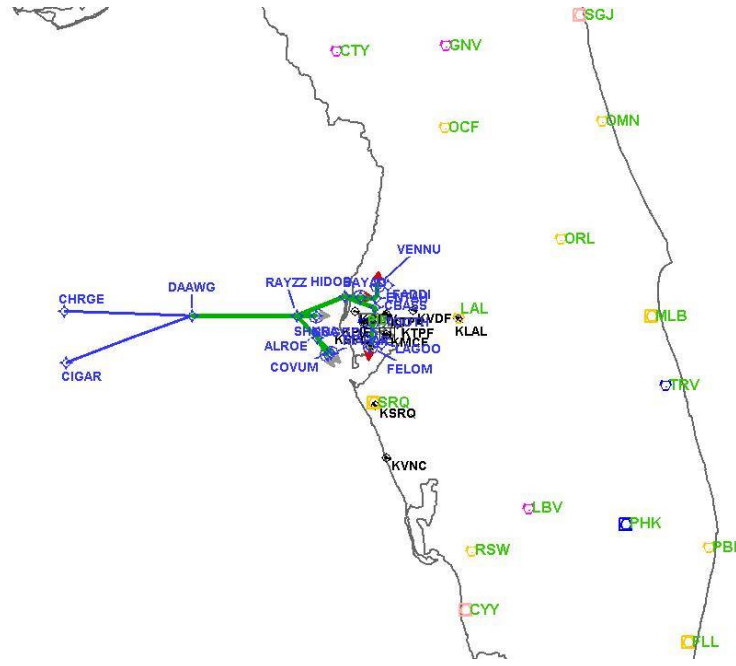
DME DME Assessment Results for RAYZZ3 path HIDOS_VENNU

DME Error



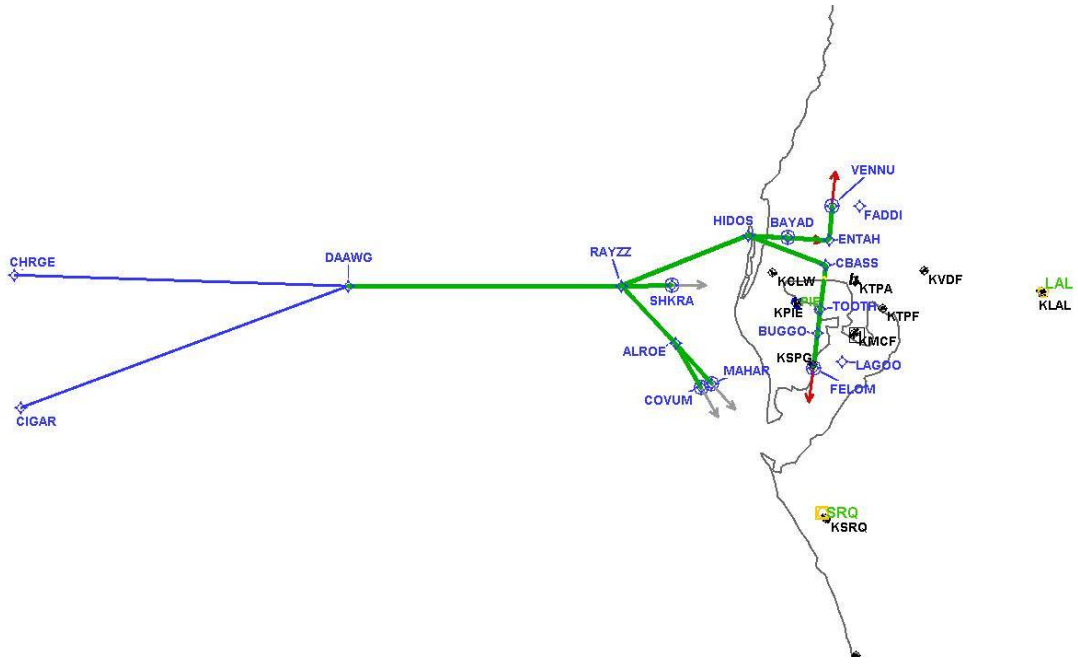
DME DME Assessment Results for RAYZZ path HIDOS_VENNU

Graphic Depiction 1



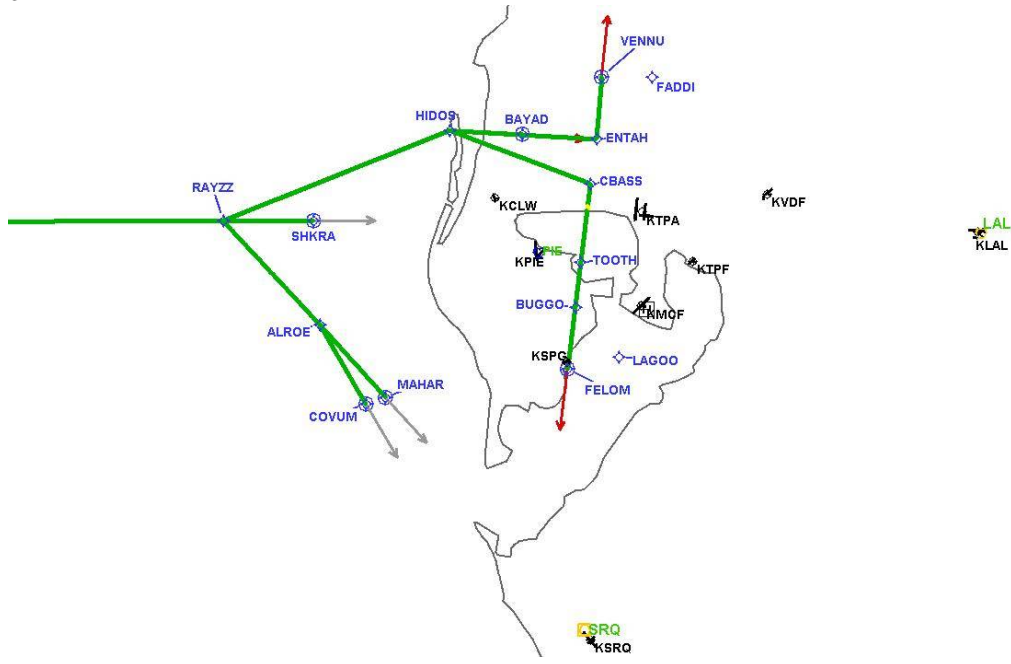
DME DME Assessment Results for RAYZZ3 path HIDOS_VENNU

Graphic Depiction 2



DME DME Assessment Results for RAYZZ3 path HIDOS_VENNU

Graphic Depiction 3



DME DME Assessment Results for RAYZZ3 path RAYZZ_COVUM

Results Summary	
Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Mark CTR Thompson
Project File:	C:\Users\Mark CTR Thompson\OneDrive - Federal Aviation Administration\Desktop\RNAV Projects\RNAV Projects 2025\TPA.SRQ STARS_250417\KTPA RAYZZ3 (RNAV) STAR\DME\KTPA RAYZZ3 (RNAV) STAR DME_240905.tgs
Output File:	C:\Users\Mark CTR Thompson\OneDrive - Federal Aviation Administration\Desktop\RNAV Projects\RNAV Projects 2025\TPA.SRQ STARS_250417\KTPA RAYZZ3 (RNAV) STAR\DME\KTPA [IFPA] RAYZZ3 20240905_0849 EDT\RAYZZ_COVUM\KTPA RAYZZ3 RNAV STAR RAYZZ COVUM 20240905_0849 EDT.pdf
Procedure Name:	RAYZZ3
Software: DmeDmePlugin:	7.3.3
Date/Time:	09/05/2024 08:49 EDT
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
RAYZZ	WP	N27° 54' 49.67", W083° 10' 07.19"	10000	VNAV	240	FLY_BY	TF
ALROE	WP	N27° 47' 11.09", W083° 00' 29.00"	8000	VNAV	240	FLY_BY	TF
COVUM	WP	N27° 41' 05.04", W082° 55' 37.25"	6000	VNAV	240	FLY_OVER	TF

Flyability	
Flight Type:	RNAV_STAR
Selected Airport:	KTPA [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 RAYZZ3 path RAYZZ_COVUM

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:	Allowed
DoD Facilities:	Not included
Foreign Facilities:	Not included
High DMEs:	Included
Low DMEs:	Included
Terminal DMEs:	Included
Flight Check DMEs:	Not selected
Higher Altitudes:	Not Evaluated
Near Maximum Altitude:	Not Evaluated
Automatic ESVs:	Not enabled
Disabled DMEs:	None

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	LAL	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	H	IFPA	NO	Enabled		
2	SRQ	N27° 24' 25.26", W082° 33' 49.18"	5.0 W	130	DH	IFPA	NO	Enabled		
3	PIE	N27° 54' 27.95", W082° 41' 03.51"	5.0 W	130	H	IFPA	NO	Enabled		
4	OCF	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	L	IFPA	NO	Enabled		
5	RSW	N26° 31' 47.59", W081° 46' 32.77"	2.0 W	130	H	IFPA	NO	Enabled		

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	OCF [IFPA]	SRQ [IFPA]	PIE [IFPA]	LAL [IFPA]		
7.1	OCF [IFPA]	SRQ [IFPA]	PIE [IFPA]	LAL [IFPA]	RSW [IFPA]	
11.5	SRQ [IFPA]	PIE [IFPA]	LAL [IFPA]	OCF [IFPA]		

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

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
RAYZZ	ALROE	LAL [IFPA], SRQ [IFPA], PIE [IFPA], OCF [IFPA], RSW [IFPA]	
ALROE	COVUM	LAL [IFPA], SRQ [IFPA], PIE [IFPA], OCF [IFPA], RSW [IFPA]	

User Data Files

#	File Name
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None

DME DME Assessment Results for RAYZZ3 path RAYZZ_COVUM

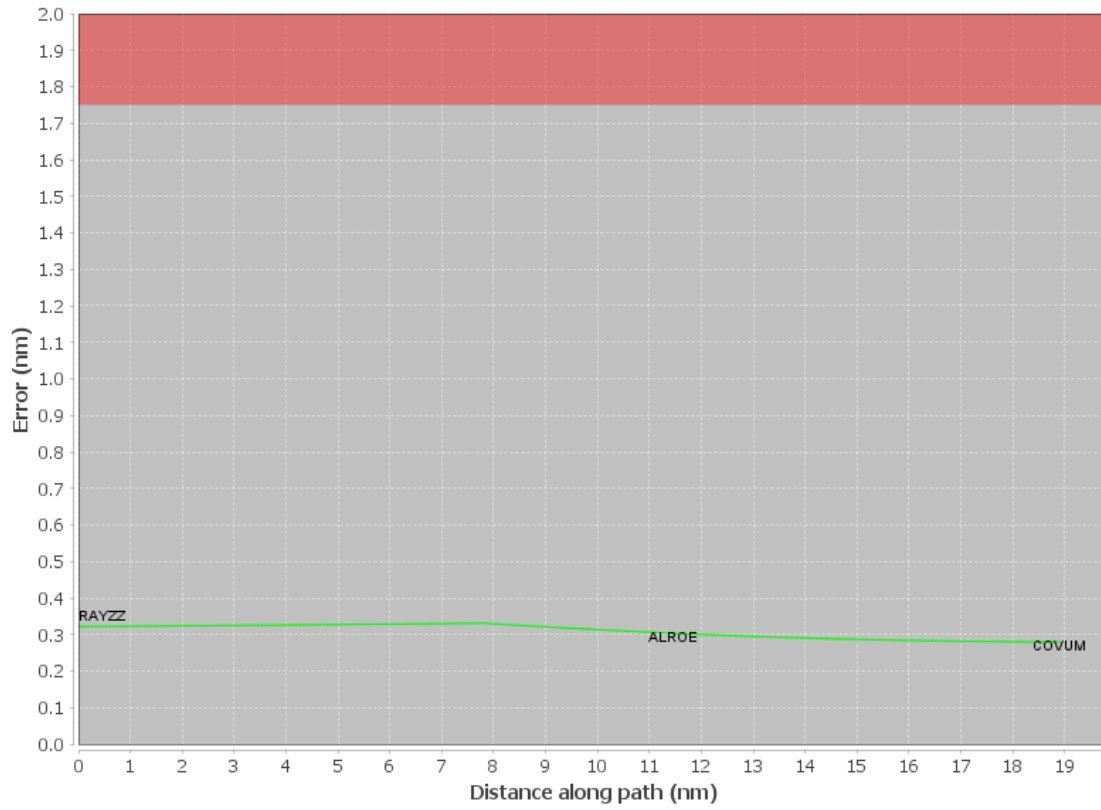
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	LAL FAA 704224-69 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-69	
	ESV:	Bearing [True]: 240.0° to 260.0° Bearing [Mag]: 239.0° to 259.0°				Arc Distance: Out to 75.0 NM Altitude: 6000.0 to 14700.0 ft		
2	OCF FAA 714002-37 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-37	
	ESV:	Bearing [True]: 190.0° to 220.0° Bearing [Mag]: 190.0° to 220.0°				Arc Distance: Out to 77.0 NM Altitude: 5200.0 to 6100.0 ft		
3	OCF FAA 714002-25 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-25	
	ESV:	Bearing [True]: 190.0° to 235.0° Bearing [Mag]: 190.0° to 235.0°				Arc Distance: Out to 130.0 NM Altitude: 10000.0 to 20000.0 ft		
4	ORL FAA 694096-76 ORL [IFPA]	N28° 32' 33.80", W081° 20' 06.05"	0.0 E	130	101.6	112.2	ORL FAA 694096-76	
	ESV:	Bearing [True]: 200.0° to 271.0° Bearing [Mag]: 200.0° to 271.0°				Arc Distance: Out to 86.0 NM Altitude: 5500.0 to 14700.0 ft		
5	CTY FAA 704013-51 CTY [IFPA]	N29° 35' 56.40", W083° 02' 55.65"	2.0 W	40	33.8	112.0	CTY FAA 704013-51	
	ESV:	Bearing [True]: 167.0° to 215.0° Bearing [Mag]: 169.0° to 217.0°				Arc Distance: Out to 130.0 NM Altitude: 15000.0 to 18000.0 ft		
6	OCF FAA 714002-10 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-10	
	ESV:	Bearing [True]: 210.0° to 235.0° Bearing [Mag]: 210.0° to 235.0°				Arc Distance: Out to 138.0 NM Altitude: 14000.0 to 18000.0 ft		
7	ORL FAA 694096-35 ORL [IFPA]	N28° 32' 33.80", W081° 20' 06.05"	0.0 E	130	101.6	112.2	ORL FAA 694096-35	
	ESV:	Bearing [True]: 225.0° to 275.0° Bearing [Mag]: 225.0° to 275.0°				Arc Distance: Out to 100.0 NM Altitude: 7000.0 to 14700.0 ft		
8	ORL FAA 694096-38 ORL [IFPA]	N28° 32' 33.80", W081° 20' 06.05"	0.0 E	130	101.6	112.2	ORL FAA 694096-38	
	ESV:	Bearing [True]: 242.0° to 256.0° Bearing [Mag]: 242.0° to 256.0°				Arc Distance: Out to 165.0 NM Altitude: 18000.0 to 35000.0 ft		
9	OCF FAA 714002-46 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-46	
	ESV:	Bearing [True]: 190.0° to 225.0° Bearing [Mag]: 190.0° to 225.0°				Arc Distance: Out to 72.0 NM Altitude: 3600.0 to 10000.0 ft		
10	OCF FAA 714002-26 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-26	
	ESV:	Bearing [True]: 190.0° to 210.0° Bearing [Mag]: 190.0° to 210.0°				Arc Distance: Out to 105.0 NM Altitude: 6000.0 to 18000.0 ft		
11	CTY FAA 704013-34 CTY [IFPA]	N29° 35' 56.40", W083° 02' 55.65"	2.0 W	40	33.8	112.0	CTY FAA 704013-34	
	ESV:	Bearing [True]: 188.0° to 197.0° Bearing [Mag]: 190.0° to 199.0°				Arc Distance: Out to 109.0 NM Altitude: 10000.0 to 20000.0 ft		
12	LAL FAA 704224-28 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-28	
	ESV:	Bearing [True]: 247.0° to 260.0° Bearing [Mag]: 246.0° to 259.0°				Arc Distance: Out to 90.0 NM Altitude: 6000.0 to 14600.0 ft		
13	OCF FAA 714002-17 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-17	
	ESV:	Bearing [True]: 205.0° to 227.0° Bearing [Mag]: 205.0° to 227.0°				Arc Distance: Out to 105.0 NM Altitude: 6000.0 to 18000.0 ft		
14	OCF FAA 714002-27 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-27	
	ESV:	Bearing [True]: 215.0° to 230.0° Bearing [Mag]: 215.0° to 230.0°				Arc Distance: Out to 145.0 NM Altitude: 13500.0 to 18100.0 ft		
15	CTY FAA 704013-39 CTY [IFPA]	N29° 35' 56.40", W083° 02' 55.65"	2.0 W	40	33.8	112.0	CTY FAA 704013-39	
	ESV:	Bearing [True]: 193.0° to 208.0° Bearing [Mag]: 195.0° to 210.0°				Arc Distance: Out to 138.0 NM Altitude: 14500.0 to 18100.0 ft		
16	LAL FAA 704224-107 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-107	
	ESV:	Bearing [True]: 230.0° to 260.0° Bearing [Mag]: 229.0° to 259.0°				Arc Distance: Out to 55.0 NM Altitude: 3000.0 to 14500.0 ft		
17	LAL FAA 704224-35 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-35	

DME DME Assessment Results for RAYZZ3 path RAYZZ_COVUM

User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
	ESV:	Bearing [True]: 245.0° to 270.0° Bearing [Mag]: 244.0° to 269.0°					Arc Distance: Out to 95.0 NM Altitude: 7000.0 to 14700.0 ft	
18	LAL FAA 704224-82 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-82	
	ESV:	Bearing [True]: 251.0° to 306.0° Bearing [Mag]: 250.0° to 305.0°					Arc Distance: Out to 51.0 NM Altitude: 2900.0 to 6100.0 ft	
19	OCF FAA 714002-45 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-45	
	ESV:	Bearing [True]: 190.0° to 220.0° Bearing [Mag]: 190.0° to 220.0°					Arc Distance: Out to 75.0 NM Altitude: 4600.0 to 6100.0 ft	
20	ORL FAA 694096-74 ORL [IFPA]	N28° 32' 33.80", W081° 20' 06.05"	0.0 E	130	101.6	112.2	ORL FAA 694096-74	
	ESV:	Bearing [True]: 200.0° to 271.0° Bearing [Mag]: 200.0° to 271.0°					Arc Distance: Out to 93.0 NM Altitude: 5500.0 to 14700.0 ft	
21	LAL FAA 704224-56 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-56	
	ESV:	Bearing [True]: 270.0° to 355.0° Bearing [Mag]: 269.0° to 354.0°					Arc Distance: Out to 60.0 NM Altitude: 6000.0 to 14700.0 ft	
22	CTY FAA 704013-48 CTY [IFPA]	N29° 35' 56.40", W083° 02' 55.65"	2.0 W	40	33.8	112.0	CTY FAA 704013-48	
	ESV:	Bearing [True]: 148.0° to 228.0° Bearing [Mag]: 150.0° to 230.0°					Arc Distance: Out to 130.0 NM Altitude: 16000.0 to 18000.0 ft	
23	RSW FAA 191354-62 RSW [IFPA]	N26° 31' 47.59", W081° 46' 32.77"	2.0 W	130	24.8	114.15	RSW FAA 191354-62	
	ESV:	Bearing [True]: 305.0° to 325.0° Bearing [Mag]: 307.0° to 327.0°					Arc Distance: Out to 105.0 NM Altitude: 8000.0 to 12500.0 ft	
24	OCF FAA 714002-42 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-42	
	ESV:	Bearing [True]: 180.0° to 200.0° Bearing [Mag]: 180.0° to 200.0°					Arc Distance: Out to 82.0 NM Altitude: 4900.0 to 10000.0 ft	

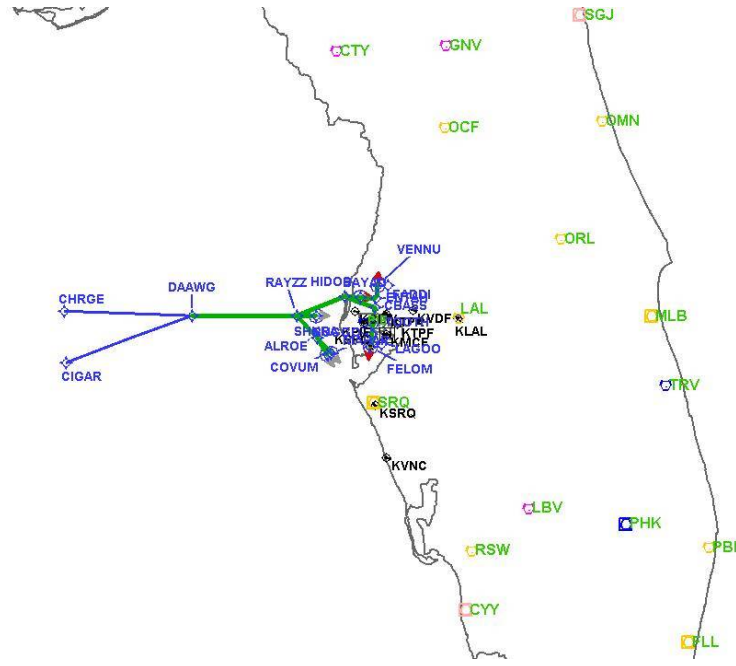
DME DME Assessment Results for RAYZZ3 path RAYZZ_COVUM

DME Error



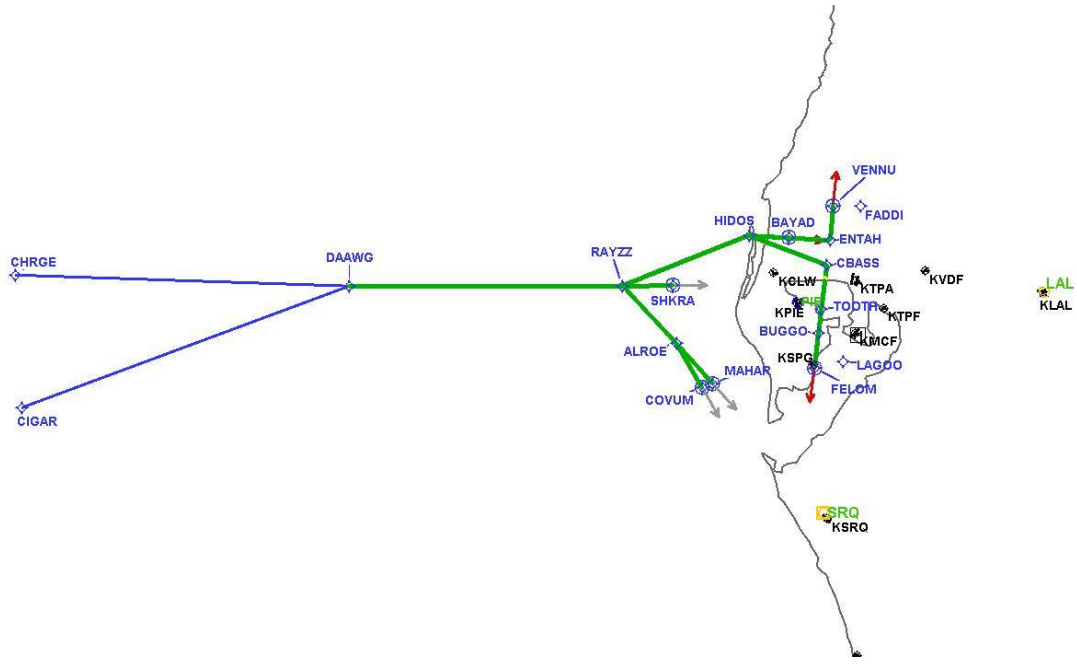
DME DME Assessment Results for RAYZZ3 path RAYZZ_COVUM

Graphic Depiction 1



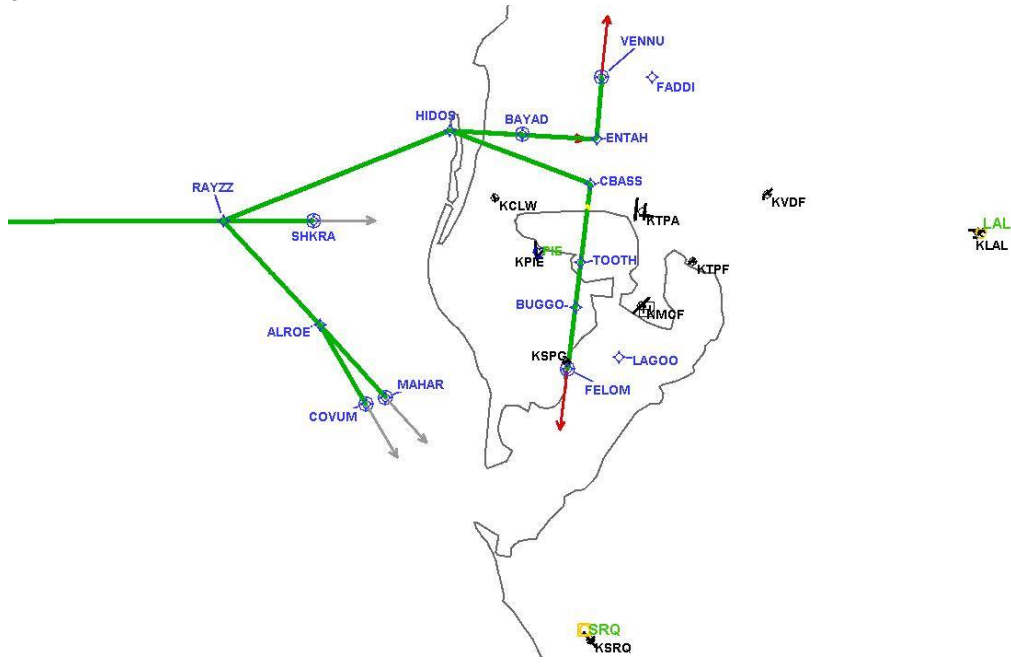
DME DME Assessment Results for RAYZZ3 path RAYZZ_COVUM

Graphic Depiction 2



DME DME Assessment Results for RAYZZ3 path RAYZZ_COVUM

Graphic Depiction 3



DME DME Assessment Results for RAYZZ3 path RAYZZ_SHKRA

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Mark CTR Thompson
Project File:	C:\Users\Mark CTR Thompson\OneDrive - Federal Aviation Administration\Desktop\RNAV Projects\RNAV Projects 2025\TPA.SRQ STARS_250417\KTPA RAYZZ3 (RNAV) STAR\DME\KTPA RAYZZ3 (RNAV) STAR DME_240905.tgs
Output File:	C:\Users\Mark CTR Thompson\OneDrive - Federal Aviation Administration\Desktop\RNAV Projects\RNAV Projects 2025\TPA.SRQ STARS_250417\KTPA RAYZZ3 (RNAV) STAR\DME\KTPA [IFPA] RAYZZ3 20240905_0849 EDT\RAYZZ_SHKRA\KTPA RAYZZ3 RNAV STAR RAYZZ SHKRA 20240905_0849 EDT.pdf
Procedure Name:	RAYZZ3
Software: DmeDmePlugin:	7.3.3
Date/Time:	09/05/2024 08:49 EDT
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
RAYZZ	WP	N27° 54' 49.67", W083° 10' 07.19"	10000	VNAV	240	FLY_BY	TF
SHKRA	WP	N27° 55' 29.67", W083° 01' 53.59"	8000	VNAV	240	FLY_OVER	TF

Flyability

Flight Type:	RNAV_STAR
Selected Airport:	KTPA [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 RAYZZ3 path RAYZZ_SHKRA

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:	Allowed
DoD Facilities:	Not included
Foreign Facilities:	Not included
High DMEs:	Included
Low DMEs:	Included
Terminal DMEs:	Included
Flight Check DMEs:	Not selected
Higher Altitudes:	Not Evaluated
Near Maximum Altitude:	Not Evaluated
Automatic ESVs:	Not enabled
Disabled DMEs:	None

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	LAL	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	H	IFPA	NO	Enabled		
2	SRQ	N27° 24' 25.26", W082° 33' 49.18"	5.0 W	130	DH	IFPA	NO	Enabled		
3	PIE	N27° 54' 27.95", W082° 41' 03.51"	5.0 W	130	H	IFPA	NO	Enabled		
4	OCF	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	L	IFPA	NO	Enabled		
5	ORL	N28° 32' 33.80", W081° 20' 06.05"	0.0 E	130	H	IFPA	NO	Enabled		

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	OCF [IFPA]	SRQ [IFPA]	PIE [IFPA]	LAL [IFPA]		
0.9	OCF [IFPA]	SRQ [IFPA]	PIE [IFPA]			
5.6	OCF [IFPA]	SRQ [IFPA]	ORL [IFPA]	PIE [IFPA]		

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

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
RAYZZ	SHKRA	LAL [IFPA], SRQ [IFPA], PIE [IFPA], OCF [IFPA], ORL [IFPA]	

User Data Files

#	File Name
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None

DME DME Assessment Results for RAYZZ3 path RAYZZ_SHKRA

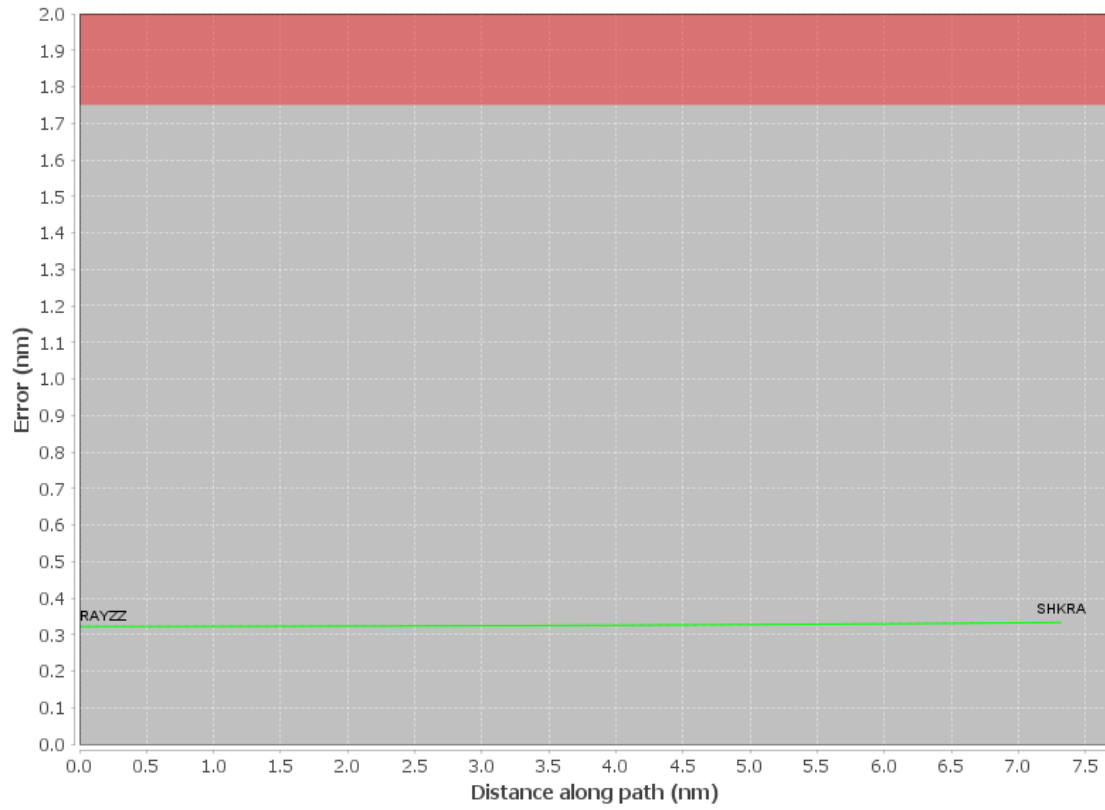
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	LAL FAA 704224-69 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-69	
	ESV:	Bearing [True]: 240.0° to 260.0° Bearing [Mag]: 239.0° to 259.0°			Arc Distance: Out to 75.0 NM Altitude: 6000.0 to 14700.0 ft			
2	OCF FAA 714002-37 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-37	
	ESV:	Bearing [True]: 190.0° to 220.0° Bearing [Mag]: 190.0° to 220.0°			Arc Distance: Out to 77.0 NM Altitude: 5200.0 to 6100.0 ft			
3	OCF FAA 714002-25 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-25	
	ESV:	Bearing [True]: 190.0° to 235.0° Bearing [Mag]: 190.0° to 235.0°			Arc Distance: Out to 130.0 NM Altitude: 10000.0 to 20000.0 ft			
4	ORL FAA 694096-76 ORL [IFPA]	N28° 32' 33.80", W081° 20' 06.05"	0.0 E	130	101.6	112.2	ORL FAA 694096-76	
	ESV:	Bearing [True]: 200.0° to 271.0° Bearing [Mag]: 200.0° to 271.0°			Arc Distance: Out to 86.0 NM Altitude: 5500.0 to 14700.0 ft			
5	CTY FAA 704013-51 CTY [IFPA]	N29° 35' 56.40", W083° 02' 55.65"	2.0 W	40	33.8	112.0	CTY FAA 704013-51	
	ESV:	Bearing [True]: 167.0° to 215.0° Bearing [Mag]: 169.0° to 217.0°			Arc Distance: Out to 130.0 NM Altitude: 15000.0 to 18000.0 ft			
6	OCF FAA 714002-10 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-10	
	ESV:	Bearing [True]: 210.0° to 235.0° Bearing [Mag]: 210.0° to 235.0°			Arc Distance: Out to 138.0 NM Altitude: 14000.0 to 18000.0 ft			
7	ORL FAA 694096-35 ORL [IFPA]	N28° 32' 33.80", W081° 20' 06.05"	0.0 E	130	101.6	112.2	ORL FAA 694096-35	
	ESV:	Bearing [True]: 225.0° to 275.0° Bearing [Mag]: 225.0° to 275.0°			Arc Distance: Out to 100.0 NM Altitude: 7000.0 to 14700.0 ft			
8	ORL FAA 694096-38 ORL [IFPA]	N28° 32' 33.80", W081° 20' 06.05"	0.0 E	130	101.6	112.2	ORL FAA 694096-38	
	ESV:	Bearing [True]: 242.0° to 256.0° Bearing [Mag]: 242.0° to 256.0°			Arc Distance: Out to 165.0 NM Altitude: 18000.0 to 35000.0 ft			
9	OCF FAA 714002-46 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-46	
	ESV:	Bearing [True]: 190.0° to 225.0° Bearing [Mag]: 190.0° to 225.0°			Arc Distance: Out to 72.0 NM Altitude: 3600.0 to 10000.0 ft			
10	OCF FAA 714002-26 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-26	
	ESV:	Bearing [True]: 190.0° to 210.0° Bearing [Mag]: 190.0° to 210.0°			Arc Distance: Out to 105.0 NM Altitude: 6000.0 to 18000.0 ft			
11	CTY FAA 704013-34 CTY [IFPA]	N29° 35' 56.40", W083° 02' 55.65"	2.0 W	40	33.8	112.0	CTY FAA 704013-34	
	ESV:	Bearing [True]: 188.0° to 197.0° Bearing [Mag]: 190.0° to 199.0°			Arc Distance: Out to 109.0 NM Altitude: 10000.0 to 20000.0 ft			
12	LAL FAA 704224-28 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-28	
	ESV:	Bearing [True]: 247.0° to 260.0° Bearing [Mag]: 246.0° to 259.0°			Arc Distance: Out to 90.0 NM Altitude: 6000.0 to 14600.0 ft			
13	OCF FAA 714002-17 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-17	
	ESV:	Bearing [True]: 205.0° to 227.0° Bearing [Mag]: 205.0° to 227.0°			Arc Distance: Out to 105.0 NM Altitude: 6000.0 to 18000.0 ft			
14	OCF FAA 714002-27 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-27	
	ESV:	Bearing [True]: 215.0° to 230.0° Bearing [Mag]: 215.0° to 230.0°			Arc Distance: Out to 145.0 NM Altitude: 13500.0 to 18100.0 ft			
15	CTY FAA 704013-39 CTY [IFPA]	N29° 35' 56.40", W083° 02' 55.65"	2.0 W	40	33.8	112.0	CTY FAA 704013-39	
	ESV:	Bearing [True]: 193.0° to 208.0° Bearing [Mag]: 195.0° to 210.0°			Arc Distance: Out to 138.0 NM Altitude: 14500.0 to 18100.0 ft			
16	LAL FAA 704224-107 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-107	
	ESV:	Bearing [True]: 230.0° to 260.0° Bearing [Mag]: 229.0° to 259.0°			Arc Distance: Out to 55.0 NM Altitude: 3000.0 to 14500.0 ft			
17	LAL FAA 704224-35 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-35	

DME DME Assessment Results for RAYZZ3 path RAYZZ_SHKRA

User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
	ESV:	Bearing [True]: 245.0° to 270.0° Bearing [Mag]: 244.0° to 269.0°					Arc Distance: Out to 95.0 NM Altitude: 7000.0 to 14700.0 ft	
18	LAL FAA 704224-82 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-82	
	ESV:	Bearing [True]: 251.0° to 306.0° Bearing [Mag]: 250.0° to 305.0°					Arc Distance: Out to 51.0 NM Altitude: 2900.0 to 6100.0 ft	
19	OCF FAA 714002-45 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-45	
	ESV:	Bearing [True]: 190.0° to 220.0° Bearing [Mag]: 190.0° to 220.0°					Arc Distance: Out to 75.0 NM Altitude: 4600.0 to 6100.0 ft	
20	ORL FAA 694096-74 ORL [IFPA]	N28° 32' 33.80", W081° 20' 06.05"	0.0 E	130	101.6	112.2	ORL FAA 694096-74	
	ESV:	Bearing [True]: 200.0° to 271.0° Bearing [Mag]: 200.0° to 271.0°					Arc Distance: Out to 93.0 NM Altitude: 5500.0 to 14700.0 ft	
21	LAL FAA 704224-56 LAL [IFPA]	N27° 59' 10.31", W082° 00' 50.06"	1.0 E	130	133.8	116.0	LAL FAA 704224-56	
	ESV:	Bearing [True]: 270.0° to 355.0° Bearing [Mag]: 269.0° to 354.0°					Arc Distance: Out to 60.0 NM Altitude: 6000.0 to 14700.0 ft	
22	CTY FAA 704013-48 CTY [IFPA]	N29° 35' 56.40", W083° 02' 55.65"	2.0 W	40	33.8	112.0	CTY FAA 704013-48	
	ESV:	Bearing [True]: 148.0° to 228.0° Bearing [Mag]: 150.0° to 230.0°					Arc Distance: Out to 130.0 NM Altitude: 16000.0 to 18000.0 ft	
23	RSW FAA 191354-62 RSW [IFPA]	N26° 31' 47.59", W081° 46' 32.77"	2.0 W	130	24.8	114.15	RSW FAA 191354-62	
	ESV:	Bearing [True]: 305.0° to 325.0° Bearing [Mag]: 307.0° to 327.0°					Arc Distance: Out to 105.0 NM Altitude: 8000.0 to 12500.0 ft	
24	OCF FAA 714002-42 OCF [IFPA]	N29° 10' 38.92", W082° 13' 34.80"	0.0 E	40	78.3	113.7	OCF FAA 714002-42	
	ESV:	Bearing [True]: 180.0° to 200.0° Bearing [Mag]: 180.0° to 200.0°					Arc Distance: Out to 82.0 NM Altitude: 4900.0 to 10000.0 ft	

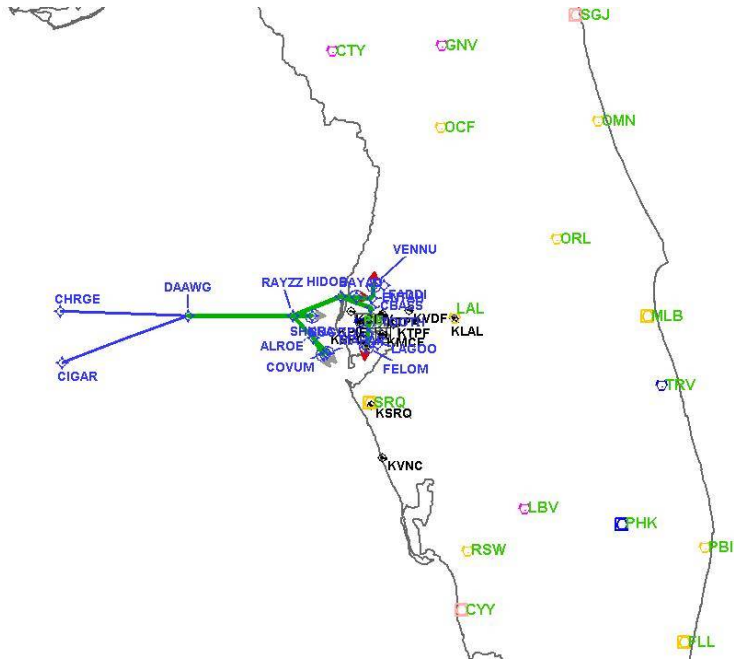
DME DME Assessment Results for RAYZZ3 path RAYZZ_SHKRA

DME Error



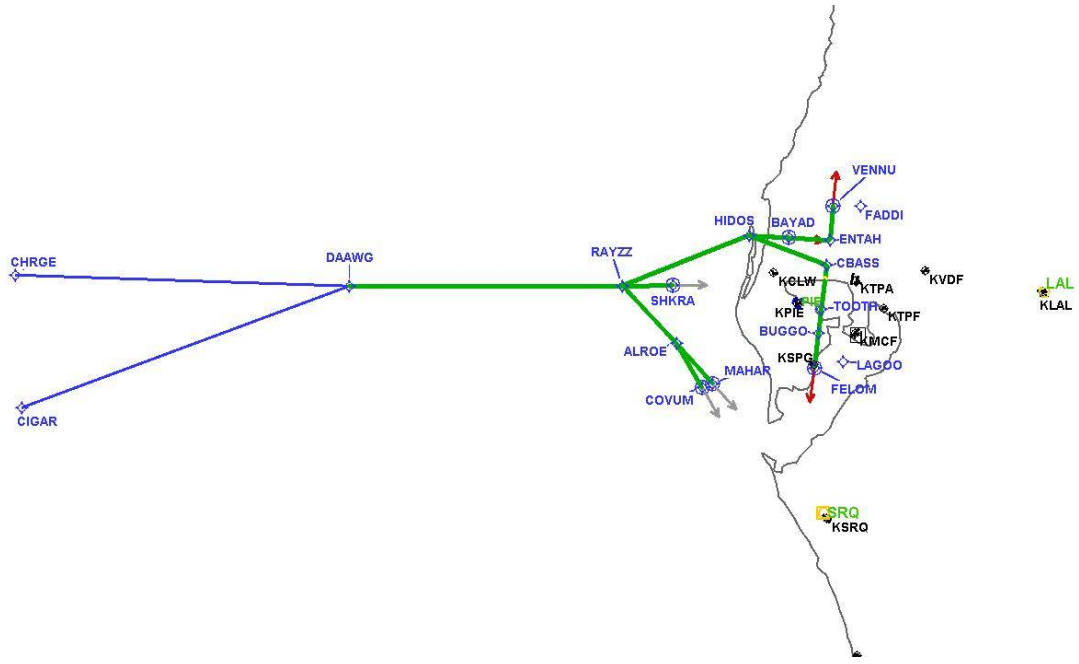
DME DME Assessment Results for RAYZZ path RAYZZ_SHKRA

Graphic Depiction 1



DME DME Assessment Results for RAYZZ3 path RAYZZ_SHKRA

Graphic Depiction 2



DME DME Assessment Results for RAYZZ3 path RAYZZ_SHKRA

Graphic Depiction 3

