

DME DME Assessment Results for LONGZ4 path FLNEL_BASHE

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Theodore CTR Roller
Project File:	C:\Users\Theodore CTR Roller\Desktop\CO\DEN\32351 DEN-APA\Subpak\FPT\20240903 DEN STARs 32351.tgs
Output File:	C:\Users\Theodore CTR Roller\Desktop\CO\DEN\32351 DEN-APA\Subpak\FPT\LONGZ\KDEN [IFPA] LONGZ4 20240904_1053 MDT\FLNEL_BASHE\KDEN LONGZ4 RNAV STAR FLNEL BASHE 20240904_1053 MDT.pdf
Procedure Name:	LONGZ4
Software: DmeDmePlugin:	7.3.3
Date/Time:	09/04/2024 10:53 MDT
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
FLNEL	WP	N40° 20' 43.05", W105° 21' 59.30"	15700	VNAV	250	FLY_BY	TF
GILPN	WP	N40° 14' 13.89", W105° 08' 47.43"	14000	VNAV	250	FLY_BY	TF
BASHE	WP	N40° 06' 07.83", W105° 08' 25.32"	13000	VNAV	210	FLY_OVER	TF

Flyability

Flight Type:	RNAV_STAR
Selected Airport:	KDEN [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 LONGZ4 path FLNEL_BASHE

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

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	DEN	N39° 48' 45.05", W104° 39' 38.66"	8.0 E	130	H	IFPA	NO	Enabled		
2	GLL	N40° 30' 13.92", W104° 33' 10.85"	13.0 E	130	DH	IFPA	NO	Enabled		
3	BJC	N39° 54' 46.94", W105° 08' 20.35"	11.0 E	130	DH	IFPA	NO	Enabled		
4	RLG	N40° 00' 09.50", W106° 26' 32.96"	14.0 E	130	DH	IFPA	NO	Enabled		
5	MBW	N41° 50' 43.88", W106° 00' 15.42"	14.0 E	130	DH	IFPA	NO	Enabled		
6	DVV	N39° 53' 40.88", W104° 37' 27.61"	8.0 E	130	H	IFPA	NO	Enabled		
7	CYS	N41° 12' 39.48", W104° 46' 22.49"	13.0 E	130	H	IFPA	NO	Enabled		
8	FQF	N39° 41' 24.50", W104° 37' 15.50"	11.0 E	130	H	IFPA	NO	Enabled		
9	SNY	N41° 05' 48.06", W102° 58' 58.77"	13.0 E	130	DH	IFPA	NO	Enabled		

DME DME Assessment Results for LONGZ4 path FLNEL_BASHE

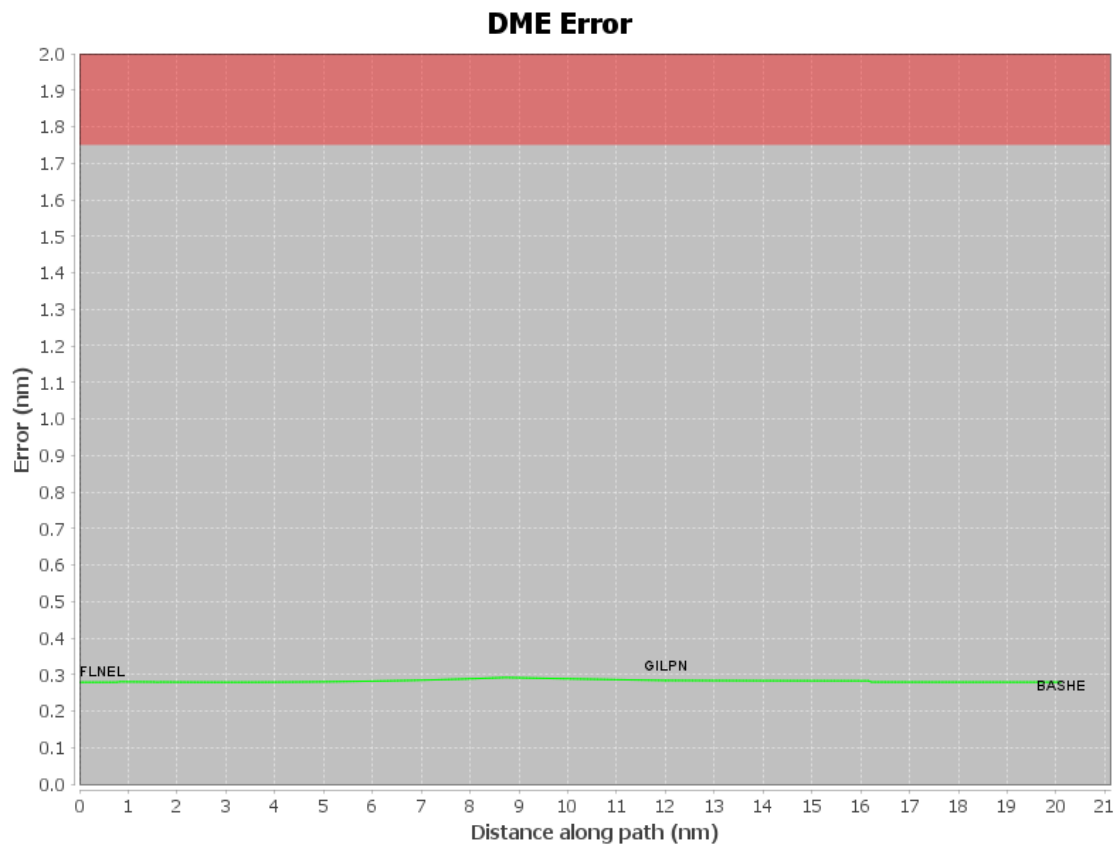
Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	RLG [IFPA]	BJC [IFPA]	GLL [IFPA]	MBW [IFPA]	SNY [IFPA]	
0.3	RLG [IFPA]	BJC [IFPA]	GLL [IFPA]	MBW [IFPA]		
0.8	GLL [IFPA]	BJC [IFPA]	MBW [IFPA]	CYS [IFPA]		
1.6	RLG [IFPA]	BJC [IFPA]	GLL [IFPA]	MBW [IFPA]		
1.7	GLL [IFPA]	BJC [IFPA]	MBW [IFPA]	CYS [IFPA]		
1.9	GLL [IFPA]	BJC [IFPA]	CYS [IFPA]			
2.4	GLL [IFPA]	BJC [IFPA]	RLG [IFPA]	CYS [IFPA]		
2.5	GLL [IFPA]	BJC [IFPA]	CYS [IFPA]			
4.2	GLL [IFPA]	BJC [IFPA]	DVV [IFPA]			
6.9	GLL [IFPA]	BJC [IFPA]	DEN [IFPA]	DVV [IFPA]		
16.2	GLL [IFPA]	FQF [IFPA]	DEN [IFPA]	DVV [IFPA]	BJC [IFPA]	

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

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
FLNEL	GILPN	DEN [IFPA], GLL [IFPA], BJC [IFPA], RLG [IFPA], MBW [IFPA], DVV [IFPA], CYS [IFPA], SNY [IFPA]	
GILPN	BASHE	DEN [IFPA], GLL [IFPA], BJC [IFPA], DVV [IFPA], FQF [IFPA]	

User Data Files								
#	File Name							
None								
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	CYS FAA 704129-13 CYS [IFPA]	N41° 12' 39.48", W104° 46' 22.49"	13.0 E	130	6211	113.1	CYS FAA 704129-13	
ESV:		Bearing [True]: 199.0° to 247.0° Bearing [Mag]: 186.0° to 234.0°				Arc Distance: Out to 99.0 NM Altitude: 13300.0 to 22000.0 ft		

DME DME Assessment Results for LONGZ4 path FLNEL_BASHE



DME DME Assessment Results for LONGZ4 path FLNEL_KAILE

Results Summary	
Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Theodore CTR Roller
Project File:	C:\Users\Theodore CTR Roller\Desktop\CO\DEN\32351 DEN-APA\Subpak\FPT\20240903 DEN STARs 32351.tgs
Output File:	C:\Users\Theodore CTR Roller\Desktop\CO\DEN\32351 DEN-APA\Subpak\FPT\LONGZ\KDEN [IFPA] LONGZ4 20240904_1053 MDT\FLNEL_KAILE\KDEN LONGZ4 RNAV STAR FLNEL KAILE 20240904_1053 MDT.pdf
Procedure Name:	LONGZ4
Software: DmeDmePlugin:	7.3.3
Date/Time:	09/04/2024 10:53 MDT
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
FLNEL	WP	N40° 20' 43.05", W105° 21' 59.30"	15700	VNAV	250	FLY_BY	TF
BEOND	WP	N40° 17' 19.61", W104° 57' 06.64"	13000	VNAV	210	FLY_BY	TF
SWAYN	WP	N40° 16' 36.54", W104° 51' 54.09"	12000	VNAV	210	FLY_BY	TF
KAILE	WP	N40° 15' 48.35", W104° 46' 06.37"	11000	VNAV	210	FLY_BY	TF

Flyability	
Flight Type:	RNAV_STAR
Selected Airport:	KDEN [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 LONGZ4 path FLNEL_KAILE

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

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	DEN	N39° 48' 45.05", W104° 39' 38.66"	8.0 E	130	H	IFPA	NO	Enabled		
2	GLL	N40° 30' 13.92", W104° 33' 10.85"	13.0 E	130	DH	IFPA	NO	Enabled		
3	BJC	N39° 54' 46.94", W105° 08' 20.35"	11.0 E	130	DH	IFPA	NO	Enabled		
4	RLG	N40° 00' 09.50", W106° 26' 32.96"	14.0 E	130	DH	IFPA	NO	Enabled		
5	MBW	N41° 50' 43.88", W106° 00' 15.42"	14.0 E	130	DH	IFPA	NO	Enabled		
6	DVV	N39° 53' 40.88", W104° 37' 27.61"	8.0 E	130	H	IFPA	NO	Enabled		
7	CYS	N41° 12' 39.48", W104° 46' 22.49"	13.0 E	130	H	IFPA	NO	Enabled		
8	FQF	N39° 41' 24.50", W104° 37' 15.50"	11.0 E	130	H	IFPA	NO	Enabled		
9	SNY	N41° 05' 48.06", W102° 58' 58.77"	13.0 E	130	DH	IFPA	NO	Enabled		

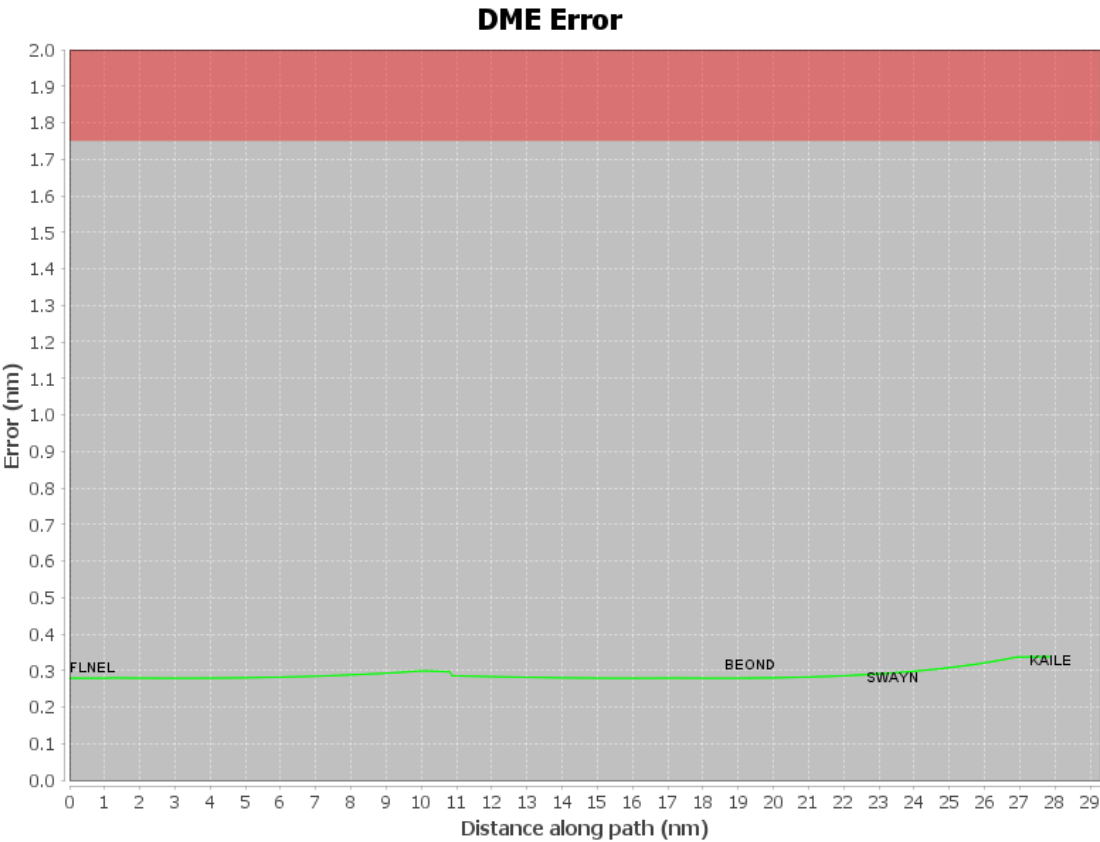
DME DME Assessment Results for LONGZ4 path FLNEL_KAILE

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	RLG [IFPA]	BJC [IFPA]	GLL [IFPA]	MBW [IFPA]	SNY [IFPA]	
1.0	RLG [IFPA]	BJC [IFPA]	GLL [IFPA]	MBW [IFPA]		
1.2	GLL [IFPA]	BJC [IFPA]	MBW [IFPA]	CYS [IFPA]		
1.8	GLL [IFPA]	BJC [IFPA]	CYS [IFPA]			
4.8	GLL [IFPA]	BJC [IFPA]				
6.8	GLL [IFPA]	BJC [IFPA]	DVV [IFPA]			
10.9	DEN [IFPA]	GLL [IFPA]	DVV [IFPA]	BJC [IFPA]		
18.7	DVV [IFPA]	GLL [IFPA]	DEN [IFPA]	SNY [IFPA]	BJC [IFPA]	
19.6	DVV [IFPA]	GLL [IFPA]	DEN [IFPA]	BJC [IFPA]		
24.7	DVV [IFPA]	GLL [IFPA]	DEN [IFPA]	FQF [IFPA]	BJC [IFPA]	

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

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
FLNEL	BEOND	DEN [IFPA], GLL [IFPA], BJC [IFPA], RLG [IFPA], MBW [IFPA], DVV [IFPA], CYS [IFPA], SNY [IFPA]	
BEOND	SWAYN	DEN [IFPA], GLL [IFPA], BJC [IFPA], DVV [IFPA], SNY [IFPA]	
SWAYN	KAILE	DEN [IFPA], GLL [IFPA], BJC [IFPA], DVV [IFPA], FQF [IFPA]	

User Data Files								
#	File Name							
None								
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	CYS FAA 704129-13 CYS [IFPA]	N41° 12' 39.48", W104° 46' 22.49"	13.0 E	130	6211	113.1	CYS FAA 704129-13	
ESV:		Bearing [True]: 199.0° to 247.0° Bearing [Mag]: 186.0° to 234.0°				Arc Distance: Out to 99.0 NM Altitude: 13300.0 to 22000.0 ft		



DME DME Assessment Results for LONGZ4 path HLMUT_HIMOM

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Theodore CTR Roller
Project File:	C:\Users\Theodore CTR Roller\Desktop\CO\DEN\32351 DEN-APA\Subpak\FPT\20240903 DEN STARs 32351.tgs
Output File:	C:\Users\Theodore CTR Roller\Desktop\CO\DEN\32351 DEN-APA\Subpak\FPT\LONGZ\KDEN [IFPA] LONGZ4 20240904_1053 MDT\HLMUT_HIMOM\KDEN LONGZ4 RNAV STAR HLMUT HIMOM 20240904_1053 MDT.pdf
Procedure Name:	LONGZ4
Software: DmeDmePlugin:	7.3.3
Date/Time:	09/04/2024 10:53 MDT
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
HLMUT	WP	N40° 08' 39.89", W105° 01' 39.69"	13000	VNAV	250	FLY_BY	TF
ARCHY	WP	N40° 01' 48.15", W104° 52' 49.16"	13000	VNAV	250	FLY_BY	TF
BABAA	WP	N39° 58' 14.55", W104° 48' 14.83"	12000	VNAV	250	FLY_BY	TF
HIMOM	WP	N39° 47' 17.19", W104° 48' 32.22"	11000	VNAV	210	FLY_OVER	TF

Flyability

Flight Type:	RNAV_STAR
Selected Airport:	KDEN [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 LONGZ4 path HLMUT_HIMOM

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

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	DEN	N39° 48' 45.05", W104° 39' 38.66"	8.0 E	130	H	IFPA	NO	Enabled		
2	GLL	N40° 30' 13.92", W104° 33' 10.85"	13.0 E	130	DH	IFPA	NO	Enabled		
3	BJC	N39° 54' 46.94", W105° 08' 20.35"	11.0 E	130	DH	IFPA	NO	Enabled		
4	DVV	N39° 53' 40.88", W104° 37' 27.61"	8.0 E	130	H	IFPA	NO	Enabled		
5	FQF	N39° 41' 24.50", W104° 37' 15.50"	11.0 E	130	H	IFPA	NO	Enabled		

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	DEN [IFPA]	GLL [IFPA]	DVV [IFPA]	FQF [IFPA]	BJC [IFPA]	
23.0	GLL [IFPA]	BJC [IFPA]	DVV [IFPA]	FQF [IFPA]		
25.1	GLL [IFPA]	BJC [IFPA]	DVV [IFPA]	FQF [IFPA]	DEN [IFPA]	

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

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
HLMUT	ARCHY	DEN [IFPA], GLL [IFPA], BJC [IFPA], DVV [IFPA], FQF [IFPA]	
ARCHY	BABAA	DEN [IFPA], GLL [IFPA], BJC [IFPA], DVV [IFPA], FQF [IFPA]	
BABAA	HIMOM	DEN [IFPA], GLL [IFPA], BJC [IFPA], DVV [IFPA], FQF [IFPA]	

DME DME Assessment Results for LONGZ4 path HLMUT_HIMOM

User Data Files

File Name

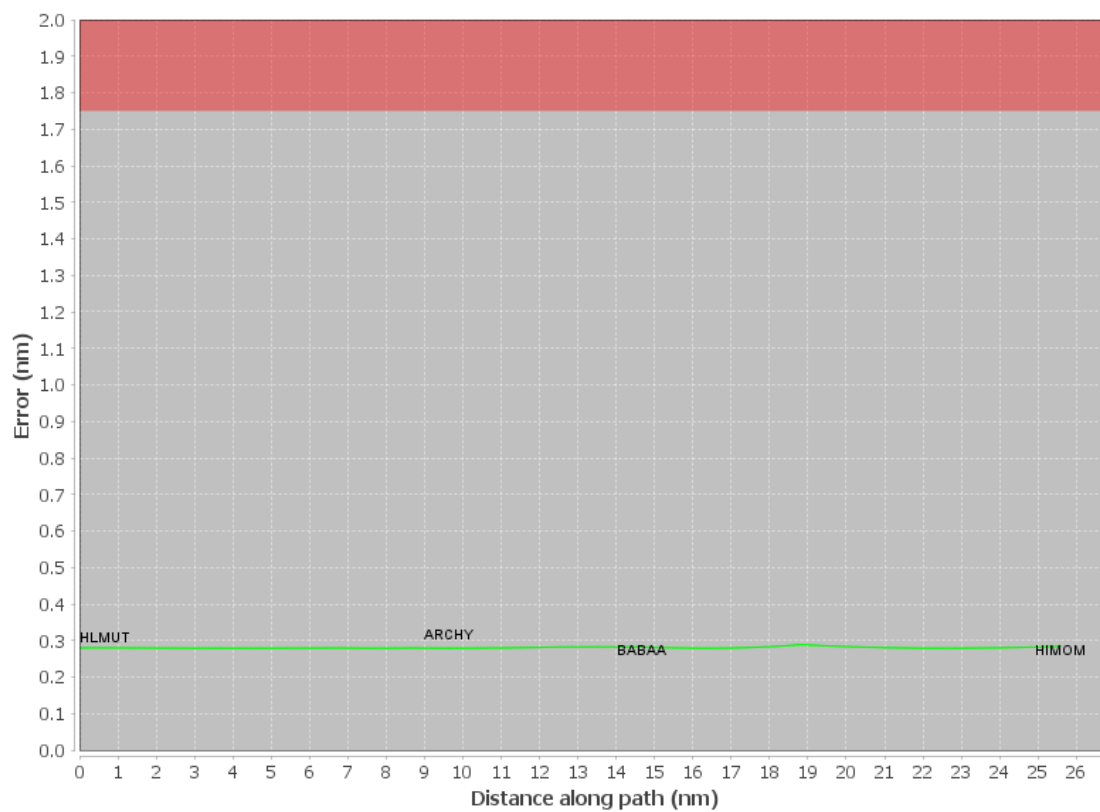
None

User DMEs

#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	CYS FAA 704129-13 CYS [IFPA]	N41° 12' 39.48", W104° 46' 22.49"	13.0 E	130	6211	113.1	CYS FAA 704129-13	
ESV:		Bearing [True]: 199.0° to 247.0° Bearing [Mag]: 186.0° to 234.0°				Arc Distance: Out to 99.0 NM Altitude: 13300.0 to 22000.0 ft		

DME DME Assessment Results for LONGZ4 path HLMUT_HIMOM

DME Error



DME DME Assessment Results for LONGZ4 path KAMPR_DOGGG

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Theodore CTR Roller
Project File:	C:\Users\Theodore CTR Roller\Desktop\CO\DEN\32351 DEN-APA\Subpak\FPT\20240903 DEN STARS 32351.tgs
Output File:	C:\Users\Theodore CTR Roller\Desktop\CO\DEN\32351 DEN-APA\Subpak\FPT\LONGZ\KDEN [IFPA] LONGZ4 20240904_1053 MDT\KAMPR_DOGGG\KDEN LONGZ4 RNAV STAR KAMPR DOGGG 20240904_1053 MDT.pdf
Procedure Name:	LONGZ4
Software: DmeDmePlugin:	7.3.3
Date/Time:	09/04/2024 10:53 MDT
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
KAMPR	WP	N40° 40' 22.29", W109° 02' 51.90"	15700	VNAV	280	FLY_BY	TF
GRAYZ	WP	N40° 34' 41.06", W107° 40' 31.43"	15700	VNAV	280	FLY_BY	TF
BYYKE	WP	N40° 29' 14.01", W106° 31' 50.34"	15700	VNAV	280	FLY_BY	TF
BIVVY	WP	N40° 27' 12.13", W106° 09' 20.44"	15700	VNAV	270	FLY_BY	TF
VESTL	WP	N40° 25' 54.30", W105° 54' 32.60"	15700	VNAV	270	FLY_BY	TF
LONGZ	WP	N40° 23' 11.18", W105° 37' 21.13"	15700	VNAV	270	FLY_BY	TF
FLNEL	WP	N40° 20' 43.05", W105° 21' 59.30"	15700	VNAV	250	FLY_BY	TF
DORKE	WP	N40° 10' 30.20", W105° 04' 45.29"	15000	VNAV	250	FLY_BY	TF
HLMUT	WP	N40° 08' 39.89", W105° 01' 39.69"	13000	VNAV	250	FLY_BY	TF
SKEWD	WP	N40° 03' 57.73", W104° 48' 00.42"	13000	VNAV	250	FLY_BY	TF
LEKEE	WP	N40° 01' 13.76", W104° 43' 01.57"	12000	VNAV	250	FLY_BY	TF
XCUTV	WP	N39° 58' 10.74", W104° 37' 28.95"	12000	VNAV	250	FLY_BY	TF
HDGHG	WP	N39° 55' 51.26", W104° 33' 14.89"	12000	VNAV	250	FLY_BY	TF
FFFAT	WP	N39° 54' 01.30", W104° 29' 57.17"	11000	VNAV	250	FLY_BY	TF
DOGGG	WP	N39° 47' 54.32", W104° 30' 03.31"	11000	VNAV	210	FLY_OVER	TF

DME DME Assessment Results for LONGZ4 path KAMPR_DOGGG

Flyability	
Flight Type:	RNAV STAR
Selected Airport:	KDEN [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
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 Assessment Results for LONGZ4 path KAMPR_DOGGG

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	DEN	N39° 48' 45.05", W104° 39' 38.66"	8.0 E	130	H	IFPA	NO	Enabled		
2	MTU	N40° 08' 56.74", W110° 07' 37.30"	14.0 E	130	DH	IFPA	NO	Enabled		
3	BJC	N39° 54' 46.94", W105° 08' 20.35"	11.0 E	130	DH	IFPA	NO	Enabled		
4	EKR	N40° 04' 02.79", W107° 55' 29.82"	15.0 E	130	DH	IFPA	NO	Enabled		
5	RLG	N40° 00' 09.50", W106° 26' 32.96"	14.0 E	130	DH	IFPA	NO	Enabled		
6	MBW	N41° 50' 43.88", W106° 00' 15.42"	14.0 E	130	DH	IFPA	NO	Enabled		
7	DVV	N39° 53' 40.88", W104° 37' 27.61"	8.0 E	130	H	IFPA	NO	Enabled		
8	CHE	N40° 31' 12.29", W107° 18' 17.64"	14.0 E	130	H	IFPA	NO	Enabled		
9	JNC	N39° 03' 34.44", W108° 47' 33.27"	15.0 E	130	DH	IFPA	NO	Enabled		
10	CYS	N41° 12' 39.48", W104° 46' 22.49"	13.0 E	130	H	IFPA	NO	Enabled		
11	FBR	N41° 22' 42.38", W110° 25' 26.62"	14.0 E	130	DH	IFPA	NO	Enabled		
12	DBL	N39° 26' 21.64", W106° 53' 40.85"	12.0 E	130	DH	IFPA	NO	Enabled		
13	GLL	N40° 30' 13.92", W104° 33' 10.85"	13.0 E	130	DH	IFPA	NO	Enabled		
14	VEL	N40° 22' 43.98", W109° 29' 35.82"	15.0 E	40	L	IFPA	NO	Enabled		
15	FQF	N39° 41' 24.50", W104° 37' 15.50"	11.0 E	130	H	IFPA	NO	Enabled		
16	SNY	N41° 05' 48.06", W102° 58' 58.77"	13.0 E	130	DH	IFPA	NO	Enabled		
17	BQZ	N40° 27' 49.55", W106° 52' 20.29"	13.0 E	40	L	IFPA	NO	Enabled		

DME DME Assessment Results for LONGZ4 path KAMPR_DOGGG

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	EKR [IFPA]	VEL [IFPA]	FBR [IFPA]	MTU [IFPA]	JNC [IFPA]	
13.8	MTU [IFPA]	EKR [IFPA]	JNC [IFPA]	FBR [IFPA]		
30.7	MTU [IFPA]	EKR [IFPA]	JNC [IFPA]			
40.5	EKR [IFPA]	CHE [IFPA]	MTU [IFPA]	JNC [IFPA]		
51.1	EKR [IFPA]	CHE [IFPA]	RLG [IFPA]	JNC [IFPA]	MTU [IFPA]	
52.3	EKR [IFPA]	CHE [IFPA]	JNC [IFPA]	MTU [IFPA]		
52.7	EKR [IFPA]	CHE [IFPA]	RLG [IFPA]	JNC [IFPA]	MTU [IFPA]	
53.2	EKR [IFPA]	CHE [IFPA]	JNC [IFPA]	MTU [IFPA]		
57.6	EKR [IFPA]	CHE [IFPA]	MTU [IFPA]			
60.8	EKR [IFPA]	CHE [IFPA]	BQZ [IFPA]	MTU [IFPA]		
61.6	EKR [IFPA]	CHE [IFPA]	BQZ [IFPA]			
73.3	EKR [IFPA]	CHE [IFPA]	BQZ [IFPA]	MBW [IFPA]		
73.6	MBW [IFPA]	CHE [IFPA]	BQZ [IFPA]			
74.2						
74.6	EKR [IFPA]	CHE [IFPA]	BQZ [IFPA]			
75.1	EKR [IFPA]	BQZ [IFPA]				
82.6	EKR [IFPA]	BQZ [IFPA]	CHE [IFPA]			
84.6	EKR [IFPA]	BQZ [IFPA]				
92.3	DBL [IFPA]	CHE [IFPA]	RLG [IFPA]	EKR [IFPA]	BQZ [IFPA]	
107.7	RLG [IFPA]	BQZ [IFPA]	CHE [IFPA]			
108.5	RLG [IFPA]	BQZ [IFPA]	CHE [IFPA]	CYS [IFPA]		
119.9	RLG [IFPA]	BQZ [IFPA]	CYS [IFPA]			
120.5	CYS [IFPA]	RLG [IFPA]				
124.0	CYS [IFPA]	RLG [IFPA]	MBW [IFPA]			
130.3	CYS [IFPA]	MBW [IFPA]				
137.8	CYS [IFPA]	MBW [IFPA]	RLG [IFPA]			
140.5	MBW [IFPA]	GLL [IFPA]	RLG [IFPA]			
147.4	MBW [IFPA]	GLL [IFPA]	RLG [IFPA]	CYS [IFPA]		
149.4	RLG [IFPA]	BJC [IFPA]	MBW [IFPA]	GLL [IFPA]		
150.8	MBW [IFPA]	GLL [IFPA]	RLG [IFPA]	CYS [IFPA]		
151.1	RLG [IFPA]	BJC [IFPA]	MBW [IFPA]	GLL [IFPA]		
153.1	MBW [IFPA]	GLL [IFPA]	RLG [IFPA]	CYS [IFPA]		
154.2	RLG [IFPA]	BJC [IFPA]	MBW [IFPA]	GLL [IFPA]		
167.5	RLG [IFPA]	BJC [IFPA]	GLL [IFPA]	MBW [IFPA]	SNY [IFPA]	

DME DME Assessment Results for LONGZ4 path KAMPR_DOGG

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
170.0	RLG [IFPA]	BJC [IFPA]	GLL [IFPA]	MBW [IFPA]		
170.4	GLL [IFPA]	BJC [IFPA]	MBW [IFPA]	CYS [IFPA]		
171.3	RLG [IFPA]	BJC [IFPA]	GLL [IFPA]	MBW [IFPA]		
171.4	GLL [IFPA]	BJC [IFPA]	MBW [IFPA]	CYS [IFPA]		
171.8	RLG [IFPA]	BJC [IFPA]	GLL [IFPA]	MBW [IFPA]		
172.4	GLL [IFPA]	BJC [IFPA]	MBW [IFPA]	CYS [IFPA]		
173.4	GLL [IFPA]	BJC [IFPA]	MBW [IFPA]	DVV [IFPA]		
173.8	GLL [IFPA]	BJC [IFPA]	DVV [IFPA]			
174.5	RLG [IFPA]	BJC [IFPA]	GLL [IFPA]	DVV [IFPA]		
176.0	RLG [IFPA]	BJC [IFPA]	GLL [IFPA]	DEN [IFPA]	DVV [IFPA]	
176.2	GLL [IFPA]	BJC [IFPA]	DEN [IFPA]	DVV [IFPA]		
177.1	RLG [IFPA]	BJC [IFPA]	GLL [IFPA]	DEN [IFPA]	DVV [IFPA]	
177.4	GLL [IFPA]	BJC [IFPA]	DEN [IFPA]	DVV [IFPA]		
177.6	RLG [IFPA]	BJC [IFPA]	GLL [IFPA]	DEN [IFPA]	DVV [IFPA]	SNY [IFPA]
177.6	GLL [IFPA]	BJC [IFPA]	DEN [IFPA]	DVV [IFPA]	SNY [IFPA]	
187.7	DEN [IFPA]	GLL [IFPA]	FQF [IFPA]	DVV [IFPA]	BJC [IFPA]	
210.4	FQF [IFPA]	BJC [IFPA]	GLL [IFPA]	DEN [IFPA]		
216.5	GLL [IFPA]	BJC [IFPA]	DVV [IFPA]	FQF [IFPA]	DEN [IFPA]	
218.0	GLL [IFPA]	BJC [IFPA]	FQF [IFPA]	DEN [IFPA]		
220.8	DVV [IFPA]	FQF [IFPA]	GLL [IFPA]	BJC [IFPA]	DEN [IFPA]	
223.7	DEN [IFPA]	GLL [IFPA]	BJC [IFPA]	FQF [IFPA]		

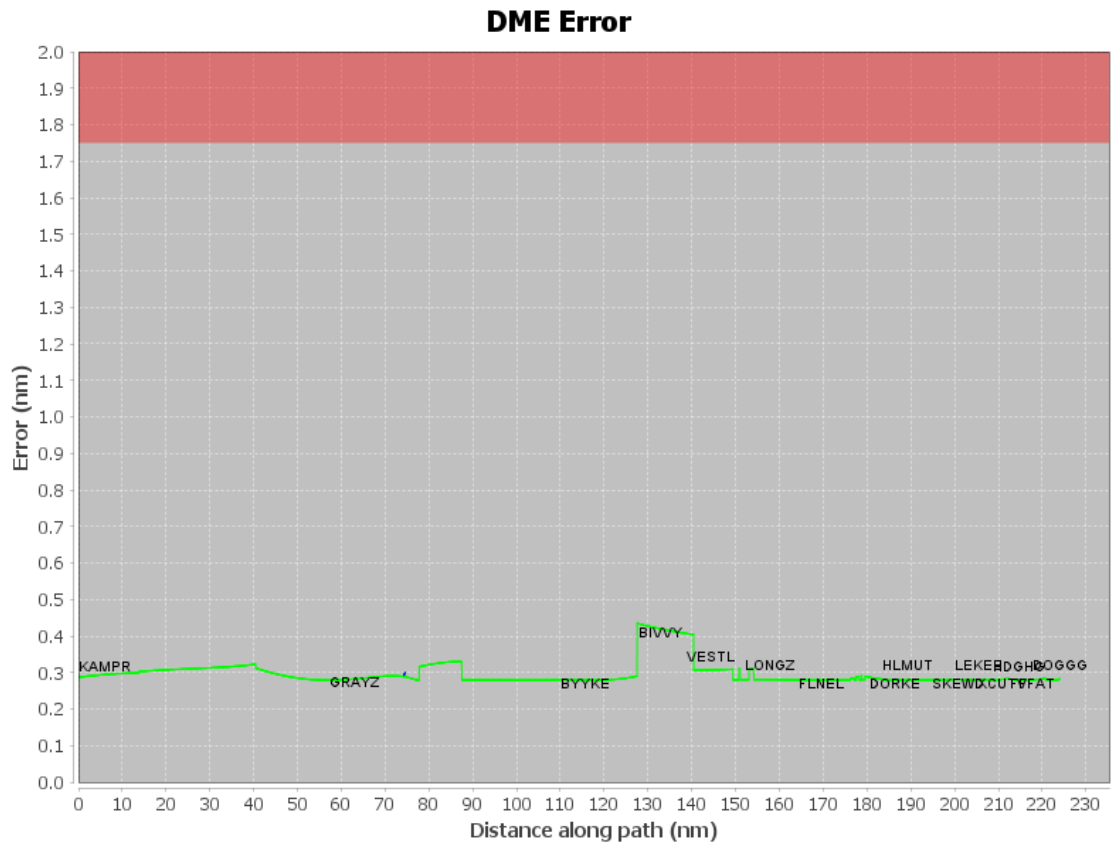
Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N40° 33' 34.45", W107° 25' 47.85"	N40° 33' 32.12", W107° 25' 17.39"	0.3889

DME DME Assessment Results for LONGZ4 path KAMPR_DOGGG

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
KAMPR	GRAYZ	MTU [IFPA], EKR [IFPA], RLG [IFPA], VEL [IFPA], CHE [IFPA], JNC [IFPA], FBR [IFPA], BQZ [IFPA]	
GRAYZ	BYEKE	DBL [IFPA], EKR [IFPA], RLG [IFPA], MBW [IFPA], CHE [IFPA], CYS [IFPA], BQZ [IFPA]	
BYEKE	BIVVY	RLG [IFPA], MBW [IFPA], CHE [IFPA], CYS [IFPA], BQZ [IFPA]	
BIVVY	VESTL	GLL [IFPA], RLG [IFPA], MBW [IFPA], CYS [IFPA]	
VESTL	LONGZ	GLL [IFPA], BJC [IFPA], RLG [IFPA], MBW [IFPA], CYS [IFPA]	
LONGZ	FLNEL	GLL [IFPA], BJC [IFPA], RLG [IFPA], MBW [IFPA], SNY [IFPA]	
FLNEL	DORKE	DEN [IFPA], GLL [IFPA], BJC [IFPA], RLG [IFPA], MBW [IFPA], DVV [IFPA], CYS [IFPA], FQF [IFPA], SNY [IFPA]	
DORKE	HLMUT	DEN [IFPA], GLL [IFPA], BJC [IFPA], RLG [IFPA], DVV [IFPA], FQF [IFPA], SNY [IFPA]	
HLMUT	SKEWD	DEN [IFPA], GLL [IFPA], BJC [IFPA], DVV [IFPA], FQF [IFPA]	
SKEWD	LEKEE	DEN [IFPA], GLL [IFPA], BJC [IFPA], DVV [IFPA], FQF [IFPA]	
LEKEE	XCUTV	DEN [IFPA], GLL [IFPA], BJC [IFPA], DVV [IFPA], FQF [IFPA]	
XCUTV	HDGHG	DEN [IFPA], GLL [IFPA], BJC [IFPA], FQF [IFPA]	
HDGHG	FFFAT	DEN [IFPA], GLL [IFPA], BJC [IFPA], DVV [IFPA], FQF [IFPA]	
FFFAT	DOGGG	DEN [IFPA], GLL [IFPA], BJC [IFPA], DVV [IFPA], FQF [IFPA]	

User Data Files								
#	File Name							
None								
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	CYS FAA 704129-13 CYS [IFPA]	N41° 12' 39.48", W104° 46' 22.49"	13.0 E	130	6211	113.1	CYS FAA 704129-13	
ESV:		Bearing [True]: 199.0° to 247.0° Bearing [Mag]: 186.0° to 234.0°				Arc Distance: Out to 99.0 NM Altitude: 13300.0 to 22000.0 ft		

DME DME Assessment Results for LONGZ4 path KAMPR_DOGGG



DME DME Assessment Results for LONGZ4 path LBERT_BYIKE

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Theodore CTR Roller
Project File:	C:\Users\Theodore CTR Roller\Desktop\CO\DEN\32351 DEN-APA\Subpak\FPT\20240903 DEN STARs 32351.tgs
Output File:	C:\Users\Theodore CTR Roller\Desktop\CO\DEN\32351 DEN-APA\Subpak\FPT\LONGZ\KDEN [IFPA] LONGZ4 20240904_1053 MDT\LBERT_BYIKE\KDEN LONGZ4 RNAV STAR LBERT BYIKE 20240904_1053 MDT.pdf
Procedure Name:	LONGZ4
Software: DmeDmePlugin:	7.3.3
Date/Time:	09/04/2024 10:53 MDT
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
LBERT	WP	N40° 08' 50.90", W109° 12' 40.34"	15700	VNAV	280	FLY_BY	TF
TORYS	WP	N40° 24' 17.08", W107° 40' 35.34"	15700	VNAV	280	FLY_BY	TF
BYIKE	WP	N40° 29' 14.01", W106° 31' 50.34"	15700	VNAV	280	FLY_BY	TF

Flyability

Flight Type:	RNAV_STAR
Selected Airport:	KDEN [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 LONGZ4 path LBERT_BYIKE

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

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	DBL	N39° 26' 21.64", W106° 53' 40.85"	12.0 E	130	DH	IFPA	NO	Enabled		
2	MTU	N40° 08' 56.74", W110° 07' 37.30"	14.0 E	130	DH	IFPA	NO	Enabled		
3	EKR	N40° 04' 02.79", W107° 55' 29.82"	15.0 E	130	DH	IFPA	NO	Enabled		
4	RLG	N40° 00' 09.50", W106° 26' 32.96"	14.0 E	130	DH	IFPA	NO	Enabled		
5	VEL	N40° 22' 43.98", W109° 29' 35.82"	15.0 E	40	L	IFPA	NO	Enabled		
6	CHE	N40° 31' 12.29", W107° 18' 17.64"	14.0 E	130	H	IFPA	NO	Enabled		
7	JNC	N39° 03' 34.44", W108° 47' 33.27"	15.0 E	130	DH	IFPA	NO	Enabled		
8	CYS	N41° 12' 39.48", W104° 46' 22.49"	13.0 E	130	H	IFPA	NO	Enabled		
9	FBR	N41° 22' 42.38", W110° 25' 26.62"	14.0 E	130	DH	IFPA	NO	Enabled		
10	BQZ	N40° 27' 49.55", W106° 52' 20.29"	13.0 E	40	L	IFPA	NO	Enabled		

DME DME Assessment Results for LONGZ4 path LBERT_BYIKE

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	MTU [IFPA]	JNC [IFPA]	EKR [IFPA]	VEL [IFPA]		
1.9	MTU [IFPA]	JNC [IFPA]	EKR [IFPA]	FBR [IFPA]	VEL [IFPA]	
18.8	MTU [IFPA]	JNC [IFPA]	EKR [IFPA]	VEL [IFPA]		
25.0	MTU [IFPA]	JNC [IFPA]	EKR [IFPA]			
44.2	EKR [IFPA]	JNC [IFPA]	RLG [IFPA]	MTU [IFPA]		
50.8	EKR [IFPA]	CHE [IFPA]	RLG [IFPA]	JNC [IFPA]	MTU [IFPA]	
73.8	RLG [IFPA]	EKR [IFPA]	JNC [IFPA]	BQZ [IFPA]	CHE [IFPA]	
79.5	JNC [IFPA]	BQZ [IFPA]				
80.1	RLG [IFPA]	EKR [IFPA]	CHE [IFPA]	JNC [IFPA]	BQZ [IFPA]	
81.3						
86.5	CHE [IFPA]	BQZ [IFPA]				
87.1						
87.4	RLG [IFPA]	CHE [IFPA]	DBL [IFPA]	BQZ [IFPA]	EKR [IFPA]	
87.5	DBL [IFPA]	BQZ [IFPA]	EKR [IFPA]	CHE [IFPA]		
88.5	DBL [IFPA]	BQZ [IFPA]	CHE [IFPA]	RLG [IFPA]	EKR [IFPA]	
88.8	CHE [IFPA]	BQZ [IFPA]	DBL [IFPA]	EKR [IFPA]		
103.1	DBL [IFPA]	BQZ [IFPA]	RLG [IFPA]	EKR [IFPA]	CHE [IFPA]	
106.2	RLG [IFPA]	EKR [IFPA]	DBL [IFPA]	CHE [IFPA]		
112.4	DBL [IFPA]	CHE [IFPA]	RLG [IFPA]	EKR [IFPA]	BQZ [IFPA]	
112.9	DBL [IFPA]	CHE [IFPA]	BQZ [IFPA]	RLG [IFPA]		
117.7	RLG [IFPA]	BQZ [IFPA]	CHE [IFPA]	CYS [IFPA]		

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N40° 25' 11.70", W107° 28' 38.15"	N40° 25' 41.70", W107° 21' 56.88"	5.132
2	N40° 25' 45.32", W107° 21' 08.23"	N40° 25' 47.12", W107° 20' 43.91"	0.311

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
LBERT	TORYS	MTU [IFPA], EKR [IFPA], RLG [IFPA], VEL [IFPA], CHE [IFPA], JNC [IFPA], FBR [IFPA], BQZ [IFPA]	
TORYS	BYIKE	DBL [IFPA], MTU [IFPA], EKR [IFPA], RLG [IFPA], CHE [IFPA], JNC [IFPA], CYS [IFPA], BQZ [IFPA]	

User Data Files								
#	File Name							
None								
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	CYS FAA 704129-13 CYS [IFPA]	N41° 12' 39.48", W104° 46' 22.49"	13.0 E	130	6211	113.1	CYS FAA 704129-13	
ESV:		Bearing [True]: 199.0° to 247.0° Bearing [Mag]: 186.0° to 234.0°				Arc Distance: Out to 99.0 NM Altitude: 13300.0 to 22000.0 ft		

DME DME Assessment Results for LONGZ4 path LBERT_BYYKE



DME DME Assessment Results for LONGZ4 path XCUTV_CAPTJ

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMES
Name:	Theodore CTR Roller
Project File:	C:\Users\Theodore CTR Roller\Desktop\CO\DEN\32351 DEN-APA\Subpak\FPT\20240903 DEN STARs 32351.tgs
Output File:	C:\Users\Theodore CTR Roller\Desktop\CO\DEN\32351 DEN-APA\Subpak\FPT\LONGZ\KDEN [IFPA] LONGZ4 20240904_1053 MDT\XCUTV_CAPTJ\KDEN LONGZ4 RNAV STAR XCUTV CAPTJ 20240904_1053 MDT.pdf
Procedure Name:	LONGZ4
Software: DmeDmePlugin:	7.3.3
Date/Time:	09/04/2024 10:53 MDT
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
XCUTV	WP	N39° 58' 10.74", W104° 37' 28.95"	12000	VNAV	250	FLY_BY	TF
CAPTJ	WP	N39° 58' 08.94", W104° 33' 11.12"	11000	VNAV	210	FLY_OVER	TF

Flyability

Flight Type:	RNAV STAR
Selected Airport:	KDEN [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 LONGZ4 path XCUTV_CAPTJ

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

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	DEN	N39° 48' 45.05", W104° 39' 38.66"	8.0 E	130	H	IFPA	NO	Enabled		
2	GLL	N40° 30' 13.92", W104° 33' 10.85"	13.0 E	130	DH	IFPA	NO	Enabled		
3	BJC	N39° 54' 46.94", W105° 08' 20.35"	11.0 E	130	DH	IFPA	NO	Enabled		
4	FQF	N39° 41' 24.50", W104° 37' 15.50"	11.0 E	130	H	IFPA	NO	Enabled		

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0	FQF [IFPA]	BJC [IFPA]	GLL [IFPA]	DEN [IFPA]		

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

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
XCUTV	CAPTJ	DEN [IFPA], GLL [IFPA], BJC [IFPA], FQF [IFPA]	

User Data Files								
#	File Name							
None								
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	CYS FAA 704129-13 CYS [IFPA]	N41° 12' 39.48", W104° 46' 22.49"	13.0 E	130	6211	113.1	CYS FAA 704129-13	
ESV: Bearing [True]: 199.0° to 247.0° Bearing [Mag]: 186.0° to 234.0°						Arc Distance: Out to 99.0 NM Altitude: 13300.0 to 22000.0 ft		

DME DME Assessment Results for LONGZ4 path XCUTV_CAPTJ

