

DME DME Assessment Results for HSKEL4 path KPWM:RW11:DER_BAUER

Results Summary	
Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Kelly J Carlson
Project File:	C:\Users\Kelly J Carlson\OneDrive - Federal Aviation Administration\A-FPT\STATE ME\PWM\HSKEL FOUR DEPARTURE (RNAV)\ME KPWM HSKEL FOUR DEPARTURE (RNAV).tgs
Output File:	C:\Users\Kelly J Carlson\OneDrive - Federal Aviation Administration\A-FPT\STATE ME\PWM\HSKEL FOUR DEPARTURE (RNAV)\DME_DME ASSESSMENTS\KPWM [IFPA] HSKEL4 20250320_0839 CDT\KPWM-RW11-DER_BAUER\KPWM HSKEL4 SID RW11 BAUER 20250320_0839 CDT.pdf
Procedure Name:	HSKEL4
Software: DmeDmePlugin:	7.4.1
Date/Time:	03/20/2025 08:39 CDT
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
KPWM:RW11:DER	WP	N43° 38' 38.5209", W070° 17' 56.3694"	42.2	VNAV	130	FLY_BY	TF
NEW AHRON	WP	N43° 40' 44.1200", W070° 12' 38.8800"	1719	VNAV	200	FLY_BY	TF
NEW LIZLU	WP	N43° 44' 41.4762", W070° 13' 28.1235"	2519	VNAV	200	FLY_BY	TF
MRKEE	WP	N43° 46' 00.8400", W070° 22' 58.4300"	3606	VNAV	200	FLY_BY	TF
ALIEH	WP	N43° 43' 22.8900", W070° 48' 22.8800"	3606	VNAV	200	FLY_BY	TF
HSKEL	WP	N43° 39' 12.8200", W071° 02' 51.8600"	18000	VNAV	240	FLY_BY	TF
BAUER	WP	N43° 23' 14.0800", W072° 28' 50.6200"	18000	VNAV	240	FLY_BY	TF
Climb Gradient: 350.0 ft/NM up to 1300.0 ft MSL 200.0 ft/NM							

DME DME Assessment Results for HSKEL4 path KPWM:RW11:DER_BAUER

Flyability	
Flight Type:	SID
Selected Airport:	KPWM [IFPA]
Climb Gradient:	350.0 ft/NM up to 1300.0 ft MSL 200.0 ft/NM
Speeds:	130 at the Runway DER
	145 at the end of the VA or VI leg
	200 Ground Speed to 11000 FT
	240 Ground Speed to 18000 FT
	260 Ground Speed to 24000 FT
	340 Ground Speed above 24000 FT
Descent During a Turn:	Allowed
VNAV Mode:	Flight Plan

DME/DME	
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:	Enabled
Disabled DMEs:	None

DME DME Assessment Results for HSKEL4 path KPWM:RW11:DER_BAUER

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	BML	N44° 38' 00.7200", W071° 11' 10.2900"	0.0 E	130	H		NO	Enabled	54.7 %	59.7 %
2	CON	N43° 13' 11.2332", W071° 34' 31.6308"	15.0 W	40	L		NO	Enabled	72 %	75 %
3	LWM	N42° 44' 25.5059", W071° 05' 41.4610"	-0.0 E	40	L		NO	Enabled	1.8 %	1.7 %
4	BOS	N42° 21' 26.8197", W070° 59' 22.3742"	16.0 W	130	DH		NO	Enabled	62.7 %	67.1 %
5	LEB	N43° 40' 43.8827", W072° 12' 57.8653"	-0.0 E	40	L		NO	Enabled	42.6 %	46.6 %
6	PSM	N43° 05' 04.0708", W070° 49' 55.1541"	-0.0 E	40	L		NO	Enabled	17.9 %	17.3 %
7	PUT	N41° 57' 19.6572", W071° 50' 38.7414"	14.0 W	130	H		NO	Enabled	32.4 %	35.4 %
8	EEN	N42° 47' 39.4000", W072° 17' 30.4000"	0.0 E	130	H		NO	Enabled	55 %	60 %
9	MPV	N44° 05' 07.7171", W072° 26' 57.7073"	16.0 W	130	DH		NO	Enabled	59.3 %	64 %
10	AUG	N44° 19' 12.0733", W069° 47' 47.6315"	18.0 W	130	DH		NO	Enabled	62.7 %	67.1 %
11	ORW	N41° 33' 23.0534", W071° 59' 57.6719"	14.0 W	130	DH		NO	Enabled	43.3 %	47.3 %
12	MHT	N42° 52' 06.7077", W071° 22' 10.3242"	0.0 E	40	L		NO	Enabled	9.1 %	8.3 %
13	ENE	N43° 25' 32.4197", W070° 36' 48.6917"	17.0 W	130	DH		NO	Enabled	80.6 %	83.3 %
14	LFV	N42° 01' 01.8758", W070° 02' 14.0373"	16.0 W	130	DH		NO	Enabled	47 %	50.5 %
15	PVD	N41° 43' 27.6382", W071° 25' 46.6990"	14.0 W	130	DH		NO	Enabled	58.3 %	63 %

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0						
18.4	CON	ENE				
25.1	CON	ENE	PSM			
25.2	CON	ENE	PSM	MHT		
34.5	CON	ENE	LWM			
36.3	AUG	ENE	BOS			
39.4	AUG	ENE	LFV	BOS		
39.7	AUG	ENE	MPV	BOS	LFV	
95.2	EEN	ENE	LEB	CON	MPV	BML
106.8	MPV	ENE	EEN	BOS	LEB	PUT

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N43° 38' 38.3221", W070° 17' 53.4304"	N43° 45' 39.4861", W070° 26' 27.8888"	18.2931

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
KPWM:RW11:DER	NEW AHRON		
NEW AHRON	NEW LIZLU		
NEW LIZLU	MRKEE		
MRKEE	ALIEH	CON, MHT, PSM, ENE	CON, ENE, MHT, PSM
ALIEH	HSKEL	BML, MPV, CON, LWM, AUG, BOS, PSM, ENE, LFV, PVD, EEN	LWM
HSKEL	BAUER	BML, CON, BOS, LEB, PSM, PUT, EEN, MPV, AUG, ORW, LFV, ENE, PVD	

DME DME Assessment Results for HSKEL4 path KPWM:RW11:DER_BAUER

User Data Files								
#	File Name							
1	New Analysis.udt							
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	LWM 1 LWM	N42° 44' 25.5059", W071° 05' 41.4610"	-0.0 E	40	305.8	112.5	LWM 1	
ESV:		Bearing [True]: 10.0° to 10.0° Bearing [Mag]: 10.0° to 10.0°				Arc Distance: Out to 65.0 NM Altitude: 3900.0 to 18400.0 ft		
2	CON 1 CON	N43° 13' 11.2332", W071° 34' 31.6308"	15.0 W	40	714.5	112.9	CON 1	
ESV:		Bearing [True]: 40.0° to 55.0° Bearing [Mag]: 55.0° to 70.0°				Arc Distance: Out to 51.0 NM Altitude: 3200.0 to 18800.0 ft		
3	CON 5 CON	N43° 13' 11.2332", W071° 34' 31.6308"	15.0 W	40	714.5	112.9	CON 5	
ESV:		Bearing [True]: 42.0° to 67.0° Bearing [Mag]: 57.0° to 82.0°				Arc Distance: Out to 55.0 NM Altitude: 3000.0 to 18800.0 ft		
4	MHT 1 MHT	N42° 52' 06.7077", W071° 22' 10.3242"	0.0 E	40	470.3	114.4	MHT 1	
ESV:		Bearing [True]: 24.0° to 30.0° Bearing [Mag]: 24.0° to 30.0°				Arc Distance: Out to 61.0 NM Altitude: 3500.0 to 18500.0 ft		
5	MHT 4 MHT	N42° 52' 06.7077", W071° 22' 10.3242"	0.0 E	40	470.3	114.4	MHT 4	
ESV:		Bearing [True]: 24.0° to 35.0° Bearing [Mag]: 24.0° to 35.0°				Arc Distance: Out to 61.0 NM Altitude: 3300.0 to 18500.0 ft		
6	CON 4 CON	N43° 13' 11.2332", W071° 34' 31.6308"	15.0 W	40	714.5	112.9	CON 4	
ESV:		Bearing [True]: 43.0° to 60.0° Bearing [Mag]: 58.0° to 75.0°				Arc Distance: Out to 61.0 NM Altitude: 3500.0 to 18800.0 ft		
7	LWM 3 LWM	N42° 44' 25.5059", W071° 05' 41.4610"	-0.0 E	40	305.8	112.5	LWM 3	
ESV:		Bearing [True]: 8.0° to 15.0° Bearing [Mag]: 8.0° to 15.0°				Arc Distance: Out to 64.0 NM Altitude: 3500.0 to 18400.0 ft		
8	MHT 2 MHT	N42° 52' 06.7077", W071° 22' 10.3242"	0.0 E	40	470.3	114.4	MHT 2	
ESV:		Bearing [True]: 23.0° to 36.0° Bearing [Mag]: 23.0° to 36.0°				Arc Distance: Out to 66.0 NM Altitude: 3600.0 to 18500.0 ft		
9	LWM 4 LWM	N42° 44' 25.5059", W071° 05' 41.4610"	-0.0 E	40	305.8	112.5	LWM 4	
ESV:		Bearing [True]: 11.0° to 11.0° Bearing [Mag]: 11.0° to 11.0°				Arc Distance: Out to 65.0 NM Altitude: 3800.0 to 18400.0 ft		
10	ESV CON [IFPA] CON	N43° 13' 11.2332", W071° 34' 31.6308"	15.0 W	40	714.5	112.9	ESV CON [IFPA]	
ESV:		Bearing [True]: 35.0° to 95.0° Bearing [Mag]: 50.0° to 110.0°				Arc Distance: Out to 72.0 NM Altitude: 5000.0 to 18000.0 ft		
11	PSM PSM	N43° 05' 04.0708", W070° 49' 55.1541"	-0.0 E	40	107.5	116.5	PSM	
ESV:		Bearing [True]: 0.0° to 17.0° Bearing [Mag]: 0.0° to 17.0°				Arc Distance: Out to 45.0 NM Altitude: 3000.0 to 18200.0 ft		



DME DME Assessment Results for HSKEL4 path KPWM:RW18:DER_ALIEH

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Kelly J Carlson
Project File:	C:\Users\Kelly J Carlson\OneDrive - Federal Aviation Administration\A-FPT\STATE ME\PWM\HSKEL FOUR DEPARTURE (RNAV)\ME KPWM HSKEL FOUR DEPARTURE (RNAV).tgs
Output File:	C:\Users\Kelly J Carlson\OneDrive - Federal Aviation Administration\A-FPT\STATE ME\PWM\HSKEL FOUR DEPARTURE (RNAV)\DME_DME ASSESSMENTS\KPWM [IFPA] HSKEL4 20250320_0839 CDT\KPWM-RW18-DER_ALIEH\KPWM HSKEL4 SID RW18 ALIEH 20250320_0839 CDT.pdf
Procedure Name:	HSKEL4
Software: DmeDmePlugin:	7.4.1
Date/Time:	03/20/2025 08:39 CDT
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
KPWM:RW18:DER	WP	N43° 38' 18.4236", W070° 18' 02.3920"	44.3	VNAV	130	FLY_BY	TF
SRFRS	WP	N43° 30' 12.6675", W070° 22' 14.2087"	3286.9	VNAV	200	FLY_BY	TF
ALIEH	WP	N43° 43' 22.8900", W070° 48' 22.8800"	3606	VNAV	200	FLY_BY	TF
Climb Gradient: 350.0 ft/NM up to 1300.0 ft MSL 200.0 ft/NM							

Flyability

Flight Type:	SID
Selected Airport:	KPWM [IFPA]
Climb Gradient:	350.0 ft/NM up to 1300.0 ft MSL 200.0 ft/NM
Speeds:	130 at the Runway DER
	145 at the end of the VA or VI leg
	200 Ground Speed to 11000 FT
	240 Ground Speed to 18000 FT
	260 Ground Speed to 24000 FT
	340 Ground Speed above 24000 FT
Descent During a Turn:	Allowed
VNAV Mode:	Flight Plan

DME DME Assessment Results for HSKEL4 path KPWM:RW18:DER_ALIEH

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:	Enabled
Disabled DMEs:	None

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	CON	N43° 13' 11.2332", W071° 34' 31.6308"	15.0 W	40	L		NO	Enabled	38.7 %	43.5 %
2	LWM	N42° 44' 25.5059", W071° 05' 41.4610"	-0.0 E	40	L		NO	Enabled	4.8 %	5.4 %
3	MHT	N42° 52' 06.7077", W071° 22' 10.3242"	0.0 E	40	L		NO	Enabled	23.2 %	26.1 %
4	PSM	N43° 05' 04.0708", W070° 49' 55.1541"	-0.0 E	40	L		NO	Enabled	35 %	39.3 %
5	ENE	N43° 25' 32.4197", W070° 36' 48.6917"	17.0 W	130	DH		NO	Enabled	38.7 %	43.5 %

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0						
19.6	CON	ENE	PSM			
25.6	CON	ENE	PSM	MHT		
32.8	CON	ENE	MHT	PSM	LWM	
33.3	CON	ENE	MHT	LWM		
34.6	CON	ENE	MHT	PSM	LWM	

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N43° 38' 16.3625", W070° 18' 01.5357"	N43° 34' 48.1261", W070° 31' 18.3763"	19.522

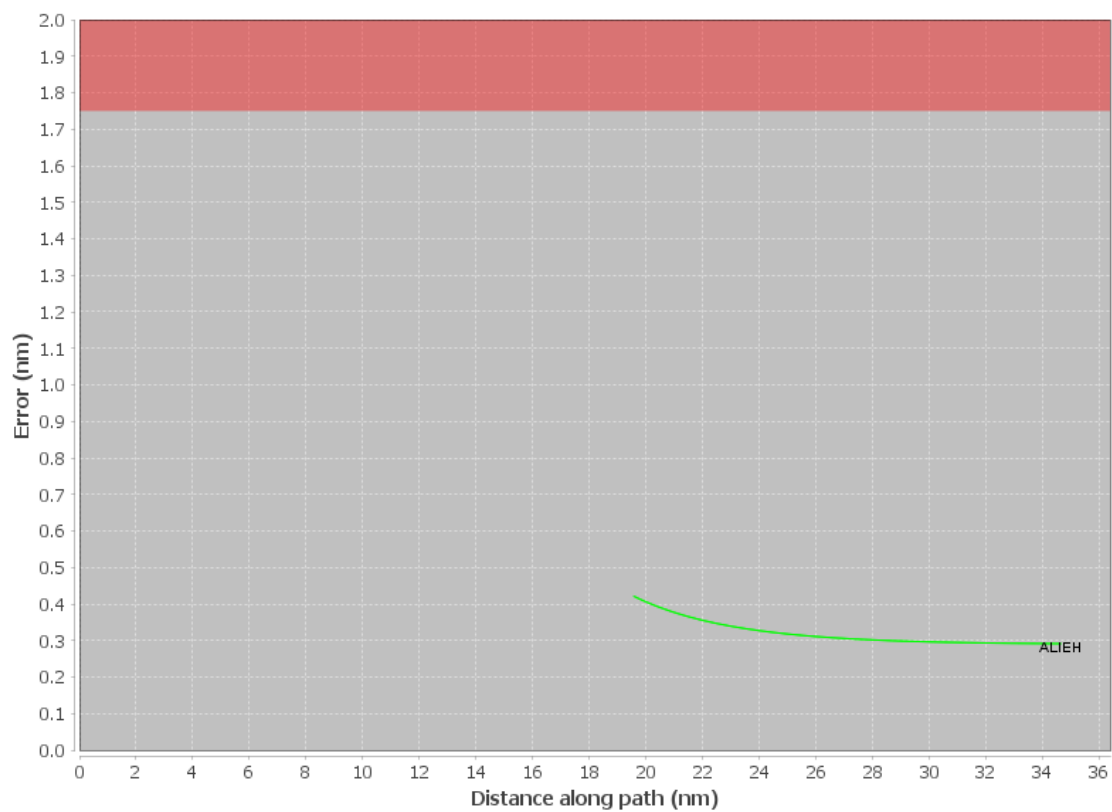
Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
KPWM:RW18:DER	SRFRS		
SRFRS	ALIEH	CON, LWM, MHT, PSM, ENE	CON, ENE, LWM, MHT, PSM

DME DME Assessment Results for HSKEL4 path KPWM:RW18:DER_ALIEH

User Data Files								
#	File Name							
1	New Analysis.udt							
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	LWM 1 LWM	N42° 44' 25.5059", W071° 05' 41.4610"	-0.0 E	40	305.8	112.5	LWM 1	
ESV:		Bearing [True]: 10.0° to 10.0° Bearing [Mag]: 10.0° to 10.0°				Arc Distance: Out to 65.0 NM Altitude: 3900.0 to 18400.0 ft		
2	CON 1 CON	N43° 13' 11.2332", W071° 34' 31.6308"	15.0 W	40	714.5	112.9	CON 1	
ESV:		Bearing [True]: 40.0° to 55.0° Bearing [Mag]: 55.0° to 70.0°				Arc Distance: Out to 51.0 NM Altitude: 3200.0 to 18800.0 ft		
3	CON 5 CON	N43° 13' 11.2332", W071° 34' 31.6308"	15.0 W	40	714.5	112.9	CON 5	
ESV:		Bearing [True]: 42.0° to 67.0° Bearing [Mag]: 57.0° to 82.0°				Arc Distance: Out to 55.0 NM Altitude: 3000.0 to 18800.0 ft		
4	MHT 1 MHT	N42° 52' 06.7077", W071° 22' 10.3242"	0.0 E	40	470.3	114.4	MHT 1	
ESV:		Bearing [True]: 24.0° to 30.0° Bearing [Mag]: 24.0° to 30.0°				Arc Distance: Out to 61.0 NM Altitude: 3500.0 to 18500.0 ft		
5	MHT 4 MHT	N42° 52' 06.7077", W071° 22' 10.3242"	0.0 E	40	470.3	114.4	MHT 4	
ESV:		Bearing [True]: 24.0° to 35.0° Bearing [Mag]: 24.0° to 35.0°				Arc Distance: Out to 61.0 NM Altitude: 3300.0 to 18500.0 ft		
6	CON 4 CON	N43° 13' 11.2332", W071° 34' 31.6308"	15.0 W	40	714.5	112.9	CON 4	
ESV:		Bearing [True]: 43.0° to 60.0° Bearing [Mag]: 58.0° to 75.0°				Arc Distance: Out to 61.0 NM Altitude: 3500.0 to 18800.0 ft		
7	LWM 3 LWM	N42° 44' 25.5059", W071° 05' 41.4610"	-0.0 E	40	305.8	112.5	LWM 3	
ESV:		Bearing [True]: 8.0° to 15.0° Bearing [Mag]: 8.0° to 15.0°				Arc Distance: Out to 64.0 NM Altitude: 3500.0 to 18400.0 ft		
8	MHT 2 MHT	N42° 52' 06.7077", W071° 22' 10.3242"	0.0 E	40	470.3	114.4	MHT 2	
ESV:		Bearing [True]: 23.0° to 36.0° Bearing [Mag]: 23.0° to 36.0°				Arc Distance: Out to 66.0 NM Altitude: 3600.0 to 18500.0 ft		
9	LWM 4 LWM	N42° 44' 25.5059", W071° 05' 41.4610"	-0.0 E	40	305.8	112.5	LWM 4	
ESV:		Bearing [True]: 11.0° to 11.0° Bearing [Mag]: 11.0° to 11.0°				Arc Distance: Out to 65.0 NM Altitude: 3800.0 to 18400.0 ft		
10	ESV CON [IFPA] CON	N43° 13' 11.2332", W071° 34' 31.6308"	15.0 W	40	714.5	112.9	ESV CON [IFPA]	
ESV:		Bearing [True]: 35.0° to 95.0° Bearing [Mag]: 50.0° to 110.0°				Arc Distance: Out to 72.0 NM Altitude: 5000.0 to 18000.0 ft		
11	PSM PSM	N43° 05' 04.0708", W070° 49' 55.1541"	-0.0 E	40	107.5	116.5	PSM	
ESV:		Bearing [True]: 0.0° to 17.0° Bearing [Mag]: 0.0° to 17.0°				Arc Distance: Out to 45.0 NM Altitude: 3000.0 to 18200.0 ft		

DME DME Assessment Results for HSKEL4 path KPWM:RW18:DER_ALIEH

DME Error



DME DME Assessment Results for HSKEL4 path KPWM:RW29:DER_ALIEH

Results Summary

Flyability:	Completed
DME/DME:	Completed - No Critical DMEs
Name:	Kelly J Carlson
Project File:	C:\Users\Kelly J Carlson\OneDrive - Federal Aviation Administration\A-FPT\STATE ME\PWM\HSKEL FOUR DEPARTURE (RNAV)\ME KPWM HSKEL FOUR DEPARTURE (RNAV).tgs
Output File:	C:\Users\Kelly J Carlson\OneDrive - Federal Aviation Administration\A-FPT\STATE ME\PWM\HSKEL FOUR DEPARTURE (RNAV)\DME_DME ASSESSMENTS\KPWM [IFPA] HSKEL4 20250320_0839 CDT\KPWM-RW29-DER_ALIEH\KPWM HSKEL4 SID RW29 ALIEH 20250320_0839 CDT.pdf
Procedure Name:	HSKEL4
Software: DmeDmePlugin:	7.4.1
Date/Time:	03/20/2025 08:39 CDT
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
KPWM:RW29:DER	WP	N43° 38' 45.1032", W070° 19' 33.8651"	75.7	VNAV	130	FLY_BY	TF
ALIEH	WP	N43° 43' 22.8900", W070° 48' 22.8800"	3606	VNAV	200	FLY_BY	TF
Climb Gradient: 350.0 ft/NM up to 1300.0 ft MSL 200.0 ft/NM							

Flyability

Flight Type:	SID
Selected Airport:	KPWM [IFPA]
Climb Gradient:	350.0 ft/NM up to 1300.0 ft MSL 200.0 ft/NM
Speeds:	130 at the Runway DER
	145 at the end of the VA or VI leg
	200 Ground Speed to 11000 FT
	240 Ground Speed to 18000 FT
	260 Ground Speed to 24000 FT
	340 Ground Speed above 24000 FT
Descent During a Turn:	Allowed
VNAV Mode:	Flight Plan

DME DME Assessment Results for HSKEL4 path KPWM:RW29:DER_ALIEH

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:	Enabled
Disabled DMEs:	None

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	CON	N43° 13' 11.2332", W071° 34' 31.6308"	15.0 W	40	L		NO	Enabled	30.7 %	32.5 %
2	MHT	N42° 52' 06.7077", W071° 22' 10.3242"	0.0 E	40	L		NO	Enabled	3.9 %	5 %
3	PSM	N43° 05' 04.0708", W070° 49' 55.1541"	-0.0 E	40	L		NO	Enabled	30.7 %	32.5 %
4	ENE	N43° 25' 32.4197", W070° 36' 48.6917"	17.0 W	130	DH		NO	Enabled	30.7 %	32.5 %

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0						
14.5	CON	ENE	PSM			
20.4	CON	ENE	MHT	PSM		

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N43° 38' 45.3031", W070° 19' 36.8324"	N43° 41' 31.1939", W070° 39' 05.4359"	14.4423

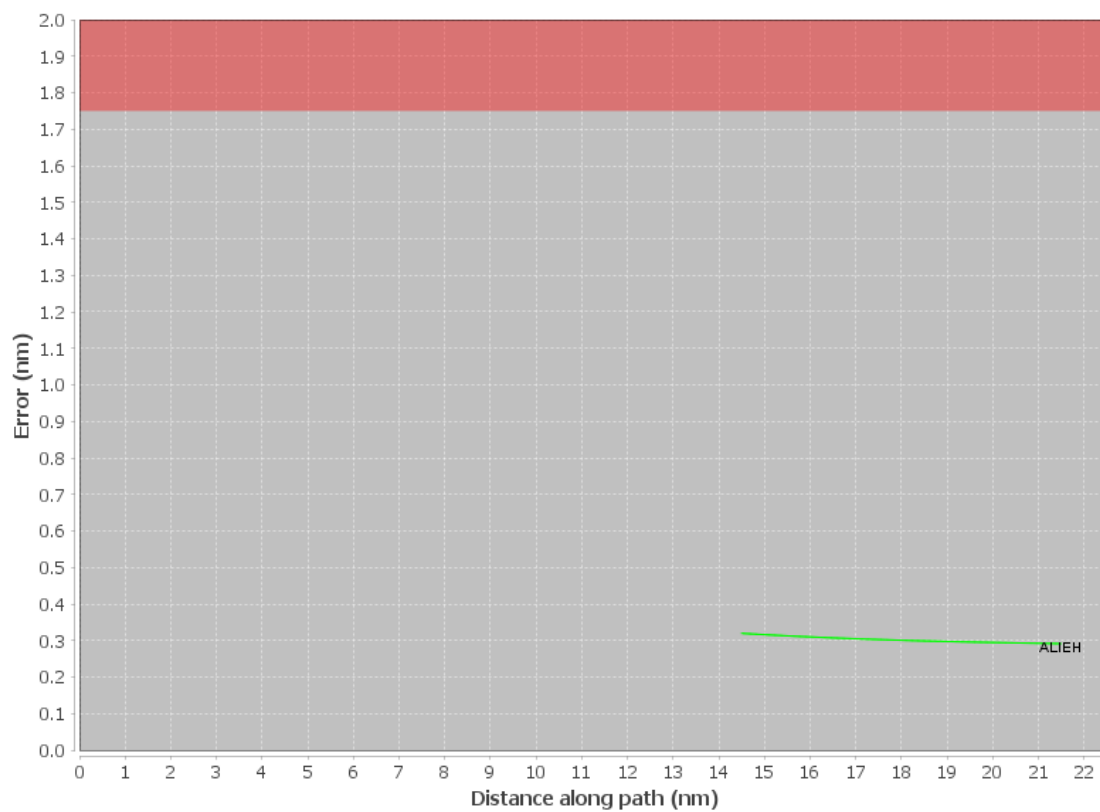
Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
KPWM:RW29:DER	ALIEH	CON, MHT, PSM, ENE	

DME DME Assessment Results for HSKEL4 path KPWM:RW29:DER_ALIEH

User Data Files								
#	File Name							
1	New Analysis.udt							
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	LWM 1 LWM	N42° 44' 25.5059", W071° 05' 41.4610"	-0.0 E	40	305.8	112.5	LWM 1	
ESV:		Bearing [True]: 10.0° to 10.0° Bearing [Mag]: 10.0° to 10.0°				Arc Distance: Out to 65.0 NM Altitude: 3900.0 to 18400.0 ft		
2	CON 1 CON	N43° 13' 11.2332", W071° 34' 31.6308"	15.0 W	40	714.5	112.9	CON 1	
ESV:		Bearing [True]: 40.0° to 55.0° Bearing [Mag]: 55.0° to 70.0°				Arc Distance: Out to 51.0 NM Altitude: 3200.0 to 18800.0 ft		
3	CON 5 CON	N43° 13' 11.2332", W071° 34' 31.6308"	15.0 W	40	714.5	112.9	CON 5	
ESV:		Bearing [True]: 42.0° to 67.0° Bearing [Mag]: 57.0° to 82.0°				Arc Distance: Out to 55.0 NM Altitude: 3000.0 to 18800.0 ft		
4	MHT 1 MHT	N42° 52' 06.7077", W071° 22' 10.3242"	0.0 E	40	470.3	114.4	MHT 1	
ESV:		Bearing [True]: 24.0° to 30.0° Bearing [Mag]: 24.0° to 30.0°				Arc Distance: Out to 61.0 NM Altitude: 3500.0 to 18500.0 ft		
5	MHT 4 MHT	N42° 52' 06.7077", W071° 22' 10.3242"	0.0 E	40	470.3	114.4	MHT 4	
ESV:		Bearing [True]: 24.0° to 35.0° Bearing [Mag]: 24.0° to 35.0°				Arc Distance: Out to 61.0 NM Altitude: 3300.0 to 18500.0 ft		
6	CON 4 CON	N43° 13' 11.2332", W071° 34' 31.6308"	15.0 W	40	714.5	112.9	CON 4	
ESV:		Bearing [True]: 43.0° to 60.0° Bearing [Mag]: 58.0° to 75.0°				Arc Distance: Out to 61.0 NM Altitude: 3500.0 to 18800.0 ft		
7	LWM 3 LWM	N42° 44' 25.5059", W071° 05' 41.4610"	-0.0 E	40	305.8	112.5	LWM 3	
ESV:		Bearing [True]: 8.0° to 15.0° Bearing [Mag]: 8.0° to 15.0°				Arc Distance: Out to 64.0 NM Altitude: 3500.0 to 18400.0 ft		
8	MHT 2 MHT	N42° 52' 06.7077", W071° 22' 10.3242"	0.0 E	40	470.3	114.4	MHT 2	
ESV:		Bearing [True]: 23.0° to 36.0° Bearing [Mag]: 23.0° to 36.0°				Arc Distance: Out to 66.0 NM Altitude: 3600.0 to 18500.0 ft		
9	LWM 4 LWM	N42° 44' 25.5059", W071° 05' 41.4610"	-0.0 E	40	305.8	112.5	LWM 4	
ESV:		Bearing [True]: 11.0° to 11.0° Bearing [Mag]: 11.0° to 11.0°				Arc Distance: Out to 65.0 NM Altitude: 3800.0 to 18400.0 ft		
10	ESV CON [IFPA] CON	N43° 13' 11.2332", W071° 34' 31.6308"	15.0 W	40	714.5	112.9	ESV CON [IFPA]	
ESV:		Bearing [True]: 35.0° to 95.0° Bearing [Mag]: 50.0° to 110.0°				Arc Distance: Out to 72.0 NM Altitude: 5000.0 to 18000.0 ft		
11	PSM PSM	N43° 05' 04.0708", W070° 49' 55.1541"	-0.0 E	40	107.5	116.5	PSM	
ESV:		Bearing [True]: 0.0° to 17.0° Bearing [Mag]: 0.0° to 17.0°				Arc Distance: Out to 45.0 NM Altitude: 3000.0 to 18200.0 ft		

DME DME Assessment Results for HSKEL4 path KPWM:RW29:DER_ALIEH

DME Error



DME DME Assessment Results for HSKEL4 path KPWM:RW36:DER_ALIEH

Results Summary

Flyability:	Completed
DME/DME:	Completed - 1 Critical DMES: CON
Name:	Kelly J Carlson
Project File:	C:\Users\Kelly J Carlson\OneDrive - Federal Aviation Administration\A-FPT\STATE ME\PWM\HSKEL FOUR DEPARTURE (RNAV)\ME KPWM HSKEL FOUR DEPARTURE (RNAV).tgs
Output File:	C:\Users\Kelly J Carlson\OneDrive - Federal Aviation Administration\A-FPT\STATE ME\PWM\HSKEL FOUR DEPARTURE (RNAV)\DME_DME ASSESSMENTS\KPWM [IFPA] HSKEL4 20250320_0839 CDT\KPWM-RW36-DER_ALIEH\KPWM HSKEL4 SID RW36 ALIEH 20250320_0839 CDT.pdf
Procedure Name:	HSKEL4
Software: DmeDmePlugin:	7.4.1
Date/Time:	03/20/2025 08:39 CDT
Databases:	MITRE 3DEP 3 arcsec

Failures

No Failures

Warnings

EXCEEDED_DRIFT_TIME CON is critical

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
KPWM:RW36:DER	WP	N43° 39' 16.1036", W070° 18' 26.3497"	44.8	VNAV	130	FLY_BY	TF
ALIEH	WP	N43° 43' 22.8900", W070° 48' 22.8800"	3606	VNAV	200	FLY_BY	TF
Climb Gradient: 350.0 ft/NM up to 1300.0 ft MSL 200.0 ft/NM							

Flyability

Flight Type:	SID
Selected Airport:	KPWM [IFPA]
Climb Gradient:	350.0 ft/NM up to 1300.0 ft MSL 200.0 ft/NM
Speeds:	130 at the Runway DER
	145 at the end of the VA or VI leg
	200 Ground Speed to 11000 FT
	240 Ground Speed to 18000 FT
	260 Ground Speed to 24000 FT
	340 Ground Speed above 24000 FT
Descent During a Turn:	Allowed
VNAV Mode:	Flight Plan

DME DME Assessment Results for HSKEL4 path KPWM:RW36:DER_ALIEH

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:	Enabled
Disabled DMEs:	None

DME/DME (Continued)										
DMEs Used										
#	Name	Lat/Lon	MAGVAR	Range	Type	Source	Critical	Status	Time	Distance
1	CON	N43° 13' 11.2332", W071° 34' 31.6308"	15.0 W	40	L		YES	Enabled	30.7 %	32.2 %
2	MHT	N42° 52' 06.7077", W071° 22' 10.3242"	0.0 E	40	L		NO	Enabled	2.6 %	3.2 %
3	PSM	N43° 05' 04.0708", W070° 49' 55.1541"	-0.0 E	40	L		NO	Enabled	30.7 %	32.2 %
4	ENE	N43° 25' 32.4197", W070° 36' 48.6917"	17.0 W	130	DH		NO	Enabled	30.7 %	32.2 %

Flight Check DME Selection						
Distance [NM]	Selected DMEs					Alternate
0.0						
17.7	CON	ENE	PSM			
24.8	CON	ENE	MHT	PSM		
25.6	CON	ENE	PSM			
26.0	CON	ENE	MHT	PSM		

Inertial Drift Segments			
#	Start Location	End Location	Length [NM]
1	N43° 39' 18.1640", W070° 18' 27.2054"	N43° 44' 05.9123", W070° 36' 49.7489"	17.6353

Available DMEs by Waypoints			
Waypoint Before	Waypoint After	DME List	Suggested DMEs
KPWM:RW36:DER	ALIEH	CON, MHT, PSM, ENE	CON, ENE, MHT, PSM

DME DME Assessment Results for HSKEL4 path KPWM:RW36:DER_ALIEH

User Data Files								
#	File Name							
1	New Analysis.udt							
User DMEs								
#	Name	Lat/Lon	MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	LWM 1 LWM	N42° 44' 25.5059", W071° 05' 41.4610"	-0.0 E	40	305.8	112.5	LWM 1	
ESV:		Bearing [True]: 10.0° to 10.0° Bearing [Mag]: 10.0° to 10.0°				Arc Distance: Out to 65.0 NM Altitude: 3900.0 to 18400.0 ft		
2	CON 1 CON	N43° 13' 11.2332", W071° 34' 31.6308"	15.0 W	40	714.5	112.9	CON 1	
ESV:		Bearing [True]: 40.0° to 55.0° Bearing [Mag]: 55.0° to 70.0°				Arc Distance: Out to 51.0 NM Altitude: 3200.0 to 18800.0 ft		
3	CON 5 CON	N43° 13' 11.2332", W071° 34' 31.6308"	15.0 W	40	714.5	112.9	CON 5	
ESV:		Bearing [True]: 42.0° to 67.0° Bearing [Mag]: 57.0° to 82.0°				Arc Distance: Out to 55.0 NM Altitude: 3000.0 to 18800.0 ft		
4	MHT 1 MHT	N42° 52' 06.7077", W071° 22' 10.3242"	0.0 E	40	470.3	114.4	MHT 1	
ESV:		Bearing [True]: 24.0° to 30.0° Bearing [Mag]: 24.0° to 30.0°				Arc Distance: Out to 61.0 NM Altitude: 3500.0 to 18500.0 ft		
5	MHT 4 MHT	N42° 52' 06.7077", W071° 22' 10.3242"	0.0 E	40	470.3	114.4	MHT 4	
ESV:		Bearing [True]: 24.0° to 35.0° Bearing [Mag]: 24.0° to 35.0°				Arc Distance: Out to 61.0 NM Altitude: 3300.0 to 18500.0 ft		
6	CON 4 CON	N43° 13' 11.2332", W071° 34' 31.6308"	15.0 W	40	714.5	112.9	CON 4	
ESV:		Bearing [True]: 43.0° to 60.0° Bearing [Mag]: 58.0° to 75.0°				Arc Distance: Out to 61.0 NM Altitude: 3500.0 to 18800.0 ft		
7	LWM 3 LWM	N42° 44' 25.5059", W071° 05' 41.4610"	-0.0 E	40	305.8	112.5	LWM 3	
ESV:		Bearing [True]: 8.0° to 15.0° Bearing [Mag]: 8.0° to 15.0°				Arc Distance: Out to 64.0 NM Altitude: 3500.0 to 18400.0 ft		
8	MHT 2 MHT	N42° 52' 06.7077", W071° 22' 10.3242"	0.0 E	40	470.3	114.4	MHT 2	
ESV:		Bearing [True]: 23.0° to 36.0° Bearing [Mag]: 23.0° to 36.0°				Arc Distance: Out to 66.0 NM Altitude: 3600.0 to 18500.0 ft		
9	LWM 4 LWM	N42° 44' 25.5059", W071° 05' 41.4610"	-0.0 E	40	305.8	112.5	LWM 4	
ESV:		Bearing [True]: 11.0° to 11.0° Bearing [Mag]: 11.0° to 11.0°				Arc Distance: Out to 65.0 NM Altitude: 3800.0 to 18400.0 ft		
10	ESV CON [IFPA] CON	N43° 13' 11.2332", W071° 34' 31.6308"	15.0 W	40	714.5	112.9	ESV CON [IFPA]	
ESV:		Bearing [True]: 35.0° to 95.0° Bearing [Mag]: 50.0° to 110.0°				Arc Distance: Out to 72.0 NM Altitude: 5000.0 to 18000.0 ft		
11	PSM PSM	N43° 05' 04.0708", W070° 49' 55.1541"	-0.0 E	40	107.5	116.5	PSM	
ESV:		Bearing [True]: 0.0° to 17.0° Bearing [Mag]: 0.0° to 17.0°				Arc Distance: Out to 45.0 NM Altitude: 3000.0 to 18200.0 ft		

DME DME Assessment Results for HSKEL4 path KPWM:RW36:DER_ALIEH

DME Error

