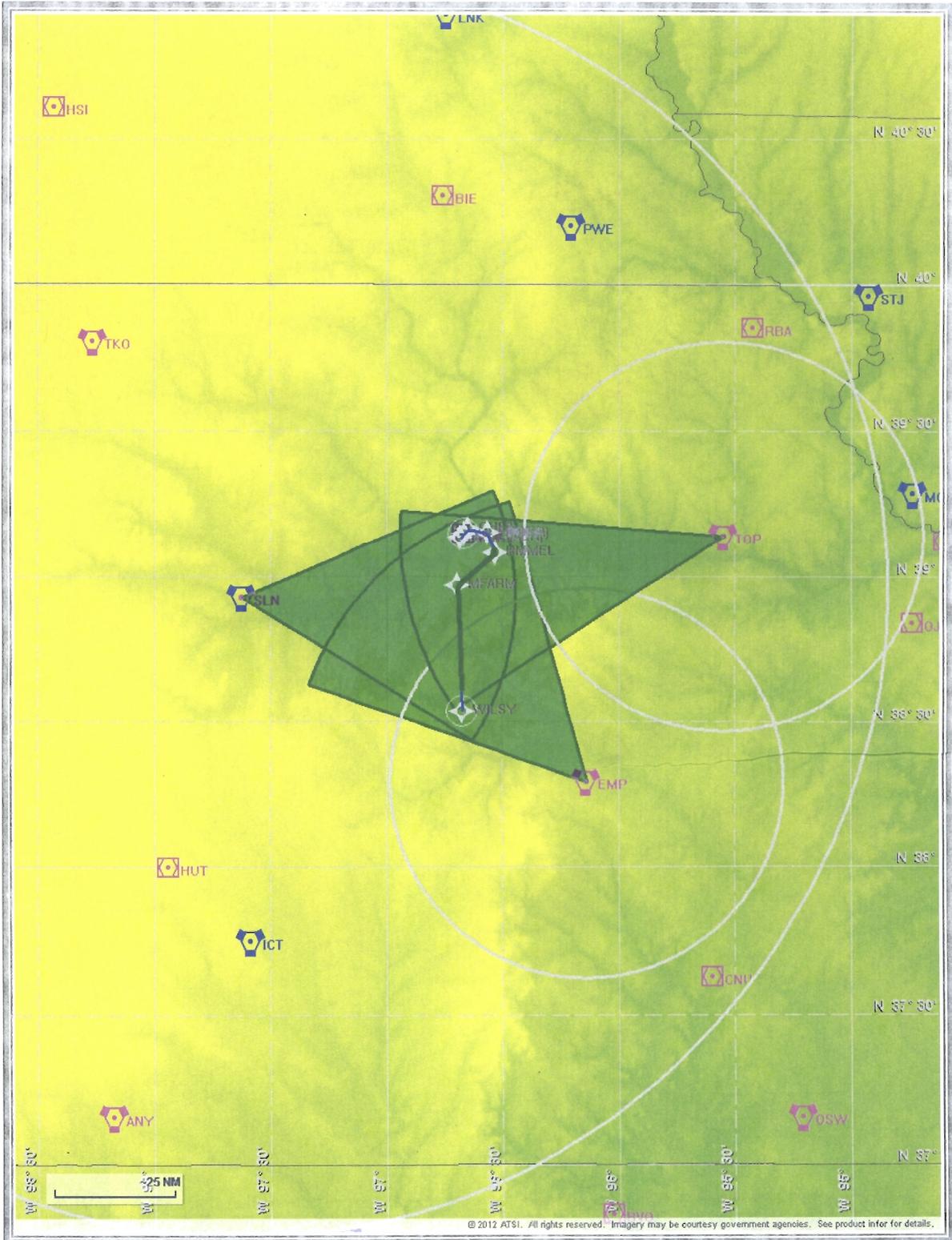


Name: enanders
Project Name:
Software: RNAV-Pro™
Version: 2.35
Date/Time: 4/17/2012 12:18:35 PM
Input File: WILSY RW03 WILSY 201...
Databases: AVNIS Date: 02/07/2012
NFD Date: 07/02/2009
DTED® (MAX) Date: 2002

Results Summary:

- Flyability Please Check Flyability Results
- DME/DME
- Radars
- Comms
- TERPS



Flight Plan			Return To Summary				
Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW03(A...	WP	N 39° 7' 53.58" W 96° 40' 48.74"	1055.9	VNAV	0.0	Fly By	TF
RW21(D...	WP	N 39° 8' 46.65" W 96° 39' 51.74"	1078.3	VNAV	130.0	Fly Over	VI
GH03:	WP	N 39° 9' 36.86" W 96° 38' 57.76"	1580.0	VNAV	145.0	Fly By	CF - 99.8°
FUQUA	WP	N 39° 8' 55.00" W 96° 33' 48.90"	2393.4	VNAV	180.0	Fly By	TF
HIMMEL	WP	N 39° 4' 40.66" W 96° 31' 51.89"	3293.2	VNAV	180.0	Fly By	TF
MFARM	WP	N 38° 58' 1.30" W 96° 41' 34.90"	4000.0	VNAV	180.0	Fly By	TF
WILSY	WP	N 38° 32' 10.24" W 96° 40' 23.53"	4000.0	VNAV	180.0	Fly Over	TF

Flyability

[Return To Summary](#)

Settings:

Flight Type: Departure
Selected Airport: KMHK
Aircraft Category: Cat D
Climb Gradient: *None assigned*
Ground Speeds:
Departure: 120.0 Kts out to 10.0 NM
Table:
200.0 Kts up to 29000.0 Ft.
280.0 Kts up to 99900.0 Ft.
Wind Settings: *None assigned*
Descent During a Turn: Allowed
VNAV Mode: Flight Plan

Flight Track comes into contact with terrain. Minimum AGL along route was -109.38 Ft.
Flight Track contacted terrain (DTED lvl 0 max) between AER and DER or within 2/3 NM of DER.

DME/DME

[Return To Summary](#)

Settings:

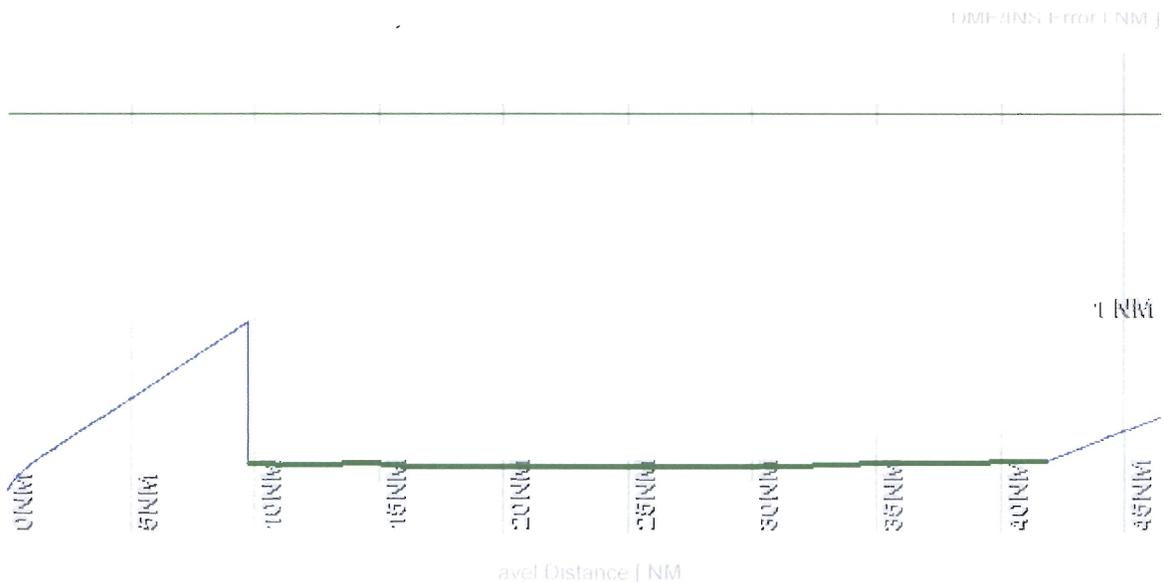
- RNP: 2.0
- Flight Mode: Manual
- Line of Sight (DTED Level 0 Max): Evaluated
- DME Restrictions: Evaluated
- Inertial Drift: Enabled
 - Initial Drift: 0.165 NM
 - INS Drift Rate: 8.000 NM/Hour
- Range Mode: OSV
- Co-Frequencies: Evaluated
- RNP Edges: Evaluated
- Min DME Range: 3.0 NM
- Allowed Gap Length: 4.0 NM
- DME Types: VOR/DME , VORTAC , TACAN , and User
- DME Include Angles: 30 to 150
- Critical DMEs: Allowed
- DoD Facilities: Not included
- Foreign Facilities: Not included
- Low & Terminal DMEs: Included
- Flight Check DMEs: Selected
- Higher Altitudes: Evaluated
- Near Maximum Altitude: Evaluated
- Minimum MSL DMEs Avail: 3047 Ft.

Total Number of DMEs Used: 4

Maximum DME Error: 0.874 NM.

No Critical DMEs were found.

Available DMEs: MHK, TOP, EMP, SLN



DME/DME (Continued.) [Return To Summary](#)

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	EMP	N 38° 17' 28.12" W 96° 8' 17.22"	L + ESV	User	NO	0.936	Enabled	25.5 %	27.1 %
2	TOP	N 39° 8' 13.60" W 95° 32' 56.80"	L + ESV	User	NO	0.947	Enabled	22.2 %	25.3 %
3	SLN	N 38° 55' 30.54" W 97° 37' 16.91"	H + ESV	User	NO	0.874	Enabled	38.0 %	43.9 %
4	MHK	N 39° 8' 43.59" W 96° 40' 7.40"		Database	NO	0.874	Enabled	34.7 %	42.1 %

Flight Check DME Selection

Distance [NM]	Selected DMEs	Alternate
0.0		
1.2		
1.9	MHK	
5.9	MHK TOP EMP	
10.3	MHK TOP EMP SLN	
19.9	MHK TOP EMP SLN	

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 39° 7' 53.58" W 96° 40' 48.74" VOR: FRI VOR: MHK	N 39° 5' 40.26" W 96° 32' 19.16" Available from N 39° 7' 53.58" W 96° 40' 48.74" to N 39° 5' 40.26" W 96° 32' 19.16" Available from N 39° 7' 53.58" W 96° 40' 48.74" to N 39° 5' 40.26" W 96° 32' 19.16"	9.7
2	N 38° 36' 45.25" W 96° 40' 36.16" VOR: EMP VOR: FRI VOR: MHK	N 38° 32' 11.82" W 96° 40' 23.60" Available from N 38° 36' 45.25" W 96° 40' 36.16" to N 38° 32' 11.82" W 96° 40' 23.60" Available from N 38° 36' 45.25" W 96° 40' 36.16" to N 38° 32' 11.82" W 96° 40' 23.60" Available from N 38° 36' 45.25" W 96° 40' 36.16" to N 38° 32' 11.82" W 96° 40' 23.60"	4.6

DME/DME (Continued.)

[Return To Summary](#)

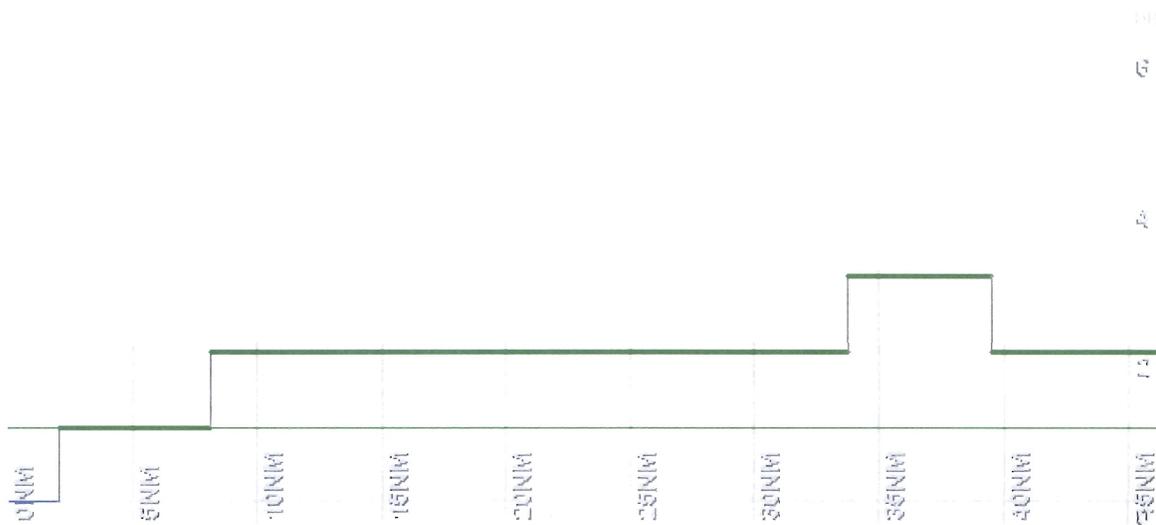
User DMEs

#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	SLN	N 38° 55' 30.54" W 97° 37' 16.91"	H	1310.0	117.10	SLN	Used
		ESV: Bearing [True]: 66.0° to 122.0° Bearing [Mag]: 59.0° to 115.0°				Arc Distance: Out to 55.0 NM Altitude: 3000.0 to 14500.0 Ft.	
2	EMP	N 38° 17' 28.12" W 96° 8' 17.22"	L	1220.0	112.80	EMP	Used
		I SV: Bearing [True]: 290.0° to 345.0° Bearing [Mag]: 282.0° to 337.0°				Arc Distance: Out to 60.0 NM Altitude: 3000.0 to 18000.0 Ft.	
3	TOP	N 39° 8' 13.60" W 95° 32' 56.80"	L	1070.0	117.80	TOP	Used
		ESV: Bearing [True]: 237.0° to 275.0° Bearing [Mag]: 232.0° to 270.0°				Arc Distance: Out to 65.0 NM Altitude: 3000.0 to 18000.0 Ft.	

Radar Analysis

[Return To Summary](#)

Settings: Radar Types: ARSR and ASR

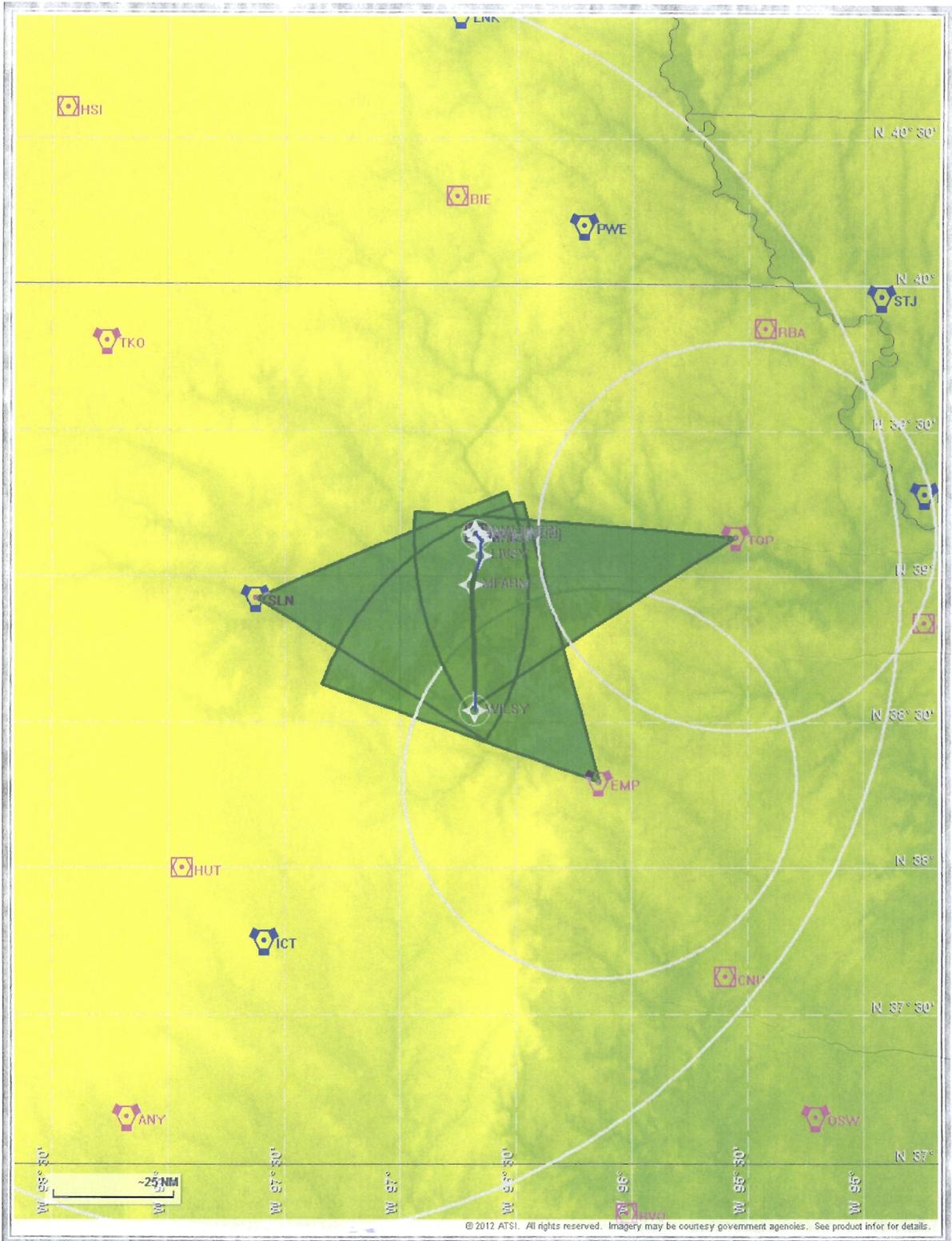




Name: enanders
Project Name:
Software: RNAV-Pro™
Version: 2.35
Date/Time: 4/17/2012 12:22:17 PM
Input File: WILSY RW13 WILSY 201...
Databases: AVNIS Date: 02/07/2012
NFD Date: 07/02/2009
DTED® (MAX) Date: 2002

Results Summary:

- Flyability Please Check Flyability Results
- DME/DME
- Radars
- Comms
- TERPS



Flight Plan					Return To Summary		
Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW13(A...	WP	N 39° 8' 59.63" W 96° 40' 35.43"	1066.0	VNAV	0.0	Fly By	TF
RW31(D...	WP	N 39° 8' 20.58" W 96° 39' 56.55"	1079.6	VNAV	130.0	Fly Over	VI
GH13:	WP	N 39° 7' 29.70" W 96° 39' 5.92"	1580.0	VNAV	145.0	Fly By	CF - 181.2°
LIVSY	WP	N 39° 3' 58.21" W 96° 39' 11.76"	2284.6	VNAV	180.0	Fly By	TF
M.FARM	WP	N 38° 58' 1.30" W 96° 41' 34.90"	3530.0	VNAV	180.0	Fly By	TF
WILSY	WP	N 38° 32' 10.24" W 96° 40' 23.53"	4000.0	VNAV	180.0	Fly Over	TF

Flyability

[Return To Summary](#)

Settings:

Flight Type: Departure
Selected Airport: KMHK
Aircraft Category: Cat D
Climb Gradient: *None assigned*
Ground Speeds:
Departure: 170.0 Kts out to 10.0 NM
Table:
200.0 Kts up to 29000.0 Ft.
280.0 Kts up to 99900.0 Ft.
Wind Settings: *None assigned*
Descent During a Turn: *Allowed*
VNAV Mode: Flight Plan

Required IAS at Fly-By WP MFARM could not be reached with given A/C acceleration performance.

Flight Track comes into contact with terrain. Minimum AGL along route was -42.92 Ft.
Flight Track contacted terrain (DTED M 0 max) between AER and DER or within 2/3 NM of DER.

DME/DME

[Return To Summary](#)

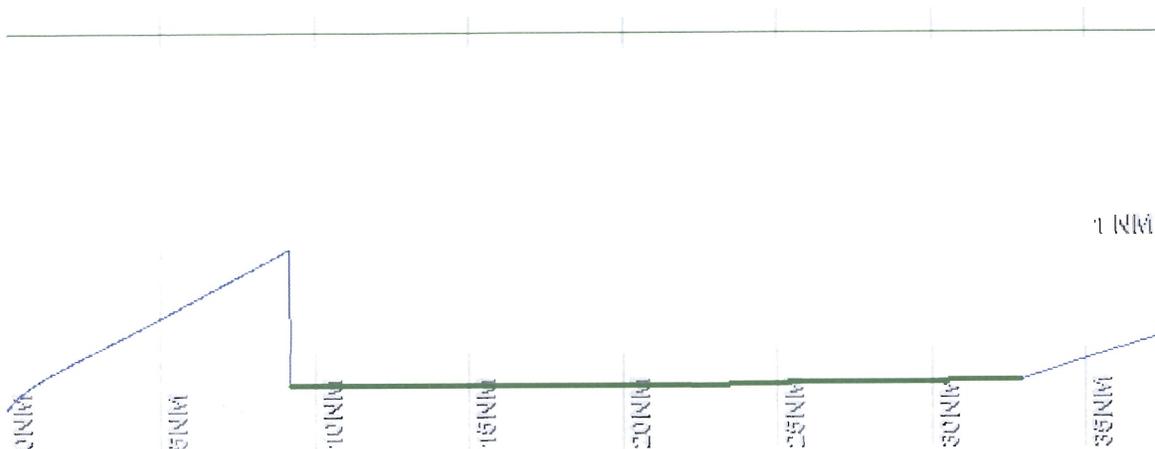
Settings:
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
 Initial Drift: 0.165 NM
 INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: VOR/DME , VORTAC , TACAN , and User
DME Include Angles: 30 to 150
Critical DMEs: Allowed
DoD Facilities: Not included
Foreign Facilities: Not included
Low & Terminal DMEs: Included
Flight Check DMEs: Selected
Higher Altitudes: Evaluated
Near Maximum Altitude: Evaluated
Minimum MSL DMEs Avail: 2994 Ft.

Total Number of DMEs Used: 4

Maximum DME Error: 0.838 NM.

No Critical DMEs were found.

Available DMEs: MHK, SLN, EMP, TOP



DME/DME (Continued.)

[Return To Summary](#)

DMEs Used

#	Name	Lat/Lon	Range	Source	Critical	Dir. [NM]	Status	Time	Distance
1	SLN	N 38° 55' 30.54" W 97° 37' 16.91"	H + ESV	User	NO	0.838	Enabled	38.4 %	43.3 %
2	MHK	N 39° 8' 43.59" W 95° 40' 7.40"	T	Database	NO	0.838	Enabled	38.4 %	43.3 %
3	EMP	N 38° 17' 28.12" W 96° 8' 17.22"	L + ESV	User	NO	0.838	Enabled	15.9 %	20.0 %
4	TOP	N 39° 8' 13.60" W 95° 32' 56.80"	L + ESV	User	NO	0.838	Enabled	15.9 %	20.0 %

Flight Check DME Selection

Distance [NM]	Selected DMEs	Alternate
0.0		
0.8		
1.7	MHK	
5.2	MHK SLN EMP TOP	
11.1	MHK SLN EMP TOP	

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 39° 8' 59.63" W 96° 40' 35.43" VOR: FRI	N 39° 0' 24.68" W 96° 40' 37.37" Available from N 39° 8' 59.63" W 96° 40' 35.43" to N 39° 0' 24.68" W 96° 40' 37.37"	9.1
	VOR: MHK	Available from N 39° 8' 59.63" W 96° 40' 35.43" to N 39° 0' 24.68" W 96° 40' 37.37"	
2	N 38° 36' 45.15" W 96° 40' 36.07" VOR: EMP	N 38° 32' 11.72" W 96° 40' 23.59" Available from N 38° 36' 45.15" W 96° 40' 36.07" to N 38° 32' 11.72" W 96° 40' 23.59"	4.6
	VOR: FRI	Available from N 38° 36' 45.15" W 96° 40' 36.07" to N 38° 32' 11.72" W 96° 40' 23.59"	
	VOR: MHK	Available from N 38° 36' 45.15" W 96° 40' 36.07" to N 38° 32' 11.72" W 96° 40' 23.59"	

DME/DME (Continued.)

[Return To Summary](#)

User DMEs

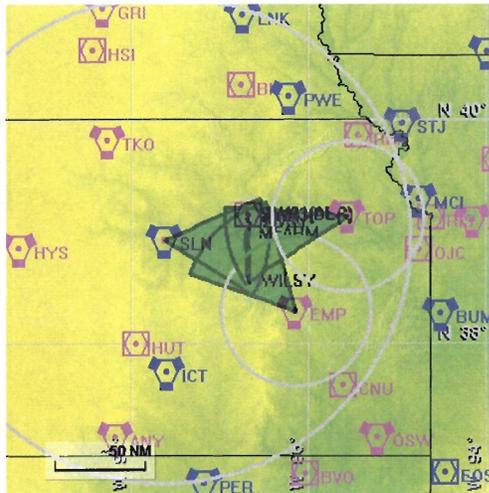
#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	SLN	N 38° 55' 30.54" W 97° 37' 16.91"	H	1310.0	117.10	SLN	Used
		FSV: Bearing [True]: 06.0° to 122.0° Bearing [Mag]: 59.0° to 115.0°				Arc Distance: Out to 55.0 NM Altitude: 3000.0 to 14500.0 Ft.	
2	EMI	N 33° 17' 28.12" W 96° 8' 17.22"	L	1220.0	112.80	EMI	Used
		ESV: Bearing [True]: 290.0° to 345.0° Bearing [Mag]: 282.0° to 337.0°				Arc Distance: Out to 60.0 NM Altitude: 3000.0 to 18000.0 Ft.	
3	TOP	N 39° 8' 13.60" W 95° 32' 56.80"	L	1070.0	117.80	TOP	Used
		ESV: Bearing [True]: 237.0° to 275.0° Bearing [Mag]: 232.0° to 270.0°				Arc Distance: Out to 65.0 NM Altitude: 3000.0 to 18000.0 Ft.	

Radar Analysis

[Return To Summary](#)

Settings: Radar Types: ARSR and ASR





Name: enanders
Project Name:
Software: RNAV-Pro™
Version: 2.35
Date/Time: 4/17/2012 12:14:10 PM
Input File: WILSY RW21 WILSY 201...
Databases: AVNIS Date: 02/07/2012
NFD Date: 07/02/2009
DTED® (MAX) Date: 2002

Results Summary:

- Flyability Please Check Flyability Results
- DME/DME
- Radars
- Comms
- TERPS

Flight Plan					Return To Summary		
Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW21(A...	WP	N 39° 8' 46.65" W 96° 39' 51.74"	1043.3	VNAV	0.0	Fly By	TF
RW03(D...	WP	N 39° 7' 53.58" W 96° 40' 48.74"	1090.9	VNAV	130.0	Fly Over	VI
GH21:	WP	N 39° 7' 5.17" W 96° 41' 40.73"	1580.0	VNAV	145.0	Fly By	CF - 148.2°
LIVSY	WP	N 39° 3' 58.21" W 96° 39' 11.76"	2312.9	VNAV	180.0	Fly By	TF
MFARM	WP	N 38° 58' 1.30" W 96° 41' 34.90"	3558.3	VNAV	180.0	Fly By	TF
WILSY	WP	N 38° 32' 10.24" W 96° 40' 23.53"	4000.0	VNAV	180.0	Fly Over	TF

Flyability	Return To Summary
Settings:	<p>Flight Type: Departure Selected Airport: KMHK Aircraft Category: Cat D Climb Gradient: <i>None assigned</i> Ground Speeds: Departure: 120.0 Kts out to 10.0 NM Table: 200.0 Kts up to 29000.0 Ft. 280.0 Kts up to 99900.0 Ft. Wind Settings: <i>None assigned</i> Descent During a Turn: Allowed VNAV Mode: Flight Plan</p>
<p>Required IAS at Fly-By WP MFARM could not be reached with given A/C acceleration performance.</p> <p>Flight Track comes into contact with terrain. Minimum AGL along route was -50.98 Ft. Flight Track contacted terrain (DTED lvl 0 max) between AER and DER or within 2/3 NM of DER.</p>	

DME/DME

[Return To Summary](#)

Settings:

RNP: 2.0
 Flight Mode: Manual
 Line of Sight (DTED Level 0 Max): Evaluated
 DME Restrictions: Evaluated
 Inertial Drift: Enabled
 Initial Drift: 0.165 NM
 INS Drift Rate: 8.000 NM/Hour
 Range Mode: OSV
 Co-Frequencies: Evaluated
 RNP Edges: Evaluated
 Min DME Range: 3.0 NM
 Allowed Gap Length: 4.0 NM
 DME Types: VOR/DME , VORTAC , TACAN , and User
 DME Include Angles: 30 to 150
 Critical DMEs: Allowed
 DoD Facilities: Not included
 Foreign Facilities: Not included
 Low & Terminal DMEs: Included
 Flight Check DMEs: Selected
 Higher Altitudes: Evaluated
 Near Maximum Altitude: Evaluated
 Minimum MSL DMEs Avail: 2990 Ft.

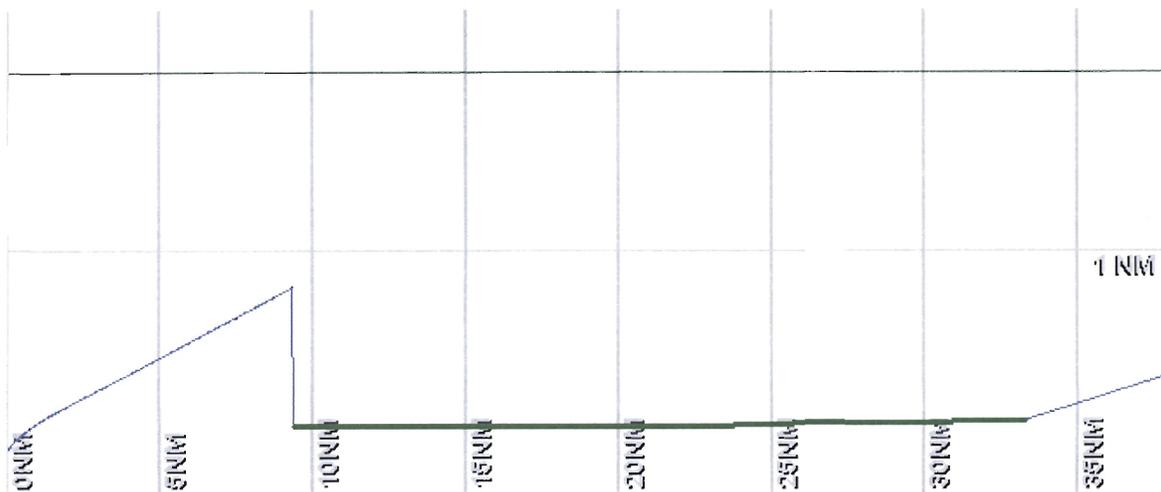
Total Number of DMEs Used: 4

Maximum DME Error: 0.852 NM.

No Critical DMEs were found.

Available DMEs: MHK, SLN, EMP, TOP

DME/INS Error [NM]



DME/DME (Continued.)							Return To Summary		
DMEs Used									
#	Name	Lat/Lon	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	SLN	N 38° 55' 30.54" W 97° 37' 16.91"	H + ESV	User	NO	0.852	Enabled	38.4 %	43.2 %
2	MHK	N 39° 8' 43.59" W 96° 40' 7.40"	T	Database	NO	0.852	Enabled	38.4 %	43.2 %
3	EMP	N 38° 17' 28.12" W 96° 8' 17.22"	L + ESV	User	NO	0.852	Enabled	15.9 %	20.0 %
4	TOP	N 39° 8' 13.60" W 95° 32' 56.80"	L + ESV	User	NO	0.852	Enabled	15.9 %	20.0 %
Flight Check DME Selection									
Distance [NM]	Selected DMEs							Alternate	
0.0									
1.2									
1.8	MHK								
5.5	MHK SLN EMP TOP								
11.5	MHK SLN EMP TOP								
Inertial Drift Segments									
#	Start Location				End Location				Length [NM]
1	N 39° 8' 46.65" W 96° 39' 51.74"				N 39° 0' 33.83" W 96° 40' 33.65"				9.3
	VOR: FRI				Available from N 39° 8' 46.65" W 96° 39' 51.74" to N 39° 0' 33.83" W 96° 40' 33.65"				
	VOR: MHK				Available from N 39° 8' 46.65" W 96° 39' 51.74" to N 39° 0' 33.83" W 96° 40' 33.65"				
2	N 38° 36' 43.28" W 96° 40' 35.99"				N 38° 32' 13.18" W 96° 40' 23.66"				4.5
	VOR: EMP				Available from N 38° 36' 43.28" W 96° 40' 35.99" to N 38° 32' 13.18" W 96° 40' 23.66"				
	VOR: FRI				Available from N 38° 36' 43.28" W 96° 40' 35.99" to N 38° 32' 13.18" W 96° 40' 23.66"				
	VOR: MHK				Available from N 38° 36' 43.28" W 96° 40' 35.99" to N 38° 32' 13.18" W 96° 40' 23.66"				

DME/DME (Continued.)						Return To Summary	
<i>User DMEs</i>							
#	Name	Lat/Lon	Range	Elevation [Ft]	Frequency	Replaces:	Status
1	SLN	N 38° 55' 30.54" W 97° 37' 16.91"	H	1310.0	117.10	SLN	Used
		ESV:	Bearing [True]: 66.0° to 122.0° Bearing [Mag]: 59.0° to 115.0°		Arc Distance: Out to 55.0 NM Altitude: 3000.0 to 14500.0 Ft.		
2	EMP	N 38° 17' 28.12" W 96° 8' 17.22"	L	1220.0	112.80	EMP	Used
		ESV:	Bearing [True]: 290.0° to 345.0° Bearing [Mag]: 282.0° to 337.0°		Arc Distance: Out to 60.0 NM Altitude: 3000.0 to 18000.0 Ft.		
3	TOP	N 39° 8' 13.60" W 95° 32' 56.80"	L	1070.0	117.80	TOP	Used
		ESV:	Bearing [True]: 237.0° to 275.0° Bearing [Mag]: 232.0° to 270.0°		Arc Distance: Out to 65.0 NM Altitude: 3000.0 to 18000.0 Ft.		

