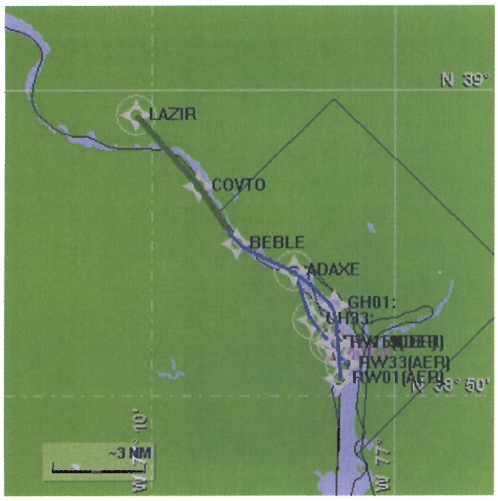

Name:	DAVE COOK
Project Name:	KDCA LAZIR3 SID
Output File:	KDCA LAZIR3 SID RW33 ADAXE 20120412_1154
Procedure Name:	LAZIR3
Software:	RNAV-Pro™
Version:	2.36u
Date/Time:	4/12/2012 11:54:11 AM
Input File:	KDCA LAZIR3 SID RW33 ADAXE 20120412_1138.txt
Databases:	AVNIS Date: 02/07/2012
	Obstacle Date: 08/26/2011
	NFD Date: 09/30/2010
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✓	**Please Check Flyability Results**
DME/DME	✓	
Radars	✓	
Comms		
TERPS		

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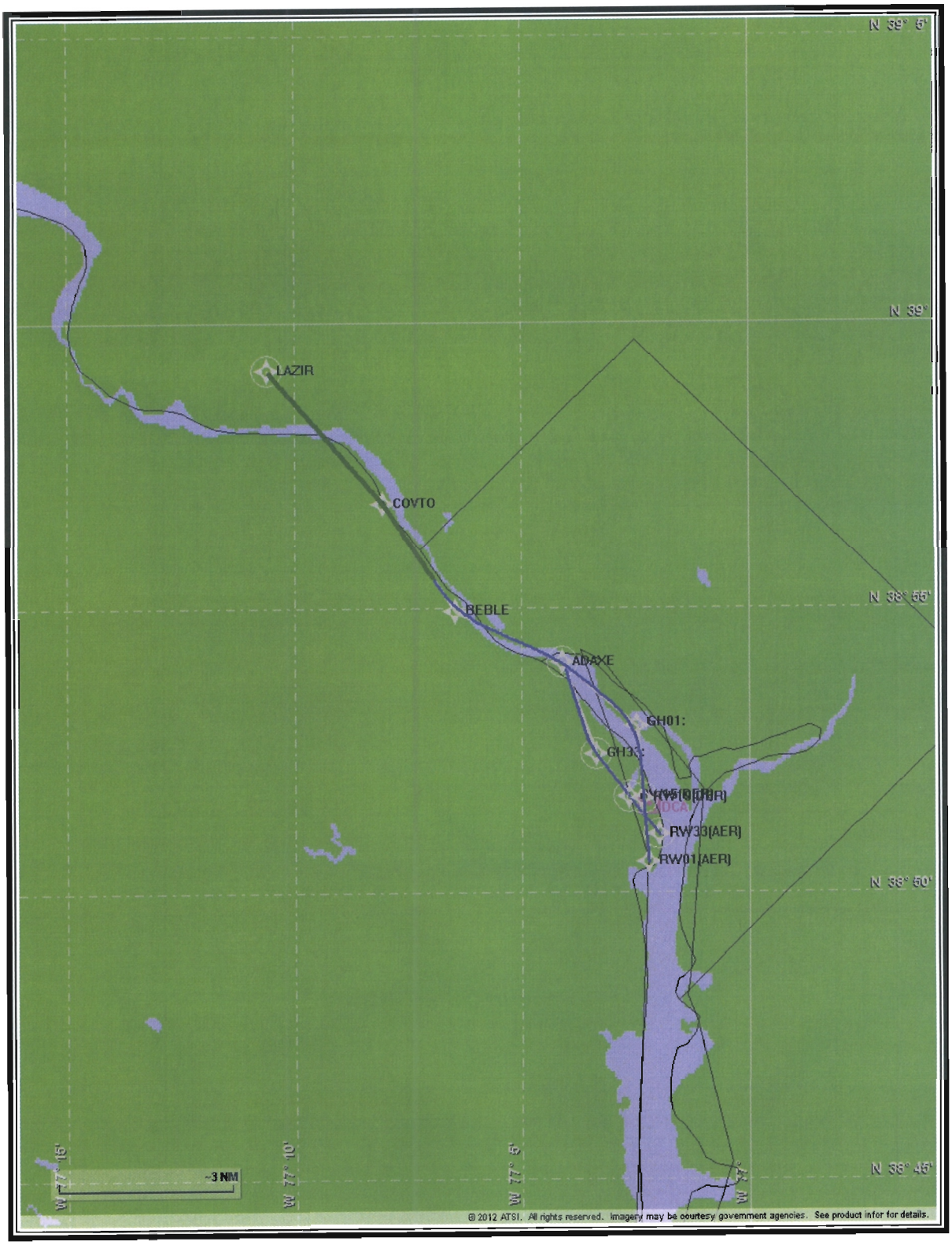
N 39° 5'
N 39°
LAZIR
COVTO
BEBLE
N 38° 55'
ADAXE
GH01:
GH33:
KDCA
RW33(AER)
RW01(AER)
N 38° 50'
N 38° 45'
3 NM
W 77° 15'
W 77° 10'
W 77° 5'
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW33(A...	WP	N 38° 51' 1.22" W 77° 1' 57.83"	10.3	VNAV	0.0	Fly Over	TF
RW15(D...	WP	N 38° 51' 42.11" W 77° 2' 37.75"	49.8	VNAV	130.0	Fly Over	VA
GH33:	WP	N 38° 52' 26.33" W 77° 3' 20.92"	515.0	VNAV	145.0	Fly Over	DF
ADAXE	WP	N 38° 54' 2.61" W 77° 4' 5.22"	855.7	VNAV	220.0	Fly Over	TF

Climb Gradient: 540.0 Ft/NM up to 515.0 Ft MSL

Flyability

Return To Summary

Settings:

Flight Type: Runway Departure
Selected Airport: KDCA
Aircraft Category: Cat D
Climb Gradient: 540.0 Ft/NM up to 515.0 Ft MSL
Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
Table:
200.0 Kts up to **11000.0 Ft.**
240.0 Kts up to **18000.0 Ft.**
260.0 Kts up to **24000.0 Ft.**
340.0 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 -54.23 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

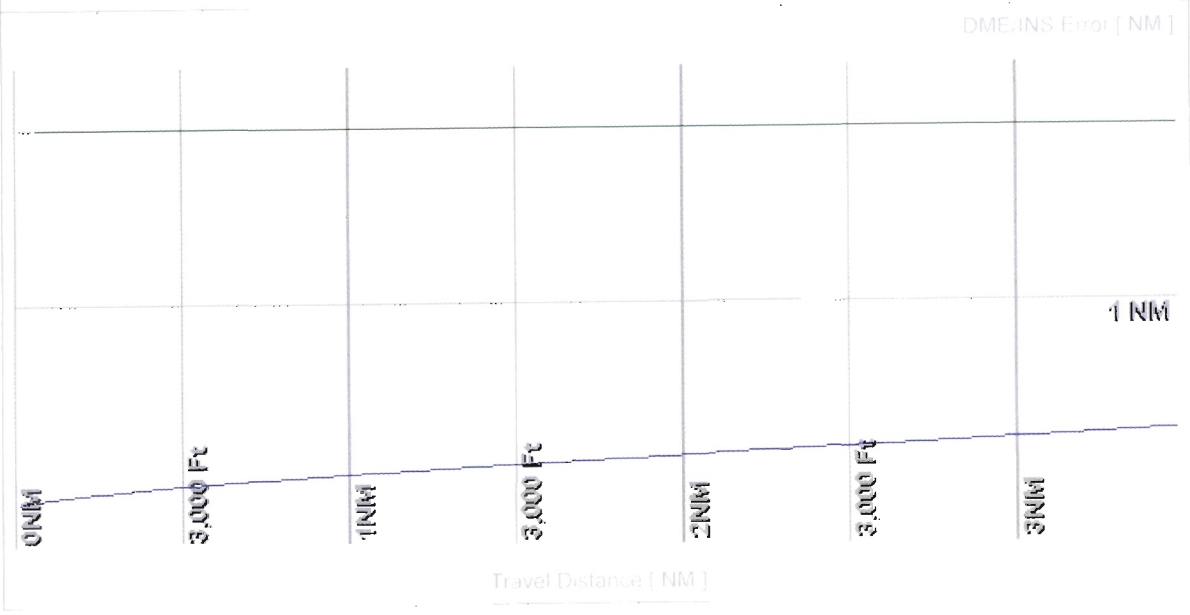
Settings:

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

Total Number of DMEs Used: 0

Maximum DME Error Could not be Derived with < 2 DMEs.

No Critical DMEs were found.



DME/DME (Continued.)

Return To Summary

Flight Check DME Selection

Distance [NM]	Selected DMEs	Alternate
0.0		
0.9		
1.8		

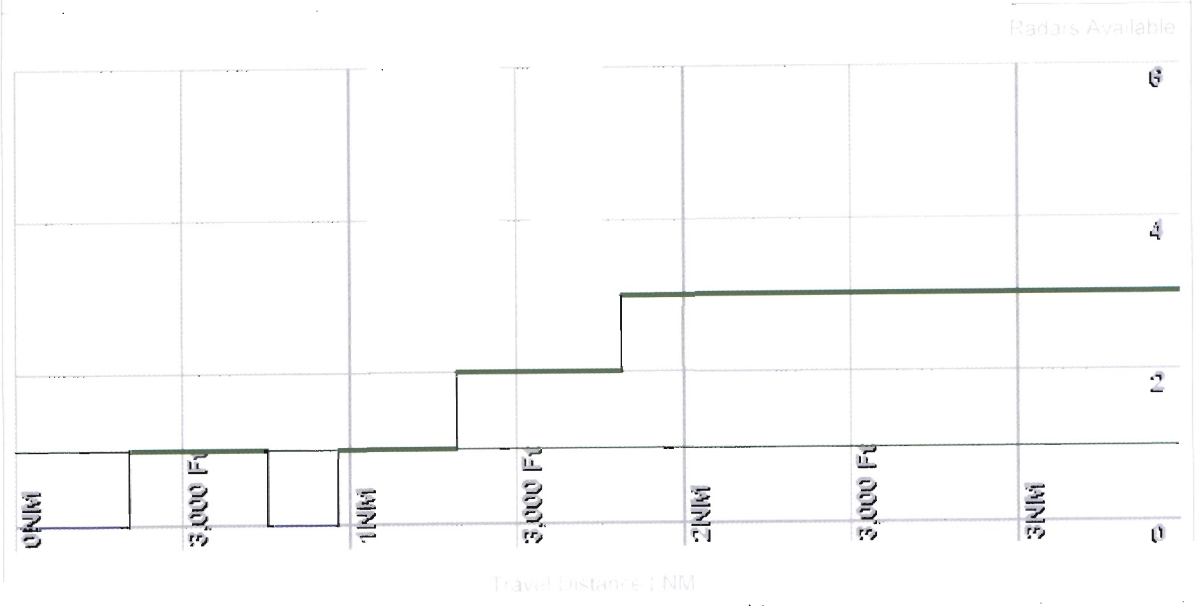
Inertial Drift Segments

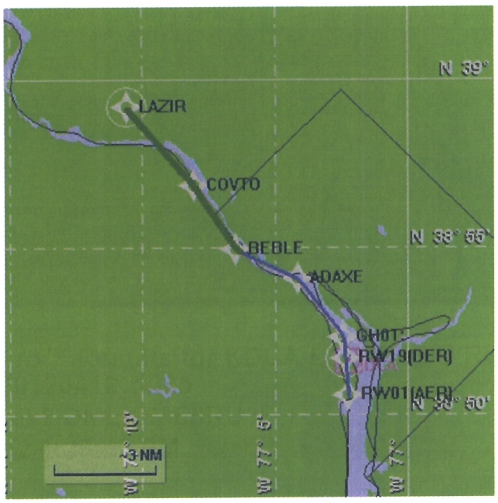
#	Start Location	End Location	Length [NM]
1	N 38° 51' 1.22" W 77° 1' 57.83"	N 38° 54' 1.71" W 77° 4' 4.86"	3.5
	VOR: ADW	Available from N 38° 51' 1.22" W 77° 1' 57.83" to N 38° 54' 1.71" W 77° 4' 4.86"	
	VOR: AML	Available from N 38° 51' 1.22" W 77° 1' 57.83" to N 38° 54' 1.71" W 77° 4' 4.86"	
	VOR: BAL	Available from N 38° 51' 1.22" W 77° 1' 57.83" to N 38° 54' 1.71" W 77° 4' 4.86"	
	VOR: BRV	Available from N 38° 51' 1.22" W 77° 1' 57.83" to N 38° 54' 1.71" W 77° 4' 4.86"	
	VOR: DCA	Available from N 38° 51' 1.22" W 77° 1' 57.83" to N 38° 54' 1.71" W 77° 4' 4.86"	
	VOR: EMI	Available from N 38° 51' 1.22" W 77° 1' 57.83" to N 38° 54' 1.71" W 77° 4' 4.86"	
	VOR: FDK	Available from N 38° 51' 1.22" W 77° 1' 57.83" to N 38° 54' 1.71" W 77° 4' 4.86"	
	VOR: OTT	Available from N 38° 51' 1.22" W 77° 1' 57.83" to N 38° 54' 1.71" W 77° 4' 4.86"	

Radar Analysis

Return To Summary

Settings: **Radar Types:** ARSR and ASR





Name:	DAVE COOK
Project Name:	KDCA LAZIR3 SID
Output File:	KDCA LAZIR3 SID RW01 LAZIR 20120416_1325
Procedure Name:	LAZIR3
Software:	RNAV-Pro™
Version:	2.36u
Date/Time:	4/16/2012 1:25:42 PM
Input File:	KDCA LAZIR3 SID RW01 LAZIR 20120416_1317.txt
Databases:	AVNIS Date: 02/07/2012
	Obstacle Date: 08/26/2011
	NFD Date: 09/30/2010
	DTED® (MAX) Date: 2002

Results Summary:

Flyability	✓ **Please Check Flyability Results**
DME/DME	✓
Radars	✓
Comms	
TERPS	

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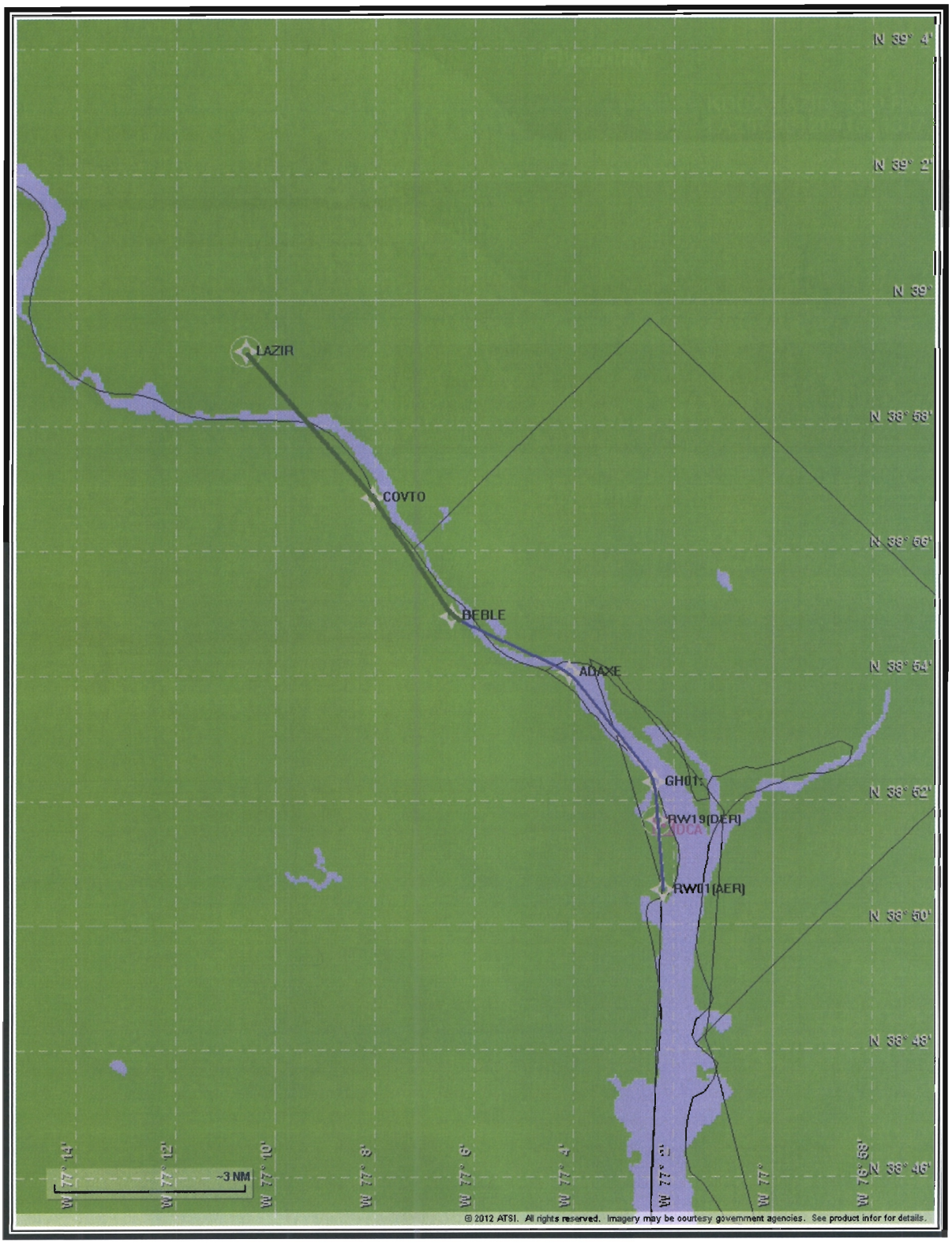
N 39° 4'
N 39° 2'
N 39°
N 38° 58'
N 38° 56'
N 38° 54'
N 38° 52'
N 38° 50'
N 38° 48'
N 38° 46'
LAZIR
COVTO
BEBLE
ADAXE
GH01
RW19(DER)
RW01(AER)
~3 NM
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Flight Plan

Return To Summary

Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
RW01(A...	WP	N 38° 50' 32.60" W 77° 2' 12.57"	11.6	VNAV	0.0	Fly By	TF
RW19(D...	WP	N 38° 51' 40.29" W 77° 2' 19.39"	47.0	VNAV	130.0	Fly Over	VI
GH01:	WP	N 38° 52' 16.70" W 77° 2' 23.07"	500.0	VNAV	145.0	Fly By	CF - 323.0°
ADAXE	WP	N 38° 54' 2.61" W 77° 4' 5.22"	800.0	VNAV	220.0	Fly By	TF
BEBLE	WP	N 38° 54' 55.81" W 77° 6' 26.92"	1300.0	VNAV	220.0	Fly By	TF
COVTO	WP	N 38° 56' 49.58" W 77° 8' 2.23"	1700.0	VNAV	220.0	Fly By	TF
LAZIR	WP	N 38° 59' 9.60" W 77° 10' 35.68"	2300.0	VNAV	220.0	Fly Over	TF

Climb Gradient: 500.0 Ft/NM up to 500.0 Ft MSL

Flyability

Return To Summary

Settings:

Flight Type: Runway Departure
Selected Airport: KDCA
Aircraft Category: Cat D
Climb Gradient: 500.0 Ft/NM up to 500.0 Ft MSL
Ground Speeds:
Departure: **120.0 Kts** out to **10.0 NM**
Table:
200.0 Kts up to **11000.0 Ft.**
240.0 Kts up to **18000.0 Ft.**
260.0 Kts up to **24000.0 Ft.**
340.0 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 -27.77 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:

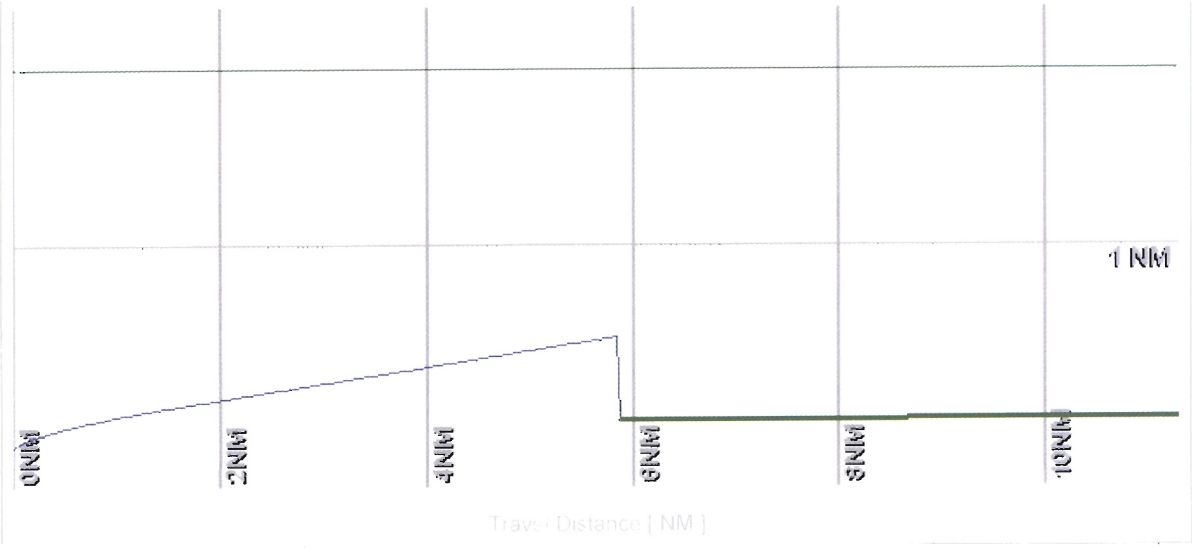
RNP: 2.0
Flight Mode: Manual
Line of Sight (DTED Level 0 Max): Evaluated
DME Restrictions: Evaluated
Inertial Drift: Enabled
Initial Drift: 0.165 NM
INS Drift Rate: 8.000 NM/Hour
Range Mode: OSV
Co-Frequencies: Evaluated
RNP Edges: Evaluated
Min DME Range: 3.0 NM
Allowed Gap Length: 4.0 NM
DME Types: 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: 1225 Ft.

Total Number of DMEs Used: 2

Maximum DME Error: 0.621 NM.

No Critical DMEs were found.

Available DMEs: OTT, ADW, DCA, BAL, BRV, AML, EMI



DME/DME (Continued.)

Return To Summary

DMEs Used

#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	BAL	N 39° 10' 15.83" W 76° 39' 40.52" W 11	L	Database	NO	0.776	Enabled	44.2 %	48.2 %
2	DCA	N 38° 51' 34.03" W 77° 2' 11.17" W 9	L	Database	NO	0.621	Enabled	44.2 %	48.2 %

Flight Check DME Selection

Distance [NM]	Selected DMEs					Alternate
0.0						
1.1						
1.5	OTT					
3.7	OTT	DCA	ADW			
5.7	BAL	DCA	ADW	BRV	AML	
8.1	BAL	DCA	EMI	AML		

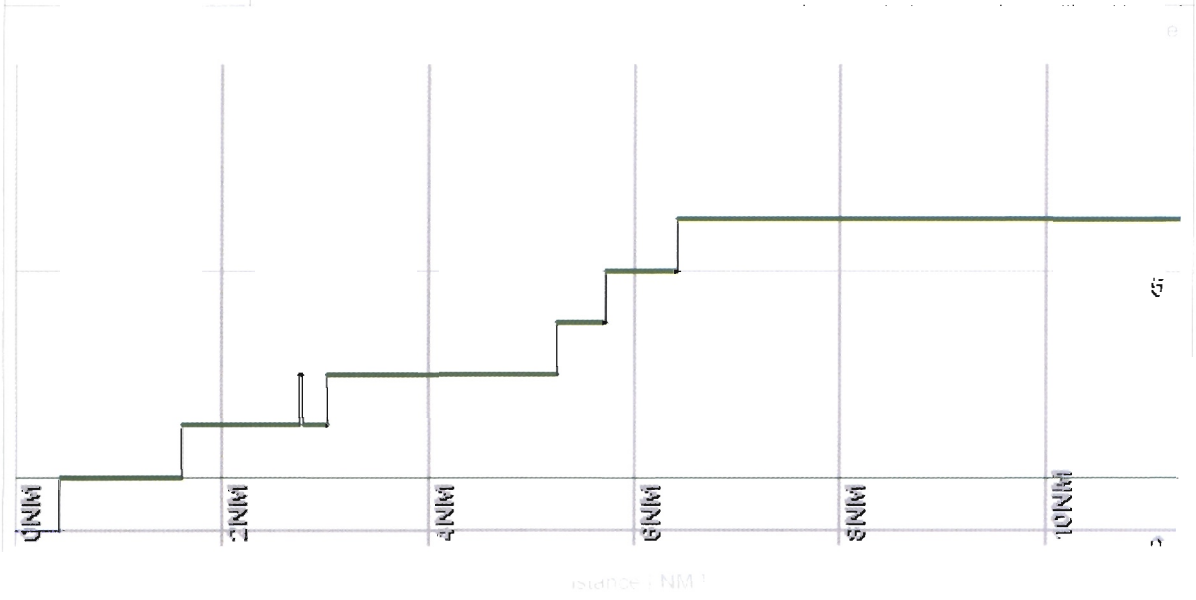
DME/DME (Continued.)

Return To Summary

Inertial Drift Segments

#	Start Location	End Location	Length [NM]
1	N 38° 50' 32.60" W 77° 2' 12.57"	N 38° 54' 52.41" W 77° 6' 17.15"	5.8
	VOR: ADW	Available from N 38° 50' 32.60" W 77° 2' 12.57" to N 38° 54' 52.41" W 77° 6' 17.15"	
	VOR: AML	Available from N 38° 50' 32.60" W 77° 2' 12.57" to N 38° 54' 52.41" W 77° 6' 17.15"	
	VOR: BAL	Available from N 38° 50' 32.60" W 77° 2' 12.57" to N 38° 54' 52.41" W 77° 6' 17.15"	
	VOR: BRV	Available from N 38° 50' 32.60" W 77° 2' 12.57" to N 38° 54' 52.41" W 77° 6' 17.15"	
	VOR: DCA	Available from N 38° 50' 32.60" W 77° 2' 12.57" to N 38° 54' 52.41" W 77° 6' 17.15"	
	VOR: EMI	Available from N 38° 50' 32.60" W 77° 2' 12.57" to N 38° 54' 52.41" W 77° 6' 17.15"	
	VOR: FDK	Available from N 38° 50' 32.60" W 77° 2' 12.57" to N 38° 54' 52.41" W 77° 6' 17.15"	
	VOR: OTT	Available from N 38° 50' 32.60" W 77° 2' 12.57" to N 38° 54' 52.41" W 77° 6' 17.15"	
	VOR: CSN	Available from N 38° 54' 23.63" W 77° 5' 1.05" to N 38° 54' 52.41" W 77° 6' 17.15"	

Radar Analysis

Return To Summary

Settings: **Radar Types:** ARSR and ASR