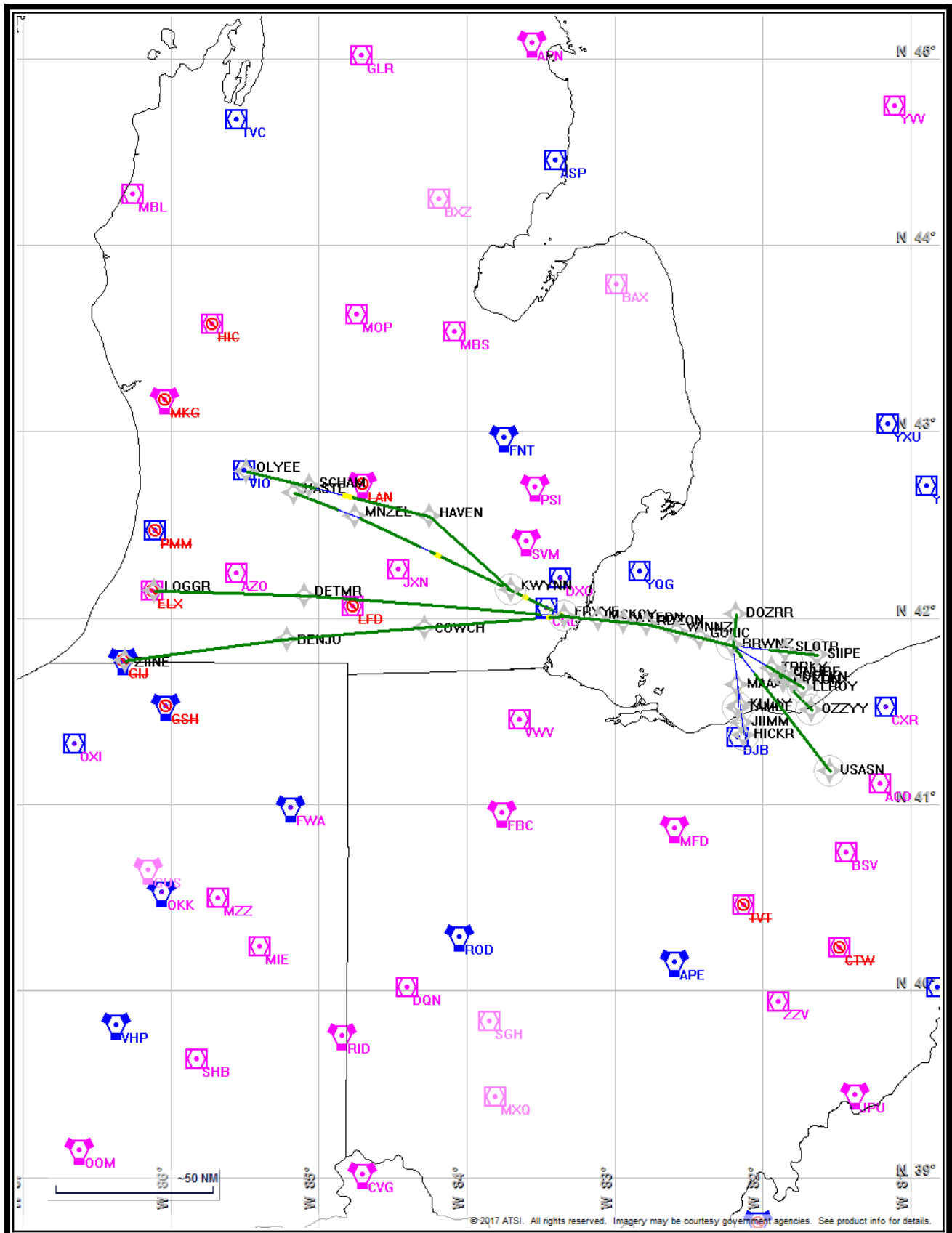


Name: Paul Jackson
Project Name: KCLE BRWNZ STAR
Output File: KCLE BRWNZ1 STAR
BRWNZ HICKR
20171030_1021
Procedure Name: BRWNZ1
Software: RNAV-Pro™
Version: 2.39
Date/Time: 10/30/2017 10:22:45 AM
Input File: KCLE BRWNZ1 STAR
BRWNZ HICKR
20170828_1058.txt
Databases: AIRNAV Date: 9/17/2017
CIFP Date: 7/20/2017
DTED® (MAX) Date: 2002

Results Summary:

Flyability	✓	
DME/DME	✓	No Critical DMEs Exist
Radars	?	
Comms	?	
TERPS	?	



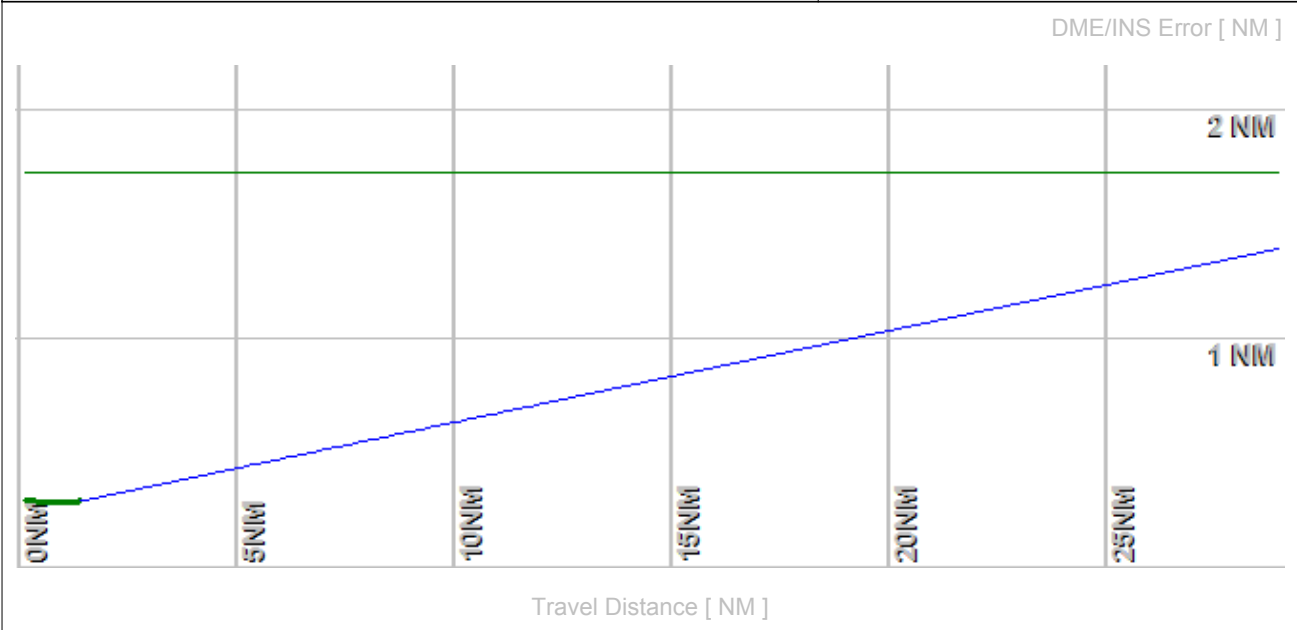
Flight Plan					Return To Summary		
Name	Type	Lat/Lon	Alt [ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
BRWNZ	WP	N 41° 51' 0.43" W 82° 12' 4.69"	8000.0	Step	210.0	Fly By	TF
MAAAK	WP	N 41° 38' 28.36" W 82° 10' 9.18"	5000.0	Step	210.0	Fly By	TF
KLLAY	WP	N 41° 31' 54.26" W 82° 9' 7.66"	4000.0	Step	210.0	Fly By	TF
JIIMM	WP	N 41° 26' 7.51" W 82° 8' 15.43"	4000.0	Step	210.0	Fly By	TF
HICKR	WP	N 41° 22' 8.00" W 82° 7' 43.36"	4000.0	Step	210.0	Fly Over	TF

Flyability		Return To Summary
Settings:	Flight Type: Arrival	
	Selected Airport: KCLE	
	Aircraft Category: Cat D	
	Climb Gradient: <i>None assigned</i>	
	Ground Speeds:	
	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: <i>None assigned</i>	
	Descent During a Turn: Allowed	
	VNAV Mode: Flight Plan	
Entire track is fly-able		

DME/DME	Return To Summary
Settings:	<p> RNP: 2.0 Flight Mode: Manual Line of Sight (DTED Level 0 Max): Evaluated DME Restrictions: Evaluated Inertial Drift: Enabled Initial Drift: 0.558 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, Standalone, and User DME Include Angles: 30 to 150 Critical DMEs: Allowed DoD Facilities: Not included Foreign Facilities: Not included Low DMEs: Included Terminal DMEs: Included Flight Check DMEs: Selected Higher Altitudes: Evaluated Near Maximum Altitude: Evaluated </p>
<p>Total Number of DMEs Used: 2</p> <p>Maximum DME Error: 1.397 NM.</p> <p>No Critical DMEs were found.</p> <p>Available DMEs: VWV, MFD, ACO, DJB</p> <p>Disabled DMEs: LAN, LFD, ELX, GIJ, PMM, MKG, HIC, PLN, MNM, CTW, JFN, TVT, BDF, DNV, EON, PLL, PNT, RBS, SAM, UIN, VLA, BVT, GSH, ECB, EWO, FLM, YRK, BRD, DWN, HML, ODI, RST, CMK, DNY, GFL, GGT, HNK, HUO, LGA, HTO, MSS, PWL, RKA, SLK, UCA, ULW, CRI, AGC, BFD, CIP, ETG, FJC, FQM, IHD, LVZ, MIP, MXE, REC, SFK, SLT, TDT, THS, AUW, JVL, LNR, STE, CKB, ESL, HNN, and GRV</p> <p>Foreign DMEs within range: YEE, YQG, YQO, YVV, YWT, YXU, YYZ</p>	

DME/DME (Continued)

[Return To Summary](#)



DME/DME (Continued)						Return To Summary			
DMEs Used									
#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	VWV	N 41° 27' 5.35" W 83° 38' 19.30" 02 W	L + ESV	User	NO	1.453	Enabled	4.6%	4.6%
2	DJB	N 41° 21' 29.03" W 82° 9' 43.09" 05 W	H	Database	NO	1.453	Enabled	4.6%	4.6%
	Total Coverage							4.6%	4.6%
Flight Check DME Selection									
Distance [NM]		Selected DMEs						Alternate	
0.0		DJB	MFD	ACO	VWV				
12.6		DJB							
19.2		DJB							
25.0		DJB	MFD						
Inertial Drift Segments									
#	Start Location			End Location			Length [NM]		
1	N 41° 49' 37.43" W 82° 11' 51.90"			N 41° 22' 10.49" W 82° 7' 43.68"			27.6		
VOR: CLE				Available from N 41° 49' 37.43" W 82° 11' 51.90" to N 41° 22' 10.49" W 82° 7' 43.68"					
VOR: DJB				Available from N 41° 49' 37.43" W 82° 11' 51.90" to N 41° 22' 10.49" W 82° 7' 43.68"					
VOR: YQG				Available from N 41° 49' 37.43" W 82° 11' 51.90" to N 41° 46' 58.41" W 82° 11' 27.42"					
VOR: MFD				Available from N 41° 26' 25.97" W 82° 8' 18.19" to N 41° 22' 10.49" W 82° 7' 43.68"					

Available DMEs by Waypoints		Return To Summary
Waypoint Before	Waypoint After	DME List
BRWNZ	MAAAK	ACO, MFD, VWV, and DJB
MAAAK	KLLAY	DJB
KLLAY	JIIMM	DJB
JIIMM	HICKR	MFD and DJB

User Data					Return To Summary		
User Data Files							
#	File Name						
1	BRWNZ1_New.udt						
User DMEs							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	LAN	N 42° 43' 2.62" W 84° 41' 51.03" 05 W	L	887.4	110.80	LAN	Disabled
2	LFD	N 42° 3' 44.96" W 84° 45' 54.48" 05 W	L	1040.0	111.20	LFD	Disabled
Restriction:		Bearing [True]: 105.0° to 160.0° Bearing [Mag]: 110.0° to 165.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
3	ELX	N 42° 8' 39.88" W 86° 7' 21.74" 00 E	L	793.7	116.60	ELX	Disabled
4	GIJ	N 41° 46' 7.00" W 86° 19' 6.42" 00 E	H	802.7	115.40	GIJ	Disabled
Restriction:		Bearing [True]: 360.0° to 360.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3500.0 ft		
5	PMM	N 42° 27' 57.73" W 86° 6' 17.32" 00 E	H	639.9	112.10	PMM	Disabled
Restriction:		Bearing [True]: 360.0° to 360.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
6	MKG	N 43° 10' 9.31" W 86° 2' 21.76" 01 W	L	659.1	115.20	MKG	Disabled
Restriction:		Bearing [True]: 54.0° to 89.0° Bearing [Mag]: 55.0° to 90.0°			Distance: Beyond 10.0 NM Altitude: Below 4000.0 ft		
7	HIC	N 43° 34' 29.47" W 85° 42' 58.18" 01 W	L	920.0	117.60	HIC	Disabled
Restriction:		Bearing [True]: 19.0° to 89.0° Bearing [Mag]: 20.0° to 90.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 269.0° to 289.0° Bearing [Mag]: 270.0° to 290.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
8	PLN	N 45° 37' 50.33" W 84° 39' 50.79" 06 W	L	835.3	111.80	PLN	Disabled
9	MNM	N 45° 10' 48.58" W 87° 38' 49.83" 00 E	L	650.1	109.60	MNM	Disabled
10	CTW	N 40° 13' 45.15" W 81° 28' 35.32" 07 W	L	1180.0	111.80	CTW	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
11	JFN	N 41° 45' 36.42" W 80° 44' 53.20" 05 W	L	896.3	115.20	JFN	Disabled
Restriction:		Bearing [True]: 226.0° to 255.0° Bearing [Mag]: 231.0° to 260.0°			Distance: Beyond 30.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 121.0° to 185.0° Bearing [Mag]: 126.0° to 190.0°			Distance: Beyond 20.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 186.0° to 225.0° Bearing [Mag]: 191.0° to 230.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 80.0° to 120.0° Bearing [Mag]: 85.0° to 125.0°			Distance: Beyond 35.0 NM Altitude: Below 3500.0 ft		
12	TVT	N 40° 27' 29.04" W 82° 7' 36.52" 03 W	L	1330.4	116.50	TVT	Disabled
13	BDF	N 41° 9' 35.03" W 89° 35' 16.34" 00 E	H	810.0	114.70	BDF	Disabled
14	DNV	N 40° 17' 37.56" W 87° 33' 26.14" 02 E	L	698.8	111.00	DNV	Disabled
15	EON	N 41° 16' 10.68" W 87° 47' 27.79" 02 E	L	688.7	113.20	EON	Disabled
16	PLL	N 41° 57' 56.31" W 89° 31' 27.19" 03 E	L	840.0	111.20	PLL	Disabled
17	PNT	N 40° 49' 16.32" W 88° 44' 0.63" 03 E	L	680.0	109.60	PNT	Disabled
18	RBS	N 40° 34' 54.13" W 88° 9' 51.36" 02 E	L	780.0	116.80	RBS	Disabled
19	SAM	N 38° 29' 6.68" W 88° 5' 8.90" 03 E	L	540.0	116.60	SAM	Disabled
20	UIN	N 39° 50' 52.35" W 91° 16' 44.13" 05 E	H	715.1	113.60	UIN	Disabled
21	VLA	N 39° 5' 37.82" W 89° 9' 44.08" 04 E	L	605.5	114.30	VLA	Disabled
22	BVT	N 40° 33' 22.22" W 87° 4' 9.75" 01 E	H	752.2	115.10	BVT	Disabled
Restriction:		Bearing [True]: 299.0° to 45.0° Bearing [Mag]: 298.0° to 44.0°			Distance: Beyond 0.0 NM Altitude: Below 2800.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
23	GSH	N 41° 31' 30.56" W 86° 1' 40.63" 00 E	H	851.8	113.70	GSH	Disabled
Restriction:		Bearing [True]: 71.0° to 129.0° Bearing [Mag]: 71.0° to 129.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
24	ECB	N 38° 9' 30.11" W 82° 54' 36.20" 02 W	L	1070.0	110.40	ECB	Disabled
25	EWO	N 37° 37' 54.52" W 85° 40' 33.16" 01 E	L	960.0	110.80	EWO	Disabled
26	FLM	N 38° 38' 57.99" W 84° 18' 38.17" 04 W	H	808.5	117.00	FLM	Disabled
27	YRK	N 38° 38' 38.88" W 82° 58' 42.02" 05 W	L	1040.0	112.80	YRK	Disabled
28	BRD	N 46° 20' 53.81" W 94° 1' 33.54" 03 E	H	1253.9	116.90	BRD	Disabled
Restriction:		Bearing [True]: 3.0° to 3.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 29.0 NM Altitude: Below 3000.0 ft		
29	DWN	N 45° 5' 14.87" W 94° 27' 13.86" 07 E	L	1130.0	109.00	DWN	Disabled
30	HML	N 48° 52' 9.07" W 97° 7' 4.45" 09 E	H	797.4	112.40	HML	Disabled
Restriction:		Bearing [True]: 84.0° to 94.0° Bearing [Mag]: 75.0° to 85.0°			Distance: Beyond 0.0 NM Altitude: Below 10000.0 ft		
Restriction:		Bearing [True]: 95.0° to 263.0° Bearing [Mag]: 86.0° to 254.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 264.0° to 279.0° Bearing [Mag]: 255.0° to 270.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 280.0° to 83.0° Bearing [Mag]: 271.0° to 74.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
31	ODI	N 43° 54' 44.38" W 91° 28' 3.06" 01 E	H	1282.2	117.90	ODI	Disabled
32	RST	N 43° 46' 58.45" W 92° 35' 49.06" 05 E	L	1393.0	112.00	RST	Disabled
33	CMK	N 41° 16' 48.32" W 73° 34' 52.77" 12 W	L	693.8	116.60	CMK	Disabled
34	DNY	N 42° 10' 41.81" W 74° 57' 24.99" 11 W	L	2560.0	112.10	DNY	Disabled

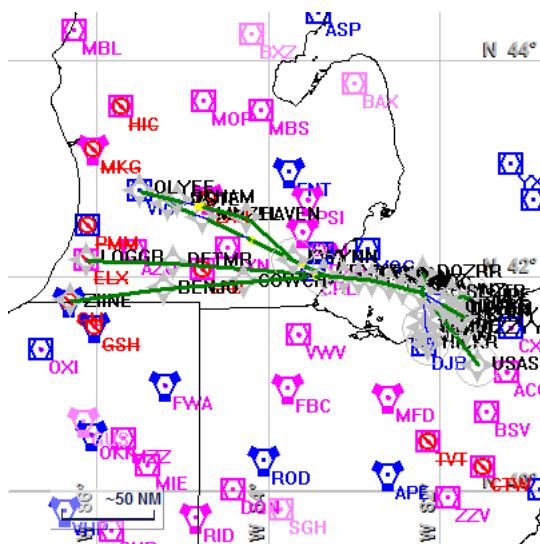
User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
35	GFL	N 43° 20' 30.09" W 73° 36' 42.32" 14 W	L	323.7	110.20	GFL	Disabled
Restriction:		Bearing [True]: 346.0° to 346.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 0.0 NM Altitude: Below 9000.0 ft		
36	GGT	N 42° 47' 20.24" W 75° 49' 36.29" 11 W	L	2040.0	117.80	GGT	Disabled
37	HNK	N 42° 3' 47.00" W 75° 18' 58.62" 11 W	H	2070.0	116.80	HNK	Disabled
38	HUO	N 41° 24' 34.87" W 74° 35' 29.74" 11 W	H	1300.3	116.10	HUO	Disabled
39	LGA	N 40° 47' 1.38" W 73° 52' 6.96" 12 W	L	8.9	113.10	LGA	Disabled
Restriction:		Bearing [True]: 233.0° to 268.0° Bearing [Mag]: 245.0° to 280.0°			Distance: Beyond 25.0 NM Altitude: Below 6000.0 ft		
40	HTO	N 40° 55' 8.38" W 72° 19' 0.14" 13 W	H	22.0	113.60	HTO	Disabled
Restriction:		Bearing [True]: 267.0° to 312.0° Bearing [Mag]: 280.0° to 325.0°			Distance: Beyond 35.0 NM Altitude: Below 1700.0 ft		
Restriction:		Bearing [True]: 312.0° to 342.0° Bearing [Mag]: 325.0° to 355.0°			Distance: Beyond 30.0 NM Altitude: Below 2000.0 ft		
41	MSS	N 44° 54' 51.92" W 74° 43' 21.78" 14 W	H	197.5	114.10	MSS	Disabled
42	PWL	N 41° 46' 11.18" W 73° 36' 1.99" 12 W	L	1250.0	114.30	PWL	Disabled
43	RKA	N 42° 27' 58.91" W 75° 14' 21.51" 11 W	L	2027.2	112.60	RKA	Disabled
44	SLK	N 44° 23' 4.41" W 74° 12' 16.21" 14 W	L	1646.8	109.20	SLK	Disabled
45	UCA	N 43° 1' 35.45" W 75° 9' 52.28" 12 W	L	1420.0	111.20	UCA	Disabled
46	ULW	N 42° 5' 39.16" W 77° 1' 28.53" 12 W	L	1631.8	109.65	ULW	Disabled
47	CRI	N 40° 36' 44.90" W 73° 53' 40.00" 11 W	T	10.0	112.30	CRI	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
48	AGC	N 40° 16' 43.12" W 80° 2' 27.08" 09 W	L	1284.6	110.00	AGC	Disabled
49	BFD	N 41° 47' 10.99" W 78° 37' 9.65" 07 W	L	2110.6	116.60	BFD	Disabled
50	CIP	N 41° 8' 46.66" W 79° 27' 28.71" 06 W	L	1519.5	112.90	CIP	Disabled
51	ETG	N 41° 12' 53.82" W 78° 8' 33.92" 10 W	H	2250.0	116.00	ETG	Disabled
52	FJC	N 40° 43' 36.12" W 75° 27' 17.12" 10 W	L	680.6	117.50	FJC	Disabled
Restriction:		Bearing [True]: 290.0° to 50.0° Bearing [Mag]: 300.0° to 60.0°			Distance: Beyond 26.0 NM Altitude: Below 4500.0 ft		
Restriction:		Bearing [True]: 51.0° to 289.0° Bearing [Mag]: 61.0° to 299.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
53	FQM	N 41° 20' 18.81" W 76° 46' 29.52" 09 W	L	2098.0	114.40	FQM	Disabled
54	IHD	N 39° 58' 27.27" W 79° 21' 30.12" 06 W	L	2820.0	108.20	IHD	Disabled
55	LVZ	N 41° 16' 22.09" W 75° 41' 22.08" 10 W	L	2118.8	111.60	LVZ	Disabled
56	MIP	N 41° 1' 24.21" W 76° 39' 55.04" 09 W	L	1000.0	109.20	MIP	Disabled
57	MXE	N 39° 55' 5.00" W 75° 40' 14.91" 09 W	L	473.4	113.20	MXE	Disabled
58	REC	N 40° 32' 47.25" W 78° 44' 49.28" 09 W	L	2340.0	110.60	REC	Disabled
59	SFK	N 41° 41' 42.91" W 77° 25' 11.66" 08 W	L	1984.7	108.60	SFK	Disabled
60	SLT	N 41° 30' 45.93" W 77° 58' 12.39" 08 W	H	2310.0	113.90	SLT	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
61	TDT	N 41° 42' 46.91" W 79° 25' 2.17" 09 W	L	1710.0	117.60	TDT	Disabled
Restriction:		Bearing [True]: 32.0° to 42.0° Bearing [Mag]: 41.0° to 51.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
Restriction:		Bearing [True]: 296.0° to 331.0° Bearing [Mag]: 305.0° to 340.0°			Distance: Beyond 24.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 331.0° to 356.0° Bearing [Mag]: 340.0° to 5.0°			Distance: Beyond 24.0 NM Altitude: Below 5000.0 ft		
62	THS	N 39° 55' 59.62" W 77° 57' 3.40" 07 W	L	2338.0	115.00	THS	Disabled
63	AUW	N 44° 50' 48.40" W 89° 35' 11.68" 02 E	L	1204.7	111.60	AUW	Disabled
Restriction:		Bearing [True]: 322.0° to 302.0° Bearing [Mag]: 320.0° to 300.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 302.0° to 322.0° Bearing [Mag]: 300.0° to 320.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
64	JVL	N 42° 33' 28.83" W 89° 6' 18.93" 03 E	L	931.4	114.30	JVL	Disabled
65	LNR	N 43° 17' 39.85" W 90° 7' 59.33" 00 E	L	1184.6	112.80	LNR	Disabled
66	STE	N 44° 32' 35.69" W 89° 31' 50.02" 01 W	L	1110.0	110.60	STE	Disabled
Restriction:		Bearing [True]: 359.0° to 359.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
67	CKB	N 39° 15' 11.57" W 80° 16' 4.32" 04 W	L	1425.7	112.60	CKB	Disabled
68	ESL	N 39° 13' 31.77" W 78° 59' 22.20" 06 W	L	2590.0	110.80	ESL	Disabled
69	HNN	N 38° 45' 14.85" W 82° 1' 34.20" 03 W	H	880.0	115.90	HNN	Disabled
70	GRV	N 39° 38' 6.11" W 79° 3' 1.90" 06 W	L	2640.0	112.30	GRV	Disabled
Restriction:		Bearing [True]: 301.0° to 64.0° Bearing [Mag]: 307.0° to 70.0°			Distance: Beyond 20.0 NM Altitude: Below 5000.0 ft		
Restriction:		Bearing [True]: 65.0° to 300.0° Bearing [Mag]: 71.0° to 306.0°			Distance: Beyond 20.0 NM Altitude: Below 6000.0 ft		
Restriction:		Bearing [True]: 102.0° to 107.0° Bearing [Mag]: 108.0° to 113.0°			Distance: Beyond 38.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 319.0° to 339.0° Bearing [Mag]: 325.0° to 345.0°			Distance: Beyond 35.0 NM Altitude: Below 99999.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
71	CRL	N 42° 2' 52.90" W 83° 27' 27.30" 03 W	H	629.0	115.70	CRL	Not Used
		ESV:	Bearing [True]: 259.0° to 268.0° Bearing [Mag]: 262.0° to 271.0°		Arc Distance: Out to 103.0 NM Altitude: 10000.0 to 16000.0 ft		
		ESV:	Bearing [True]: 293.0° to 359.0° Bearing [Mag]: 296.0° to 2.0°		Arc Distance: Out to 102.0 NM Altitude: 8500.0 to 16000.0 ft		
		ESV:	Bearing [True]: 65.0° to 98.0° Bearing [Mag]: 68.0° to 101.0°		Arc Distance: Out to 64.0 NM Altitude: 4000.0 to 16000.0 ft		
72	FWA	N 40° 58' 44.63" W 85° 11' 17.01" 06 W	H	792.6	117.80	FWA	Not Used
		Restriction:	Bearing [True]: 55.0° to 65.0° Bearing [Mag]: 61.0° to 71.0°		Distance: Beyond 0.0 NM Altitude: Below 7000.0 ft		
		Restriction:	Bearing [True]: 354.0° to 354.0° Bearing [Mag]: 360.0° to 360.0°		Distance: Beyond 33.0 NM Altitude: Below 2800.0 ft		
		Restriction:	Bearing [True]: 170.0° to 210.0° Bearing [Mag]: 176.0° to 216.0°		Distance: Beyond 22.0 NM Altitude: Below 4000.0 ft		
		Restriction:	Bearing [True]: 260.0° to 290.0° Bearing [Mag]: 266.0° to 296.0°		Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
		ESV:	Bearing [True]: 306.0° to 359.0° Bearing [Mag]: 312.0° to 5.0°		Arc Distance: Out to 101.0 NM Altitude: 10000.0 to 20000.0 ft		
73	VWV	N 41° 27' 5.35" W 83° 38' 19.30" 02 W	L	664.2	113.10	VWV	Used
		ESV:	Bearing [True]: 283.0° to 324.0° Bearing [Mag]: 285.0° to 326.0°		Arc Distance: Out to 85.0 NM Altitude: 10000.0 to 20000.0 ft		
		ESV:	Bearing [True]: 50.0° to 71.0° Bearing [Mag]: 52.0° to 73.0°		Arc Distance: Out to 78.0 NM Altitude: 6700.0 to 20000.0 ft		
74	PSI	N 42° 42' 3.09" W 83° 31' 57.98" 03 W	L	1149.3	111.00	PSI	Not Used
		Restriction:	Bearing [True]: 167.0° to 207.0° Bearing [Mag]: 170.0° to 210.0°		Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
		ESV:	Bearing [True]: 125.0° to 167.0° Bearing [Mag]: 128.0° to 170.0°		Arc Distance: Out to 80.0 NM Altitude: 7400.0 to 11000.0 ft		
75	SVM	N 42° 24' 31.09" W 83° 35' 38.05" 03 W	L	955.8	114.30	SVM	Not Used
		ESV:	Bearing [True]: 223.0° to 252.0° Bearing [Mag]: 226.0° to 255.0°		Arc Distance: Out to 81.0 NM Altitude: 10000.0 to 17000.0 ft		
		ESV:	Bearing [True]: 89.0° to 117.0° Bearing [Mag]: 92.0° to 120.0°		Arc Distance: Out to 73.0 NM Altitude: 6200.0 to 20000.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
76	MFD	N 40° 52' 7.00" W 82° 35' 27.46" 03 W	L	1222.0	108.80	MFD	Not Used
Restriction:		Bearing [True]: 72.0° to 92.0° Bearing [Mag]: 75.0° to 95.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 148.0° to 211.0° Bearing [Mag]: 151.0° to 214.0°			Distance: Beyond 30.0 NM Altitude: Below 99999.0 ft		
ESV:		Bearing [True]: 325.0° to 43.0° Bearing [Mag]: 328.0° to 46.0°			Arc Distance: Out to 80.0 NM Altitude: 6400.0 to 20000.0 ft		
77	ACO	N 41° 6' 28.45" W 81° 12' 5.49" 04 W	L	1198.4	114.40	ACO	Not Used
ESV:		Bearing [True]: 303.0° to 321.0° Bearing [Mag]: 307.0° to 325.0°			Arc Distance: Out to 82.0 NM Altitude: 7700.0 to 11000.0 ft		
78	DXO	N 42° 12' 47.29" W 83° 22' 0.00" 06 W	H	637.7	113.40	DXO	Not Used
Restriction:		Bearing [True]: 354.0° to 354.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 30.0 NM Altitude: Below 2900.0 ft		
ESV:		Bearing [True]: 279.0° to 333.0° Bearing [Mag]: 285.0° to 339.0°			Arc Distance: Out to 106.0 NM Altitude: 9700.0 to 20000.0 ft		
79	OKK	N 40° 31' 40.01" W 86° 3' 28.79" 05 W	H	825.8	113.50	OKK	Not Used
Restriction:		Bearing [True]: 171.0° to 229.0° Bearing [Mag]: 176.0° to 234.0°			Distance: Beyond 35.0 NM Altitude: Below 2400.0 ft		
ESV:		Bearing [True]: 356.0° to 50.0° Bearing [Mag]: 1.0° to 55.0°			Arc Distance: Out to 101.0 NM Altitude: 9900.0 to 20000.0 ft		
80	OBK	N 42° 13' 16.96" W 87° 57' 5.83" 02 W	H	707.0	113.00	OBK	Not Used
ESV:		Bearing [True]: 87.0° to 97.0° Bearing [Mag]: 89.0° to 99.0°			Arc Distance: Out to 103.0 NM Altitude: 10000.0 to 20000.0 ft		
81	OXI	N 41° 19' 19.35" W 86° 38' 57.45" 00 E	H	690.0	115.60	OXI	Not Used
ESV:		Bearing [True]: 360.0° to 138.0° Bearing [Mag]: 360.0° to 138.0°			Arc Distance: Out to 106.0 NM Altitude: 10000.0 to 20000.0 ft		
82	CXR	N 41° 31' 0.94" W 81° 9' 47.47" 05 W	H	1317.2	112.70	CXR	Not Used
ESV:		Bearing [True]: 298.0° to 343.0° Bearing [Mag]: 303.0° to 348.0°			Arc Distance: Out to 73.0 NM Altitude: 6200.0 to 16000.0 ft		



Name: Paul Jackson
Project Name: KCLE BRWNZ STAR
Output File: KCLE BRWNZ1 STAR
BRWNZ OZZYY
20171030_1021
Procedure Name: BRWNZ1
Software: RNAV-Pro™
Version: 2.39
Date/Time: 10/30/2017 10:23:26 AM
Input File: KCLE BRWNZ1 STAR
BRWNZ OZZYY
20170829_1004.txt
Databases: AIRNAV Date: 9/17/2017
CIFP Date: 7/20/2017
DTED® (MAX) Date: 2002

Results Summary:

Flyability



DME/DME



No Critical DMEs Exist

Radars

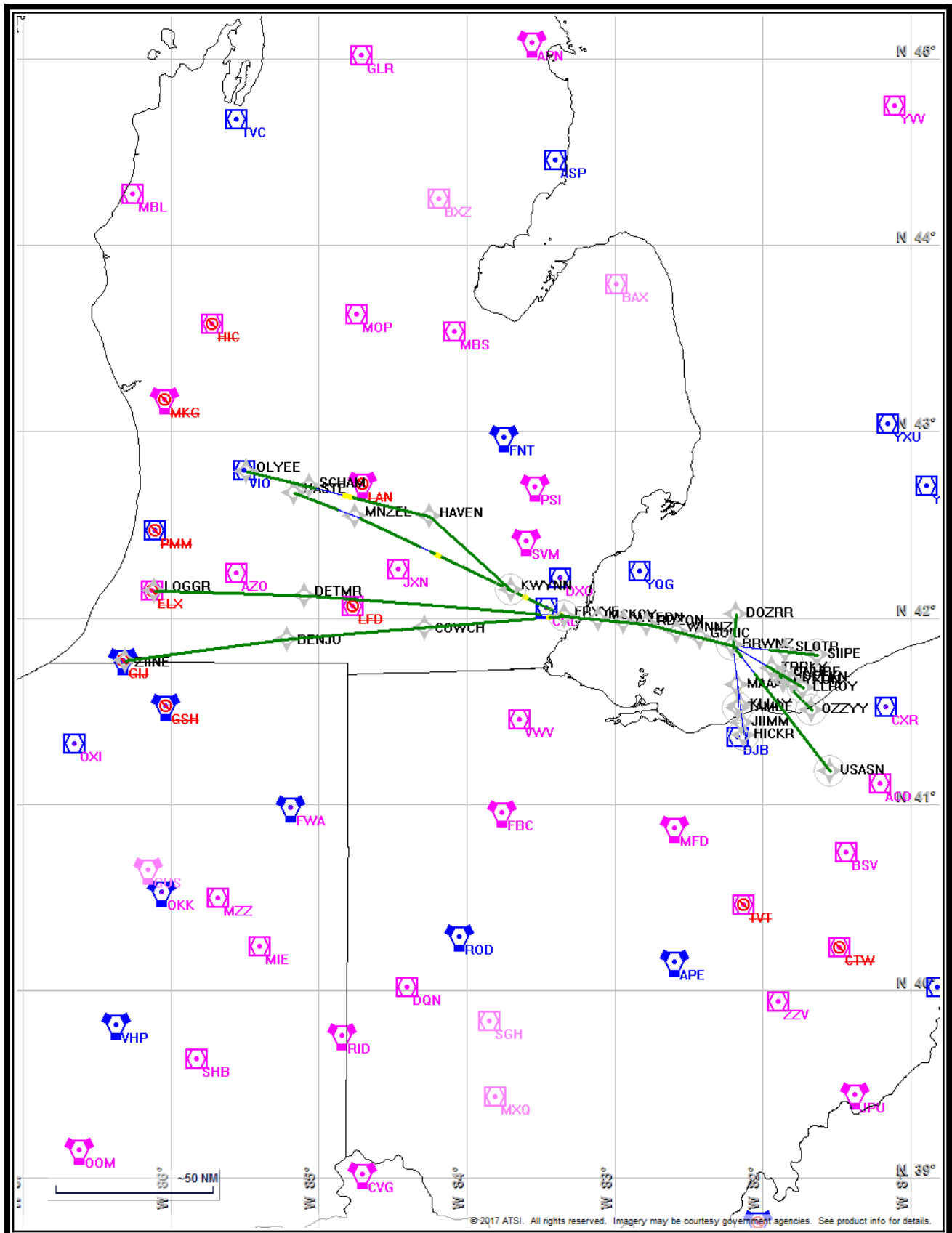


Comms



TERPS

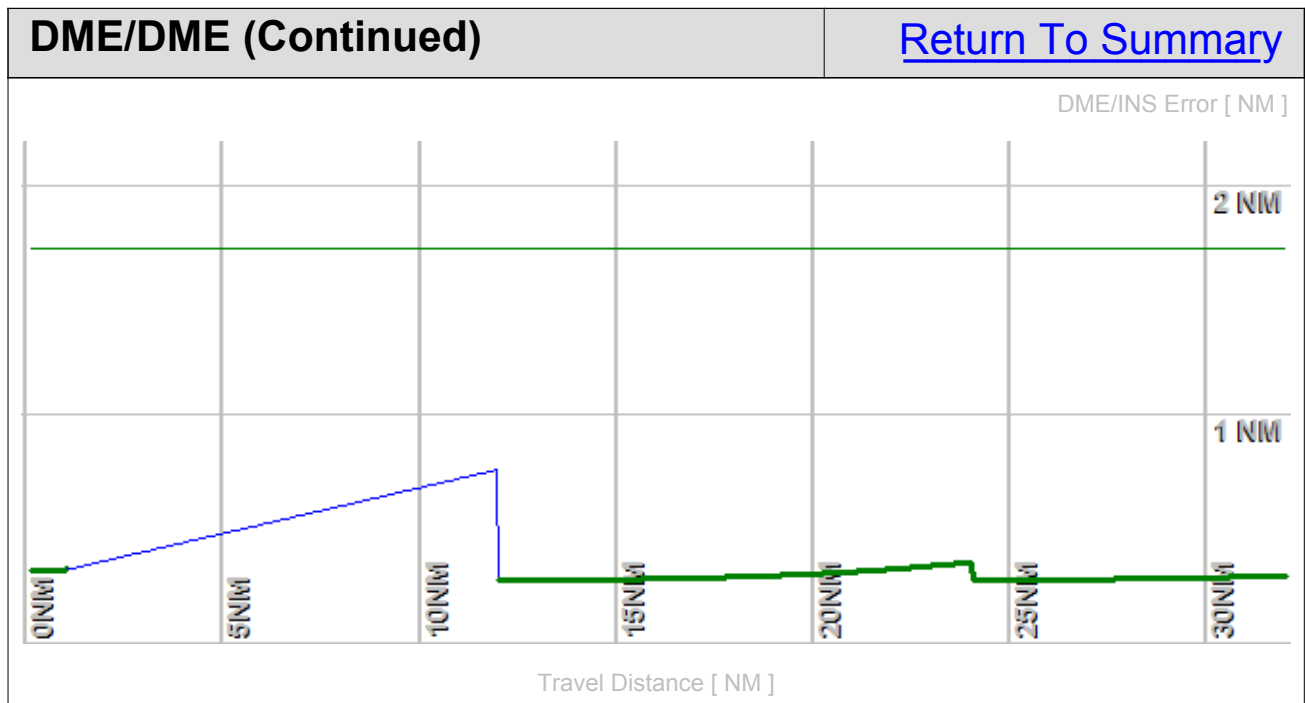




Flight Plan					Return To Summary		
Name	Type	Lat/Lon	Alt [ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
BRWNZ	WP	N 41° 51' 0.43" W 82° 12' 4.69"	8000.0	Step	210.0	Fly By	TF
TRRKY	WP	N 41° 43' 30.40" W 81° 56' 3.92"	5000.0	Step	210.0	Fly By	TF
DYXON	WP	N 41° 39' 37.69" W 81° 51' 18.72"	5000.0	Step	210.0	Fly By	TF
OZZYY	WP	N 41° 30' 18.32" W 81° 39' 56.47"	5000.0	Step	210.0	Fly Over	TF

Flyability		Return To Summary
Settings:	Flight Type: Arrival Selected Airport: KCLE Aircraft Category: Cat D Climb Gradient: <i>None assigned</i> Ground Speeds: 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: <i>None assigned</i> Descent During a Turn: Allowed VNAV Mode: Flight Plan	
	Entire track is fly-able	

DME/DME	Return To Summary
Settings:	<p> RNP: 2.0 Flight Mode: Manual Line of Sight (DTED Level 0 Max): Evaluated DME Restrictions: Evaluated Inertial Drift: Enabled Initial Drift: 0.558 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, Standalone, and User DME Include Angles: 30 to 150 Critical DMEs: Allowed DoD Facilities: Not included Foreign Facilities: Not included Low DMEs: Included Terminal DMEs: Included Flight Check DMEs: Selected Higher Altitudes: Evaluated Near Maximum Altitude: Evaluated </p>
<p> Total Number of DMEs Used: 5 Maximum DME Error: 0.761 NM. No Critical DMEs were found. Available DMEs: PSI, MFD, ACO, DJB, CXR Disabled DMEs: LAN, LFD, ELX, GIJ, PMM, MKG, HIC, PLN, MNM, CTW, JFN, TVT, BDF, DNV, EON, PLL, PNT, RBS, SAM, UIN, VLA, BVT, GSH, ECB, EWO, FLM, YRK, BRD, DWN, HML, ODI, RST, CMK, DNY, GFL, GGT, HNK, HUO, LGA, HTO, MSS, PWL, RKA, SLK, UCA, ULW, CRI, AGC, BFD, CIP, ETG, FJC, FQM, IHD, LVZ, MIP, MXE, REC, SFK, SLT, TDT, THS, AUW, JVL, LNR, STE, CKB, ESL, HNN, and GRV Foreign DMEs within range: YEE, YQG, YQO, YVV, YWT, YXU, YYZ, UTR, YCF </p>	



DME/DME (Continued)						Return To Summary			
DMEs Used									
#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	PSI	N 42° 42' 3.09" W 83° 31' 57.98" 03 W	L + ESV	User	NO	0.771	Enabled	3.1%	3.1%
2	MFD	N 40° 52' 7.00" W 82° 35' 27.46" 03 W	L + ESV	User	NO	0.843	Enabled	3.1%	3.1%
3	CXR	N 41° 31' 0.94" W 81° 9' 47.47" 05 W	H + ESV	User	NO	1.243	Enabled	37.7%	37.7%
4	DJB	N 41° 21' 29.03" W 82° 9' 43.09" 05 W	H	Database	NO	1.243	Enabled	62.7%	62.7%
5	ACO	N 41° 6' 28.45" W 81° 12' 5.49" 04 W	L + ESV	User	NO	0.761	Enabled	25.0%	25.0%
	Total Coverage							65.8%	65.8%
Flight Check DME Selection									
Distance [NM]		Selected DMEs						Alternate	
0.0		CXR	DJB	ACO	PSI	MFD			
13.7		CXR	DJB						
19.4		CXR	DJB	ACO					
Inertial Drift Segments									
#	Start Location			End Location			Length [NM]		
1	N 41° 50' 26.80" W 82° 10' 52.59"			N 41° 44' 40.17" W 81° 58' 32.24"			10.9		
VOR: CLE			Available from N 41° 50' 26.80" W 82° 10' 52.59" to N 41° 44' 40.17" W 81° 58' 32.24"						
VOR: DJB			Available from N 41° 50' 26.80" W 82° 10' 52.59" to N 41° 44' 40.17" W 81° 58' 32.24"						
VOR: YQG			Available from N 41° 50' 26.80" W 82° 10' 52.59" to N 41° 49' 21.48" W 82° 8' 32.62"						
VOR: CXR			Available from N 41° 45' 12.07" W 81° 59' 40.14" to N 41° 44' 40.17" W 81° 58' 32.24"						

Available DMEs by Waypoints		Return To Summary
Waypoint Before	Waypoint After	DME List
BRWNZ	TRRKY	CXR, ACO, MFD, PSI, and DJB
TRRKY	DYXON	CXR and DJB
DYXON	OZZYY	CXR, ACO, and DJB

User Data					Return To Summary		
User Data Files							
#	File Name						
1	BRWNZ1_New.udt						
User DMEs							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	LAN	N 42° 43' 2.62" W 84° 41' 51.03" 05 W	L	887.4	110.80	LAN	Disabled
2	LFD	N 42° 3' 44.96" W 84° 45' 54.48" 05 W	L	1040.0	111.20	LFD	Disabled
Restriction:		Bearing [True]: 105.0° to 160.0° Bearing [Mag]: 110.0° to 165.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
3	ELX	N 42° 8' 39.88" W 86° 7' 21.74" 00 E	L	793.7	116.60	ELX	Disabled
4	GIJ	N 41° 46' 7.00" W 86° 19' 6.42" 00 E	H	802.7	115.40	GIJ	Disabled
Restriction:		Bearing [True]: 360.0° to 360.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3500.0 ft		
5	PMM	N 42° 27' 57.73" W 86° 6' 17.32" 00 E	H	639.9	112.10	PMM	Disabled
Restriction:		Bearing [True]: 360.0° to 360.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
6	MKG	N 43° 10' 9.31" W 86° 2' 21.76" 01 W	L	659.1	115.20	MKG	Disabled
Restriction:		Bearing [True]: 54.0° to 89.0° Bearing [Mag]: 55.0° to 90.0°			Distance: Beyond 10.0 NM Altitude: Below 4000.0 ft		
7	HIC	N 43° 34' 29.47" W 85° 42' 58.18" 01 W	L	920.0	117.60	HIC	Disabled
Restriction:		Bearing [True]: 19.0° to 89.0° Bearing [Mag]: 20.0° to 90.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 269.0° to 289.0° Bearing [Mag]: 270.0° to 290.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
8	PLN	N 45° 37' 50.33" W 84° 39' 50.79" 06 W	L	835.3	111.80	PLN	Disabled
9	MNM	N 45° 10' 48.58" W 87° 38' 49.83" 00 E	L	650.1	109.60	MNM	Disabled
10	CTW	N 40° 13' 45.15" W 81° 28' 35.32" 07 W	L	1180.0	111.80	CTW	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
11	JFN	N 41° 45' 36.42" W 80° 44' 53.20" 05 W	L	896.3	115.20	JFN	Disabled
Restriction:		Bearing [True]: 226.0° to 255.0° Bearing [Mag]: 231.0° to 260.0°			Distance: Beyond 30.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 121.0° to 185.0° Bearing [Mag]: 126.0° to 190.0°			Distance: Beyond 20.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 186.0° to 225.0° Bearing [Mag]: 191.0° to 230.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 80.0° to 120.0° Bearing [Mag]: 85.0° to 125.0°			Distance: Beyond 35.0 NM Altitude: Below 3500.0 ft		
12	TVT	N 40° 27' 29.04" W 82° 7' 36.52" 03 W	L	1330.4	116.50	TVT	Disabled
13	BDF	N 41° 9' 35.03" W 89° 35' 16.34" 00 E	H	810.0	114.70	BDF	Disabled
14	DNV	N 40° 17' 37.56" W 87° 33' 26.14" 02 E	L	698.8	111.00	DNV	Disabled
15	EON	N 41° 16' 10.68" W 87° 47' 27.79" 02 E	L	688.7	113.20	EON	Disabled
16	PLL	N 41° 57' 56.31" W 89° 31' 27.19" 03 E	L	840.0	111.20	PLL	Disabled
17	PNT	N 40° 49' 16.32" W 88° 44' 0.63" 03 E	L	680.0	109.60	PNT	Disabled
18	RBS	N 40° 34' 54.13" W 88° 9' 51.36" 02 E	L	780.0	116.80	RBS	Disabled
19	SAM	N 38° 29' 6.68" W 88° 5' 8.90" 03 E	L	540.0	116.60	SAM	Disabled
20	UIN	N 39° 50' 52.35" W 91° 16' 44.13" 05 E	H	715.1	113.60	UIN	Disabled
21	VLA	N 39° 5' 37.82" W 89° 9' 44.08" 04 E	L	605.5	114.30	VLA	Disabled
22	BVT	N 40° 33' 22.22" W 87° 4' 9.75" 01 E	H	752.2	115.10	BVT	Disabled
Restriction:		Bearing [True]: 299.0° to 45.0° Bearing [Mag]: 298.0° to 44.0°			Distance: Beyond 0.0 NM Altitude: Below 2800.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
23	GSH	N 41° 31' 30.56" W 86° 1' 40.63" 00 E	H	851.8	113.70	GSH	Disabled
Restriction:		Bearing [True]: 71.0° to 129.0° Bearing [Mag]: 71.0° to 129.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
24	ECB	N 38° 9' 30.11" W 82° 54' 36.20" 02 W	L	1070.0	110.40	ECB	Disabled
25	EWO	N 37° 37' 54.52" W 85° 40' 33.16" 01 E	L	960.0	110.80	EWO	Disabled
26	FLM	N 38° 38' 57.99" W 84° 18' 38.17" 04 W	H	808.5	117.00	FLM	Disabled
27	YRK	N 38° 38' 38.88" W 82° 58' 42.02" 05 W	L	1040.0	112.80	YRK	Disabled
28	BRD	N 46° 20' 53.81" W 94° 1' 33.54" 03 E	H	1253.9	116.90	BRD	Disabled
Restriction:		Bearing [True]: 3.0° to 3.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 29.0 NM Altitude: Below 3000.0 ft		
29	DWN	N 45° 5' 14.87" W 94° 27' 13.86" 07 E	L	1130.0	109.00	DWN	Disabled
30	HML	N 48° 52' 9.07" W 97° 7' 4.45" 09 E	H	797.4	112.40	HML	Disabled
Restriction:		Bearing [True]: 84.0° to 94.0° Bearing [Mag]: 75.0° to 85.0°			Distance: Beyond 0.0 NM Altitude: Below 10000.0 ft		
Restriction:		Bearing [True]: 95.0° to 263.0° Bearing [Mag]: 86.0° to 254.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 264.0° to 279.0° Bearing [Mag]: 255.0° to 270.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 280.0° to 83.0° Bearing [Mag]: 271.0° to 74.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
31	ODI	N 43° 54' 44.38" W 91° 28' 3.06" 01 E	H	1282.2	117.90	ODI	Disabled
32	RST	N 43° 46' 58.45" W 92° 35' 49.06" 05 E	L	1393.0	112.00	RST	Disabled
33	CMK	N 41° 16' 48.32" W 73° 34' 52.77" 12 W	L	693.8	116.60	CMK	Disabled
34	DNY	N 42° 10' 41.81" W 74° 57' 24.99" 11 W	L	2560.0	112.10	DNY	Disabled

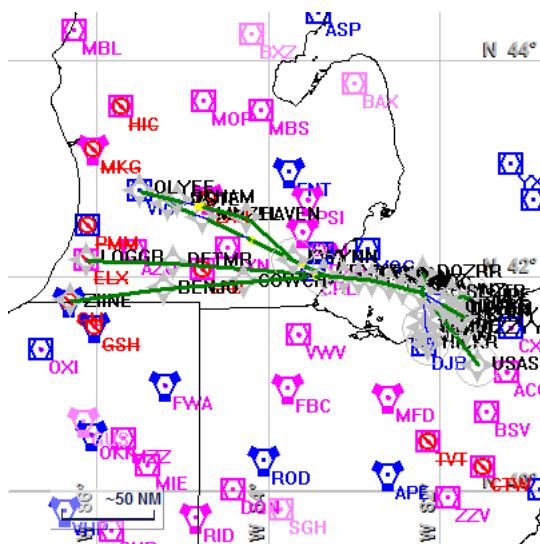
User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
35	GFL	N 43° 20' 30.09" W 73° 36' 42.32" 14 W	L	323.7	110.20	GFL	Disabled
Restriction:		Bearing [True]: 346.0° to 346.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 0.0 NM Altitude: Below 9000.0 ft		
36	GGT	N 42° 47' 20.24" W 75° 49' 36.29" 11 W	L	2040.0	117.80	GGT	Disabled
37	HNK	N 42° 3' 47.00" W 75° 18' 58.62" 11 W	H	2070.0	116.80	HNK	Disabled
38	HUO	N 41° 24' 34.87" W 74° 35' 29.74" 11 W	H	1300.3	116.10	HUO	Disabled
39	LGA	N 40° 47' 1.38" W 73° 52' 6.96" 12 W	L	8.9	113.10	LGA	Disabled
Restriction:		Bearing [True]: 233.0° to 268.0° Bearing [Mag]: 245.0° to 280.0°			Distance: Beyond 25.0 NM Altitude: Below 6000.0 ft		
40	HTO	N 40° 55' 8.38" W 72° 19' 0.14" 13 W	H	22.0	113.60	HTO	Disabled
Restriction:		Bearing [True]: 267.0° to 312.0° Bearing [Mag]: 280.0° to 325.0°			Distance: Beyond 35.0 NM Altitude: Below 1700.0 ft		
Restriction:		Bearing [True]: 312.0° to 342.0° Bearing [Mag]: 325.0° to 355.0°			Distance: Beyond 30.0 NM Altitude: Below 2000.0 ft		
41	MSS	N 44° 54' 51.92" W 74° 43' 21.78" 14 W	H	197.5	114.10	MSS	Disabled
42	PWL	N 41° 46' 11.18" W 73° 36' 1.99" 12 W	L	1250.0	114.30	PWL	Disabled
43	RKA	N 42° 27' 58.91" W 75° 14' 21.51" 11 W	L	2027.2	112.60	RKA	Disabled
44	SLK	N 44° 23' 4.41" W 74° 12' 16.21" 14 W	L	1646.8	109.20	SLK	Disabled
45	UCA	N 43° 1' 35.45" W 75° 9' 52.28" 12 W	L	1420.0	111.20	UCA	Disabled
46	ULW	N 42° 5' 39.16" W 77° 1' 28.53" 12 W	L	1631.8	109.65	ULW	Disabled
47	CRI	N 40° 36' 44.90" W 73° 53' 40.00" 11 W	T	10.0	112.30	CRI	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
48	AGC	N 40° 16' 43.12" W 80° 2' 27.08" 09 W	L	1284.6	110.00	AGC	Disabled
49	BFD	N 41° 47' 10.99" W 78° 37' 9.65" 07 W	L	2110.6	116.60	BFD	Disabled
50	CIP	N 41° 8' 46.66" W 79° 27' 28.71" 06 W	L	1519.5	112.90	CIP	Disabled
51	ETG	N 41° 12' 53.82" W 78° 8' 33.92" 10 W	H	2250.0	116.00	ETG	Disabled
52	FJC	N 40° 43' 36.12" W 75° 27' 17.12" 10 W	L	680.6	117.50	FJC	Disabled
Restriction:		Bearing [True]: 290.0° to 50.0° Bearing [Mag]: 300.0° to 60.0°			Distance: Beyond 26.0 NM Altitude: Below 4500.0 ft		
Restriction:		Bearing [True]: 51.0° to 289.0° Bearing [Mag]: 61.0° to 299.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
53	FQM	N 41° 20' 18.81" W 76° 46' 29.52" 09 W	L	2098.0	114.40	FQM	Disabled
54	IHD	N 39° 58' 27.27" W 79° 21' 30.12" 06 W	L	2820.0	108.20	IHD	Disabled
55	LVZ	N 41° 16' 22.09" W 75° 41' 22.08" 10 W	L	2118.8	111.60	LVZ	Disabled
56	MIP	N 41° 1' 24.21" W 76° 39' 55.04" 09 W	L	1000.0	109.20	MIP	Disabled
57	MXE	N 39° 55' 5.00" W 75° 40' 14.91" 09 W	L	473.4	113.20	MXE	Disabled
58	REC	N 40° 32' 47.25" W 78° 44' 49.28" 09 W	L	2340.0	110.60	REC	Disabled
59	SFK	N 41° 41' 42.91" W 77° 25' 11.66" 08 W	L	1984.7	108.60	SFK	Disabled
60	SLT	N 41° 30' 45.93" W 77° 58' 12.39" 08 W	H	2310.0	113.90	SLT	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
61	TDT	N 41° 42' 46.91" W 79° 25' 2.17" 09 W	L	1710.0	117.60	TDT	Disabled
Restriction:		Bearing [True]: 32.0° to 42.0° Bearing [Mag]: 41.0° to 51.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
Restriction:		Bearing [True]: 296.0° to 331.0° Bearing [Mag]: 305.0° to 340.0°			Distance: Beyond 24.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 331.0° to 356.0° Bearing [Mag]: 340.0° to 5.0°			Distance: Beyond 24.0 NM Altitude: Below 5000.0 ft		
62	THS	N 39° 55' 59.62" W 77° 57' 3.40" 07 W	L	2338.0	115.00	THS	Disabled
63	AUW	N 44° 50' 48.40" W 89° 35' 11.68" 02 E	L	1204.7	111.60	AUW	Disabled
Restriction:		Bearing [True]: 322.0° to 302.0° Bearing [Mag]: 320.0° to 300.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 302.0° to 322.0° Bearing [Mag]: 300.0° to 320.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
64	JVL	N 42° 33' 28.83" W 89° 6' 18.93" 03 E	L	931.4	114.30	JVL	Disabled
65	LNR	N 43° 17' 39.85" W 90° 7' 59.33" 00 E	L	1184.6	112.80	LNR	Disabled
66	STE	N 44° 32' 35.69" W 89° 31' 50.02" 01 W	L	1110.0	110.60	STE	Disabled
Restriction:		Bearing [True]: 359.0° to 359.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
67	CKB	N 39° 15' 11.57" W 80° 16' 4.32" 04 W	L	1425.7	112.60	CKB	Disabled
68	ESL	N 39° 13' 31.77" W 78° 59' 22.20" 06 W	L	2590.0	110.80	ESL	Disabled
69	HNN	N 38° 45' 14.85" W 82° 1' 34.20" 03 W	H	880.0	115.90	HNN	Disabled
70	GRV	N 39° 38' 6.11" W 79° 3' 1.90" 06 W	L	2640.0	112.30	GRV	Disabled
Restriction:		Bearing [True]: 301.0° to 64.0° Bearing [Mag]: 307.0° to 70.0°			Distance: Beyond 20.0 NM Altitude: Below 5000.0 ft		
Restriction:		Bearing [True]: 65.0° to 300.0° Bearing [Mag]: 71.0° to 306.0°			Distance: Beyond 20.0 NM Altitude: Below 6000.0 ft		
Restriction:		Bearing [True]: 102.0° to 107.0° Bearing [Mag]: 108.0° to 113.0°			Distance: Beyond 38.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 319.0° to 339.0° Bearing [Mag]: 325.0° to 345.0°			Distance: Beyond 35.0 NM Altitude: Below 99999.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
71	CRL	N 42° 2' 52.90" W 83° 27' 27.30" 03 W	H	629.0	115.70	CRL	Not Used
		ESV:	Bearing [True]: 259.0° to 268.0° Bearing [Mag]: 262.0° to 271.0°		Arc Distance: Out to 103.0 NM Altitude: 10000.0 to 16000.0 ft		
		ESV:	Bearing [True]: 293.0° to 359.0° Bearing [Mag]: 296.0° to 2.0°		Arc Distance: Out to 102.0 NM Altitude: 8500.0 to 16000.0 ft		
		ESV:	Bearing [True]: 65.0° to 98.0° Bearing [Mag]: 68.0° to 101.0°		Arc Distance: Out to 64.0 NM Altitude: 4000.0 to 16000.0 ft		
72	FWA	N 40° 58' 44.63" W 85° 11' 17.01" 06 W	H	792.6	117.80	FWA	Not Used
		Restriction:	Bearing [True]: 55.0° to 65.0° Bearing [Mag]: 61.0° to 71.0°		Distance: Beyond 0.0 NM Altitude: Below 7000.0 ft		
		Restriction:	Bearing [True]: 354.0° to 354.0° Bearing [Mag]: 360.0° to 360.0°		Distance: Beyond 33.0 NM Altitude: Below 2800.0 ft		
		Restriction:	Bearing [True]: 170.0° to 210.0° Bearing [Mag]: 176.0° to 216.0°		Distance: Beyond 22.0 NM Altitude: Below 4000.0 ft		
		Restriction:	Bearing [True]: 260.0° to 290.0° Bearing [Mag]: 266.0° to 296.0°		Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
		ESV:	Bearing [True]: 306.0° to 359.0° Bearing [Mag]: 312.0° to 5.0°		Arc Distance: Out to 101.0 NM Altitude: 10000.0 to 20000.0 ft		
73	VWV	N 41° 27' 5.35" W 83° 38' 19.30" 02 W	L	664.2	113.10	VWV	Not Used
		ESV:	Bearing [True]: 283.0° to 324.0° Bearing [Mag]: 285.0° to 326.0°		Arc Distance: Out to 85.0 NM Altitude: 10000.0 to 20000.0 ft		
		ESV:	Bearing [True]: 50.0° to 71.0° Bearing [Mag]: 52.0° to 73.0°		Arc Distance: Out to 78.0 NM Altitude: 6700.0 to 20000.0 ft		
74	PSI	N 42° 42' 3.09" W 83° 31' 57.98" 03 W	L	1149.3	111.00	PSI	Used
		Restriction:	Bearing [True]: 167.0° to 207.0° Bearing [Mag]: 170.0° to 210.0°		Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
		ESV:	Bearing [True]: 125.0° to 167.0° Bearing [Mag]: 128.0° to 170.0°		Arc Distance: Out to 80.0 NM Altitude: 7400.0 to 11000.0 ft		
75	SVM	N 42° 24' 31.09" W 83° 35' 38.05" 03 W	L	955.8	114.30	SVM	Not Used
		ESV:	Bearing [True]: 223.0° to 252.0° Bearing [Mag]: 226.0° to 255.0°		Arc Distance: Out to 81.0 NM Altitude: 10000.0 to 17000.0 ft		
		ESV:	Bearing [True]: 89.0° to 117.0° Bearing [Mag]: 92.0° to 120.0°		Arc Distance: Out to 73.0 NM Altitude: 6200.0 to 20000.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
76	MFD	N 40° 52' 7.00" W 82° 35' 27.46" 03 W	L	1222.0	108.80	MFD	Used
Restriction:		Bearing [True]: 72.0° to 92.0° Bearing [Mag]: 75.0° to 95.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 148.0° to 211.0° Bearing [Mag]: 151.0° to 214.0°			Distance: Beyond 30.0 NM Altitude: Below 99999.0 ft		
ESV:		Bearing [True]: 325.0° to 43.0° Bearing [Mag]: 328.0° to 46.0°			Arc Distance: Out to 80.0 NM Altitude: 6400.0 to 20000.0 ft		
77	ACO	N 41° 6' 28.45" W 81° 12' 5.49" 04 W	L	1198.4	114.40	ACO	Used
ESV:		Bearing [True]: 303.0° to 321.0° Bearing [Mag]: 307.0° to 325.0°			Arc Distance: Out to 82.0 NM Altitude: 7700.0 to 11000.0 ft		
78	DXO	N 42° 12' 47.29" W 83° 22' 0.00" 06 W	H	637.7	113.40	DXO	Not Used
Restriction:		Bearing [True]: 354.0° to 354.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 30.0 NM Altitude: Below 2900.0 ft		
ESV:		Bearing [True]: 279.0° to 333.0° Bearing [Mag]: 285.0° to 339.0°			Arc Distance: Out to 106.0 NM Altitude: 9700.0 to 20000.0 ft		
79	OKK	N 40° 31' 40.01" W 86° 3' 28.79" 05 W	H	825.8	113.50	OKK	Not Used
Restriction:		Bearing [True]: 171.0° to 229.0° Bearing [Mag]: 176.0° to 234.0°			Distance: Beyond 35.0 NM Altitude: Below 2400.0 ft		
ESV:		Bearing [True]: 356.0° to 50.0° Bearing [Mag]: 1.0° to 55.0°			Arc Distance: Out to 101.0 NM Altitude: 9900.0 to 20000.0 ft		
80	OBK	N 42° 13' 16.96" W 87° 57' 5.83" 02 W	H	707.0	113.00	OBK	Not Used
ESV:		Bearing [True]: 87.0° to 97.0° Bearing [Mag]: 89.0° to 99.0°			Arc Distance: Out to 103.0 NM Altitude: 10000.0 to 20000.0 ft		
81	OXI	N 41° 19' 19.35" W 86° 38' 57.45" 00 E	H	690.0	115.60	OXI	Not Used
ESV:		Bearing [True]: 360.0° to 138.0° Bearing [Mag]: 360.0° to 138.0°			Arc Distance: Out to 106.0 NM Altitude: 10000.0 to 20000.0 ft		
82	CXR	N 41° 31' 0.94" W 81° 9' 47.47" 05 W	H	1317.2	112.70	CXR	Used
ESV:		Bearing [True]: 298.0° to 343.0° Bearing [Mag]: 303.0° to 348.0°			Arc Distance: Out to 73.0 NM Altitude: 6200.0 to 16000.0 ft		



Name: Paul Jackson
Project Name: KCLE BRWNZ STAR
Output File: KCLE BRWNZ1 STAR
BRWNZ SIIPE
20171030_1021
Procedure Name: BRWNZ1
Software: RNAV-Pro™
Version: 2.39
Date/Time: 10/30/2017 10:24:08 AM
Input File: KCLE BRWNZ1 STAR
BRWNZ SIIPE
20170828_1041.txt
Databases: AIRNAV Date: 9/17/2017
CIFP Date: 7/20/2017
DTED® (MAX) Date: 2002

Results Summary:

Flyability



DME/DME



No Critical DMEs Exist

Radars

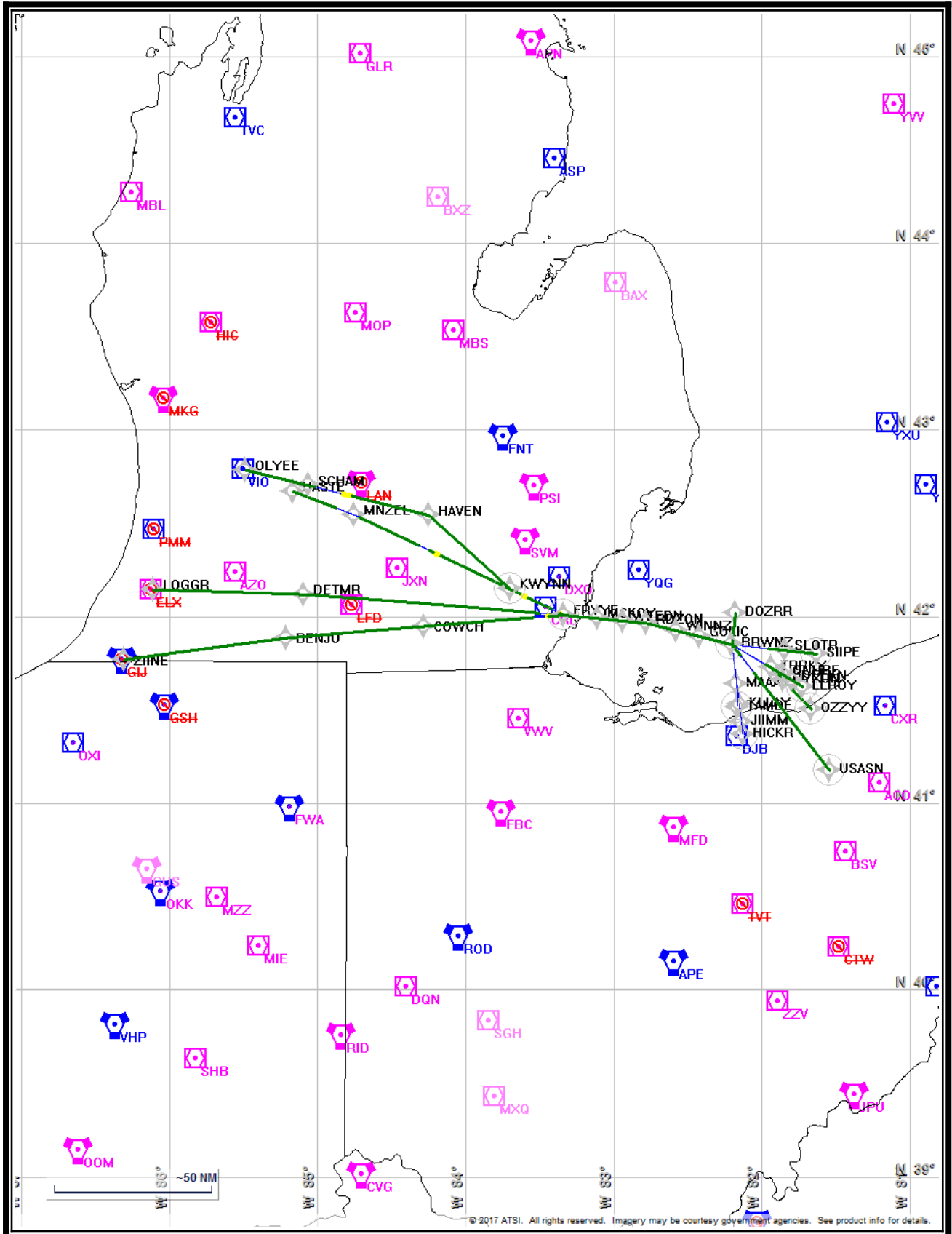


Comms



TERPS

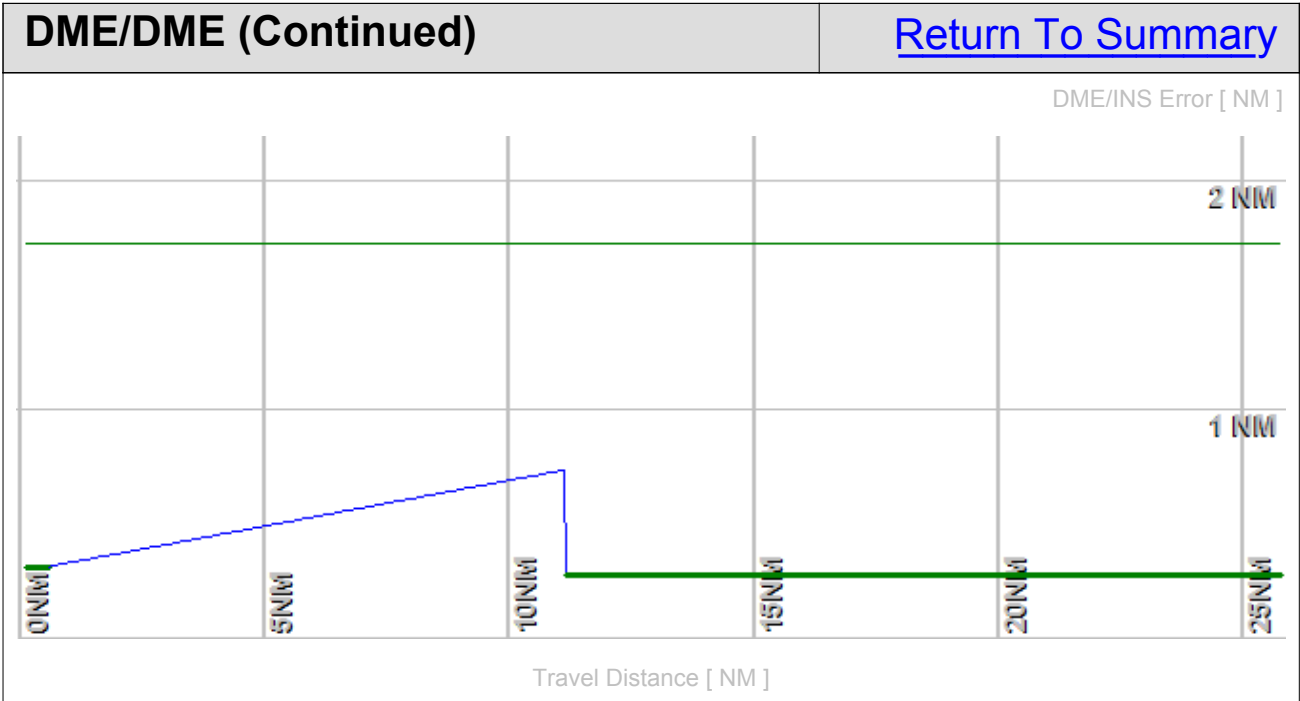




Flight Plan					Return To Summary		
Name	Type	Lat/Lon	Alt [ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
BRWNZ	WP	N 41° 51' 0.43" W 82° 12' 4.69"	8000.0	Step	180.0	Fly By	TF
SLOTR	WP	N 41° 49' 10.66" W 81° 50' 47.94"	7000.0	Step	180.0	Fly By	TF
SIIPE	WP	N 41° 48' 2.30" W 81° 37' 45.77"	6000.0	Step	180.0	Fly Over	TF

Flyability		Return To Summary
Settings:	Flight Type: Arrival Selected Airport: KCLE Aircraft Category: Cat D Climb Gradient: <i>None assigned</i> Ground Speeds: 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: <i>None assigned</i> Descent During a Turn: Allowed VNAV Mode: Flight Plan	
	Entire track is fly-able	

DME/DME	Return To Summary
Settings:	<p> RNP: 2.0 Flight Mode: Manual Line of Sight (DTED Level 0 Max): Evaluated DME Restrictions: Evaluated Inertial Drift: Enabled Initial Drift: 0.558 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, Standalone, and User DME Include Angles: 30 to 150 Critical DMEs: Allowed DoD Facilities: Not included Foreign Facilities: Not included Low DMEs: Included Terminal DMEs: Included Flight Check DMEs: Selected Higher Altitudes: Evaluated Near Maximum Altitude: Evaluated </p>
<p>Total Number of DMEs Used: 4</p> <p>Maximum DME Error: 0.738 NM.</p> <p>No Critical DMEs were found.</p> <p>Available DMEs: MFD, ACO, DJB, CXR</p> <p>Disabled DMEs: LAN, LFD, ELX, GIJ, PMM, MKG, HIC, PLN, MNM, CTW, JFN, TVT, BDF, DNV, EON, PLL, PNT, RBS, SAM, UIN, VLA, BVT, GSH, ECB, EWO, FLM, YRK, BRD, DWN, HML, ODI, RST, CMK, DNY, GFL, GGT, HNK, HUO, LGA, HTO, MSS, PWL, RKA, SLK, UCA, ULW, CRI, AGC, BFD, CIP, ETG, FJC, FQM, IHD, LVZ, MIP, MXE, REC, SFK, SLT, TDT, THS, AUW, JVL, LNR, STE, CKB, ESL, HNN, and GRV</p> <p>Foreign DMEs within range: YEE, YQG, YQO, YVV, YWT, YXU, YYZ, UTR, YCF</p>	



DME/DME (Continued)						Return To Summary			
DMEs Used									
#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	MFD	N 40° 52' 7.00" W 82° 35' 27.46" 03 W	L + ESV	User	NO	0.834	Enabled	25.6%	25.6%
2	ACO	N 41° 6' 28.45" W 81° 12' 5.49" 04 W	L + ESV	User	NO	1.002	Enabled	1.9%	1.9%
3	CXR	N 41° 31' 0.94" W 81° 9' 47.47" 05 W	H + ESV	User	NO	1.325	Enabled	56.9%	56.9%
4	DJB	N 41° 21' 29.03" W 82° 9' 43.09" 05 W	H	Database	NO	0.738	Enabled	33.2%	33.2%
	Total Coverage							58.8%	58.8%
Flight Check DME Selection									
Distance [NM]		Selected DMEs						Alternate	
0.0		ACO	MFD	CXR	DJB				
16.0		MFD	CXR	DJB					
Inertial Drift Segments									
#	Start Location			End Location			Length [NM]		
1	N 41° 50' 56.68" W 82° 11' 20.26"			N 41° 49' 44.71" W 81° 57' 18.45"			10.6		
VOR: CLE			Available from N 41° 50' 56.68" W 82° 11' 20.26" to N 41° 49' 44.71" W 81° 57' 18.45"						
VOR: DJB			Available from N 41° 50' 56.68" W 82° 11' 20.26" to N 41° 49' 44.71" W 81° 57' 18.45"						
VOR: YQG			Available from N 41° 50' 56.68" W 82° 11' 20.26" to N 41° 50' 35.67" W 82° 7' 11.98"						

Available DMEs by Waypoints		Return To Summary
Waypoint Before	Waypoint After	DME List
BRWNZ	SLOTR	CXR, ACO, MFD, and DJB
SLOTR	SIIPE	CXR, MFD, and DJB

User Data					Return To Summary		
User Data Files							
#	File Name						
1	BRWNZ1_New.udt						
User DMEs							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	LAN	N 42° 43' 2.62" W 84° 41' 51.03" 05 W	L	887.4	110.80	LAN	Disabled
2	LFD	N 42° 3' 44.96" W 84° 45' 54.48" 05 W	L	1040.0	111.20	LFD	Disabled
Restriction:		Bearing [True]: 105.0° to 160.0° Bearing [Mag]: 110.0° to 165.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
3	ELX	N 42° 8' 39.88" W 86° 7' 21.74" 00 E	L	793.7	116.60	ELX	Disabled
4	GIJ	N 41° 46' 7.00" W 86° 19' 6.42" 00 E	H	802.7	115.40	GIJ	Disabled
Restriction:		Bearing [True]: 360.0° to 360.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3500.0 ft		
5	PMM	N 42° 27' 57.73" W 86° 6' 17.32" 00 E	H	639.9	112.10	PMM	Disabled
Restriction:		Bearing [True]: 360.0° to 360.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
6	MKG	N 43° 10' 9.31" W 86° 2' 21.76" 01 W	L	659.1	115.20	MKG	Disabled
Restriction:		Bearing [True]: 54.0° to 89.0° Bearing [Mag]: 55.0° to 90.0°			Distance: Beyond 10.0 NM Altitude: Below 4000.0 ft		
7	HIC	N 43° 34' 29.47" W 85° 42' 58.18" 01 W	L	920.0	117.60	HIC	Disabled
Restriction:		Bearing [True]: 19.0° to 89.0° Bearing [Mag]: 20.0° to 90.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 269.0° to 289.0° Bearing [Mag]: 270.0° to 290.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
8	PLN	N 45° 37' 50.33" W 84° 39' 50.79" 06 W	L	835.3	111.80	PLN	Disabled
9	MNM	N 45° 10' 48.58" W 87° 38' 49.83" 00 E	L	650.1	109.60	MNM	Disabled
10	CTW	N 40° 13' 45.15" W 81° 28' 35.32" 07 W	L	1180.0	111.80	CTW	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
11	JFN	N 41° 45' 36.42" W 80° 44' 53.20" 05 W	L	896.3	115.20	JFN	Disabled
Restriction:		Bearing [True]: 226.0° to 255.0° Bearing [Mag]: 231.0° to 260.0°			Distance: Beyond 30.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 121.0° to 185.0° Bearing [Mag]: 126.0° to 190.0°			Distance: Beyond 20.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 186.0° to 225.0° Bearing [Mag]: 191.0° to 230.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 80.0° to 120.0° Bearing [Mag]: 85.0° to 125.0°			Distance: Beyond 35.0 NM Altitude: Below 3500.0 ft		
12	TVT	N 40° 27' 29.04" W 82° 7' 36.52" 03 W	L	1330.4	116.50	TVT	Disabled
13	BDF	N 41° 9' 35.03" W 89° 35' 16.34" 00 E	H	810.0	114.70	BDF	Disabled
14	DNV	N 40° 17' 37.56" W 87° 33' 26.14" 02 E	L	698.8	111.00	DNV	Disabled
15	EON	N 41° 16' 10.68" W 87° 47' 27.79" 02 E	L	688.7	113.20	EON	Disabled
16	PLL	N 41° 57' 56.31" W 89° 31' 27.19" 03 E	L	840.0	111.20	PLL	Disabled
17	PNT	N 40° 49' 16.32" W 88° 44' 0.63" 03 E	L	680.0	109.60	PNT	Disabled
18	RBS	N 40° 34' 54.13" W 88° 9' 51.36" 02 E	L	780.0	116.80	RBS	Disabled
19	SAM	N 38° 29' 6.68" W 88° 5' 8.90" 03 E	L	540.0	116.60	SAM	Disabled
20	UIN	N 39° 50' 52.35" W 91° 16' 44.13" 05 E	H	715.1	113.60	UIN	Disabled
21	VLA	N 39° 5' 37.82" W 89° 9' 44.08" 04 E	L	605.5	114.30	VLA	Disabled
22	BVT	N 40° 33' 22.22" W 87° 4' 9.75" 01 E	H	752.2	115.10	BVT	Disabled
Restriction:		Bearing [True]: 299.0° to 45.0° Bearing [Mag]: 298.0° to 44.0°			Distance: Beyond 0.0 NM Altitude: Below 2800.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
23	GSH	N 41° 31' 30.56" W 86° 1' 40.63" 00 E	H	851.8	113.70	GSH	Disabled
Restriction:		Bearing [True]: 71.0° to 129.0° Bearing [Mag]: 71.0° to 129.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
24	ECB	N 38° 9' 30.11" W 82° 54' 36.20" 02 W	L	1070.0	110.40	ECB	Disabled
25	EWO	N 37° 37' 54.52" W 85° 40' 33.16" 01 E	L	960.0	110.80	EWO	Disabled
26	FLM	N 38° 38' 57.99" W 84° 18' 38.17" 04 W	H	808.5	117.00	FLM	Disabled
27	YRK	N 38° 38' 38.88" W 82° 58' 42.02" 05 W	L	1040.0	112.80	YRK	Disabled
28	BRD	N 46° 20' 53.81" W 94° 1' 33.54" 03 E	H	1253.9	116.90	BRD	Disabled
Restriction:		Bearing [True]: 3.0° to 3.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 29.0 NM Altitude: Below 3000.0 ft		
29	DWN	N 45° 5' 14.87" W 94° 27' 13.86" 07 E	L	1130.0	109.00	DWN	Disabled
30	HML	N 48° 52' 9.07" W 97° 7' 4.45" 09 E	H	797.4	112.40	HML	Disabled
Restriction:		Bearing [True]: 84.0° to 94.0° Bearing [Mag]: 75.0° to 85.0°			Distance: Beyond 0.0 NM Altitude: Below 10000.0 ft		
Restriction:		Bearing [True]: 95.0° to 263.0° Bearing [Mag]: 86.0° to 254.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 264.0° to 279.0° Bearing [Mag]: 255.0° to 270.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 280.0° to 83.0° Bearing [Mag]: 271.0° to 74.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
31	ODI	N 43° 54' 44.38" W 91° 28' 3.06" 01 E	H	1282.2	117.90	ODI	Disabled
32	RST	N 43° 46' 58.45" W 92° 35' 49.06" 05 E	L	1393.0	112.00	RST	Disabled
33	CMK	N 41° 16' 48.32" W 73° 34' 52.77" 12 W	L	693.8	116.60	CMK	Disabled
34	DNY	N 42° 10' 41.81" W 74° 57' 24.99" 11 W	L	2560.0	112.10	DNY	Disabled

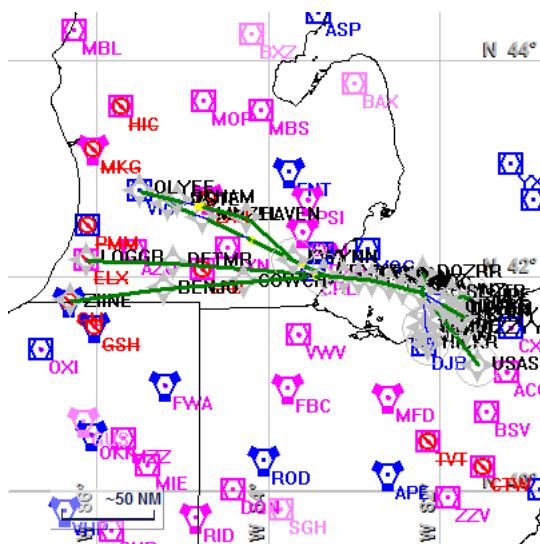
User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
35	GFL	N 43° 20' 30.09" W 73° 36' 42.32" 14 W	L	323.7	110.20	GFL	Disabled
Restriction:		Bearing [True]: 346.0° to 346.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 0.0 NM Altitude: Below 9000.0 ft		
36	GGT	N 42° 47' 20.24" W 75° 49' 36.29" 11 W	L	2040.0	117.80	GGT	Disabled
37	HNK	N 42° 3' 47.00" W 75° 18' 58.62" 11 W	H	2070.0	116.80	HNK	Disabled
38	HUO	N 41° 24' 34.87" W 74° 35' 29.74" 11 W	H	1300.3	116.10	HUO	Disabled
39	LGA	N 40° 47' 1.38" W 73° 52' 6.96" 12 W	L	8.9	113.10	LGA	Disabled
Restriction:		Bearing [True]: 233.0° to 268.0° Bearing [Mag]: 245.0° to 280.0°			Distance: Beyond 25.0 NM Altitude: Below 6000.0 ft		
40	HTO	N 40° 55' 8.38" W 72° 19' 0.14" 13 W	H	22.0	113.60	HTO	Disabled
Restriction:		Bearing [True]: 267.0° to 312.0° Bearing [Mag]: 280.0° to 325.0°			Distance: Beyond 35.0 NM Altitude: Below 1700.0 ft		
Restriction:		Bearing [True]: 312.0° to 342.0° Bearing [Mag]: 325.0° to 355.0°			Distance: Beyond 30.0 NM Altitude: Below 2000.0 ft		
41	MSS	N 44° 54' 51.92" W 74° 43' 21.78" 14 W	H	197.5	114.10	MSS	Disabled
42	PWL	N 41° 46' 11.18" W 73° 36' 1.99" 12 W	L	1250.0	114.30	PWL	Disabled
43	RKA	N 42° 27' 58.91" W 75° 14' 21.51" 11 W	L	2027.2	112.60	RKA	Disabled
44	SLK	N 44° 23' 4.41" W 74° 12' 16.21" 14 W	L	1646.8	109.20	SLK	Disabled
45	UCA	N 43° 1' 35.45" W 75° 9' 52.28" 12 W	L	1420.0	111.20	UCA	Disabled
46	ULW	N 42° 5' 39.16" W 77° 1' 28.53" 12 W	L	1631.8	109.65	ULW	Disabled
47	CRI	N 40° 36' 44.90" W 73° 53' 40.00" 11 W	T	10.0	112.30	CRI	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
48	AGC	N 40° 16' 43.12" W 80° 2' 27.08" 09 W	L	1284.6	110.00	AGC	Disabled
49	BFD	N 41° 47' 10.99" W 78° 37' 9.65" 07 W	L	2110.6	116.60	BFD	Disabled
50	CIP	N 41° 8' 46.66" W 79° 27' 28.71" 06 W	L	1519.5	112.90	CIP	Disabled
51	ETG	N 41° 12' 53.82" W 78° 8' 33.92" 10 W	H	2250.0	116.00	ETG	Disabled
52	FJC	N 40° 43' 36.12" W 75° 27' 17.12" 10 W	L	680.6	117.50	FJC	Disabled
Restriction:		Bearing [True]: 290.0° to 50.0° Bearing [Mag]: 300.0° to 60.0°			Distance: Beyond 26.0 NM Altitude: Below 4500.0 ft		
Restriction:		Bearing [True]: 51.0° to 289.0° Bearing [Mag]: 61.0° to 299.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
53	FQM	N 41° 20' 18.81" W 76° 46' 29.52" 09 W	L	2098.0	114.40	FQM	Disabled
54	IHD	N 39° 58' 27.27" W 79° 21' 30.12" 06 W	L	2820.0	108.20	IHD	Disabled
55	LVZ	N 41° 16' 22.09" W 75° 41' 22.08" 10 W	L	2118.8	111.60	LVZ	Disabled
56	MIP	N 41° 1' 24.21" W 76° 39' 55.04" 09 W	L	1000.0	109.20	MIP	Disabled
57	MXE	N 39° 55' 5.00" W 75° 40' 14.91" 09 W	L	473.4	113.20	MXE	Disabled
58	REC	N 40° 32' 47.25" W 78° 44' 49.28" 09 W	L	2340.0	110.60	REC	Disabled
59	SFK	N 41° 41' 42.91" W 77° 25' 11.66" 08 W	L	1984.7	108.60	SFK	Disabled
60	SLT	N 41° 30' 45.93" W 77° 58' 12.39" 08 W	H	2310.0	113.90	SLT	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
61	TDT	N 41° 42' 46.91" W 79° 25' 2.17" 09 W	L	1710.0	117.60	TDT	Disabled
Restriction:		Bearing [True]: 32.0° to 42.0° Bearing [Mag]: 41.0° to 51.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
Restriction:		Bearing [True]: 296.0° to 331.0° Bearing [Mag]: 305.0° to 340.0°			Distance: Beyond 24.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 331.0° to 356.0° Bearing [Mag]: 340.0° to 5.0°			Distance: Beyond 24.0 NM Altitude: Below 5000.0 ft		
62	THS	N 39° 55' 59.62" W 77° 57' 3.40" 07 W	L	2338.0	115.00	THS	Disabled
63	AUW	N 44° 50' 48.40" W 89° 35' 11.68" 02 E	L	1204.7	111.60	AUW	Disabled
Restriction:		Bearing [True]: 322.0° to 302.0° Bearing [Mag]: 320.0° to 300.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 302.0° to 322.0° Bearing [Mag]: 300.0° to 320.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
64	JVL	N 42° 33' 28.83" W 89° 6' 18.93" 03 E	L	931.4	114.30	JVL	Disabled
65	LNR	N 43° 17' 39.85" W 90° 7' 59.33" 00 E	L	1184.6	112.80	LNR	Disabled
66	STE	N 44° 32' 35.69" W 89° 31' 50.02" 01 W	L	1110.0	110.60	STE	Disabled
Restriction:		Bearing [True]: 359.0° to 359.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
67	CKB	N 39° 15' 11.57" W 80° 16' 4.32" 04 W	L	1425.7	112.60	CKB	Disabled
68	ESL	N 39° 13' 31.77" W 78° 59' 22.20" 06 W	L	2590.0	110.80	ESL	Disabled
69	HNN	N 38° 45' 14.85" W 82° 1' 34.20" 03 W	H	880.0	115.90	HNN	Disabled
70	GRV	N 39° 38' 6.11" W 79° 3' 1.90" 06 W	L	2640.0	112.30	GRV	Disabled
Restriction:		Bearing [True]: 301.0° to 64.0° Bearing [Mag]: 307.0° to 70.0°			Distance: Beyond 20.0 NM Altitude: Below 5000.0 ft		
Restriction:		Bearing [True]: 65.0° to 300.0° Bearing [Mag]: 71.0° to 306.0°			Distance: Beyond 20.0 NM Altitude: Below 6000.0 ft		
Restriction:		Bearing [True]: 102.0° to 107.0° Bearing [Mag]: 108.0° to 113.0°			Distance: Beyond 38.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 319.0° to 339.0° Bearing [Mag]: 325.0° to 345.0°			Distance: Beyond 35.0 NM Altitude: Below 99999.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
71	CRL	N 42° 2' 52.90" W 83° 27' 27.30" 03 W	H	629.0	115.70	CRL	Not Used
		ESV:	Bearing [True]: 259.0° to 268.0° Bearing [Mag]: 262.0° to 271.0°		Arc Distance: Out to 103.0 NM Altitude: 10000.0 to 16000.0 ft		
		ESV:	Bearing [True]: 293.0° to 359.0° Bearing [Mag]: 296.0° to 2.0°		Arc Distance: Out to 102.0 NM Altitude: 8500.0 to 16000.0 ft		
		ESV:	Bearing [True]: 65.0° to 98.0° Bearing [Mag]: 68.0° to 101.0°		Arc Distance: Out to 64.0 NM Altitude: 4000.0 to 16000.0 ft		
72	FWA	N 40° 58' 44.63" W 85° 11' 17.01" 06 W	H	792.6	117.80	FWA	Not Used
		Restriction:	Bearing [True]: 55.0° to 65.0° Bearing [Mag]: 61.0° to 71.0°		Distance: Beyond 0.0 NM Altitude: Below 7000.0 ft		
		Restriction:	Bearing [True]: 354.0° to 354.0° Bearing [Mag]: 360.0° to 360.0°		Distance: Beyond 33.0 NM Altitude: Below 2800.0 ft		
		Restriction:	Bearing [True]: 170.0° to 210.0° Bearing [Mag]: 176.0° to 216.0°		Distance: Beyond 22.0 NM Altitude: Below 4000.0 ft		
		Restriction:	Bearing [True]: 260.0° to 290.0° Bearing [Mag]: 266.0° to 296.0°		Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
		ESV:	Bearing [True]: 306.0° to 359.0° Bearing [Mag]: 312.0° to 5.0°		Arc Distance: Out to 101.0 NM Altitude: 10000.0 to 20000.0 ft		
73	VWV	N 41° 27' 5.35" W 83° 38' 19.30" 02 W	L	664.2	113.10	VWV	Not Used
		ESV:	Bearing [True]: 283.0° to 324.0° Bearing [Mag]: 285.0° to 326.0°		Arc Distance: Out to 85.0 NM Altitude: 10000.0 to 20000.0 ft		
		ESV:	Bearing [True]: 50.0° to 71.0° Bearing [Mag]: 52.0° to 73.0°		Arc Distance: Out to 78.0 NM Altitude: 6700.0 to 20000.0 ft		
74	PSI	N 42° 42' 3.09" W 83° 31' 57.98" 03 W	L	1149.3	111.00	PSI	Not Used
		Restriction:	Bearing [True]: 167.0° to 207.0° Bearing [Mag]: 170.0° to 210.0°		Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
		ESV:	Bearing [True]: 125.0° to 167.0° Bearing [Mag]: 128.0° to 170.0°		Arc Distance: Out to 80.0 NM Altitude: 7400.0 to 11000.0 ft		
75	SVM	N 42° 24' 31.09" W 83° 35' 38.05" 03 W	L	955.8	114.30	SVM	Not Used
		ESV:	Bearing [True]: 223.0° to 252.0° Bearing [Mag]: 226.0° to 255.0°		Arc Distance: Out to 81.0 NM Altitude: 10000.0 to 17000.0 ft		
		ESV:	Bearing [True]: 89.0° to 117.0° Bearing [Mag]: 92.0° to 120.0°		Arc Distance: Out to 73.0 NM Altitude: 6200.0 to 20000.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
76	MFD	N 40° 52' 7.00" W 82° 35' 27.46" 03 W	L	1222.0	108.80	MFD	Used
Restriction:		Bearing [True]: 72.0° to 92.0° Bearing [Mag]: 75.0° to 95.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 148.0° to 211.0° Bearing [Mag]: 151.0° to 214.0°			Distance: Beyond 30.0 NM Altitude: Below 99999.0 ft		
ESV:		Bearing [True]: 325.0° to 43.0° Bearing [Mag]: 328.0° to 46.0°			Arc Distance: Out to 80.0 NM Altitude: 6400.0 to 20000.0 ft		
77	ACO	N 41° 6' 28.45" W 81° 12' 5.49" 04 W	L	1198.4	114.40	ACO	Used
ESV:		Bearing [True]: 303.0° to 321.0° Bearing [Mag]: 307.0° to 325.0°			Arc Distance: Out to 82.0 NM Altitude: 7700.0 to 11000.0 ft		
78	DXO	N 42° 12' 47.29" W 83° 22' 0.00" 06 W	H	637.7	113.40	DXO	Not Used
Restriction:		Bearing [True]: 354.0° to 354.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 30.0 NM Altitude: Below 2900.0 ft		
ESV:		Bearing [True]: 279.0° to 333.0° Bearing [Mag]: 285.0° to 339.0°			Arc Distance: Out to 106.0 NM Altitude: 9700.0 to 20000.0 ft		
79	OKK	N 40° 31' 40.01" W 86° 3' 28.79" 05 W	H	825.8	113.50	OKK	Not Used
Restriction:		Bearing [True]: 171.0° to 229.0° Bearing [Mag]: 176.0° to 234.0°			Distance: Beyond 35.0 NM Altitude: Below 2400.0 ft		
ESV:		Bearing [True]: 356.0° to 50.0° Bearing [Mag]: 1.0° to 55.0°			Arc Distance: Out to 101.0 NM Altitude: 9900.0 to 20000.0 ft		
80	OBK	N 42° 13' 16.96" W 87° 57' 5.83" 02 W	H	707.0	113.00	OBK	Not Used
ESV:		Bearing [True]: 87.0° to 97.0° Bearing [Mag]: 89.0° to 99.0°			Arc Distance: Out to 103.0 NM Altitude: 10000.0 to 20000.0 ft		
81	OXI	N 41° 19' 19.35" W 86° 38' 57.45" 00 E	H	690.0	115.60	OXI	Not Used
ESV:		Bearing [True]: 360.0° to 138.0° Bearing [Mag]: 360.0° to 138.0°			Arc Distance: Out to 106.0 NM Altitude: 10000.0 to 20000.0 ft		
82	CXR	N 41° 31' 0.94" W 81° 9' 47.47" 05 W	H	1317.2	112.70	CXR	Used
ESV:		Bearing [True]: 298.0° to 343.0° Bearing [Mag]: 303.0° to 348.0°			Arc Distance: Out to 73.0 NM Altitude: 6200.0 to 16000.0 ft		



Name: Paul Jackson
Project Name: KCLE BRWNZ STAR
Output File: KCLE BRWNZ1 STAR
BRWNZ TAMDE
20171030_1021
Procedure Name: BRWNZ1
Software: RNAV-Pro™
Version: 2.39
Date/Time: 10/30/2017 10:24:49 AM
Input File: KCLE BRWNZ1 STAR
BRWNZ TAMDE
20170829_1000.txt
Databases: AIRNAV Date: 9/17/2017
CIFP Date: 7/20/2017
DTED® (MAX) Date: 2002

Results Summary:

Flyability



DME/DME



No Critical DMEs Exist

Radars

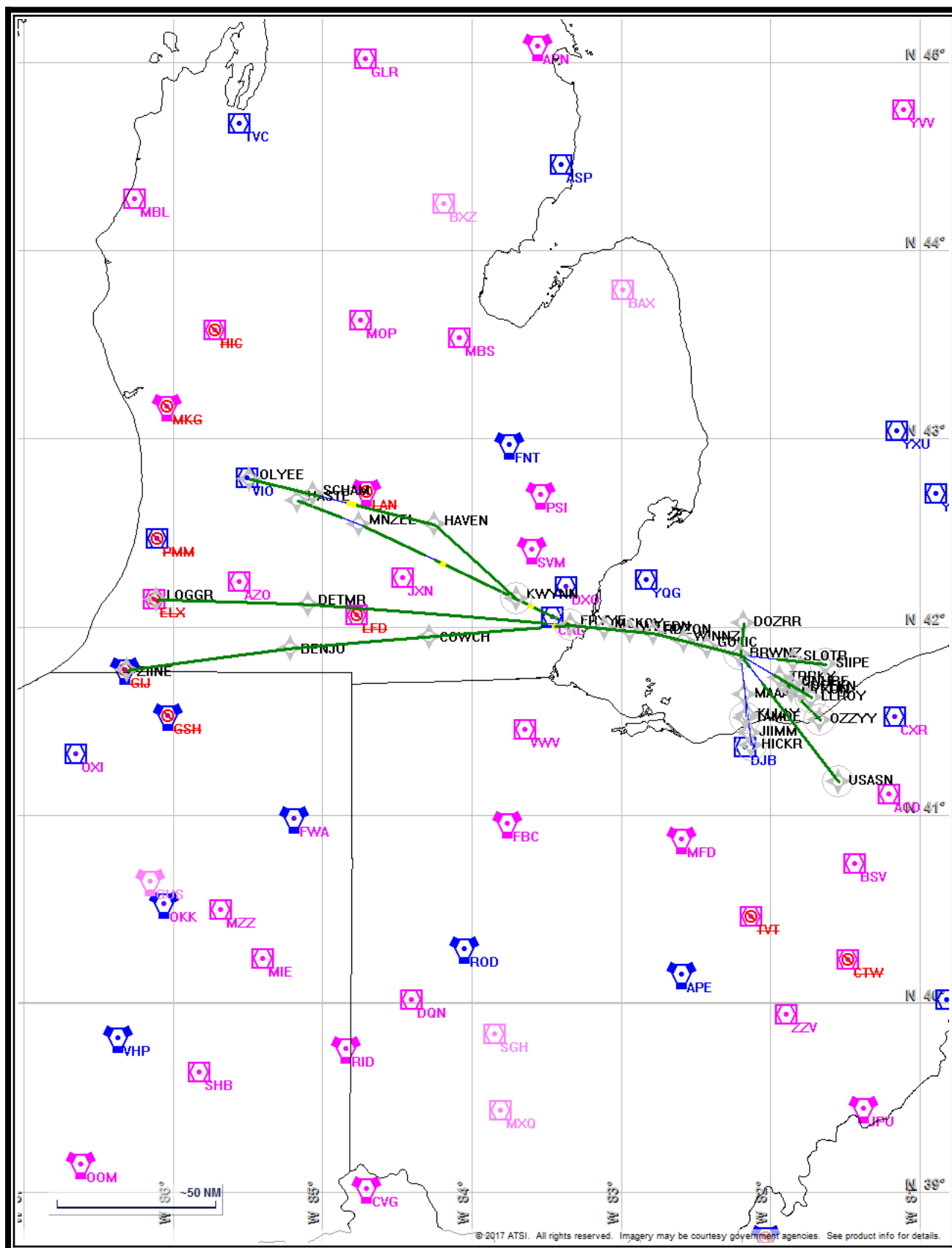


Comms



TERPS

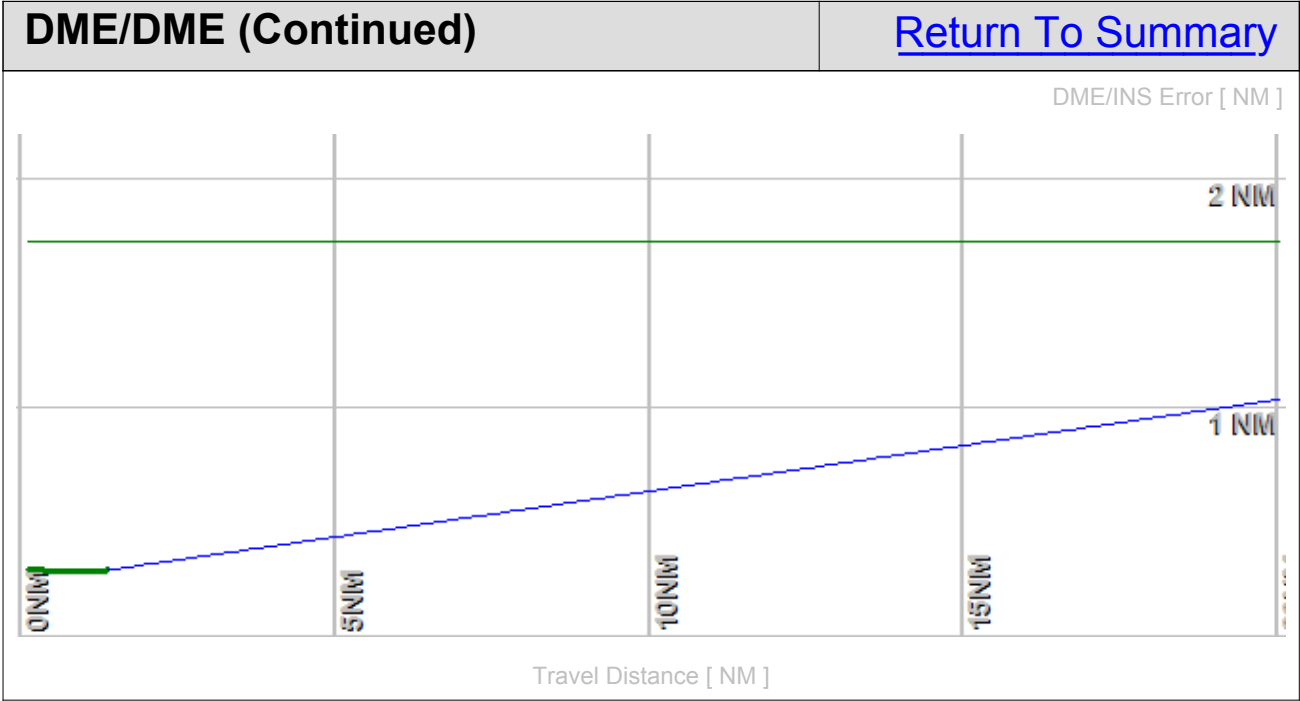




Flight Plan					Return To Summary		
Name	Type	Lat/Lon	Alt [ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
BRWNZ	WP	N 41° 51' 0.43" W 82° 12' 4.69"	8000.0	Step	210.0	Fly By	TF
MAAAK	WP	N 41° 38' 28.36" W 82° 10' 9.18"	5000.0	Step	210.0	Fly By	TF
TAMDE	WP	N 41° 31' 0.06" W 82° 9' 48.02"	4000.0	Step	210.0	Fly Over	TF

Flyability		Return To Summary
Settings:	<div>Flight Type: Arrival</div> <div>Selected Airport: KCLE</div> <div>Aircraft Category: Cat D</div> <div>Climb Gradient: <i>None assigned</i></div> <div>Ground Speeds:</div> <div>Table:</div> <div><div>200.0 Kts up to 11000.0 ft</div><div>240.0 Kts up to 18000.0 ft</div><div>260.0 Kts up to 24000.0 ft</div><div>340.0 Kts up to 99900.0 ft</div></div> <div>Wind Settings: <i>None assigned</i></div> <div>Descent During a Turn: Allowed</div> <div>VNAV Mode: Flight Plan</div>	
	Entire track is fly-able	

DME/DME	Return To Summary
Settings:	<p> RNP: 2.0 Flight Mode: Manual Line of Sight (DTED Level 0 Max): Evaluated DME Restrictions: Evaluated Inertial Drift: Enabled Initial Drift: 0.558 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, Standalone, and User DME Include Angles: 30 to 150 Critical DMEs: Allowed DoD Facilities: Not included Foreign Facilities: Not included Low DMEs: Included Terminal DMEs: Included Flight Check DMEs: Selected Higher Altitudes: Evaluated Near Maximum Altitude: Evaluated </p>
<p> Total Number of DMEs Used: 2 Maximum DME Error: 1.039 NM. No Critical DMEs were found. Available DMEs: VWV, MFD, ACO, DJB Disabled DMEs: LAN, LFD, ELX, GIJ, PMM, MKG, HIC, PLN, MNM, CTW, JFN, TVT, BDF, DNV, EON, PLL, PNT, RBS, SAM, UIN, VLA, BVT, GSH, ECB, EWO, FLM, YRK, BRD, DWN, HML, ODI, RST, CMK, DNY, GFL, GGT, HNK, HUO, LGA, HTO, MSS, PWL, RKA, SLK, UCA, ULW, CRI, AGC, BFD, CIP, ETG, FJC, FQM, IHD, LVZ, MIP, MXE, REC, SFK, SLT, TDT, THS, AUW, JVL, LNR, STE, CKB, ESL, HNN, and GRV Foreign DMEs within range: YEE, YQG, YQO, YVV, YWT, YXU, YYZ </p>	



DME/DME (Continued)						Return To Summary			
DMEs Used									
#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	VWV	N 41° 27' 5.35" W 83° 38' 19.30" 02 W	L + ESV	User	NO	1.095	Enabled	6.6%	6.6%
2	DJB	N 41° 21' 29.03" W 82° 9' 43.09" 05 W	H	Database	NO	1.095	Enabled	6.6%	6.6%
	Total Coverage							6.6%	6.6%
Flight Check DME Selection									
Distance [NM]		Selected DMEs						Alternate	
0.0		DJB	MFD	ACO	VWV				
12.4		DJB							
Inertial Drift Segments									
#	Start Location			End Location			Length [NM]		
1	N 41° 49' 37.43" W 82° 11' 51.90"			N 41° 31' 1.58" W 82° 9' 48.10"			18.7		
VOR: CLE				Available from N 41° 49' 37.43" W 82° 11' 51.90" to N 41° 31' 1.58" W 82° 9' 48.10"					
VOR: DJB				Available from N 41° 49' 37.43" W 82° 11' 51.90" to N 41° 31' 1.58" W 82° 9' 48.10"					
VOR: YQG				Available from N 41° 49' 37.43" W 82° 11' 51.90" to N 41° 46' 58.41" W 82° 11' 27.42"					

Available DMEs by Waypoints		Return To Summary
Waypoint Before	Waypoint After	DME List
BRWNZ	MAAAK	ACO, MFD, VWV, and DJB
MAAAK	TAMDE	DJB

User Data					Return To Summary		
User Data Files							
#	File Name						
1	BRWNZ1_New.udt						
User DMEs							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	LAN	N 42° 43' 2.62" W 84° 41' 51.03" 05 W	L	887.4	110.80	LAN	Disabled
2	LFD	N 42° 3' 44.96" W 84° 45' 54.48" 05 W	L	1040.0	111.20	LFD	Disabled
Restriction:		Bearing [True]: 105.0° to 160.0° Bearing [Mag]: 110.0° to 165.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
3	ELX	N 42° 8' 39.88" W 86° 7' 21.74" 00 E	L	793.7	116.60	ELX	Disabled
4	GIJ	N 41° 46' 7.00" W 86° 19' 6.42" 00 E	H	802.7	115.40	GIJ	Disabled
Restriction:		Bearing [True]: 360.0° to 360.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3500.0 ft		
5	PMM	N 42° 27' 57.73" W 86° 6' 17.32" 00 E	H	639.9	112.10	PMM	Disabled
Restriction:		Bearing [True]: 360.0° to 360.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
6	MKG	N 43° 10' 9.31" W 86° 2' 21.76" 01 W	L	659.1	115.20	MKG	Disabled
Restriction:		Bearing [True]: 54.0° to 89.0° Bearing [Mag]: 55.0° to 90.0°			Distance: Beyond 10.0 NM Altitude: Below 4000.0 ft		
7	HIC	N 43° 34' 29.47" W 85° 42' 58.18" 01 W	L	920.0	117.60	HIC	Disabled
Restriction:		Bearing [True]: 19.0° to 89.0° Bearing [Mag]: 20.0° to 90.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 269.0° to 289.0° Bearing [Mag]: 270.0° to 290.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
8	PLN	N 45° 37' 50.33" W 84° 39' 50.79" 06 W	L	835.3	111.80	PLN	Disabled
9	MNM	N 45° 10' 48.58" W 87° 38' 49.83" 00 E	L	650.1	109.60	MNM	Disabled
10	CTW	N 40° 13' 45.15" W 81° 28' 35.32" 07 W	L	1180.0	111.80	CTW	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
11	JFN	N 41° 45' 36.42" W 80° 44' 53.20" 05 W	L	896.3	115.20	JFN	Disabled
Restriction:		Bearing [True]: 226.0° to 255.0° Bearing [Mag]: 231.0° to 260.0°			Distance: Beyond 30.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 121.0° to 185.0° Bearing [Mag]: 126.0° to 190.0°			Distance: Beyond 20.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 186.0° to 225.0° Bearing [Mag]: 191.0° to 230.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 80.0° to 120.0° Bearing [Mag]: 85.0° to 125.0°			Distance: Beyond 35.0 NM Altitude: Below 3500.0 ft		
12	TVT	N 40° 27' 29.04" W 82° 7' 36.52" 03 W	L	1330.4	116.50	TVT	Disabled
13	BDF	N 41° 9' 35.03" W 89° 35' 16.34" 00 E	H	810.0	114.70	BDF	Disabled
14	DNV	N 40° 17' 37.56" W 87° 33' 26.14" 02 E	L	698.8	111.00	DNV	Disabled
15	EON	N 41° 16' 10.68" W 87° 47' 27.79" 02 E	L	688.7	113.20	EON	Disabled
16	PLL	N 41° 57' 56.31" W 89° 31' 27.19" 03 E	L	840.0	111.20	PLL	Disabled
17	PNT	N 40° 49' 16.32" W 88° 44' 0.63" 03 E	L	680.0	109.60	PNT	Disabled
18	RBS	N 40° 34' 54.13" W 88° 9' 51.36" 02 E	L	780.0	116.80	RBS	Disabled
19	SAM	N 38° 29' 6.68" W 88° 5' 8.90" 03 E	L	540.0	116.60	SAM	Disabled
20	UIN	N 39° 50' 52.35" W 91° 16' 44.13" 05 E	H	715.1	113.60	UIN	Disabled
21	VLA	N 39° 5' 37.82" W 89° 9' 44.08" 04 E	L	605.5	114.30	VLA	Disabled
22	BVT	N 40° 33' 22.22" W 87° 4' 9.75" 01 E	H	752.2	115.10	BVT	Disabled
Restriction:		Bearing [True]: 299.0° to 45.0° Bearing [Mag]: 298.0° to 44.0°			Distance: Beyond 0.0 NM Altitude: Below 2800.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
23	GSH	N 41° 31' 30.56" W 86° 1' 40.63" 00 E	H	851.8	113.70	GSH	Disabled
Restriction:		Bearing [True]: 71.0° to 129.0° Bearing [Mag]: 71.0° to 129.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
24	ECB	N 38° 9' 30.11" W 82° 54' 36.20" 02 W	L	1070.0	110.40	ECB	Disabled
25	EWO	N 37° 37' 54.52" W 85° 40' 33.16" 01 E	L	960.0	110.80	EWO	Disabled
26	FLM	N 38° 38' 57.99" W 84° 18' 38.17" 04 W	H	808.5	117.00	FLM	Disabled
27	YRK	N 38° 38' 38.88" W 82° 58' 42.02" 05 W	L	1040.0	112.80	YRK	Disabled
28	BRD	N 46° 20' 53.81" W 94° 1' 33.54" 03 E	H	1253.9	116.90	BRD	Disabled
Restriction:		Bearing [True]: 3.0° to 3.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 29.0 NM Altitude: Below 3000.0 ft		
29	DWN	N 45° 5' 14.87" W 94° 27' 13.86" 07 E	L	1130.0	109.00	DWN	Disabled
30	HML	N 48° 52' 9.07" W 97° 7' 4.45" 09 E	H	797.4	112.40	HML	Disabled
Restriction:		Bearing [True]: 84.0° to 94.0° Bearing [Mag]: 75.0° to 85.0°			Distance: Beyond 0.0 NM Altitude: Below 10000.0 ft		
Restriction:		Bearing [True]: 95.0° to 263.0° Bearing [Mag]: 86.0° to 254.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 264.0° to 279.0° Bearing [Mag]: 255.0° to 270.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 280.0° to 83.0° Bearing [Mag]: 271.0° to 74.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
31	ODI	N 43° 54' 44.38" W 91° 28' 3.06" 01 E	H	1282.2	117.90	ODI	Disabled
32	RST	N 43° 46' 58.45" W 92° 35' 49.06" 05 E	L	1393.0	112.00	RST	Disabled
33	CMK	N 41° 16' 48.32" W 73° 34' 52.77" 12 W	L	693.8	116.60	CMK	Disabled
34	DNY	N 42° 10' 41.81" W 74° 57' 24.99" 11 W	L	2560.0	112.10	DNY	Disabled

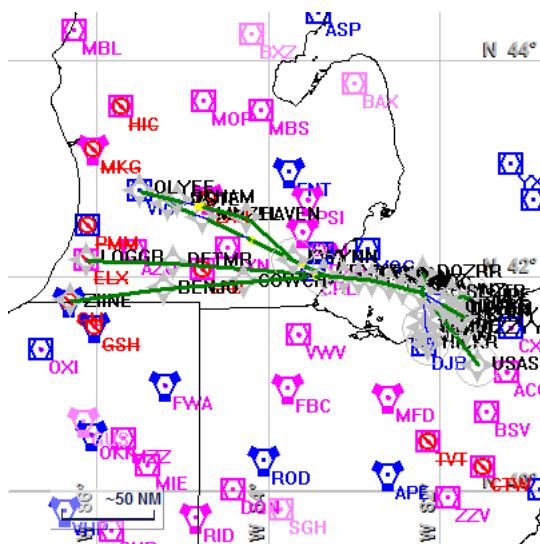
User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
35	GFL	N 43° 20' 30.09" W 73° 36' 42.32" 14 W	L	323.7	110.20	GFL	Disabled
Restriction:		Bearing [True]: 346.0° to 346.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 0.0 NM Altitude: Below 9000.0 ft		
36	GGT	N 42° 47' 20.24" W 75° 49' 36.29" 11 W	L	2040.0	117.80	GGT	Disabled
37	HNK	N 42° 3' 47.00" W 75° 18' 58.62" 11 W	H	2070.0	116.80	HNK	Disabled
38	HUO	N 41° 24' 34.87" W 74° 35' 29.74" 11 W	H	1300.3	116.10	HUO	Disabled
39	LGA	N 40° 47' 1.38" W 73° 52' 6.96" 12 W	L	8.9	113.10	LGA	Disabled
Restriction:		Bearing [True]: 233.0° to 268.0° Bearing [Mag]: 245.0° to 280.0°			Distance: Beyond 25.0 NM Altitude: Below 6000.0 ft		
40	HTO	N 40° 55' 8.38" W 72° 19' 0.14" 13 W	H	22.0	113.60	HTO	Disabled
Restriction:		Bearing [True]: 267.0° to 312.0° Bearing [Mag]: 280.0° to 325.0°			Distance: Beyond 35.0 NM Altitude: Below 1700.0 ft		
Restriction:		Bearing [True]: 312.0° to 342.0° Bearing [Mag]: 325.0° to 355.0°			Distance: Beyond 30.0 NM Altitude: Below 2000.0 ft		
41	MSS	N 44° 54' 51.92" W 74° 43' 21.78" 14 W	H	197.5	114.10	MSS	Disabled
42	PWL	N 41° 46' 11.18" W 73° 36' 1.99" 12 W	L	1250.0	114.30	PWL	Disabled
43	RKA	N 42° 27' 58.91" W 75° 14' 21.51" 11 W	L	2027.2	112.60	RKA	Disabled
44	SLK	N 44° 23' 4.41" W 74° 12' 16.21" 14 W	L	1646.8	109.20	SLK	Disabled
45	UCA	N 43° 1' 35.45" W 75° 9' 52.28" 12 W	L	1420.0	111.20	UCA	Disabled
46	ULW	N 42° 5' 39.16" W 77° 1' 28.53" 12 W	L	1631.8	109.65	ULW	Disabled
47	CRI	N 40° 36' 44.90" W 73° 53' 40.00" 11 W	T	10.0	112.30	CRI	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
48	AGC	N 40° 16' 43.12" W 80° 2' 27.08" 09 W	L	1284.6	110.00	AGC	Disabled
49	BFD	N 41° 47' 10.99" W 78° 37' 9.65" 07 W	L	2110.6	116.60	BFD	Disabled
50	CIP	N 41° 8' 46.66" W 79° 27' 28.71" 06 W	L	1519.5	112.90	CIP	Disabled
51	ETG	N 41° 12' 53.82" W 78° 8' 33.92" 10 W	H	2250.0	116.00	ETG	Disabled
52	FJC	N 40° 43' 36.12" W 75° 27' 17.12" 10 W	L	680.6	117.50	FJC	Disabled
Restriction:		Bearing [True]: 290.0° to 50.0° Bearing [Mag]: 300.0° to 60.0°			Distance: Beyond 26.0 NM Altitude: Below 4500.0 ft		
Restriction:		Bearing [True]: 51.0° to 289.0° Bearing [Mag]: 61.0° to 299.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
53	FQM	N 41° 20' 18.81" W 76° 46' 29.52" 09 W	L	2098.0	114.40	FQM	Disabled
54	IHD	N 39° 58' 27.27" W 79° 21' 30.12" 06 W	L	2820.0	108.20	IHD	Disabled
55	LVZ	N 41° 16' 22.09" W 75° 41' 22.08" 10 W	L	2118.8	111.60	LVZ	Disabled
56	MIP	N 41° 1' 24.21" W 76° 39' 55.04" 09 W	L	1000.0	109.20	MIP	Disabled
57	MXE	N 39° 55' 5.00" W 75° 40' 14.91" 09 W	L	473.4	113.20	MXE	Disabled
58	REC	N 40° 32' 47.25" W 78° 44' 49.28" 09 W	L	2340.0	110.60	REC	Disabled
59	SFK	N 41° 41' 42.91" W 77° 25' 11.66" 08 W	L	1984.7	108.60	SFK	Disabled
60	SLT	N 41° 30' 45.93" W 77° 58' 12.39" 08 W	H	2310.0	113.90	SLT	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
61	TDT	N 41° 42' 46.91" W 79° 25' 2.17" 09 W	L	1710.0	117.60	TDT	Disabled
Restriction:		Bearing [True]: 32.0° to 42.0° Bearing [Mag]: 41.0° to 51.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
Restriction:		Bearing [True]: 296.0° to 331.0° Bearing [Mag]: 305.0° to 340.0°			Distance: Beyond 24.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 331.0° to 356.0° Bearing [Mag]: 340.0° to 5.0°			Distance: Beyond 24.0 NM Altitude: Below 5000.0 ft		
62	THS	N 39° 55' 59.62" W 77° 57' 3.40" 07 W	L	2338.0	115.00	THS	Disabled
63	AUW	N 44° 50' 48.40" W 89° 35' 11.68" 02 E	L	1204.7	111.60	AUW	Disabled
Restriction:		Bearing [True]: 322.0° to 302.0° Bearing [Mag]: 320.0° to 300.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 302.0° to 322.0° Bearing [Mag]: 300.0° to 320.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
64	JVL	N 42° 33' 28.83" W 89° 6' 18.93" 03 E	L	931.4	114.30	JVL	Disabled
65	LNR	N 43° 17' 39.85" W 90° 7' 59.33" 00 E	L	1184.6	112.80	LNR	Disabled
66	STE	N 44° 32' 35.69" W 89° 31' 50.02" 01 W	L	1110.0	110.60	STE	Disabled
Restriction:		Bearing [True]: 359.0° to 359.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
67	CKB	N 39° 15' 11.57" W 80° 16' 4.32" 04 W	L	1425.7	112.60	CKB	Disabled
68	ESL	N 39° 13' 31.77" W 78° 59' 22.20" 06 W	L	2590.0	110.80	ESL	Disabled
69	HNN	N 38° 45' 14.85" W 82° 1' 34.20" 03 W	H	880.0	115.90	HNN	Disabled
70	GRV	N 39° 38' 6.11" W 79° 3' 1.90" 06 W	L	2640.0	112.30	GRV	Disabled
Restriction:		Bearing [True]: 301.0° to 64.0° Bearing [Mag]: 307.0° to 70.0°			Distance: Beyond 20.0 NM Altitude: Below 5000.0 ft		
Restriction:		Bearing [True]: 65.0° to 300.0° Bearing [Mag]: 71.0° to 306.0°			Distance: Beyond 20.0 NM Altitude: Below 6000.0 ft		
Restriction:		Bearing [True]: 102.0° to 107.0° Bearing [Mag]: 108.0° to 113.0°			Distance: Beyond 38.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 319.0° to 339.0° Bearing [Mag]: 325.0° to 345.0°			Distance: Beyond 35.0 NM Altitude: Below 99999.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
71	CRL	N 42° 2' 52.90" W 83° 27' 27.30" 03 W	H	629.0	115.70	CRL	Not Used
		ESV:	Bearing [True]: 259.0° to 268.0° Bearing [Mag]: 262.0° to 271.0°		Arc Distance: Out to 103.0 NM Altitude: 10000.0 to 16000.0 ft		
		ESV:	Bearing [True]: 293.0° to 359.0° Bearing [Mag]: 296.0° to 2.0°		Arc Distance: Out to 102.0 NM Altitude: 8500.0 to 16000.0 ft		
		ESV:	Bearing [True]: 65.0° to 98.0° Bearing [Mag]: 68.0° to 101.0°		Arc Distance: Out to 64.0 NM Altitude: 4000.0 to 16000.0 ft		
72	FWA	N 40° 58' 44.63" W 85° 11' 17.01" 06 W	H	792.6	117.80	FWA	Not Used
		Restriction:	Bearing [True]: 55.0° to 65.0° Bearing [Mag]: 61.0° to 71.0°		Distance: Beyond 0.0 NM Altitude: Below 7000.0 ft		
		Restriction:	Bearing [True]: 354.0° to 354.0° Bearing [Mag]: 360.0° to 360.0°		Distance: Beyond 33.0 NM Altitude: Below 2800.0 ft		
		Restriction:	Bearing [True]: 170.0° to 210.0° Bearing [Mag]: 176.0° to 216.0°		Distance: Beyond 22.0 NM Altitude: Below 4000.0 ft		
		Restriction:	Bearing [True]: 260.0° to 290.0° Bearing [Mag]: 266.0° to 296.0°		Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
		ESV:	Bearing [True]: 306.0° to 359.0° Bearing [Mag]: 312.0° to 5.0°		Arc Distance: Out to 101.0 NM Altitude: 10000.0 to 20000.0 ft		
73	VWV	N 41° 27' 5.35" W 83° 38' 19.30" 02 W	L	664.2	113.10	VWV	Used
		ESV:	Bearing [True]: 283.0° to 324.0° Bearing [Mag]: 285.0° to 326.0°		Arc Distance: Out to 85.0 NM Altitude: 10000.0 to 20000.0 ft		
		ESV:	Bearing [True]: 50.0° to 71.0° Bearing [Mag]: 52.0° to 73.0°		Arc Distance: Out to 78.0 NM Altitude: 6700.0 to 20000.0 ft		
74	PSI	N 42° 42' 3.09" W 83° 31' 57.98" 03 W	L	1149.3	111.00	PSI	Not Used
		Restriction:	Bearing [True]: 167.0° to 207.0° Bearing [Mag]: 170.0° to 210.0°		Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
		ESV:	Bearing [True]: 125.0° to 167.0° Bearing [Mag]: 128.0° to 170.0°		Arc Distance: Out to 80.0 NM Altitude: 7400.0 to 11000.0 ft		
75	SVM	N 42° 24' 31.09" W 83° 35' 38.05" 03 W	L	955.8	114.30	SVM	Not Used
		ESV:	Bearing [True]: 223.0° to 252.0° Bearing [Mag]: 226.0° to 255.0°		Arc Distance: Out to 81.0 NM Altitude: 10000.0 to 17000.0 ft		
		ESV:	Bearing [True]: 89.0° to 117.0° Bearing [Mag]: 92.0° to 120.0°		Arc Distance: Out to 73.0 NM Altitude: 6200.0 to 20000.0 ft		

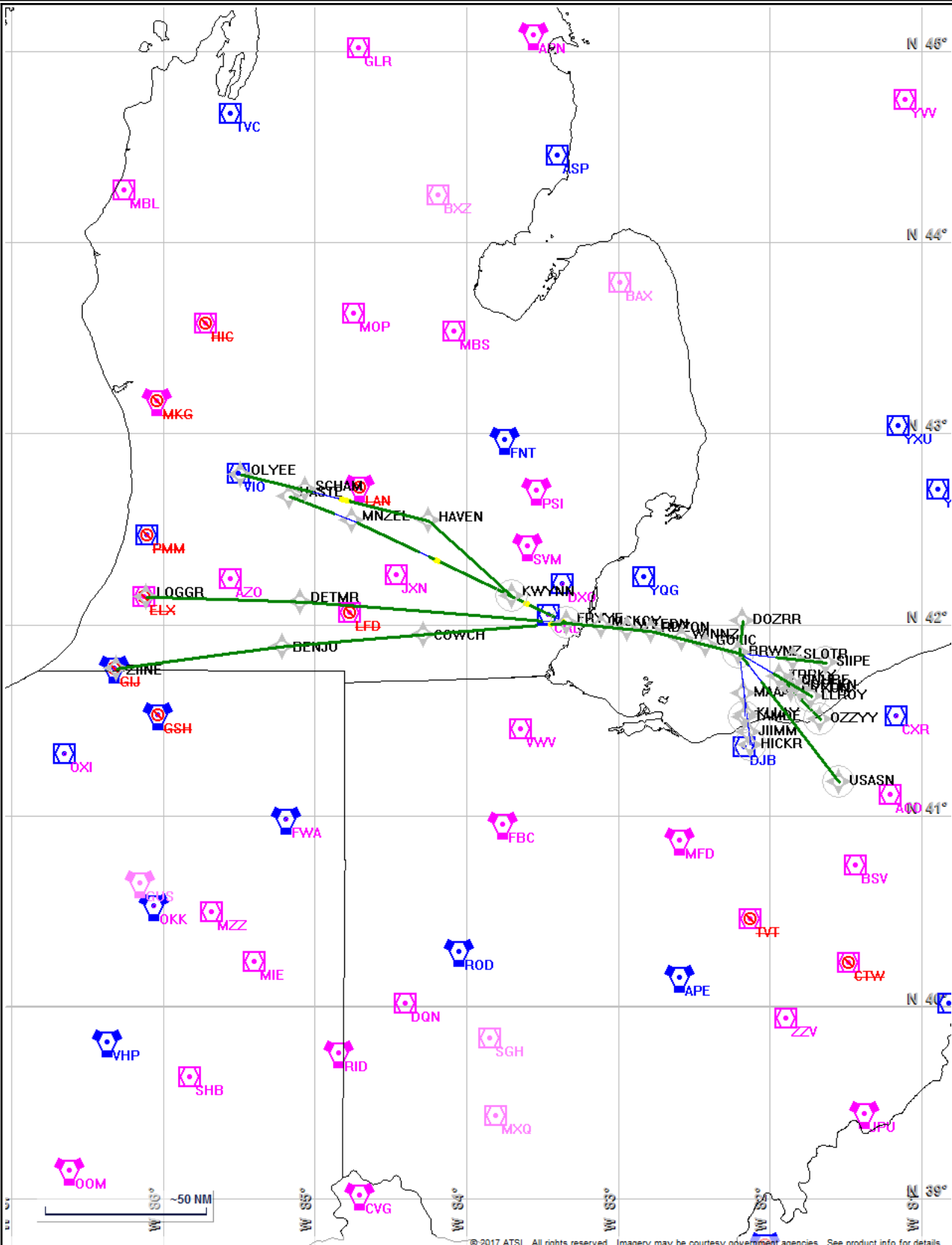
User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
76	MFD	N 40° 52' 7.00" W 82° 35' 27.46" 03 W	L	1222.0	108.80	MFD	Not Used
Restriction:		Bearing [True]: 72.0° to 92.0° Bearing [Mag]: 75.0° to 95.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 148.0° to 211.0° Bearing [Mag]: 151.0° to 214.0°			Distance: Beyond 30.0 NM Altitude: Below 99999.0 ft		
ESV:		Bearing [True]: 325.0° to 43.0° Bearing [Mag]: 328.0° to 46.0°			Arc Distance: Out to 80.0 NM Altitude: 6400.0 to 20000.0 ft		
77	ACO	N 41° 6' 28.45" W 81° 12' 5.49" 04 W	L	1198.4	114.40	ACO	Not Used
ESV:		Bearing [True]: 303.0° to 321.0° Bearing [Mag]: 307.0° to 325.0°			Arc Distance: Out to 82.0 NM Altitude: 7700.0 to 11000.0 ft		
78	DXO	N 42° 12' 47.29" W 83° 22' 0.00" 06 W	H	637.7	113.40	DXO	Not Used
Restriction:		Bearing [True]: 354.0° to 354.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 30.0 NM Altitude: Below 2900.0 ft		
ESV:		Bearing [True]: 279.0° to 333.0° Bearing [Mag]: 285.0° to 339.0°			Arc Distance: Out to 106.0 NM Altitude: 9700.0 to 20000.0 ft		
79	OKK	N 40° 31' 40.01" W 86° 3' 28.79" 05 W	H	825.8	113.50	OKK	Not Used
Restriction:		Bearing [True]: 171.0° to 229.0° Bearing [Mag]: 176.0° to 234.0°			Distance: Beyond 35.0 NM Altitude: Below 2400.0 ft		
ESV:		Bearing [True]: 356.0° to 50.0° Bearing [Mag]: 1.0° to 55.0°			Arc Distance: Out to 101.0 NM Altitude: 9900.0 to 20000.0 ft		
80	OBK	N 42° 13' 16.96" W 87° 57' 5.83" 02 W	H	707.0	113.00	OBK	Not Used
ESV:		Bearing [True]: 87.0° to 97.0° Bearing [Mag]: 89.0° to 99.0°			Arc Distance: Out to 103.0 NM Altitude: 10000.0 to 20000.0 ft		
81	OXI	N 41° 19' 19.35" W 86° 38' 57.45" 00 E	H	690.0	115.60	OXI	Not Used
ESV:		Bearing [True]: 360.0° to 138.0° Bearing [Mag]: 360.0° to 138.0°			Arc Distance: Out to 106.0 NM Altitude: 10000.0 to 20000.0 ft		
82	CXR	N 41° 31' 0.94" W 81° 9' 47.47" 05 W	H	1317.2	112.70	CXR	Not Used
ESV:		Bearing [True]: 298.0° to 343.0° Bearing [Mag]: 303.0° to 348.0°			Arc Distance: Out to 73.0 NM Altitude: 6200.0 to 16000.0 ft		



Name: Paul Jackson
Project Name: KCLE BRWNZ STAR
Output File: KCLE BRWNZ1 STAR
DOZRR USASN
20171030_1021
Procedure Name: BRWNZ1
Software: RNAV-Pro™
Version: 2.39
Date/Time: 10/30/2017 10:25:30 AM
Input File: [KCLE BRWNZ1 STAR
DOZRR USASN
20170828_1030.txt](#)
Databases: AIRNAV Date: 9/17/2017
CIFP Date: 7/20/2017
DTED® (MAX) Date: 2002

Results Summary:

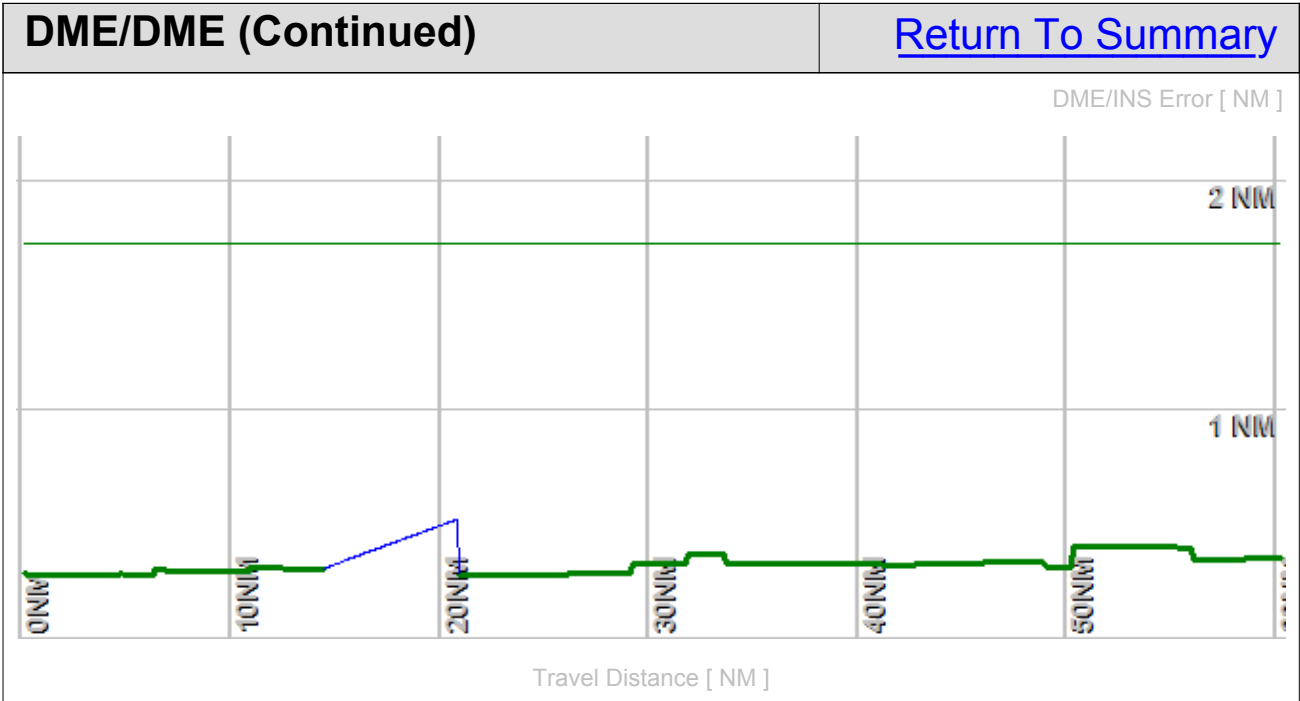
Flyability	✓	Please Check Flyability Results
DME/DME	✓	No Critical DMEs Exist
Radars	?	
Comms	?	
TERPS	?	



Flight Plan					Return To Summary		
Name	Type	Lat/Lon	Alt [ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
DOZRR	WP	N 42° 1' 2.69" W 82° 10' 40.65"	10000.0	Step	200.0	Fly By	TF
BRWNZ	WP	N 41° 51' 0.43" W 82° 12' 4.69"	8000.0	Step	180.0	Fly By	TF
USASN	WP	N 41° 10' 28.84" W 81° 32' 27.68"	80000.0	Step	180.0	Fly Over	TF

Flyability		Return To Summary
Settings:	Flight Type: Arrival	
	Selected Airport: KCLE	
	Aircraft Category: Cat D	
	Climb Gradient: <i>None assigned</i>	
	Ground Speeds:	
	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: <i>None assigned</i>	
	Descent During a Turn: Allowed	
	VNAV Mode: Flight Plan	
Aircraft ALTITUDE at Fly-Over WP USASN too low.		

DME/DME	Return To Summary
Settings:	<p> RNP: 2.0 Flight Mode: Manual Line of Sight (DTED Level 0 Max): Evaluated DME Restrictions: Evaluated Inertial Drift: Enabled Initial Drift: 0.558 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, Standalone, and User DME Include Angles: 30 to 150 Critical DMEs: Allowed DoD Facilities: Not included Foreign Facilities: Not included Low DMEs: Included Terminal DMEs: Included Flight Check DMEs: Selected Higher Altitudes: Evaluated Near Maximum Altitude: Evaluated </p>
<p> Total Number of DMEs Used: 13 Maximum DME Error: 0.524 NM. No Critical DMEs were found. Available DMEs: CRL, VWV, SVM, MFD, CXR, DJB, PSI, ACO, DXO, EWC, APE, FNT, AIR, JHW Disabled DMEs: LAN, LFD, ELX, GIJ, PMM, MKG, HIC, PLN, MNM, CTW, JFN, TVT, BDF, DNV, EON, PLL, PNT, RBS, SAM, UIN, VLA, BVT, GSH, ECB, EWO, FLM, YRK, BRD, DWN, HML, ODI, RST, CMK, DNY, GFL, GGT, HNK, HUO, LGA, HTO, MSS, PWL, RKA, SLK, UCA, ULW, CRI, AGC, BFD, CIP, ETG, FJC, FQM, IHD, LVZ, MIP, MXE, REC, SFK, SLT, TDT, THS, AUW, JVL, LNR, STE, CKB, ESL, HNN, and GRV Foreign DMEs within range: UTR, YCF, YEE, YQG, YQO, YVV, YWT, YXU, YYZ Co-Frequency Interference: 108.2(FBC), 108.6(JPU), 109(YNG), 111.4(ZZV), 112(MMJ), 114.3(SVM) and 114.4(ACO). </p>	



DME/DME (Continued)						Return To Summary			
DMEs Used									
#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	SVM	N 42° 24' 31.09" W 83° 35' 38.05" 03 W	L + ESV	User	NO	0.524	Enabled	1.7%	1.3%
2	MFD	N 40° 52' 7.00" W 82° 35' 27.46" 03 W	L + ESV	User	NO	0.594	Enabled	23.6%	20.0%
3	CRL	N 42° 2' 52.90" W 83° 27' 27.30" 03 W	H + ESV	User	NO	0.524	Enabled	34.4%	35.2%
4	DJB	N 41° 21' 29.03" W 82° 9' 43.09" 05 W	H	Database	NO	0.524	Enabled	24.9%	20.6%
5	VWV	N 41° 27' 5.35" W 83° 38' 19.30" 02 W	L + ESV	User	NO	0.524	Enabled	9.8%	7.6%
6	ACO	N 41° 6' 28.45" W 81° 12' 5.49" 04 W	L + ESV	User	NO	0.655	Enabled	7.7%	5.9%
7	DXO	N 42° 12' 47.29" W 83° 22' 0.00" 06 W	H + ESV	User	NO	0.784	Enabled	19.8%	20.8%
8	APE	N 40° 9' 3.83" W 82° 35' 17.88" 06 W	H	Database	NO	0.524	Enabled	30.7%	36.8%
9	FNT	N 42° 58' 0.38" W 83° 44' 49.08" 06 W	H	Database	NO	0.524	Enabled	3.0%	3.0%
10	EWC	N 40° 49' 29.76" W 80° 12' 41.56" 08 W	H	Database	NO	0.524	Enabled	2.9%	3.8%
11	CXR	N 41° 31' 0.94" W 81° 9' 47.47" 05 W	H + ESV	User	NO	0.524	Enabled	1.7%	2.2%
12	AIR	N 40° 0' 59.78" W 80° 49' 1.94" 07 W	H	Database	NO	0.524	Enabled	9.0%	11.8%
13	JHW	N 42° 11' 18.99" W 79° 7' 16.70" 07 W	H	Database	NO	0.524	Enabled	7.3%	9.6%
	Total Coverage							88.1%	89.3%
Flight Check DME Selection									
Distance [NM]		Selected DMEs						Alternate	
0.0		VWV	DJB	MFD	SVM	CRL	ACO		
9.4		VWV	DJB	MFD	ACO	DXO	CRL		
29.0		CRL	DJB	FNT	APE	DXO	CXR		
39.6		CRL	AIR	CXR	APE	EWC	DJB		
50.1		DXO	AIR	CXR	APE	JHW	CRL		

DME/DME (Continued)			Return To Summary
<i>Inertial Drift Segments</i>			
#	Start Location	End Location	Length [NM]
1	N 41° 47' 24.80" W 82° 8' 31.64"	N 41° 42' 15.67" W 82° 3' 26.47"	6.4
VOR: CLE		Available from N 41° 47' 24.80" W 82° 8' 31.64" to N 41° 42' 15.67" W 82° 3' 26.47"	
VOR: DJB		Available from N 41° 47' 24.80" W 82° 8' 31.64" to N 41° 42' 15.67" W 82° 3' 26.47"	

Available DMEs by Waypoints		Return To Summary
Waypoint Before	Waypoint After	DME List
DOZRR	BRWNZ	MFD, SVM, VWV, CRL, DJB, CXR*, ACO*, and PSI*
BRWNZ	USASN	CXR, DXO, ACO, MFD, VWV, CRL, AIR, APE, DJB, EWC, FNT, JHW, and PSI*

User Data					Return To Summary		
User Data Files							
#	File Name						
1	BRWNZ1_New.udt						
User DMEs							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	LAN	N 42° 43' 2.62" W 84° 41' 51.03" 05 W	L	887.4	110.80	LAN	Disabled
2	LFD	N 42° 3' 44.96" W 84° 45' 54.48" 05 W	L	1040.0	111.20	LFD	Disabled
Restriction:		Bearing [True]: 105.0° to 160.0° Bearing [Mag]: 110.0° to 165.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
3	ELX	N 42° 8' 39.88" W 86° 7' 21.74" 00 E	L	793.7	116.60	ELX	Disabled
4	GIJ	N 41° 46' 7.00" W 86° 19' 6.42" 00 E	H	802.7	115.40	GIJ	Disabled
Restriction:		Bearing [True]: 360.0° to 360.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3500.0 ft		
5	PMM	N 42° 27' 57.73" W 86° 6' 17.32" 00 E	H	639.9	112.10	PMM	Disabled
Restriction:		Bearing [True]: 360.0° to 360.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
6	MKG	N 43° 10' 9.31" W 86° 2' 21.76" 01 W	L	659.1	115.20	MKG	Disabled
Restriction:		Bearing [True]: 54.0° to 89.0° Bearing [Mag]: 55.0° to 90.0°			Distance: Beyond 10.0 NM Altitude: Below 4000.0 ft		
7	HIC	N 43° 34' 29.47" W 85° 42' 58.18" 01 W	L	920.0	117.60	HIC	Disabled
Restriction:		Bearing [True]: 19.0° to 89.0° Bearing [Mag]: 20.0° to 90.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 269.0° to 289.0° Bearing [Mag]: 270.0° to 290.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
8	PLN	N 45° 37' 50.33" W 84° 39' 50.79" 06 W	L	835.3	111.80	PLN	Disabled
9	MNM	N 45° 10' 48.58" W 87° 38' 49.83" 00 E	L	650.1	109.60	MNM	Disabled
10	CTW	N 40° 13' 45.15" W 81° 28' 35.32" 07 W	L	1180.0	111.80	CTW	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
11	JFN	N 41° 45' 36.42" W 80° 44' 53.20" 05 W	L	896.3	115.20	JFN	Disabled
Restriction:		Bearing [True]: 226.0° to 255.0° Bearing [Mag]: 231.0° to 260.0°			Distance: Beyond 30.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 121.0° to 185.0° Bearing [Mag]: 126.0° to 190.0°			Distance: Beyond 20.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 186.0° to 225.0° Bearing [Mag]: 191.0° to 230.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 80.0° to 120.0° Bearing [Mag]: 85.0° to 125.0°			Distance: Beyond 35.0 NM Altitude: Below 3500.0 ft		
12	TVT	N 40° 27' 29.04" W 82° 7' 36.52" 03 W	L	1330.4	116.50	TVT	Disabled
13	BDF	N 41° 9' 35.03" W 89° 35' 16.34" 00 E	H	810.0	114.70	BDF	Disabled
14	DNV	N 40° 17' 37.56" W 87° 33' 26.14" 02 E	L	698.8	111.00	DNV	Disabled
15	EON	N 41° 16' 10.68" W 87° 47' 27.79" 02 E	L	688.7	113.20	EON	Disabled
16	PLL	N 41° 57' 56.31" W 89° 31' 27.19" 03 E	L	840.0	111.20	PLL	Disabled
17	PNT	N 40° 49' 16.32" W 88° 44' 0.63" 03 E	L	680.0	109.60	PNT	Disabled
18	RBS	N 40° 34' 54.13" W 88° 9' 51.36" 02 E	L	780.0	116.80	RBS	Disabled
19	SAM	N 38° 29' 6.68" W 88° 5' 8.90" 03 E	L	540.0	116.60	SAM	Disabled
20	UIN	N 39° 50' 52.35" W 91° 16' 44.13" 05 E	H	715.1	113.60	UIN	Disabled
21	VLA	N 39° 5' 37.82" W 89° 9' 44.08" 04 E	L	605.5	114.30	VLA	Disabled
22	BVT	N 40° 33' 22.22" W 87° 4' 9.75" 01 E	H	752.2	115.10	BVT	Disabled
Restriction:		Bearing [True]: 299.0° to 45.0° Bearing [Mag]: 298.0° to 44.0°			Distance: Beyond 0.0 NM Altitude: Below 2800.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
23	GSH	N 41° 31' 30.56" W 86° 1' 40.63" 00 E	H	851.8	113.70	GSH	Disabled
Restriction:		Bearing [True]: 71.0° to 129.0° Bearing [Mag]: 71.0° to 129.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
24	ECB	N 38° 9' 30.11" W 82° 54' 36.20" 02 W	L	1070.0	110.40	ECB	Disabled
25	EWO	N 37° 37' 54.52" W 85° 40' 33.16" 01 E	L	960.0	110.80	EWO	Disabled
26	FLM	N 38° 38' 57.99" W 84° 18' 38.17" 04 W	H	808.5	117.00	FLM	Disabled
27	YRK	N 38° 38' 38.88" W 82° 58' 42.02" 05 W	L	1040.0	112.80	YRK	Disabled
28	BRD	N 46° 20' 53.81" W 94° 1' 33.54" 03 E	H	1253.9	116.90	BRD	Disabled
Restriction:		Bearing [True]: 3.0° to 3.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 29.0 NM Altitude: Below 3000.0 ft		
29	DWN	N 45° 5' 14.87" W 94° 27' 13.86" 07 E	L	1130.0	109.00	DWN	Disabled
30	HML	N 48° 52' 9.07" W 97° 7' 4.45" 09 E	H	797.4	112.40	HML	Disabled
Restriction:		Bearing [True]: 84.0° to 94.0° Bearing [Mag]: 75.0° to 85.0°			Distance: Beyond 0.0 NM Altitude: Below 10000.0 ft		
Restriction:		Bearing [True]: 95.0° to 263.0° Bearing [Mag]: 86.0° to 254.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 264.0° to 279.0° Bearing [Mag]: 255.0° to 270.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 280.0° to 83.0° Bearing [Mag]: 271.0° to 74.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
31	ODI	N 43° 54' 44.38" W 91° 28' 3.06" 01 E	H	1282.2	117.90	ODI	Disabled
32	RST	N 43° 46' 58.45" W 92° 35' 49.06" 05 E	L	1393.0	112.00	RST	Disabled
33	CMK	N 41° 16' 48.32" W 73° 34' 52.77" 12 W	L	693.8	116.60	CMK	Disabled
34	DNY	N 42° 10' 41.81" W 74° 57' 24.99" 11 W	L	2560.0	112.10	DNY	Disabled

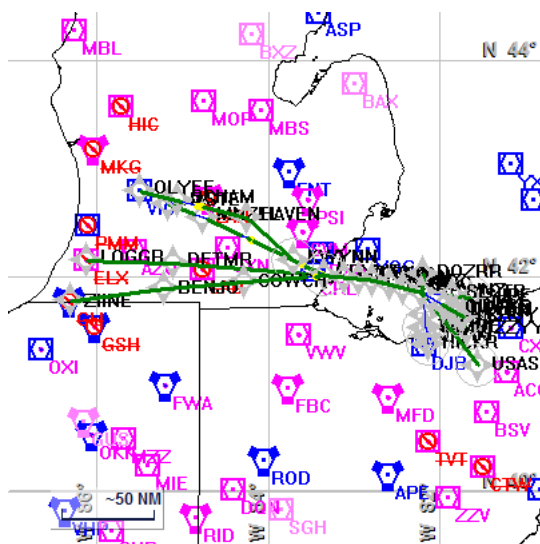
User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
35	GFL	N 43° 20' 30.09" W 73° 36' 42.32" 14 W	L	323.7	110.20	GFL	Disabled
Restriction:		Bearing [True]: 346.0° to 346.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 0.0 NM Altitude: Below 9000.0 ft		
36	GGT	N 42° 47' 20.24" W 75° 49' 36.29" 11 W	L	2040.0	117.80	GGT	Disabled
37	HNK	N 42° 3' 47.00" W 75° 18' 58.62" 11 W	H	2070.0	116.80	HNK	Disabled
38	HUO	N 41° 24' 34.87" W 74° 35' 29.74" 11 W	H	1300.3	116.10	HUO	Disabled
39	LGA	N 40° 47' 1.38" W 73° 52' 6.96" 12 W	L	8.9	113.10	LGA	Disabled
Restriction:		Bearing [True]: 233.0° to 268.0° Bearing [Mag]: 245.0° to 280.0°			Distance: Beyond 25.0 NM Altitude: Below 6000.0 ft		
40	HTO	N 40° 55' 8.38" W 72° 19' 0.14" 13 W	H	22.0	113.60	HTO	Disabled
Restriction:		Bearing [True]: 267.0° to 312.0° Bearing [Mag]: 280.0° to 325.0°			Distance: Beyond 35.0 NM Altitude: Below 1700.0 ft		
Restriction:		Bearing [True]: 312.0° to 342.0° Bearing [Mag]: 325.0° to 355.0°			Distance: Beyond 30.0 NM Altitude: Below 2000.0 ft		
41	MSS	N 44° 54' 51.92" W 74° 43' 21.78" 14 W	H	197.5	114.10	MSS	Disabled
42	PWL	N 41° 46' 11.18" W 73° 36' 1.99" 12 W	L	1250.0	114.30	PWL	Disabled
43	RKA	N 42° 27' 58.91" W 75° 14' 21.51" 11 W	L	2027.2	112.60	RKA	Disabled
44	SLK	N 44° 23' 4.41" W 74° 12' 16.21" 14 W	L	1646.8	109.20	SLK	Disabled
45	UCA	N 43° 1' 35.45" W 75° 9' 52.28" 12 W	L	1420.0	111.20	UCA	Disabled
46	ULW	N 42° 5' 39.16" W 77° 1' 28.53" 12 W	L	1631.8	109.65	ULW	Disabled
47	CRI	N 40° 36' 44.90" W 73° 53' 40.00" 11 W	T	10.0	112.30	CRI	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
48	AGC	N 40° 16' 43.12" W 80° 2' 27.08" 09 W	L	1284.6	110.00	AGC	Disabled
49	BFD	N 41° 47' 10.99" W 78° 37' 9.65" 07 W	L	2110.6	116.60	BFD	Disabled
50	CIP	N 41° 8' 46.66" W 79° 27' 28.71" 06 W	L	1519.5	112.90	CIP	Disabled
51	ETG	N 41° 12' 53.82" W 78° 8' 33.92" 10 W	H	2250.0	116.00	ETG	Disabled
52	FJC	N 40° 43' 36.12" W 75° 27' 17.12" 10 W	L	680.6	117.50	FJC	Disabled
Restriction:		Bearing [True]: 290.0° to 50.0° Bearing [Mag]: 300.0° to 60.0°			Distance: Beyond 26.0 NM Altitude: Below 4500.0 ft		
Restriction:		Bearing [True]: 51.0° to 289.0° Bearing [Mag]: 61.0° to 299.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
53	FQM	N 41° 20' 18.81" W 76° 46' 29.52" 09 W	L	2098.0	114.40	FQM	Disabled
54	IHD	N 39° 58' 27.27" W 79° 21' 30.12" 06 W	L	2820.0	108.20	IHD	Disabled
55	LVZ	N 41° 16' 22.09" W 75° 41' 22.08" 10 W	L	2118.8	111.60	LVZ	Disabled
56	MIP	N 41° 1' 24.21" W 76° 39' 55.04" 09 W	L	1000.0	109.20	MIP	Disabled
57	MXE	N 39° 55' 5.00" W 75° 40' 14.91" 09 W	L	473.4	113.20	MXE	Disabled
58	REC	N 40° 32' 47.25" W 78° 44' 49.28" 09 W	L	2340.0	110.60	REC	Disabled
59	SFK	N 41° 41' 42.91" W 77° 25' 11.66" 08 W	L	1984.7	108.60	SFK	Disabled
60	SLT	N 41° 30' 45.93" W 77° 58' 12.39" 08 W	H	2310.0	113.90	SLT	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
61	TDT	N 41° 42' 46.91" W 79° 25' 2.17" 09 W	L	1710.0	117.60	TDT	Disabled
Restriction:		Bearing [True]: 32.0° to 42.0° Bearing [Mag]: 41.0° to 51.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
Restriction:		Bearing [True]: 296.0° to 331.0° Bearing [Mag]: 305.0° to 340.0°			Distance: Beyond 24.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 331.0° to 356.0° Bearing [Mag]: 340.0° to 5.0°			Distance: Beyond 24.0 NM Altitude: Below 5000.0 ft		
62	THS	N 39° 55' 59.62" W 77° 57' 3.40" 07 W	L	2338.0	115.00	THS	Disabled
63	AUW	N 44° 50' 48.40" W 89° 35' 11.68" 02 E	L	1204.7	111.60	AUW	Disabled
Restriction:		Bearing [True]: 322.0° to 302.0° Bearing [Mag]: 320.0° to 300.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 302.0° to 322.0° Bearing [Mag]: 300.0° to 320.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
64	JVL	N 42° 33' 28.83" W 89° 6' 18.93" 03 E	L	931.4	114.30	JVL	Disabled
65	LNR	N 43° 17' 39.85" W 90° 7' 59.33" 00 E	L	1184.6	112.80	LNR	Disabled
66	STE	N 44° 32' 35.69" W 89° 31' 50.02" 01 W	L	1110.0	110.60	STE	Disabled
Restriction:		Bearing [True]: 359.0° to 359.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
67	CKB	N 39° 15' 11.57" W 80° 16' 4.32" 04 W	L	1425.7	112.60	CKB	Disabled
68	ESL	N 39° 13' 31.77" W 78° 59' 22.20" 06 W	L	2590.0	110.80	ESL	Disabled
69	HNN	N 38° 45' 14.85" W 82° 1' 34.20" 03 W	H	880.0	115.90	HNN	Disabled
70	GRV	N 39° 38' 6.11" W 79° 3' 1.90" 06 W	L	2640.0	112.30	GRV	Disabled
Restriction:		Bearing [True]: 301.0° to 64.0° Bearing [Mag]: 307.0° to 70.0°			Distance: Beyond 20.0 NM Altitude: Below 5000.0 ft		
Restriction:		Bearing [True]: 65.0° to 300.0° Bearing [Mag]: 71.0° to 306.0°			Distance: Beyond 20.0 NM Altitude: Below 6000.0 ft		
Restriction:		Bearing [True]: 102.0° to 107.0° Bearing [Mag]: 108.0° to 113.0°			Distance: Beyond 38.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 319.0° to 339.0° Bearing [Mag]: 325.0° to 345.0°			Distance: Beyond 35.0 NM Altitude: Below 99999.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
71	CRL	N 42° 2' 52.90" W 83° 27' 27.30" 03 W	H	629.0	115.70	CRL	Used
		ESV:	Bearing [True]: 259.0° to 268.0° Bearing [Mag]: 262.0° to 271.0°		Arc Distance: Out to 103.0 NM Altitude: 10000.0 to 16000.0 ft		
		ESV:	Bearing [True]: 293.0° to 359.0° Bearing [Mag]: 296.0° to 2.0°		Arc Distance: Out to 102.0 NM Altitude: 8500.0 to 16000.0 ft		
		ESV:	Bearing [True]: 65.0° to 98.0° Bearing [Mag]: 68.0° to 101.0°		Arc Distance: Out to 64.0 NM Altitude: 4000.0 to 16000.0 ft		
72	FWA	N 40° 58' 44.63" W 85° 11' 17.01" 06 W	H	792.6	117.80	FWA	Not Used
		Restriction:	Bearing [True]: 55.0° to 65.0° Bearing [Mag]: 61.0° to 71.0°		Distance: Beyond 0.0 NM Altitude: Below 7000.0 ft		
		Restriction:	Bearing [True]: 354.0° to 354.0° Bearing [Mag]: 360.0° to 360.0°		Distance: Beyond 33.0 NM Altitude: Below 2800.0 ft		
		Restriction:	Bearing [True]: 170.0° to 210.0° Bearing [Mag]: 176.0° to 216.0°		Distance: Beyond 22.0 NM Altitude: Below 4000.0 ft		
		Restriction:	Bearing [True]: 260.0° to 290.0° Bearing [Mag]: 266.0° to 296.0°		Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
		ESV:	Bearing [True]: 306.0° to 359.0° Bearing [Mag]: 312.0° to 5.0°		Arc Distance: Out to 101.0 NM Altitude: 10000.0 to 20000.0 ft		
73	VWV	N 41° 27' 5.35" W 83° 38' 19.30" 02 W	L	664.2	113.10	VWV	Used
		ESV:	Bearing [True]: 283.0° to 324.0° Bearing [Mag]: 285.0° to 326.0°		Arc Distance: Out to 85.0 NM Altitude: 10000.0 to 20000.0 ft		
		ESV:	Bearing [True]: 50.0° to 71.0° Bearing [Mag]: 52.0° to 73.0°		Arc Distance: Out to 78.0 NM Altitude: 6700.0 to 20000.0 ft		
74	PSI	N 42° 42' 3.09" W 83° 31' 57.98" 03 W	L	1149.3	111.00	PSI	Not Used
		Restriction:	Bearing [True]: 167.0° to 207.0° Bearing [Mag]: 170.0° to 210.0°		Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
		ESV:	Bearing [True]: 125.0° to 167.0° Bearing [Mag]: 128.0° to 170.0°		Arc Distance: Out to 80.0 NM Altitude: 7400.0 to 11000.0 ft		
75	SVM	N 42° 24' 31.09" W 83° 35' 38.05" 03 W	L	955.8	114.30	SVM	Used
		ESV:	Bearing [True]: 223.0° to 252.0° Bearing [Mag]: 226.0° to 255.0°		Arc Distance: Out to 81.0 NM Altitude: 10000.0 to 17000.0 ft		
		ESV:	Bearing [True]: 89.0° to 117.0° Bearing [Mag]: 92.0° to 120.0°		Arc Distance: Out to 73.0 NM Altitude: 6200.0 to 20000.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
76	MFD	N 40° 52' 7.00" W 82° 35' 27.46" 03 W	L	1222.0	108.80	MFD	Used
Restriction:		Bearing [True]: 72.0° to 92.0° Bearing [Mag]: 75.0° to 95.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 148.0° to 211.0° Bearing [Mag]: 151.0° to 214.0°			Distance: Beyond 30.0 NM Altitude: Below 99999.0 ft		
ESV:		Bearing [True]: 325.0° to 43.0° Bearing [Mag]: 328.0° to 46.0°			Arc Distance: Out to 80.0 NM Altitude: 6400.0 to 20000.0 ft		
77	ACO	N 41° 6' 28.45" W 81° 12' 5.49" 04 W	L	1198.4	114.40	ACO	Used
ESV:		Bearing [True]: 303.0° to 321.0° Bearing [Mag]: 307.0° to 325.0°			Arc Distance: Out to 82.0 NM Altitude: 7700.0 to 11000.0 ft		
78	DXO	N 42° 12' 47.29" W 83° 22' 0.00" 06 W	H	637.7	113.40	DXO	Used
Restriction:		Bearing [True]: 354.0° to 354.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 30.0 NM Altitude: Below 2900.0 ft		
ESV:		Bearing [True]: 279.0° to 333.0° Bearing [Mag]: 285.0° to 339.0°			Arc Distance: Out to 106.0 NM Altitude: 9700.0 to 20000.0 ft		
79	OKK	N 40° 31' 40.01" W 86° 3' 28.79" 05 W	H	825.8	113.50	OKK	Not Used
Restriction:		Bearing [True]: 171.0° to 229.0° Bearing [Mag]: 176.0° to 234.0°			Distance: Beyond 35.0 NM Altitude: Below 2400.0 ft		
ESV:		Bearing [True]: 356.0° to 50.0° Bearing [Mag]: 1.0° to 55.0°			Arc Distance: Out to 101.0 NM Altitude: 9900.0 to 20000.0 ft		
80	OBK	N 42° 13' 16.96" W 87° 57' 5.83" 02 W	H	707.0	113.00	OBK	Not Used
ESV:		Bearing [True]: 87.0° to 97.0° Bearing [Mag]: 89.0° to 99.0°			Arc Distance: Out to 103.0 NM Altitude: 10000.0 to 20000.0 ft		
81	OXI	N 41° 19' 19.35" W 86° 38' 57.45" 00 E	H	690.0	115.60	OXI	Not Used
ESV:		Bearing [True]: 360.0° to 138.0° Bearing [Mag]: 360.0° to 138.0°			Arc Distance: Out to 106.0 NM Altitude: 10000.0 to 20000.0 ft		
82	CXR	N 41° 31' 0.94" W 81° 9' 47.47" 05 W	H	1317.2	112.70	CXR	Used
ESV:		Bearing [True]: 298.0° to 343.0° Bearing [Mag]: 303.0° to 348.0°			Arc Distance: Out to 73.0 NM Altitude: 6200.0 to 16000.0 ft		



Name: Paul Jackson
Project Name: KCLE BRWNZ STAR
Output File: KCLE BRWNZ1 STAR
HASTE BRWNZ
20171030_1021
Procedure Name: BRWNZ1
Software: RNAV-Pro™
Version: 2.39
Date/Time: 10/30/2017 10:22:02 AM
Input File: [KCLE BRWNZ1 HASTE
BRWNZ 20170828_0950.txt](#)
Databases: AIRNAV Date: 9/17/2017
CIFP Date: 7/20/2017
DTED® (MAX) Date: 2002

Results Summary:

Flyability



DME/DME



No Critical DMEs Exist

Radars

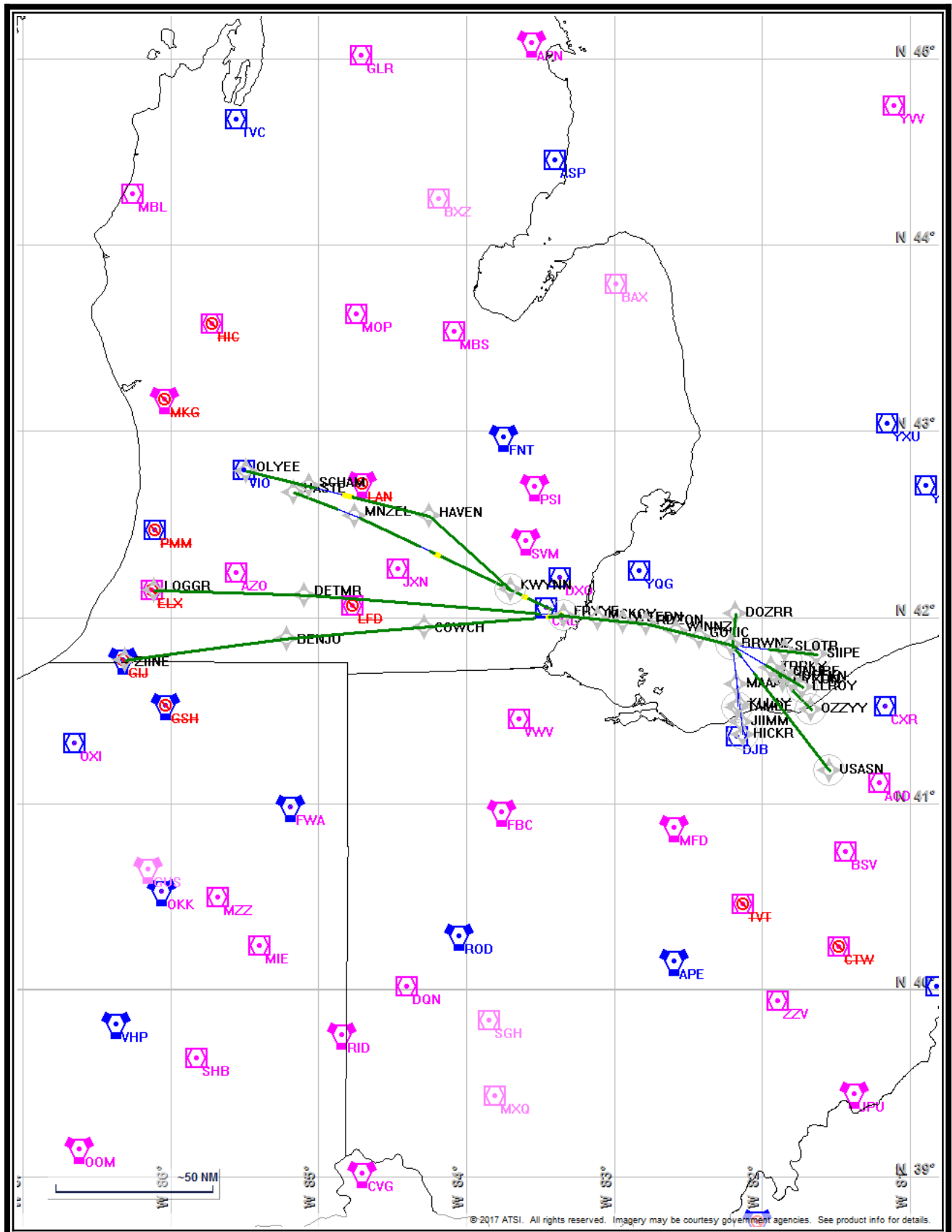


Comms



TERPS

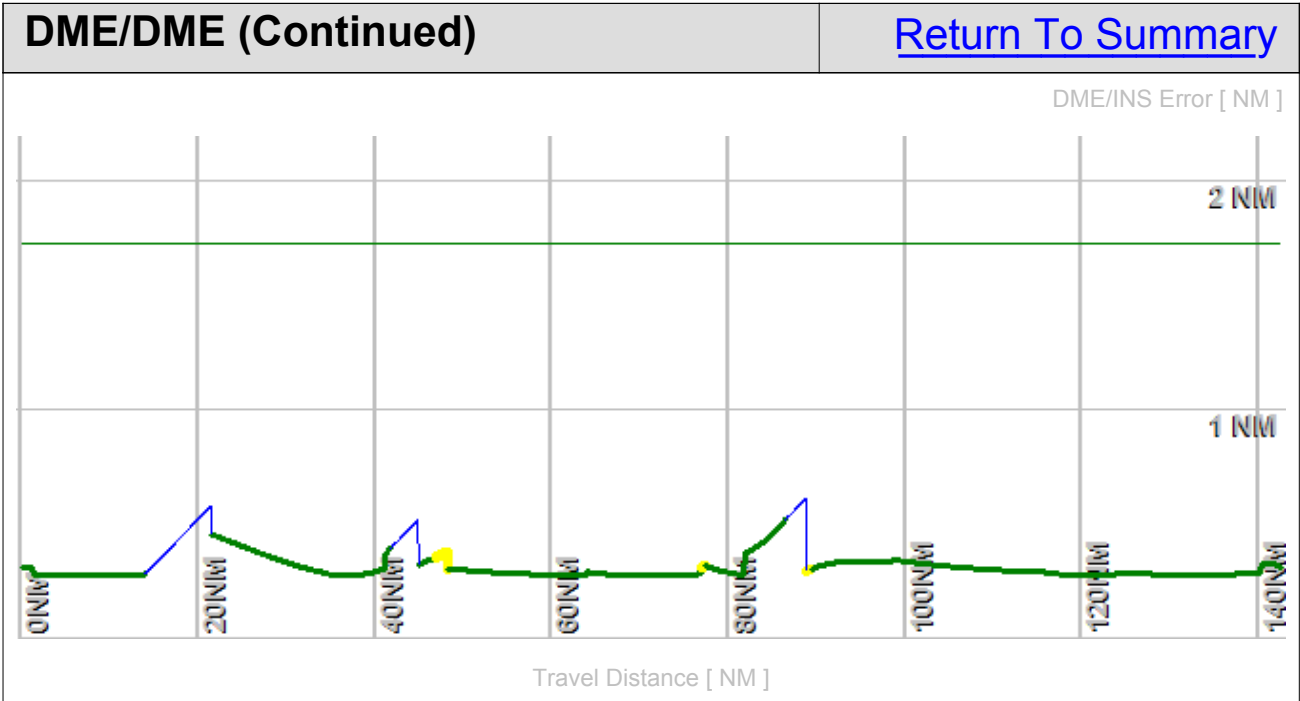




Flight Plan					Return To Summary		
Name	Type	Lat/Lon	Alt [ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
HASTE	WP	N 42° 40' 15.43" W 85° 10' 2.50"	10000.0	Step	280.0	Fly By	TF
MNZEL	WP	N 42° 32' 40.02" W 84° 45' 5.69"	10000.0	Step	280.0	Fly By	TF
KWYNN	WP	N 42° 8' 49.08" W 83° 41' 52.01"	10000.0	Step	280.0	Fly By	TF
FRYYE	WP	N 42° 0' 27.89" W 83° 20' 11.22"	10000.0	Step	280.0	Fly By	TF
MCKOY	WP	N 41° 59' 26.14" W 83° 6' 30.86"	10000.0	Step	280.0	Fly By	TF
WEEDN	WP	N 41° 58' 37.27" W 82° 56' 5.98"	10000.0	Step	280.0	Fly By	TF
RDZON	WP	N 41° 57' 52.34" W 82° 46' 45.45"	10000.0	Step	210.0	Fly By	TF
WINNZ	WP	N 41° 55' 26.66" W 82° 34' 29.63"	10000.0	Step	210.0	Fly By	TF
GOLIC	WP	N 41° 53' 34.65" W 82° 25' 3.86"	10000.0	Step	210.0	Fly By	TF
BRWNZ	WP	N 41° 51' 0.43" W 82° 12' 4.69"	10000.0	Step	210.0	Fly Over	TF

Flyability		Return To Summary
Settings:	Flight Type: Arrival	
	Selected Airport: KCLE	
	Aircraft Category: Cat D	
	Climb Gradient: <i>None assigned</i>	
	Ground Speeds:	
	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: <i>None assigned</i>	
	Descent During a Turn: Allowed	
	VNAV Mode: Flight Plan	
Entire track is fly-able		

DME/DME	Return To Summary
Settings:	<p> RNP: 2.0 Flight Mode: Manual Line of Sight (DTED Level 0 Max): Evaluated DME Restrictions: Evaluated Inertial Drift: Enabled Initial Drift: 0.558 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, Standalone, and User DME Include Angles: 30 to 150 Critical DMEs: Allowed DoD Facilities: Not included Foreign Facilities: Not included Low DMEs: Included Terminal DMEs: Included Flight Check DMEs: Selected Higher Altitudes: Evaluated Near Maximum Altitude: Evaluated </p>
<p> Total Number of DMEs Used: 10 Maximum DME Error: 0.616 NM. No Critical DMEs were found. Available DMEs: CRL, DXO, AZO, VIO, JXN, SVM, PSI, MFD, VWV, ACO, DJB Disabled DMEs: LAN, LFD, ELX, GIJ, PMM, MKG, HIC, PLN, MNM, CTW, JFN, TVT, BDF, DNV, EON, PLL, PNT, RBS, SAM, UIN, VLA, BVT, GSH, ECB, EWO, FLM, YRK, BRD, DWN, HML, ODI, RST, CMK, DNY, GFL, GGT, HNK, HUO, LGA, HTO, MSS, PWL, RKA, SLK, UCA, ULW, CRI, AGC, BFD, CIP, ETG, FJC, FQM, IHD, LVZ, MIP, MXE, REC, SFK, SLT, TDT, THS, AUW, JVL, LNR, STE, CKB, ESL, HNN, and GRV Foreign DMEs within range: YQG, YQO, YVV, YWT, YXU, YYZ, YEE Co-Frequency Interference: 108.2(FBC) and 109(AZO, YNG) </p>	



DME/DME (Continued)						Return To Summary			
DMEs Used									
#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	CRL	N 42° 2' 52.90" W 83° 27' 27.30" 03 W	H + ESV	User	NO	1.383	Enabled	43.5%	43.5%
2	AZO	N 42° 14' 13.14" W 85° 33' 11.35" 01 W	L	Database	NO	1.418	Enabled	9.8%	9.8%
3	JXN	N 42° 15' 33.27" W 84° 27' 30.77" 05 W	L	Database	NO	1.560	Enabled	29.2%	29.2%
4	DXO	N 42° 12' 47.29" W 83° 22' 0.00" 06 W	H + ESV	User	NO	0.922	Enabled	21.9%	21.9%
5	SVM	N 42° 24' 31.09" W 83° 35' 38.05" 03 W	L + ESV	User	NO	0.583	Enabled	13.9%	13.9%
6	PSI	N 42° 42' 3.09" W 83° 31' 57.98" 03 W	L + ESV	User	NO	0.616	Enabled	23.4%	23.4%
7	MFD	N 40° 52' 7.00" W 82° 35' 27.46" 03 W	L + ESV	User	NO	0.632	Enabled	15.3%	15.3%
8	VWV	N 41° 27' 5.35" W 83° 38' 19.30" 02 W	L + ESV	User	NO	0.616	Enabled	15.6%	15.6%
9	DJB	N 41° 21' 29.03" W 82° 9' 43.09" 05 W	H	Database	NO	0.616	Enabled	8.7%	8.7%
10	ACO	N 41° 6' 28.45" W 81° 12' 5.49" 04 W	L + ESV	User	NO	0.616	Enabled	0.1%	0.1%
	Total Coverage							90.7%	90.7%
Flight Check DME Selection									
Distance [NM]		Selected DMEs						Alternate	
0.0		CRL	AZO	VIO	DXO	JXN			
19.7		CRL	VIO	DXO	JXN				
29.8		CRL	PSI	SVM	DXO	JXN			
72.5		CRL	MFD	SVM	DXO	JXN			
90.2		CRL	MFD	SVM	DXO	PSI			
100.9		CRL	MFD	SVM	DXO	PSI			
108.7		CRL	MFD	DXO	PSI				
115.4		CRL	MFD	VWV	DXO	PSI	ACO		
125.2		DJB	MFD	VWV	ACO	PSI			

DME/DME (Continued)					Return To Summary	
Flight Check DME Selection (Continued)						
Distance [NM]		Selected DMEs				Alternate
132.5		DJB	MFD	VWV	ACO	PSI
Inertial Drift Segments						
#	Start Location		End Location			Length [NM]
1	N 42° 34' 54.71" W 84° 52' 25.72"		N 42° 31' 58.14" W 84° 43' 10.65"			7.4
VOR: LFD		Available from N 42° 34' 54.71" W 84° 52' 25.72" to N 42° 31' 58.14" W 84° 43' 10.65"				
VOR: AZO		Available from N 42° 34' 54.71" W 84° 52' 25.72" to N 42° 32' 44.58" W 84° 45' 20.52"				
VOR: LAN		Available from N 42° 34' 54.71" W 84° 52' 25.72" to N 42° 31' 58.14" W 84° 43' 10.65"				
VOR: JXN		Available from N 42° 34' 54.71" W 84° 52' 25.72" to N 42° 31' 58.14" W 84° 43' 10.65"				
VOR: VIO		Available from N 42° 34' 54.71" W 84° 52' 25.72" to N 42° 31' 58.14" W 84° 43' 10.65"				
2	N 42° 22' 51.29" W 84° 18' 47.33"		N 42° 21' 25.23" W 84° 14' 58.79"			3.2
VOR: LFD		Available from N 42° 22' 51.29" W 84° 18' 47.33" to N 42° 21' 25.23" W 84° 14' 58.79"				
VOR: LAN		Available from N 42° 22' 51.29" W 84° 18' 47.33" to N 42° 21' 25.23" W 84° 14' 58.79"				
VOR: JXN		Available from N 42° 22' 51.29" W 84° 18' 47.33" to N 42° 21' 25.23" W 84° 14' 58.79"				
VOR: YIP		Available from N 42° 22' 51.29" W 84° 18' 47.33" to N 42° 21' 25.23" W 84° 14' 58.79"				
VOR: SVM		Available from N 42° 22' 51.29" W 84° 18' 47.33" to N 42° 21' 25.23" W 84° 14' 58.79"				
VOR: PSI		Available from N 42° 22' 51.29" W 84° 18' 47.33" to N 42° 21' 25.23" W 84° 14' 58.79"				
VOR: CRL		Available from N 42° 21' 28.25" W 84° 15' 6.81" to N 42° 21' 25.23" W 84° 14' 58.79"				

DME/DME (Continued)			Return To Summary
<i>Inertial Drift Segments (Continued)</i>			
#	Start Location	End Location	Length [NM]
3	N 42° 2' 27.08" W 83° 25' 18.98"	N 42° 1' 19.48" W 83° 22' 24.30"	2.4
	VOR: BQE	Available from N 42° 2' 27.08" W 83° 25' 18.98" to N 42° 1' 19.48" W 83° 22' 24.30"	
	VOR: DET	Available from N 42° 2' 27.08" W 83° 25' 18.98" to N 42° 1' 19.48" W 83° 22' 24.30"	
	VOR: VWV	Available from N 42° 2' 27.08" W 83° 25' 18.98" to N 42° 1' 19.48" W 83° 22' 24.30"	
	VOR: CRL	Available from N 42° 2' 27.08" W 83° 25' 18.98" to N 42° 1' 19.48" W 83° 22' 24.30"	
	VOR: YQG	Available from N 42° 2' 27.08" W 83° 25' 18.98" to N 42° 1' 19.48" W 83° 22' 24.30"	
	VOR: DTW	Available from N 42° 2' 27.08" W 83° 25' 18.98" to N 42° 1' 19.48" W 83° 22' 24.30"	
	VOR: YIP	Available from N 42° 2' 27.08" W 83° 25' 18.98" to N 42° 1' 19.48" W 83° 22' 24.30"	
	VOR: SVM	Available from N 42° 2' 27.08" W 83° 25' 18.98" to N 42° 1' 19.48" W 83° 22' 24.30"	
	VOR: PSI	Available from N 42° 2' 27.08" W 83° 25' 18.98" to N 42° 2' 22.47" W 83° 25' 7.07"	
	VOR: DXO	Available from N 42° 2' 27.08" W 83° 25' 18.98" to N 42° 1' 19.48" W 83° 22' 24.30"	

Available DMEs by Waypoints		Return To Summary
Waypoint Before	Waypoint After	DME List
HASTE	MNZEL	DXO, CRL, AZO, JXN, and VIO
MNZEL	KWYNN	DXO, SVM, PSI, CRL, JXN, and VIO
KWYNN	FRYYE	DXO, MFD, SVM, CRL, and JXN
FRYYE	MCKOY	DXO, MFD, SVM, PSI, and CRL
MCKOY	WEEDN	DXO, MFD, SVM, PSI, and CRL
WEEDN	RDZON	DXO, MFD, PSI, and CRL
RDZON	WINNZ	DXO, MFD, PSI, VWV, CRL, and ACO*
WINNZ	GOLIC	ACO, MFD, PSI, VWV, and DJB
GOLIC	BRWNZ	ACO, MFD, PSI, VWV, and DJB

User Data					Return To Summary		
User Data Files							
#	File Name						
1	BRWNZ1_New.udt						
User DMEs							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	LAN	N 42° 43' 2.62" W 84° 41' 51.03" 05 W	L	887.4	110.80	LAN	Disabled
2	LFD	N 42° 3' 44.96" W 84° 45' 54.48" 05 W	L	1040.0	111.20	LFD	Disabled
Restriction:		Bearing [True]: 105.0° to 160.0° Bearing [Mag]: 110.0° to 165.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
3	ELX	N 42° 8' 39.88" W 86° 7' 21.74" 00 E	L	793.7	116.60	ELX	Disabled
4	GIJ	N 41° 46' 7.00" W 86° 19' 6.42" 00 E	H	802.7	115.40	GIJ	Disabled
Restriction:		Bearing [True]: 360.0° to 360.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3500.0 ft		
5	PMM	N 42° 27' 57.73" W 86° 6' 17.32" 00 E	H	639.9	112.10	PMM	Disabled
Restriction:		Bearing [True]: 360.0° to 360.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
6	MKG	N 43° 10' 9.31" W 86° 2' 21.76" 01 W	L	659.1	115.20	MKG	Disabled
Restriction:		Bearing [True]: 54.0° to 89.0° Bearing [Mag]: 55.0° to 90.0°			Distance: Beyond 10.0 NM Altitude: Below 4000.0 ft		
7	HIC	N 43° 34' 29.47" W 85° 42' 58.18" 01 W	L	920.0	117.60	HIC	Disabled
Restriction:		Bearing [True]: 19.0° to 89.0° Bearing [Mag]: 20.0° to 90.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 269.0° to 289.0° Bearing [Mag]: 270.0° to 290.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
8	PLN	N 45° 37' 50.33" W 84° 39' 50.79" 06 W	L	835.3	111.80	PLN	Disabled
9	MNM	N 45° 10' 48.58" W 87° 38' 49.83" 00 E	L	650.1	109.60	MNM	Disabled
10	CTW	N 40° 13' 45.15" W 81° 28' 35.32" 07 W	L	1180.0	111.80	CTW	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
11	JFN	N 41° 45' 36.42" W 80° 44' 53.20" 05 W	L	896.3	115.20	JFN	Disabled
Restriction:		Bearing [True]: 226.0° to 255.0° Bearing [Mag]: 231.0° to 260.0°			Distance: Beyond 30.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 121.0° to 185.0° Bearing [Mag]: 126.0° to 190.0°			Distance: Beyond 20.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 186.0° to 225.0° Bearing [Mag]: 191.0° to 230.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 80.0° to 120.0° Bearing [Mag]: 85.0° to 125.0°			Distance: Beyond 35.0 NM Altitude: Below 3500.0 ft		
12	TVT	N 40° 27' 29.04" W 82° 7' 36.52" 03 W	L	1330.4	116.50	TVT	Disabled
13	BDF	N 41° 9' 35.03" W 89° 35' 16.34" 00 E	H	810.0	114.70	BDF	Disabled
14	DNV	N 40° 17' 37.56" W 87° 33' 26.14" 02 E	L	698.8	111.00	DNV	Disabled
15	EON	N 41° 16' 10.68" W 87° 47' 27.79" 02 E	L	688.7	113.20	EON	Disabled
16	PLL	N 41° 57' 56.31" W 89° 31' 27.19" 03 E	L	840.0	111.20	PLL	Disabled
17	PNT	N 40° 49' 16.32" W 88° 44' 0.63" 03 E	L	680.0	109.60	PNT	Disabled
18	RBS	N 40° 34' 54.13" W 88° 9' 51.36" 02 E	L	780.0	116.80	RBS	Disabled
19	SAM	N 38° 29' 6.68" W 88° 5' 8.90" 03 E	L	540.0	116.60	SAM	Disabled
20	UIN	N 39° 50' 52.35" W 91° 16' 44.13" 05 E	H	715.1	113.60	UIN	Disabled
21	VLA	N 39° 5' 37.82" W 89° 9' 44.08" 04 E	L	605.5	114.30	VLA	Disabled
22	BVT	N 40° 33' 22.22" W 87° 4' 9.75" 01 E	H	752.2	115.10	BVT	Disabled
Restriction:		Bearing [True]: 299.0° to 45.0° Bearing [Mag]: 298.0° to 44.0°			Distance: Beyond 0.0 NM Altitude: Below 2800.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
23	GSH	N 41° 31' 30.56" W 86° 1' 40.63" 00 E	H	851.8	113.70	GSH	Disabled
Restriction:		Bearing [True]: 71.0° to 129.0° Bearing [Mag]: 71.0° to 129.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
24	ECB	N 38° 9' 30.11" W 82° 54' 36.20" 02 W	L	1070.0	110.40	ECB	Disabled
25	EWO	N 37° 37' 54.52" W 85° 40' 33.16" 01 E	L	960.0	110.80	EWO	Disabled
26	FLM	N 38° 38' 57.99" W 84° 18' 38.17" 04 W	H	808.5	117.00	FLM	Disabled
27	YRK	N 38° 38' 38.88" W 82° 58' 42.02" 05 W	L	1040.0	112.80	YRK	Disabled
28	BRD	N 46° 20' 53.81" W 94° 1' 33.54" 03 E	H	1253.9	116.90	BRD	Disabled
Restriction:		Bearing [True]: 3.0° to 3.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 29.0 NM Altitude: Below 3000.0 ft		
29	DWN	N 45° 5' 14.87" W 94° 27' 13.86" 07 E	L	1130.0	109.00	DWN	Disabled
30	HML	N 48° 52' 9.07" W 97° 7' 4.45" 09 E	H	797.4	112.40	HML	Disabled
Restriction:		Bearing [True]: 84.0° to 94.0° Bearing [Mag]: 75.0° to 85.0°			Distance: Beyond 0.0 NM Altitude: Below 10000.0 ft		
Restriction:		Bearing [True]: 95.0° to 263.0° Bearing [Mag]: 86.0° to 254.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 264.0° to 279.0° Bearing [Mag]: 255.0° to 270.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 280.0° to 83.0° Bearing [Mag]: 271.0° to 74.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
31	ODI	N 43° 54' 44.38" W 91° 28' 3.06" 01 E	H	1282.2	117.90	ODI	Disabled
32	RST	N 43° 46' 58.45" W 92° 35' 49.06" 05 E	L	1393.0	112.00	RST	Disabled
33	CMK	N 41° 16' 48.32" W 73° 34' 52.77" 12 W	L	693.8	116.60	CMK	Disabled
34	DNY	N 42° 10' 41.81" W 74° 57' 24.99" 11 W	L	2560.0	112.10	DNY	Disabled

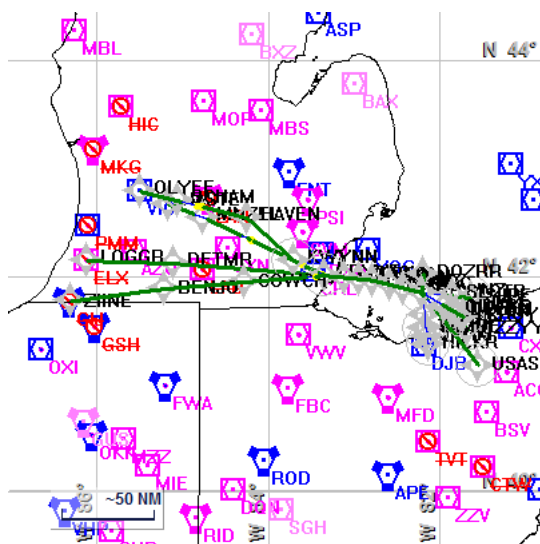
User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
35	GFL	N 43° 20' 30.09" W 73° 36' 42.32" 14 W	L	323.7	110.20	GFL	Disabled
Restriction:		Bearing [True]: 346.0° to 346.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 0.0 NM Altitude: Below 9000.0 ft		
36	GGT	N 42° 47' 20.24" W 75° 49' 36.29" 11 W	L	2040.0	117.80	GGT	Disabled
37	HNK	N 42° 3' 47.00" W 75° 18' 58.62" 11 W	H	2070.0	116.80	HNK	Disabled
38	HUO	N 41° 24' 34.87" W 74° 35' 29.74" 11 W	H	1300.3	116.10	HUO	Disabled
39	LGA	N 40° 47' 1.38" W 73° 52' 6.96" 12 W	L	8.9	113.10	LGA	Disabled
Restriction:		Bearing [True]: 233.0° to 268.0° Bearing [Mag]: 245.0° to 280.0°			Distance: Beyond 25.0 NM Altitude: Below 6000.0 ft		
40	HTO	N 40° 55' 8.38" W 72° 19' 0.14" 13 W	H	22.0	113.60	HTO	Disabled
Restriction:		Bearing [True]: 267.0° to 312.0° Bearing [Mag]: 280.0° to 325.0°			Distance: Beyond 35.0 NM Altitude: Below 1700.0 ft		
Restriction:		Bearing [True]: 312.0° to 342.0° Bearing [Mag]: 325.0° to 355.0°			Distance: Beyond 30.0 NM Altitude: Below 2000.0 ft		
41	MSS	N 44° 54' 51.92" W 74° 43' 21.78" 14 W	H	197.5	114.10	MSS	Disabled
42	PWL	N 41° 46' 11.18" W 73° 36' 1.99" 12 W	L	1250.0	114.30	PWL	Disabled
43	RKA	N 42° 27' 58.91" W 75° 14' 21.51" 11 W	L	2027.2	112.60	RKA	Disabled
44	SLK	N 44° 23' 4.41" W 74° 12' 16.21" 14 W	L	1646.8	109.20	SLK	Disabled
45	UCA	N 43° 1' 35.45" W 75° 9' 52.28" 12 W	L	1420.0	111.20	UCA	Disabled
46	ULW	N 42° 5' 39.16" W 77° 1' 28.53" 12 W	L	1631.8	109.65	ULW	Disabled
47	CRI	N 40° 36' 44.90" W 73° 53' 40.00" 11 W	T	10.0	112.30	CRI	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
48	AGC	N 40° 16' 43.12" W 80° 2' 27.08" 09 W	L	1284.6	110.00	AGC	Disabled
49	BFD	N 41° 47' 10.99" W 78° 37' 9.65" 07 W	L	2110.6	116.60	BFD	Disabled
50	CIP	N 41° 8' 46.66" W 79° 27' 28.71" 06 W	L	1519.5	112.90	CIP	Disabled
51	ETG	N 41° 12' 53.82" W 78° 8' 33.92" 10 W	H	2250.0	116.00	ETG	Disabled
52	FJC	N 40° 43' 36.12" W 75° 27' 17.12" 10 W	L	680.6	117.50	FJC	Disabled
Restriction:		Bearing [True]: 290.0° to 50.0° Bearing [Mag]: 300.0° to 60.0°			Distance: Beyond 26.0 NM Altitude: Below 4500.0 ft		
Restriction:		Bearing [True]: 51.0° to 289.0° Bearing [Mag]: 61.0° to 299.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
53	FQM	N 41° 20' 18.81" W 76° 46' 29.52" 09 W	L	2098.0	114.40	FQM	Disabled
54	IHD	N 39° 58' 27.27" W 79° 21' 30.12" 06 W	L	2820.0	108.20	IHD	Disabled
55	LVZ	N 41° 16' 22.09" W 75° 41' 22.08" 10 W	L	2118.8	111.60	LVZ	Disabled
56	MIP	N 41° 1' 24.21" W 76° 39' 55.04" 09 W	L	1000.0	109.20	MIP	Disabled
57	MXE	N 39° 55' 5.00" W 75° 40' 14.91" 09 W	L	473.4	113.20	MXE	Disabled
58	REC	N 40° 32' 47.25" W 78° 44' 49.28" 09 W	L	2340.0	110.60	REC	Disabled
59	SFK	N 41° 41' 42.91" W 77° 25' 11.66" 08 W	L	1984.7	108.60	SFK	Disabled
60	SLT	N 41° 30' 45.93" W 77° 58' 12.39" 08 W	H	2310.0	113.90	SLT	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
61	TDT	N 41° 42' 46.91" W 79° 25' 2.17" 09 W	L	1710.0	117.60	TDT	Disabled
Restriction:		Bearing [True]: 32.0° to 42.0° Bearing [Mag]: 41.0° to 51.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
Restriction:		Bearing [True]: 296.0° to 331.0° Bearing [Mag]: 305.0° to 340.0°			Distance: Beyond 24.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 331.0° to 356.0° Bearing [Mag]: 340.0° to 5.0°			Distance: Beyond 24.0 NM Altitude: Below 5000.0 ft		
62	THS	N 39° 55' 59.62" W 77° 57' 3.40" 07 W	L	2338.0	115.00	THS	Disabled
63	AUW	N 44° 50' 48.40" W 89° 35' 11.68" 02 E	L	1204.7	111.60	AUW	Disabled
Restriction:		Bearing [True]: 322.0° to 302.0° Bearing [Mag]: 320.0° to 300.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 302.0° to 322.0° Bearing [Mag]: 300.0° to 320.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
64	JVL	N 42° 33' 28.83" W 89° 6' 18.93" 03 E	L	931.4	114.30	JVL	Disabled
65	LNR	N 43° 17' 39.85" W 90° 7' 59.33" 00 E	L	1184.6	112.80	LNR	Disabled
66	STE	N 44° 32' 35.69" W 89° 31' 50.02" 01 W	L	1110.0	110.60	STE	Disabled
Restriction:		Bearing [True]: 359.0° to 359.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
67	CKB	N 39° 15' 11.57" W 80° 16' 4.32" 04 W	L	1425.7	112.60	CKB	Disabled
68	ESL	N 39° 13' 31.77" W 78° 59' 22.20" 06 W	L	2590.0	110.80	ESL	Disabled
69	HNN	N 38° 45' 14.85" W 82° 1' 34.20" 03 W	H	880.0	115.90	HNN	Disabled
70	GRV	N 39° 38' 6.11" W 79° 3' 1.90" 06 W	L	2640.0	112.30	GRV	Disabled
Restriction:		Bearing [True]: 301.0° to 64.0° Bearing [Mag]: 307.0° to 70.0°			Distance: Beyond 20.0 NM Altitude: Below 5000.0 ft		
Restriction:		Bearing [True]: 65.0° to 300.0° Bearing [Mag]: 71.0° to 306.0°			Distance: Beyond 20.0 NM Altitude: Below 6000.0 ft		
Restriction:		Bearing [True]: 102.0° to 107.0° Bearing [Mag]: 108.0° to 113.0°			Distance: Beyond 38.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 319.0° to 339.0° Bearing [Mag]: 325.0° to 345.0°			Distance: Beyond 35.0 NM Altitude: Below 99999.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
71	CRL	N 42° 2' 52.90" W 83° 27' 27.30" 03 W	H	629.0	115.70	CRL	Used
		ESV:	Bearing [True]: 259.0° to 268.0° Bearing [Mag]: 262.0° to 271.0°		Arc Distance: Out to 103.0 NM Altitude: 10000.0 to 16000.0 ft		
		ESV:	Bearing [True]: 293.0° to 359.0° Bearing [Mag]: 296.0° to 2.0°		Arc Distance: Out to 102.0 NM Altitude: 8500.0 to 16000.0 ft		
		ESV:	Bearing [True]: 65.0° to 98.0° Bearing [Mag]: 68.0° to 101.0°		Arc Distance: Out to 64.0 NM Altitude: 4000.0 to 16000.0 ft		
72	FWA	N 40° 58' 44.63" W 85° 11' 17.01" 06 W	H	792.6	117.80	FWA	Not Used
		Restriction:	Bearing [True]: 55.0° to 65.0° Bearing [Mag]: 61.0° to 71.0°		Distance: Beyond 0.0 NM Altitude: Below 7000.0 ft		
		Restriction:	Bearing [True]: 354.0° to 354.0° Bearing [Mag]: 360.0° to 360.0°		Distance: Beyond 33.0 NM Altitude: Below 2800.0 ft		
		Restriction:	Bearing [True]: 170.0° to 210.0° Bearing [Mag]: 176.0° to 216.0°		Distance: Beyond 22.0 NM Altitude: Below 4000.0 ft		
		Restriction:	Bearing [True]: 260.0° to 290.0° Bearing [Mag]: 266.0° to 296.0°		Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
		ESV:	Bearing [True]: 306.0° to 359.0° Bearing [Mag]: 312.0° to 5.0°		Arc Distance: Out to 101.0 NM Altitude: 10000.0 to 20000.0 ft		
73	VWV	N 41° 27' 5.35" W 83° 38' 19.30" 02 W	L	664.2	113.10	VWV	Used
		ESV:	Bearing [True]: 283.0° to 324.0° Bearing [Mag]: 285.0° to 326.0°		Arc Distance: Out to 85.0 NM Altitude: 10000.0 to 20000.0 ft		
		ESV:	Bearing [True]: 50.0° to 71.0° Bearing [Mag]: 52.0° to 73.0°		Arc Distance: Out to 78.0 NM Altitude: 6700.0 to 20000.0 ft		
74	PSI	N 42° 42' 3.09" W 83° 31' 57.98" 03 W	L	1149.3	111.00	PSI	Used
		Restriction:	Bearing [True]: 167.0° to 207.0° Bearing [Mag]: 170.0° to 210.0°		Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
		ESV:	Bearing [True]: 125.0° to 167.0° Bearing [Mag]: 128.0° to 170.0°		Arc Distance: Out to 80.0 NM Altitude: 7400.0 to 11000.0 ft		
75	SVM	N 42° 24' 31.09" W 83° 35' 38.05" 03 W	L	955.8	114.30	SVM	Used
		ESV:	Bearing [True]: 223.0° to 252.0° Bearing [Mag]: 226.0° to 255.0°		Arc Distance: Out to 81.0 NM Altitude: 10000.0 to 17000.0 ft		
		ESV:	Bearing [True]: 89.0° to 117.0° Bearing [Mag]: 92.0° to 120.0°		Arc Distance: Out to 73.0 NM Altitude: 6200.0 to 20000.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
76	MFD	N 40° 52' 7.00" W 82° 35' 27.46" 03 W	L	1222.0	108.80	MFD	Used
Restriction:		Bearing [True]: 72.0° to 92.0° Bearing [Mag]: 75.0° to 95.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 148.0° to 211.0° Bearing [Mag]: 151.0° to 214.0°			Distance: Beyond 30.0 NM Altitude: Below 99999.0 ft		
ESV:		Bearing [True]: 325.0° to 43.0° Bearing [Mag]: 328.0° to 46.0°			Arc Distance: Out to 80.0 NM Altitude: 6400.0 to 20000.0 ft		
77	ACO	N 41° 6' 28.45" W 81° 12' 5.49" 04 W	L	1198.4	114.40	ACO	Used
ESV:		Bearing [True]: 303.0° to 321.0° Bearing [Mag]: 307.0° to 325.0°			Arc Distance: Out to 82.0 NM Altitude: 7700.0 to 11000.0 ft		
78	DXO	N 42° 12' 47.29" W 83° 22' 0.00" 06 W	H	637.7	113.40	DXO	Used
Restriction:		Bearing [True]: 354.0° to 354.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 30.0 NM Altitude: Below 2900.0 ft		
ESV:		Bearing [True]: 279.0° to 333.0° Bearing [Mag]: 285.0° to 339.0°			Arc Distance: Out to 106.0 NM Altitude: 9700.0 to 20000.0 ft		
79	OKK	N 40° 31' 40.01" W 86° 3' 28.79" 05 W	H	825.8	113.50	OKK	Not Used
Restriction:		Bearing [True]: 171.0° to 229.0° Bearing [Mag]: 176.0° to 234.0°			Distance: Beyond 35.0 NM Altitude: Below 2400.0 ft		
ESV:		Bearing [True]: 356.0° to 50.0° Bearing [Mag]: 1.0° to 55.0°			Arc Distance: Out to 101.0 NM Altitude: 9900.0 to 20000.0 ft		
80	OBK	N 42° 13' 16.96" W 87° 57' 5.83" 02 W	H	707.0	113.00	OBK	Not Used
ESV:		Bearing [True]: 87.0° to 97.0° Bearing [Mag]: 89.0° to 99.0°			Arc Distance: Out to 103.0 NM Altitude: 10000.0 to 20000.0 ft		
81	OXI	N 41° 19' 19.35" W 86° 38' 57.45" 00 E	H	690.0	115.60	OXI	Not Used
ESV:		Bearing [True]: 360.0° to 138.0° Bearing [Mag]: 360.0° to 138.0°			Arc Distance: Out to 106.0 NM Altitude: 10000.0 to 20000.0 ft		
82	CXR	N 41° 31' 0.94" W 81° 9' 47.47" 05 W	H	1317.2	112.70	CXR	Not Used
ESV:		Bearing [True]: 298.0° to 343.0° Bearing [Mag]: 303.0° to 348.0°			Arc Distance: Out to 73.0 NM Altitude: 6200.0 to 16000.0 ft		



Name: Paul Jackson
Project Name: KCLE BRWNZ STAR
Output File: KCLE BRWNZ1 STAR
HASTE FRYYE
20171030_1021
Procedure Name: BRWNZ1
Software: RNAV-Pro™
Version: 2.39
Date/Time: 10/30/2017 10:26:12 AM
Input File: KCLE BRWNZ1 STAR
HASTE FRYYE
20170828_0951.txt
Databases: AIRNAV Date: 9/17/2017
CIFP Date: 7/20/2017
DTED® (MAX) Date: 2002

Results Summary:

Flyability



DME/DME



No Critical DMEs Exist

Radars

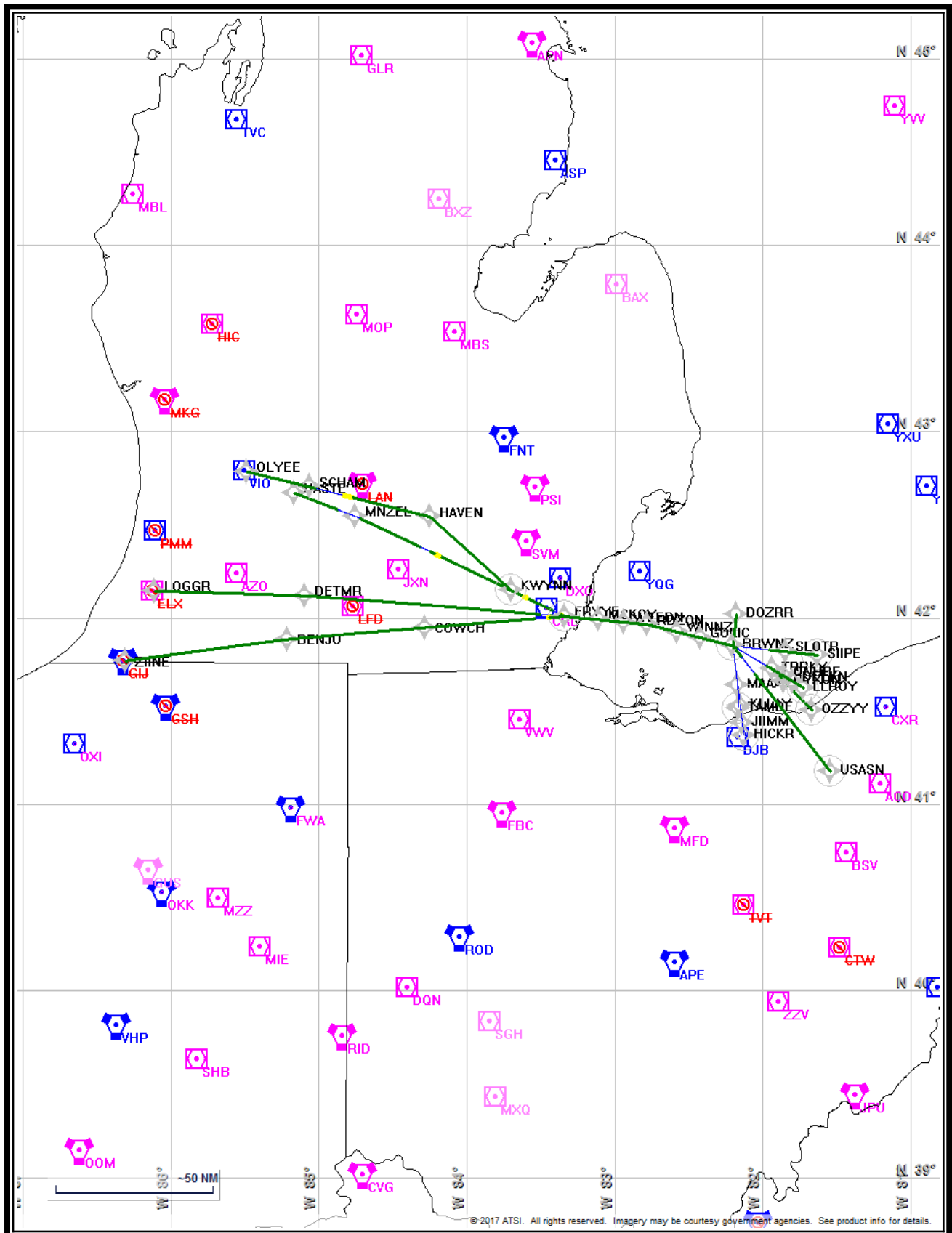


Comms



TERPS

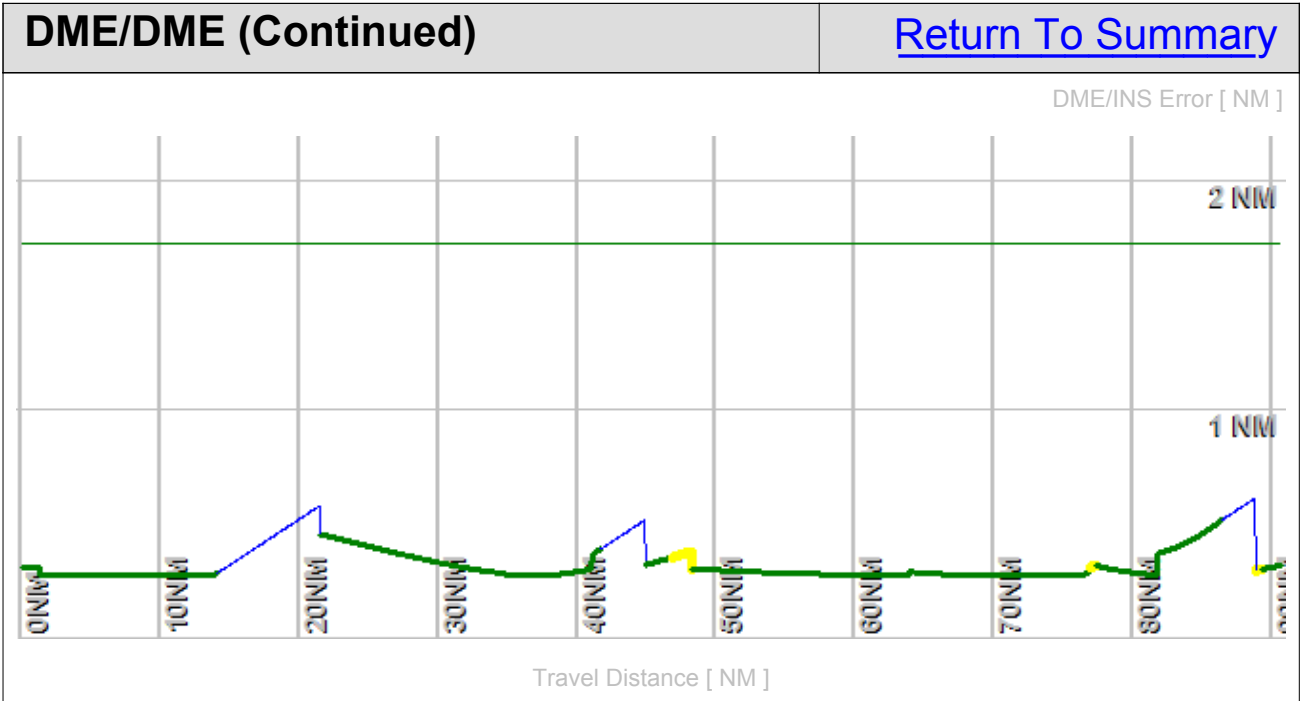




Flight Plan					Return To Summary		
Name	Type	Lat/Lon	Alt [ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
HASTE	WP	N 42° 40' 15.43" W 85° 10' 2.50"	10000.0	Step	280.0	Fly By	TF
MNZEL	WP	N 42° 32' 40.02" W 84° 45' 5.69"	10000.0	Step	280.0	Fly By	TF
KWYNN	WP	N 42° 8' 49.08" W 83° 41' 52.01"	10000.0	Step	280.0	Fly By	TF
FRYYE	WP	N 42° 0' 27.89" W 83° 20' 11.22"	10000.0	Step	280.0	Fly Over	TF

Flyability		Return To Summary
Settings:	Flight Type: Arrival	
	Selected Airport: KCLE	
	Aircraft Category: Cat D	
	Climb Gradient: <i>None assigned</i>	
	Ground Speeds:	
	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: <i>None assigned</i>	
	Descent During a Turn: Allowed	
	VNAV Mode: Flight Plan	
Entire track is fly-able		

DME/DME	Return To Summary
Settings:	<p> RNP: 2.0 Flight Mode: Manual Line of Sight (DTED Level 0 Max): Evaluated DME Restrictions: Evaluated Inertial Drift: Enabled Initial Drift: 0.558 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, Standalone, and User DME Include Angles: 30 to 150 Critical DMEs: Allowed DoD Facilities: Not included Foreign Facilities: Not included Low DMEs: Included Terminal DMEs: Included Flight Check DMEs: Selected Higher Altitudes: Evaluated Near Maximum Altitude: Evaluated </p>
<p> Total Number of DMEs Used: 7 Maximum DME Error: 0.616 NM. No Critical DMEs were found. Available DMEs: CRL, DXO, AZO, VIO, JXN, SVM, PSI, MFD Disabled DMEs: LAN, LFD, ELX, GIJ, PMM, MKG, HIC, PLN, MNM, CTW, JFN, TVT, BDF, DNV, EON, PLL, PNT, RBS, SAM, UIN, VLA, BVT, GSH, ECB, EWO, FLM, YRK, BRD, DWN, HML, ODI, RST, CMK, DNY, GFL, GGT, HNK, HUO, LGA, HTO, MSS, PWL, RKA, SLK, UCA, ULW, CRI, AGC, BFD, CIP, ETG, FJC, FQM, IHD, LVZ, MIP, MXE, REC, SFK, SLT, TDT, THS, AUW, JVL, LNR, STE, CKB, ESL, HNN, and GRV Foreign DMEs within range: YQG, YQO, YVV, YWT, YXU, YYZ, YEE Co-Frequency Interference: 108.2(FBC) </p>	



DME/DME (Continued)						Return To Summary			
DMEs Used									
#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	CRL	N 42° 2' 52.90" W 83° 27' 27.30" 03 W	H + ESV	User	NO	0.689	Enabled	38.2%	38.2%
2	AZO	N 42° 14' 13.14" W 85° 33' 11.35" 01 W	L	Database	NO	1.418	Enabled	15.4%	15.4%
3	JXN	N 42° 15' 33.27" W 84° 27' 30.77" 05 W	L	Database	NO	1.560	Enabled	45.8%	45.8%
4	DXO	N 42° 12' 47.29" W 83° 22' 0.00" 06 W	H + ESV	User	NO	0.852	Enabled	32.1%	32.1%
5	SVM	N 42° 24' 31.09" W 83° 35' 38.05" 03 W	L + ESV	User	NO	0.583	Enabled	21.9%	21.9%
6	PSI	N 42° 42' 3.09" W 83° 31' 57.98" 03 W	L + ESV	User	NO	0.616	Enabled	17.3%	17.3%
7	MFD	N 40° 52' 7.00" W 82° 35' 27.46" 03 W	L + ESV	User	NO	0.632	Enabled	0.0%	0.0%
	Total Coverage							85.4%	85.4%
Flight Check DME Selection									
Distance [NM]		Selected DMEs						Alternate	
0.0		CRL	AZO	VIO	DXO	JXN			
19.7		CRL	VIO	DXO	JXN				
29.8		CRL	PSI	SVM	DXO	JXN			
72.5		CRL	MFD	SVM	DXO	JXN			
Inertial Drift Segments									
#	Start Location			End Location			Length [NM]		
1	N 42° 34' 54.71" W 84° 52' 25.72"			N 42° 31' 58.14" W 84° 43' 10.65"			7.4		
VOR: LFD				Available from N 42° 34' 54.71" W 84° 52' 25.72" to N 42° 31' 58.14" W 84° 43' 10.65"					
VOR: AZO				Available from N 42° 34' 54.71" W 84° 52' 25.72" to N 42° 32' 44.58" W 84° 45' 20.52"					
VOR: LAN				Available from N 42° 34' 54.71" W 84° 52' 25.72" to N 42° 31' 58.14" W 84° 43' 10.65"					
VOR: JXN				Available from N 42° 34' 54.71" W 84° 52' 25.72" to N 42° 31' 58.14" W 84° 43' 10.65"					
VOR: VIO				Available from N 42° 34' 54.71" W 84° 52' 25.72" to N 42° 31' 58.14" W 84° 43' 10.65"					

DME/DME (Continued)			Return To Summary
<i>Inertial Drift Segments (Continued)</i>			
#	Start Location	End Location	Length [NM]
2	N 42° 22' 51.29" W 84° 18' 47.33"	N 42° 21' 25.23" W 84° 14' 58.79"	3.2
	VOR: LFD	Available from N 42° 22' 51.29" W 84° 18' 47.33" to N 42° 21' 25.23" W 84° 14' 58.79"	
	VOR: LAN	Available from N 42° 22' 51.29" W 84° 18' 47.33" to N 42° 21' 25.23" W 84° 14' 58.79"	
	VOR: JXN	Available from N 42° 22' 51.29" W 84° 18' 47.33" to N 42° 21' 25.23" W 84° 14' 58.79"	
	VOR: YIP	Available from N 42° 22' 51.29" W 84° 18' 47.33" to N 42° 21' 25.23" W 84° 14' 58.79"	
	VOR: SVM	Available from N 42° 22' 51.29" W 84° 18' 47.33" to N 42° 21' 25.23" W 84° 14' 58.79"	
	VOR: PSI	Available from N 42° 22' 51.29" W 84° 18' 47.33" to N 42° 21' 25.23" W 84° 14' 58.79"	
	VOR: CRL	Available from N 42° 21' 28.25" W 84° 15' 6.81" to N 42° 21' 25.23" W 84° 14' 58.79"	

DME/DME (Continued)			Return To Summary
<i>Inertial Drift Segments (Continued)</i>			
#	Start Location	End Location	Length [NM]
3	N 42° 2' 27.08" W 83° 25' 18.98"	N 42° 1' 19.48" W 83° 22' 24.30"	2.4
	VOR: BQE	Available from N 42° 2' 27.08" W 83° 25' 18.98" to N 42° 1' 19.48" W 83° 22' 24.30"	
	VOR: DET	Available from N 42° 2' 27.08" W 83° 25' 18.98" to N 42° 1' 19.48" W 83° 22' 24.30"	
	VOR: VWV	Available from N 42° 2' 27.08" W 83° 25' 18.98" to N 42° 1' 19.48" W 83° 22' 24.30"	
	VOR: CRL	Available from N 42° 2' 27.08" W 83° 25' 18.98" to N 42° 1' 19.48" W 83° 22' 24.30"	
	VOR: YQG	Available from N 42° 2' 27.08" W 83° 25' 18.98" to N 42° 1' 19.48" W 83° 22' 24.30"	
	VOR: DTW	Available from N 42° 2' 27.08" W 83° 25' 18.98" to N 42° 1' 19.48" W 83° 22' 24.30"	
	VOR: YIP	Available from N 42° 2' 27.08" W 83° 25' 18.98" to N 42° 1' 19.48" W 83° 22' 24.30"	
	VOR: SVM	Available from N 42° 2' 27.08" W 83° 25' 18.98" to N 42° 1' 19.48" W 83° 22' 24.30"	
	VOR: PSI	Available from N 42° 2' 27.08" W 83° 25' 18.98" to N 42° 2' 22.47" W 83° 25' 7.07"	
	VOR: DXO	Available from N 42° 2' 27.08" W 83° 25' 18.98" to N 42° 1' 19.48" W 83° 22' 24.30"	

Available DMEs by Waypoints		Return To Summary
Waypoint Before	Waypoint After	DME List
HASTE	MNZEL	DXO, CRL, AZO, JXN, and VIO
MNZEL	KWYNN	DXO, SVM, PSI, CRL, JXN, and VIO
KWYNN	FRYYE	DXO, MFD, SVM, CRL, and JXN

User Data					Return To Summary		
User Data Files							
#	File Name						
1	BRWNZ1_New.udt						
User DMEs							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	LAN	N 42° 43' 2.62" W 84° 41' 51.03" 05 W	L	887.4	110.80	LAN	Disabled
2	LFD	N 42° 3' 44.96" W 84° 45' 54.48" 05 W	L	1040.0	111.20	LFD	Disabled
Restriction:		Bearing [True]: 105.0° to 160.0° Bearing [Mag]: 110.0° to 165.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
3	ELX	N 42° 8' 39.88" W 86° 7' 21.74" 00 E	L	793.7	116.60	ELX	Disabled
4	GIJ	N 41° 46' 7.00" W 86° 19' 6.42" 00 E	H	802.7	115.40	GIJ	Disabled
Restriction:		Bearing [True]: 360.0° to 360.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3500.0 ft		
5	PMM	N 42° 27' 57.73" W 86° 6' 17.32" 00 E	H	639.9	112.10	PMM	Disabled
Restriction:		Bearing [True]: 360.0° to 360.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
6	MKG	N 43° 10' 9.31" W 86° 2' 21.76" 01 W	L	659.1	115.20	MKG	Disabled
Restriction:		Bearing [True]: 54.0° to 89.0° Bearing [Mag]: 55.0° to 90.0°			Distance: Beyond 10.0 NM Altitude: Below 4000.0 ft		
7	HIC	N 43° 34' 29.47" W 85° 42' 58.18" 01 W	L	920.0	117.60	HIC	Disabled
Restriction:		Bearing [True]: 19.0° to 89.0° Bearing [Mag]: 20.0° to 90.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 269.0° to 289.0° Bearing [Mag]: 270.0° to 290.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
8	PLN	N 45° 37' 50.33" W 84° 39' 50.79" 06 W	L	835.3	111.80	PLN	Disabled
9	MNM	N 45° 10' 48.58" W 87° 38' 49.83" 00 E	L	650.1	109.60	MNM	Disabled
10	CTW	N 40° 13' 45.15" W 81° 28' 35.32" 07 W	L	1180.0	111.80	CTW	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
11	JFN	N 41° 45' 36.42" W 80° 44' 53.20" 05 W	L	896.3	115.20	JFN	Disabled
Restriction:		Bearing [True]: 226.0° to 255.0° Bearing [Mag]: 231.0° to 260.0°			Distance: Beyond 30.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 121.0° to 185.0° Bearing [Mag]: 126.0° to 190.0°			Distance: Beyond 20.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 186.0° to 225.0° Bearing [Mag]: 191.0° to 230.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 80.0° to 120.0° Bearing [Mag]: 85.0° to 125.0°			Distance: Beyond 35.0 NM Altitude: Below 3500.0 ft		
12	TVT	N 40° 27' 29.04" W 82° 7' 36.52" 03 W	L	1330.4	116.50	TVT	Disabled
13	BDF	N 41° 9' 35.03" W 89° 35' 16.34" 00 E	H	810.0	114.70	BDF	Disabled
14	DNV	N 40° 17' 37.56" W 87° 33' 26.14" 02 E	L	698.8	111.00	DNV	Disabled
15	EON	N 41° 16' 10.68" W 87° 47' 27.79" 02 E	L	688.7	113.20	EON	Disabled
16	PLL	N 41° 57' 56.31" W 89° 31' 27.19" 03 E	L	840.0	111.20	PLL	Disabled
17	PNT	N 40° 49' 16.32" W 88° 44' 0.63" 03 E	L	680.0	109.60	PNT	Disabled
18	RBS	N 40° 34' 54.13" W 88° 9' 51.36" 02 E	L	780.0	116.80	RBS	Disabled
19	SAM	N 38° 29' 6.68" W 88° 5' 8.90" 03 E	L	540.0	116.60	SAM	Disabled
20	UIN	N 39° 50' 52.35" W 91° 16' 44.13" 05 E	H	715.1	113.60	UIN	Disabled
21	VLA	N 39° 5' 37.82" W 89° 9' 44.08" 04 E	L	605.5	114.30	VLA	Disabled
22	BVT	N 40° 33' 22.22" W 87° 4' 9.75" 01 E	H	752.2	115.10	BVT	Disabled
Restriction:		Bearing [True]: 299.0° to 45.0° Bearing [Mag]: 298.0° to 44.0°			Distance: Beyond 0.0 NM Altitude: Below 2800.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
23	GSH	N 41° 31' 30.56" W 86° 1' 40.63" 00 E	H	851.8	113.70	GSH	Disabled
Restriction:		Bearing [True]: 71.0° to 129.0° Bearing [Mag]: 71.0° to 129.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
24	ECB	N 38° 9' 30.11" W 82° 54' 36.20" 02 W	L	1070.0	110.40	ECB	Disabled
25	EWO	N 37° 37' 54.52" W 85° 40' 33.16" 01 E	L	960.0	110.80	EWO	Disabled
26	FLM	N 38° 38' 57.99" W 84° 18' 38.17" 04 W	H	808.5	117.00	FLM	Disabled
27	YRK	N 38° 38' 38.88" W 82° 58' 42.02" 05 W	L	1040.0	112.80	YRK	Disabled
28	BRD	N 46° 20' 53.81" W 94° 1' 33.54" 03 E	H	1253.9	116.90	BRD	Disabled
Restriction:		Bearing [True]: 3.0° to 3.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 29.0 NM Altitude: Below 3000.0 ft		
29	DWN	N 45° 5' 14.87" W 94° 27' 13.86" 07 E	L	1130.0	109.00	DWN	Disabled
30	HML	N 48° 52' 9.07" W 97° 7' 4.45" 09 E	H	797.4	112.40	HML	Disabled
Restriction:		Bearing [True]: 84.0° to 94.0° Bearing [Mag]: 75.0° to 85.0°			Distance: Beyond 0.0 NM Altitude: Below 10000.0 ft		
Restriction:		Bearing [True]: 95.0° to 263.0° Bearing [Mag]: 86.0° to 254.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 264.0° to 279.0° Bearing [Mag]: 255.0° to 270.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 280.0° to 83.0° Bearing [Mag]: 271.0° to 74.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
31	ODI	N 43° 54' 44.38" W 91° 28' 3.06" 01 E	H	1282.2	117.90	ODI	Disabled
32	RST	N 43° 46' 58.45" W 92° 35' 49.06" 05 E	L	1393.0	112.00	RST	Disabled
33	CMK	N 41° 16' 48.32" W 73° 34' 52.77" 12 W	L	693.8	116.60	CMK	Disabled
34	DNY	N 42° 10' 41.81" W 74° 57' 24.99" 11 W	L	2560.0	112.10	DNY	Disabled

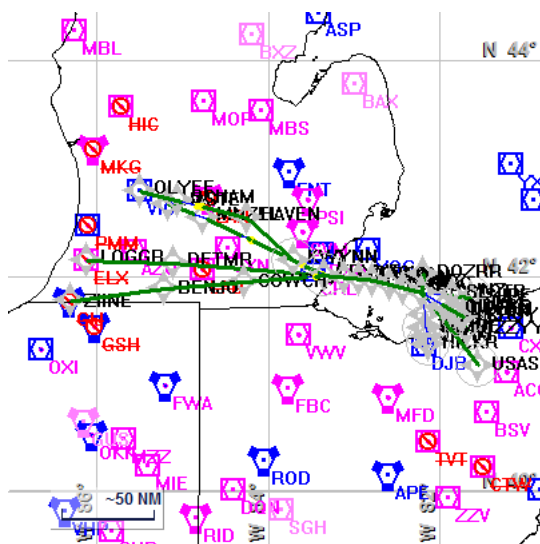
User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
35	GFL	N 43° 20' 30.09" W 73° 36' 42.32" 14 W	L	323.7	110.20	GFL	Disabled
Restriction:		Bearing [True]: 346.0° to 346.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 0.0 NM Altitude: Below 9000.0 ft		
36	GGT	N 42° 47' 20.24" W 75° 49' 36.29" 11 W	L	2040.0	117.80	GGT	Disabled
37	HNK	N 42° 3' 47.00" W 75° 18' 58.62" 11 W	H	2070.0	116.80	HNK	Disabled
38	HUO	N 41° 24' 34.87" W 74° 35' 29.74" 11 W	H	1300.3	116.10	HUO	Disabled
39	LGA	N 40° 47' 1.38" W 73° 52' 6.96" 12 W	L	8.9	113.10	LGA	Disabled
Restriction:		Bearing [True]: 233.0° to 268.0° Bearing [Mag]: 245.0° to 280.0°			Distance: Beyond 25.0 NM Altitude: Below 6000.0 ft		
40	HTO	N 40° 55' 8.38" W 72° 19' 0.14" 13 W	H	22.0	113.60	HTO	Disabled
Restriction:		Bearing [True]: 267.0° to 312.0° Bearing [Mag]: 280.0° to 325.0°			Distance: Beyond 35.0 NM Altitude: Below 1700.0 ft		
Restriction:		Bearing [True]: 312.0° to 342.0° Bearing [Mag]: 325.0° to 355.0°			Distance: Beyond 30.0 NM Altitude: Below 2000.0 ft		
41	MSS	N 44° 54' 51.92" W 74° 43' 21.78" 14 W	H	197.5	114.10	MSS	Disabled
42	PWL	N 41° 46' 11.18" W 73° 36' 1.99" 12 W	L	1250.0	114.30	PWL	Disabled
43	RKA	N 42° 27' 58.91" W 75° 14' 21.51" 11 W	L	2027.2	112.60	RKA	Disabled
44	SLK	N 44° 23' 4.41" W 74° 12' 16.21" 14 W	L	1646.8	109.20	SLK	Disabled
45	UCA	N 43° 1' 35.45" W 75° 9' 52.28" 12 W	L	1420.0	111.20	UCA	Disabled
46	ULW	N 42° 5' 39.16" W 77° 1' 28.53" 12 W	L	1631.8	109.65	ULW	Disabled
47	CRI	N 40° 36' 44.90" W 73° 53' 40.00" 11 W	T	10.0	112.30	CRI	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
48	AGC	N 40° 16' 43.12" W 80° 2' 27.08" 09 W	L	1284.6	110.00	AGC	Disabled
49	BFD	N 41° 47' 10.99" W 78° 37' 9.65" 07 W	L	2110.6	116.60	BFD	Disabled
50	CIP	N 41° 8' 46.66" W 79° 27' 28.71" 06 W	L	1519.5	112.90	CIP	Disabled
51	ETG	N 41° 12' 53.82" W 78° 8' 33.92" 10 W	H	2250.0	116.00	ETG	Disabled
52	FJC	N 40° 43' 36.12" W 75° 27' 17.12" 10 W	L	680.6	117.50	FJC	Disabled
Restriction:		Bearing [True]: 290.0° to 50.0° Bearing [Mag]: 300.0° to 60.0°			Distance: Beyond 26.0 NM Altitude: Below 4500.0 ft		
Restriction:		Bearing [True]: 51.0° to 289.0° Bearing [Mag]: 61.0° to 299.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
53	FQM	N 41° 20' 18.81" W 76° 46' 29.52" 09 W	L	2098.0	114.40	FQM	Disabled
54	IHD	N 39° 58' 27.27" W 79° 21' 30.12" 06 W	L	2820.0	108.20	IHD	Disabled
55	LVZ	N 41° 16' 22.09" W 75° 41' 22.08" 10 W	L	2118.8	111.60	LVZ	Disabled
56	MIP	N 41° 1' 24.21" W 76° 39' 55.04" 09 W	L	1000.0	109.20	MIP	Disabled
57	MXE	N 39° 55' 5.00" W 75° 40' 14.91" 09 W	L	473.4	113.20	MXE	Disabled
58	REC	N 40° 32' 47.25" W 78° 44' 49.28" 09 W	L	2340.0	110.60	REC	Disabled
59	SFK	N 41° 41' 42.91" W 77° 25' 11.66" 08 W	L	1984.7	108.60	SFK	Disabled
60	SLT	N 41° 30' 45.93" W 77° 58' 12.39" 08 W	H	2310.0	113.90	SLT	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
61	TDT	N 41° 42' 46.91" W 79° 25' 2.17" 09 W	L	1710.0	117.60	TDT	Disabled
Restriction:		Bearing [True]: 32.0° to 42.0° Bearing [Mag]: 41.0° to 51.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
Restriction:		Bearing [True]: 296.0° to 331.0° Bearing [Mag]: 305.0° to 340.0°			Distance: Beyond 24.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 331.0° to 356.0° Bearing [Mag]: 340.0° to 5.0°			Distance: Beyond 24.0 NM Altitude: Below 5000.0 ft		
62	THS	N 39° 55' 59.62" W 77° 57' 3.40" 07 W	L	2338.0	115.00	THS	Disabled
63	AUW	N 44° 50' 48.40" W 89° 35' 11.68" 02 E	L	1204.7	111.60	AUW	Disabled
Restriction:		Bearing [True]: 322.0° to 302.0° Bearing [Mag]: 320.0° to 300.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 302.0° to 322.0° Bearing [Mag]: 300.0° to 320.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
64	JVL	N 42° 33' 28.83" W 89° 6' 18.93" 03 E	L	931.4	114.30	JVL	Disabled
65	LNR	N 43° 17' 39.85" W 90° 7' 59.33" 00 E	L	1184.6	112.80	LNR	Disabled
66	STE	N 44° 32' 35.69" W 89° 31' 50.02" 01 W	L	1110.0	110.60	STE	Disabled
Restriction:		Bearing [True]: 359.0° to 359.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
67	CKB	N 39° 15' 11.57" W 80° 16' 4.32" 04 W	L	1425.7	112.60	CKB	Disabled
68	ESL	N 39° 13' 31.77" W 78° 59' 22.20" 06 W	L	2590.0	110.80	ESL	Disabled
69	HNN	N 38° 45' 14.85" W 82° 1' 34.20" 03 W	H	880.0	115.90	HNN	Disabled
70	GRV	N 39° 38' 6.11" W 79° 3' 1.90" 06 W	L	2640.0	112.30	GRV	Disabled
Restriction:		Bearing [True]: 301.0° to 64.0° Bearing [Mag]: 307.0° to 70.0°			Distance: Beyond 20.0 NM Altitude: Below 5000.0 ft		
Restriction:		Bearing [True]: 65.0° to 300.0° Bearing [Mag]: 71.0° to 306.0°			Distance: Beyond 20.0 NM Altitude: Below 6000.0 ft		
Restriction:		Bearing [True]: 102.0° to 107.0° Bearing [Mag]: 108.0° to 113.0°			Distance: Beyond 38.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 319.0° to 339.0° Bearing [Mag]: 325.0° to 345.0°			Distance: Beyond 35.0 NM Altitude: Below 99999.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
71	CRL	N 42° 2' 52.90" W 83° 27' 27.30" 03 W	H	629.0	115.70	CRL	Used
		ESV:	Bearing [True]: 259.0° to 268.0° Bearing [Mag]: 262.0° to 271.0°		Arc Distance: Out to 103.0 NM Altitude: 10000.0 to 16000.0 ft		
		ESV:	Bearing [True]: 293.0° to 359.0° Bearing [Mag]: 296.0° to 2.0°		Arc Distance: Out to 102.0 NM Altitude: 8500.0 to 16000.0 ft		
		ESV:	Bearing [True]: 65.0° to 98.0° Bearing [Mag]: 68.0° to 101.0°		Arc Distance: Out to 64.0 NM Altitude: 4000.0 to 16000.0 ft		
72	FWA	N 40° 58' 44.63" W 85° 11' 17.01" 06 W	H	792.6	117.80	FWA	Not Used
		Restriction:	Bearing [True]: 55.0° to 65.0° Bearing [Mag]: 61.0° to 71.0°		Distance: Beyond 0.0 NM Altitude: Below 7000.0 ft		
		Restriction:	Bearing [True]: 354.0° to 354.0° Bearing [Mag]: 360.0° to 360.0°		Distance: Beyond 33.0 NM Altitude: Below 2800.0 ft		
		Restriction:	Bearing [True]: 170.0° to 210.0° Bearing [Mag]: 176.0° to 216.0°		Distance: Beyond 22.0 NM Altitude: Below 4000.0 ft		
		Restriction:	Bearing [True]: 260.0° to 290.0° Bearing [Mag]: 266.0° to 296.0°		Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
		ESV:	Bearing [True]: 306.0° to 359.0° Bearing [Mag]: 312.0° to 5.0°		Arc Distance: Out to 101.0 NM Altitude: 10000.0 to 20000.0 ft		
73	VWV	N 41° 27' 5.35" W 83° 38' 19.30" 02 W	L	664.2	113.10	VWV	Not Used
		ESV:	Bearing [True]: 283.0° to 324.0° Bearing [Mag]: 285.0° to 326.0°		Arc Distance: Out to 85.0 NM Altitude: 10000.0 to 20000.0 ft		
		ESV:	Bearing [True]: 50.0° to 71.0° Bearing [Mag]: 52.0° to 73.0°		Arc Distance: Out to 78.0 NM Altitude: 6700.0 to 20000.0 ft		
74	PSI	N 42° 42' 3.09" W 83° 31' 57.98" 03 W	L	1149.3	111.00	PSI	Used
		Restriction:	Bearing [True]: 167.0° to 207.0° Bearing [Mag]: 170.0° to 210.0°		Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
		ESV:	Bearing [True]: 125.0° to 167.0° Bearing [Mag]: 128.0° to 170.0°		Arc Distance: Out to 80.0 NM Altitude: 7400.0 to 11000.0 ft		
75	SVM	N 42° 24' 31.09" W 83° 35' 38.05" 03 W	L	955.8	114.30	SVM	Used
		ESV:	Bearing [True]: 223.0° to 252.0° Bearing [Mag]: 226.0° to 255.0°		Arc Distance: Out to 81.0 NM Altitude: 10000.0 to 17000.0 ft		
		ESV:	Bearing [True]: 89.0° to 117.0° Bearing [Mag]: 92.0° to 120.0°		Arc Distance: Out to 73.0 NM Altitude: 6200.0 to 20000.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
76	MFD	N 40° 52' 7.00" W 82° 35' 27.46" 03 W	L	1222.0	108.80	MFD	Used
Restriction:		Bearing [True]: 72.0° to 92.0° Bearing [Mag]: 75.0° to 95.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 148.0° to 211.0° Bearing [Mag]: 151.0° to 214.0°			Distance: Beyond 30.0 NM Altitude: Below 99999.0 ft		
ESV:		Bearing [True]: 325.0° to 43.0° Bearing [Mag]: 328.0° to 46.0°			Arc Distance: Out to 80.0 NM Altitude: 6400.0 to 20000.0 ft		
77	ACO	N 41° 6' 28.45" W 81° 12' 5.49" 04 W	L	1198.4	114.40	ACO	Not Used
ESV:		Bearing [True]: 303.0° to 321.0° Bearing [Mag]: 307.0° to 325.0°			Arc Distance: Out to 82.0 NM Altitude: 7700.0 to 11000.0 ft		
78	DXO	N 42° 12' 47.29" W 83° 22' 0.00" 06 W	H	637.7	113.40	DXO	Used
Restriction:		Bearing [True]: 354.0° to 354.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 30.0 NM Altitude: Below 2900.0 ft		
ESV:		Bearing [True]: 279.0° to 333.0° Bearing [Mag]: 285.0° to 339.0°			Arc Distance: Out to 106.0 NM Altitude: 9700.0 to 20000.0 ft		
79	OKK	N 40° 31' 40.01" W 86° 3' 28.79" 05 W	H	825.8	113.50	OKK	Not Used
Restriction:		Bearing [True]: 171.0° to 229.0° Bearing [Mag]: 176.0° to 234.0°			Distance: Beyond 35.0 NM Altitude: Below 2400.0 ft		
ESV:		Bearing [True]: 356.0° to 50.0° Bearing [Mag]: 1.0° to 55.0°			Arc Distance: Out to 101.0 NM Altitude: 9900.0 to 20000.0 ft		
80	OBK	N 42° 13' 16.96" W 87° 57' 5.83" 02 W	H	707.0	113.00	OBK	Not Used
ESV:		Bearing [True]: 87.0° to 97.0° Bearing [Mag]: 89.0° to 99.0°			Arc Distance: Out to 103.0 NM Altitude: 10000.0 to 20000.0 ft		
81	OXI	N 41° 19' 19.35" W 86° 38' 57.45" 00 E	H	690.0	115.60	OXI	Not Used
ESV:		Bearing [True]: 360.0° to 138.0° Bearing [Mag]: 360.0° to 138.0°			Arc Distance: Out to 106.0 NM Altitude: 10000.0 to 20000.0 ft		
82	CXR	N 41° 31' 0.94" W 81° 9' 47.47" 05 W	H	1317.2	112.70	CXR	Not Used
ESV:		Bearing [True]: 298.0° to 343.0° Bearing [Mag]: 303.0° to 348.0°			Arc Distance: Out to 73.0 NM Altitude: 6200.0 to 16000.0 ft		



Name: Paul Jackson
Project Name: KCLE BRWNZ STAR
Output File: KCLE BRWNZ1 STAR
 LOGGR FRYYE
 20171030_1021
Procedure Name: BRWNZ1
Software: RNAV-Pro™
Version: 2.39
Date/Time: 10/30/2017 10:26:55 AM
Input File: KCLE BRWNZ1 STAR
 LOGGR FRYYE
 20170828_1009.txt
Databases: AIRNAV Date: 9/17/2017
 CIFP Date: 7/20/2017
 DTED® (MAX) Date: 2002

Results Summary:

Flyability



DME/DME



No Critical DMEs Exist

Radars

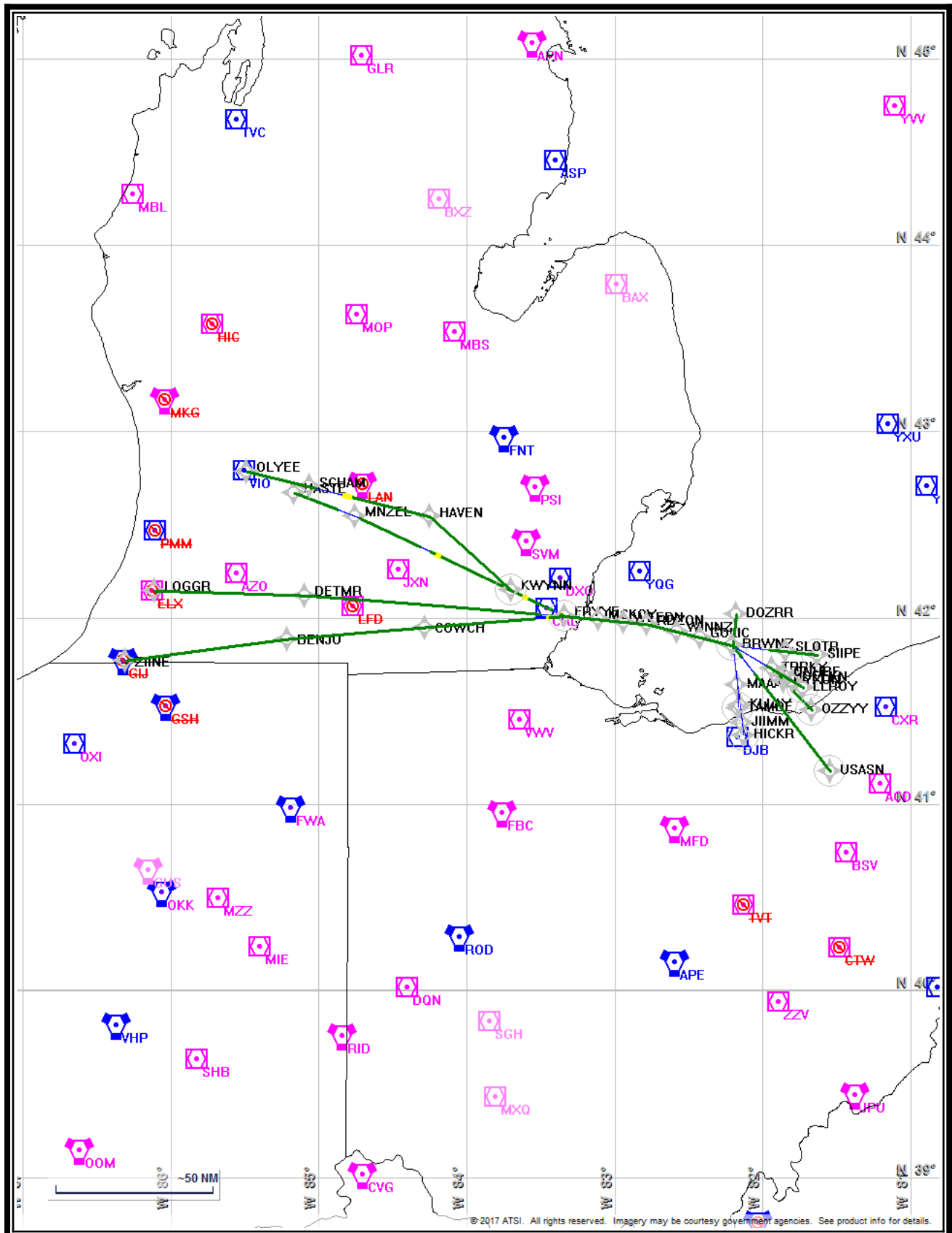


Comms



TERPS

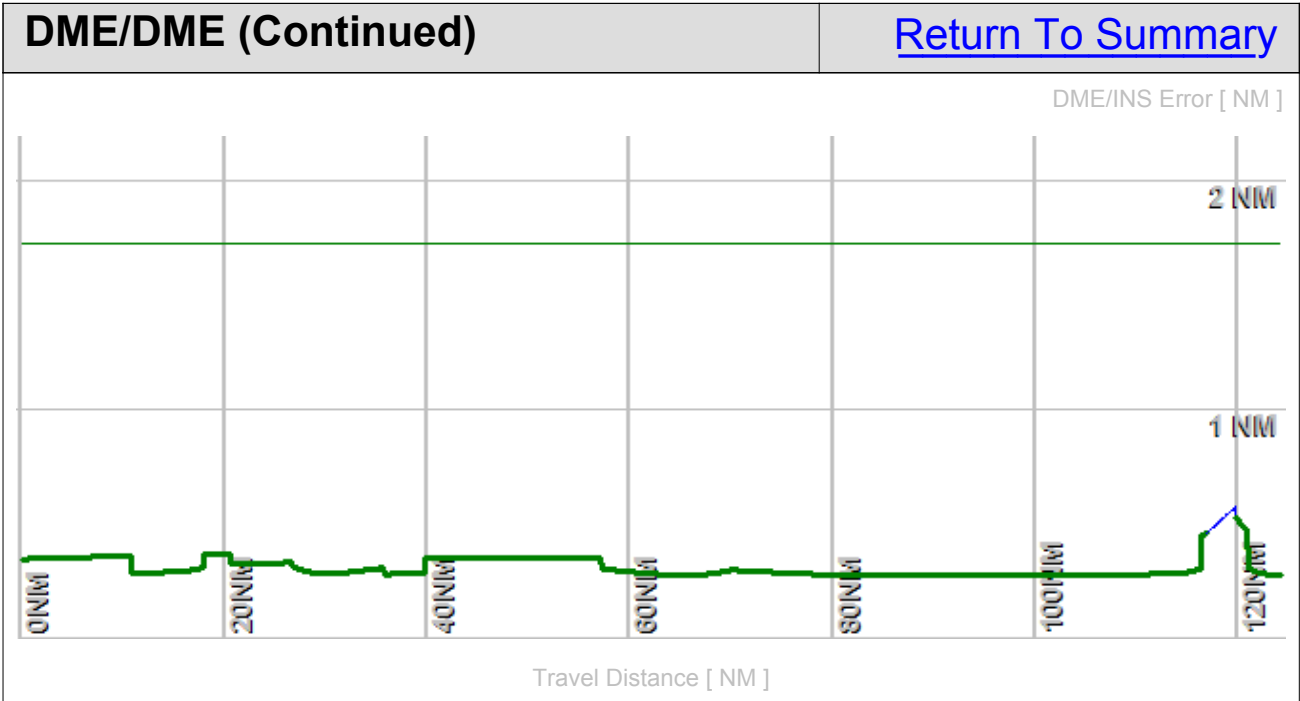




Flight Plan					Return To Summary		
Name	Type	Lat/Lon	Alt [ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
LOGGR	WP	N 42° 8' 39.57" W 86° 6' 41.42"	10000.0	Step	280.0	Fly By	TF
DETMR	WP	N 42° 7' 8.54" W 85° 5' 38.99"	10000.0	Step	280.0	Fly By	TF
FRYYE	WP	N 42° 0' 27.89" W 83° 20' 11.22"	10000.0	Step	280.0	Fly Over	TF

Flyability		Return To Summary
Settings:	Flight Type: Arrival Selected Airport: KCLE Aircraft Category: Cat D Climb Gradient: <i>None assigned</i> Ground Speeds: 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: <i>None assigned</i> Descent During a Turn: Allowed VNAV Mode: Flight Plan	
	Entire track is fly-able	

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: 0.558 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, Standalone, and User DME Include Angles: 30 to 150 Critical DMEs: Allowed DoD Facilities: Not included Foreign Facilities: Not included Low DMEs: Included Terminal DMEs: Included Flight Check DMEs: Selected Higher Altitudes: Evaluated Near Maximum Altitude: Evaluated
Total Number of DMEs Used: 10 Maximum DME Error: 0.577 NM. No Critical DMEs were found. Available DMEs: FWA, OKK, OBK, OXI, AZO, JXN, VVW, SVM, CRL, DXO, MFD Disabled DMEs: LAN, LFD, ELX, GIJ, PMM, MKG, HIC, PLN, MNM, CTW, JFN, TVT, BDF, DNV, EON, PLL, PNT, RBS, SAM, UIN, VLA, BVT, GSH, ECB, EWO, FLM, YRK, BRD, DWN, HML, ODI, RST, CMK, DNY, GFL, GGT, HNK, HUO, LGA, HTO, MSS, PWL, RKA, SLK, UCA, ULW, CRI, AGC, BFD, CIP, ETG, FJC, FQM, IHD, LVZ, MIP, MXE, REC, SFK, SLT, TDT, THS, AUW, JVL, LNR, STE, CKB, ESL, HNN, and GRV Foreign DMEs within range: YQG, YQO, YXU, YWT, YVW, YYZ, YEE Co-Frequency Interference: 108.2(FBC)	



DME/DME (Continued)						Return To Summary			
DMEs Used									
#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	OKK	N 40° 31' 40.01" W 86° 3' 28.79" 05 W	H + ESV	User	NO	0.577	Enabled	8.7%	8.7%
2	OBK	N 42° 13' 16.96" W 87° 57' 5.83" 02 W	H + ESV	User	NO	0.577	Enabled	10.8%	10.8%
3	FWA	N 40° 58' 44.63" W 85° 11' 17.01" 06 W	H + ESV	User	NO	0.640	Enabled	16.0%	16.0%
4	AZO	N 42° 14' 13.14" W 85° 33' 11.35" 01 W	L	Database	NO	0.577	Enabled	13.1%	13.1%
5	OXI	N 41° 19' 19.35" W 86° 38' 57.45" 00 E	H + ESV	User	NO	0.907	Enabled	26.3%	26.3%
6	JXN	N 42° 15' 33.27" W 84° 27' 30.77" 05 W	L	Database	NO	0.577	Enabled	36.1%	36.1%
7	VWV	N 41° 27' 5.35" W 83° 38' 19.30" 02 W	L + ESV	User	NO	0.680	Enabled	39.1%	39.1%
8	SVM	N 42° 24' 31.09" W 83° 35' 38.05" 03 W	L + ESV	User	NO	0.597	Enabled	33.5%	33.5%
9	CRL	N 42° 2' 52.90" W 83° 27' 27.30" 03 W	H + ESV	User	NO	0.577	Enabled	11.4%	11.4%
10	DXO	N 42° 12' 47.29" W 83° 22' 0.00" 06 W	H + ESV	User	NO	0.529	Enabled	0.4%	0.4%
	Total Coverage							97.6%	97.6%
Flight Check DME Selection									
Distance [NM]		Selected DMEs						Alternate	
0.0		OBK	OKK	AZO	FWA	OXI			
35.2		VWV	JXN	AZO	FWA	OXI			
45.3		VWV	JXN	AZO	OXI				
66.7		VWV	JXN	SVM	OXI				
76.8		VWV	JXN	SVM	CRL	DXO			
110.3		VWV	MFD	SVM	CRL	DXO			
Inertial Drift Segments									
#	Start Location			End Location			Length [NM]		

Available DMEs by Waypoints		Return To Summary
Waypoint Before	Waypoint After	DME List
LOGGR	DETMR	OXI, OBK, OKK, VWV, FWA, AZO, and JXN
DETMR	FRYYE	OXI, DXO, MFD, SVM, VWV, CRL, AZO, and JXN

User Data					Return To Summary		
User Data Files							
#	File Name						
1	BRWNZ1_New.udt						
User DMEs							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	LAN	N 42° 43' 2.62" W 84° 41' 51.03" 05 W	L	887.4	110.80	LAN	Disabled
2	LFD	N 42° 3' 44.96" W 84° 45' 54.48" 05 W	L	1040.0	111.20	LFD	Disabled
Restriction:		Bearing [True]: 105.0° to 160.0° Bearing [Mag]: 110.0° to 165.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
3	ELX	N 42° 8' 39.88" W 86° 7' 21.74" 00 E	L	793.7	116.60	ELX	Disabled
4	GIJ	N 41° 46' 7.00" W 86° 19' 6.42" 00 E	H	802.7	115.40	GIJ	Disabled
Restriction:		Bearing [True]: 360.0° to 360.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3500.0 ft		
5	PMM	N 42° 27' 57.73" W 86° 6' 17.32" 00 E	H	639.9	112.10	PMM	Disabled
Restriction:		Bearing [True]: 360.0° to 360.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
6	MKG	N 43° 10' 9.31" W 86° 2' 21.76" 01 W	L	659.1	115.20	MKG	Disabled
Restriction:		Bearing [True]: 54.0° to 89.0° Bearing [Mag]: 55.0° to 90.0°			Distance: Beyond 10.0 NM Altitude: Below 4000.0 ft		
7	HIC	N 43° 34' 29.47" W 85° 42' 58.18" 01 W	L	920.0	117.60	HIC	Disabled
Restriction:		Bearing [True]: 19.0° to 89.0° Bearing [Mag]: 20.0° to 90.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 269.0° to 289.0° Bearing [Mag]: 270.0° to 290.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
8	PLN	N 45° 37' 50.33" W 84° 39' 50.79" 06 W	L	835.3	111.80	PLN	Disabled
9	MNM	N 45° 10' 48.58" W 87° 38' 49.83" 00 E	L	650.1	109.60	MNM	Disabled
10	CTW	N 40° 13' 45.15" W 81° 28' 35.32" 07 W	L	1180.0	111.80	CTW	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
11	JFN	N 41° 45' 36.42" W 80° 44' 53.20" 05 W	L	896.3	115.20	JFN	Disabled
Restriction:		Bearing [True]: 226.0° to 255.0° Bearing [Mag]: 231.0° to 260.0°			Distance: Beyond 30.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 121.0° to 185.0° Bearing [Mag]: 126.0° to 190.0°			Distance: Beyond 20.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 186.0° to 225.0° Bearing [Mag]: 191.0° to 230.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 80.0° to 120.0° Bearing [Mag]: 85.0° to 125.0°			Distance: Beyond 35.0 NM Altitude: Below 3500.0 ft		
12	TVT	N 40° 27' 29.04" W 82° 7' 36.52" 03 W	L	1330.4	116.50	TVT	Disabled
13	BDF	N 41° 9' 35.03" W 89° 35' 16.34" 00 E	H	810.0	114.70	BDF	Disabled
14	DNV	N 40° 17' 37.56" W 87° 33' 26.14" 02 E	L	698.8	111.00	DNV	Disabled
15	EON	N 41° 16' 10.68" W 87° 47' 27.79" 02 E	L	688.7	113.20	EON	Disabled
16	PLL	N 41° 57' 56.31" W 89° 31' 27.19" 03 E	L	840.0	111.20	PLL	Disabled
17	PNT	N 40° 49' 16.32" W 88° 44' 0.63" 03 E	L	680.0	109.60	PNT	Disabled
18	RBS	N 40° 34' 54.13" W 88° 9' 51.36" 02 E	L	780.0	116.80	RBS	Disabled
19	SAM	N 38° 29' 6.68" W 88° 5' 8.90" 03 E	L	540.0	116.60	SAM	Disabled
20	UIN	N 39° 50' 52.35" W 91° 16' 44.13" 05 E	H	715.1	113.60	UIN	Disabled
21	VLA	N 39° 5' 37.82" W 89° 9' 44.08" 04 E	L	605.5	114.30	VLA	Disabled
22	BVT	N 40° 33' 22.22" W 87° 4' 9.75" 01 E	H	752.2	115.10	BVT	Disabled
Restriction:		Bearing [True]: 299.0° to 45.0° Bearing [Mag]: 298.0° to 44.0°			Distance: Beyond 0.0 NM Altitude: Below 2800.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
23	GSH	N 41° 31' 30.56" W 86° 1' 40.63" 00 E	H	851.8	113.70	GSH	Disabled
Restriction:		Bearing [True]: 71.0° to 129.0° Bearing [Mag]: 71.0° to 129.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
24	ECB	N 38° 9' 30.11" W 82° 54' 36.20" 02 W	L	1070.0	110.40	ECB	Disabled
25	EWO	N 37° 37' 54.52" W 85° 40' 33.16" 01 E	L	960.0	110.80	EWO	Disabled
26	FLM	N 38° 38' 57.99" W 84° 18' 38.17" 04 W	H	808.5	117.00	FLM	Disabled
27	YRK	N 38° 38' 38.88" W 82° 58' 42.02" 05 W	L	1040.0	112.80	YRK	Disabled
28	BRD	N 46° 20' 53.81" W 94° 1' 33.54" 03 E	H	1253.9	116.90	BRD	Disabled
Restriction:		Bearing [True]: 3.0° to 3.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 29.0 NM Altitude: Below 3000.0 ft		
29	DWN	N 45° 5' 14.87" W 94° 27' 13.86" 07 E	L	1130.0	109.00	DWN	Disabled
30	HML	N 48° 52' 9.07" W 97° 7' 4.45" 09 E	H	797.4	112.40	HML	Disabled
Restriction:		Bearing [True]: 84.0° to 94.0° Bearing [Mag]: 75.0° to 85.0°			Distance: Beyond 0.0 NM Altitude: Below 10000.0 ft		
Restriction:		Bearing [True]: 95.0° to 263.0° Bearing [Mag]: 86.0° to 254.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 264.0° to 279.0° Bearing [Mag]: 255.0° to 270.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 280.0° to 83.0° Bearing [Mag]: 271.0° to 74.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
31	ODI	N 43° 54' 44.38" W 91° 28' 3.06" 01 E	H	1282.2	117.90	ODI	Disabled
32	RST	N 43° 46' 58.45" W 92° 35' 49.06" 05 E	L	1393.0	112.00	RST	Disabled
33	CMK	N 41° 16' 48.32" W 73° 34' 52.77" 12 W	L	693.8	116.60	CMK	Disabled
34	DNY	N 42° 10' 41.81" W 74° 57' 24.99" 11 W	L	2560.0	112.10	DNY	Disabled

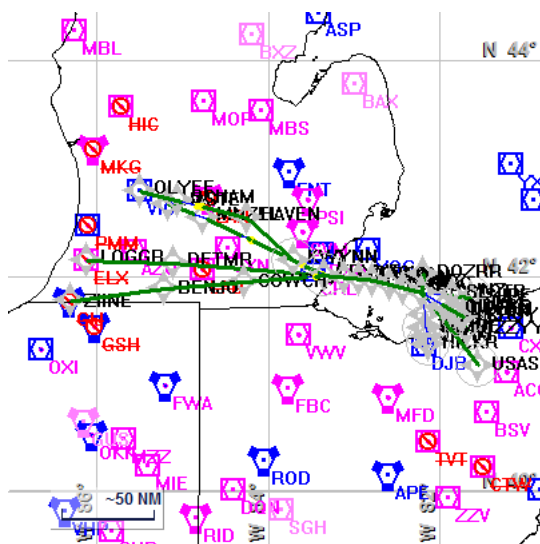
User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
35	GFL	N 43° 20' 30.09" W 73° 36' 42.32" 14 W	L	323.7	110.20	GFL	Disabled
Restriction:		Bearing [True]: 346.0° to 346.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 0.0 NM Altitude: Below 9000.0 ft		
36	GGT	N 42° 47' 20.24" W 75° 49' 36.29" 11 W	L	2040.0	117.80	GGT	Disabled
37	HNK	N 42° 3' 47.00" W 75° 18' 58.62" 11 W	H	2070.0	116.80	HNK	Disabled
38	HUO	N 41° 24' 34.87" W 74° 35' 29.74" 11 W	H	1300.3	116.10	HUO	Disabled
39	LGA	N 40° 47' 1.38" W 73° 52' 6.96" 12 W	L	8.9	113.10	LGA	Disabled
Restriction:		Bearing [True]: 233.0° to 268.0° Bearing [Mag]: 245.0° to 280.0°			Distance: Beyond 25.0 NM Altitude: Below 6000.0 ft		
40	HTO	N 40° 55' 8.38" W 72° 19' 0.14" 13 W	H	22.0	113.60	HTO	Disabled
Restriction:		Bearing [True]: 267.0° to 312.0° Bearing [Mag]: 280.0° to 325.0°			Distance: Beyond 35.0 NM Altitude: Below 1700.0 ft		
Restriction:		Bearing [True]: 312.0° to 342.0° Bearing [Mag]: 325.0° to 355.0°			Distance: Beyond 30.0 NM Altitude: Below 2000.0 ft		
41	MSS	N 44° 54' 51.92" W 74° 43' 21.78" 14 W	H	197.5	114.10	MSS	Disabled
42	PWL	N 41° 46' 11.18" W 73° 36' 1.99" 12 W	L	1250.0	114.30	PWL	Disabled
43	RKA	N 42° 27' 58.91" W 75° 14' 21.51" 11 W	L	2027.2	112.60	RKA	Disabled
44	SLK	N 44° 23' 4.41" W 74° 12' 16.21" 14 W	L	1646.8	109.20	SLK	Disabled
45	UCA	N 43° 1' 35.45" W 75° 9' 52.28" 12 W	L	1420.0	111.20	UCA	Disabled
46	ULW	N 42° 5' 39.16" W 77° 1' 28.53" 12 W	L	1631.8	109.65	ULW	Disabled
47	CRI	N 40° 36' 44.90" W 73° 53' 40.00" 11 W	T	10.0	112.30	CRI	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
48	AGC	N 40° 16' 43.12" W 80° 2' 27.08" 09 W	L	1284.6	110.00	AGC	Disabled
49	BFD	N 41° 47' 10.99" W 78° 37' 9.65" 07 W	L	2110.6	116.60	BFD	Disabled
50	CIP	N 41° 8' 46.66" W 79° 27' 28.71" 06 W	L	1519.5	112.90	CIP	Disabled
51	ETG	N 41° 12' 53.82" W 78° 8' 33.92" 10 W	H	2250.0	116.00	ETG	Disabled
52	FJC	N 40° 43' 36.12" W 75° 27' 17.12" 10 W	L	680.6	117.50	FJC	Disabled
Restriction:		Bearing [True]: 290.0° to 50.0° Bearing [Mag]: 300.0° to 60.0°			Distance: Beyond 26.0 NM Altitude: Below 4500.0 ft		
Restriction:		Bearing [True]: 51.0° to 289.0° Bearing [Mag]: 61.0° to 299.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
53	FQM	N 41° 20' 18.81" W 76° 46' 29.52" 09 W	L	2098.0	114.40	FQM	Disabled
54	IHD	N 39° 58' 27.27" W 79° 21' 30.12" 06 W	L	2820.0	108.20	IHD	Disabled
55	LVZ	N 41° 16' 22.09" W 75° 41' 22.08" 10 W	L	2118.8	111.60	LVZ	Disabled
56	MIP	N 41° 1' 24.21" W 76° 39' 55.04" 09 W	L	1000.0	109.20	MIP	Disabled
57	MXE	N 39° 55' 5.00" W 75° 40' 14.91" 09 W	L	473.4	113.20	MXE	Disabled
58	REC	N 40° 32' 47.25" W 78° 44' 49.28" 09 W	L	2340.0	110.60	REC	Disabled
59	SFK	N 41° 41' 42.91" W 77° 25' 11.66" 08 W	L	1984.7	108.60	SFK	Disabled
60	SLT	N 41° 30' 45.93" W 77° 58' 12.39" 08 W	H	2310.0	113.90	SLT	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
61	TDT	N 41° 42' 46.91" W 79° 25' 2.17" 09 W	L	1710.0	117.60	TDT	Disabled
Restriction:		Bearing [True]: 32.0° to 42.0° Bearing [Mag]: 41.0° to 51.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
Restriction:		Bearing [True]: 296.0° to 331.0° Bearing [Mag]: 305.0° to 340.0°			Distance: Beyond 24.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 331.0° to 356.0° Bearing [Mag]: 340.0° to 5.0°			Distance: Beyond 24.0 NM Altitude: Below 5000.0 ft		
62	THS	N 39° 55' 59.62" W 77° 57' 3.40" 07 W	L	2338.0	115.00	THS	Disabled
63	AUW	N 44° 50' 48.40" W 89° 35' 11.68" 02 E	L	1204.7	111.60	AUW	Disabled
Restriction:		Bearing [True]: 322.0° to 302.0° Bearing [Mag]: 320.0° to 300.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 302.0° to 322.0° Bearing [Mag]: 300.0° to 320.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
64	JVL	N 42° 33' 28.83" W 89° 6' 18.93" 03 E	L	931.4	114.30	JVL	Disabled
65	LNR	N 43° 17' 39.85" W 90° 7' 59.33" 00 E	L	1184.6	112.80	LNR	Disabled
66	STE	N 44° 32' 35.69" W 89° 31' 50.02" 01 W	L	1110.0	110.60	STE	Disabled
Restriction:		Bearing [True]: 359.0° to 359.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
67	CKB	N 39° 15' 11.57" W 80° 16' 4.32" 04 W	L	1425.7	112.60	CKB	Disabled
68	ESL	N 39° 13' 31.77" W 78° 59' 22.20" 06 W	L	2590.0	110.80	ESL	Disabled
69	HNN	N 38° 45' 14.85" W 82° 1' 34.20" 03 W	H	880.0	115.90	HNN	Disabled
70	GRV	N 39° 38' 6.11" W 79° 3' 1.90" 06 W	L	2640.0	112.30	GRV	Disabled
Restriction:		Bearing [True]: 301.0° to 64.0° Bearing [Mag]: 307.0° to 70.0°			Distance: Beyond 20.0 NM Altitude: Below 5000.0 ft		
Restriction:		Bearing [True]: 65.0° to 300.0° Bearing [Mag]: 71.0° to 306.0°			Distance: Beyond 20.0 NM Altitude: Below 6000.0 ft		
Restriction:		Bearing [True]: 102.0° to 107.0° Bearing [Mag]: 108.0° to 113.0°			Distance: Beyond 38.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 319.0° to 339.0° Bearing [Mag]: 325.0° to 345.0°			Distance: Beyond 35.0 NM Altitude: Below 99999.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
71	CRL	N 42° 2' 52.90" W 83° 27' 27.30" 03 W	H	629.0	115.70	CRL	Used
		ESV:	Bearing [True]: 259.0° to 268.0° Bearing [Mag]: 262.0° to 271.0°		Arc Distance: Out to 103.0 NM Altitude: 10000.0 to 16000.0 ft		
		ESV:	Bearing [True]: 293.0° to 359.0° Bearing [Mag]: 296.0° to 2.0°		Arc Distance: Out to 102.0 NM Altitude: 8500.0 to 16000.0 ft		
		ESV:	Bearing [True]: 65.0° to 98.0° Bearing [Mag]: 68.0° to 101.0°		Arc Distance: Out to 64.0 NM Altitude: 4000.0 to 16000.0 ft		
72	FWA	N 40° 58' 44.63" W 85° 11' 17.01" 06 W	H	792.6	117.80	FWA	Used
		Restriction:	Bearing [True]: 55.0° to 65.0° Bearing [Mag]: 61.0° to 71.0°		Distance: Beyond 0.0 NM Altitude: Below 7000.0 ft		
		Restriction:	Bearing [True]: 354.0° to 354.0° Bearing [Mag]: 360.0° to 360.0°		Distance: Beyond 33.0 NM Altitude: Below 2800.0 ft		
		Restriction:	Bearing [True]: 170.0° to 210.0° Bearing [Mag]: 176.0° to 216.0°		Distance: Beyond 22.0 NM Altitude: Below 4000.0 ft		
		Restriction:	Bearing [True]: 260.0° to 290.0° Bearing [Mag]: 266.0° to 296.0°		Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
		ESV:	Bearing [True]: 306.0° to 359.0° Bearing [Mag]: 312.0° to 5.0°		Arc Distance: Out to 101.0 NM Altitude: 10000.0 to 20000.0 ft		
73	VWV	N 41° 27' 5.35" W 83° 38' 19.30" 02 W	L	664.2	113.10	VWV	Used
		ESV:	Bearing [True]: 283.0° to 324.0° Bearing [Mag]: 285.0° to 326.0°		Arc Distance: Out to 85.0 NM Altitude: 10000.0 to 20000.0 ft		
		ESV:	Bearing [True]: 50.0° to 71.0° Bearing [Mag]: 52.0° to 73.0°		Arc Distance: Out to 78.0 NM Altitude: 6700.0 to 20000.0 ft		
74	PSI	N 42° 42' 3.09" W 83° 31' 57.98" 03 W	L	1149.3	111.00	PSI	Not Used
		Restriction:	Bearing [True]: 167.0° to 207.0° Bearing [Mag]: 170.0° to 210.0°		Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
		ESV:	Bearing [True]: 125.0° to 167.0° Bearing [Mag]: 128.0° to 170.0°		Arc Distance: Out to 80.0 NM Altitude: 7400.0 to 11000.0 ft		
75	SVM	N 42° 24' 31.09" W 83° 35' 38.05" 03 W	L	955.8	114.30	SVM	Used
		ESV:	Bearing [True]: 223.0° to 252.0° Bearing [Mag]: 226.0° to 255.0°		Arc Distance: Out to 81.0 NM Altitude: 10000.0 to 17000.0 ft		
		ESV:	Bearing [True]: 89.0° to 117.0° Bearing [Mag]: 92.0° to 120.0°		Arc Distance: Out to 73.0 NM Altitude: 6200.0 to 20000.0 ft		

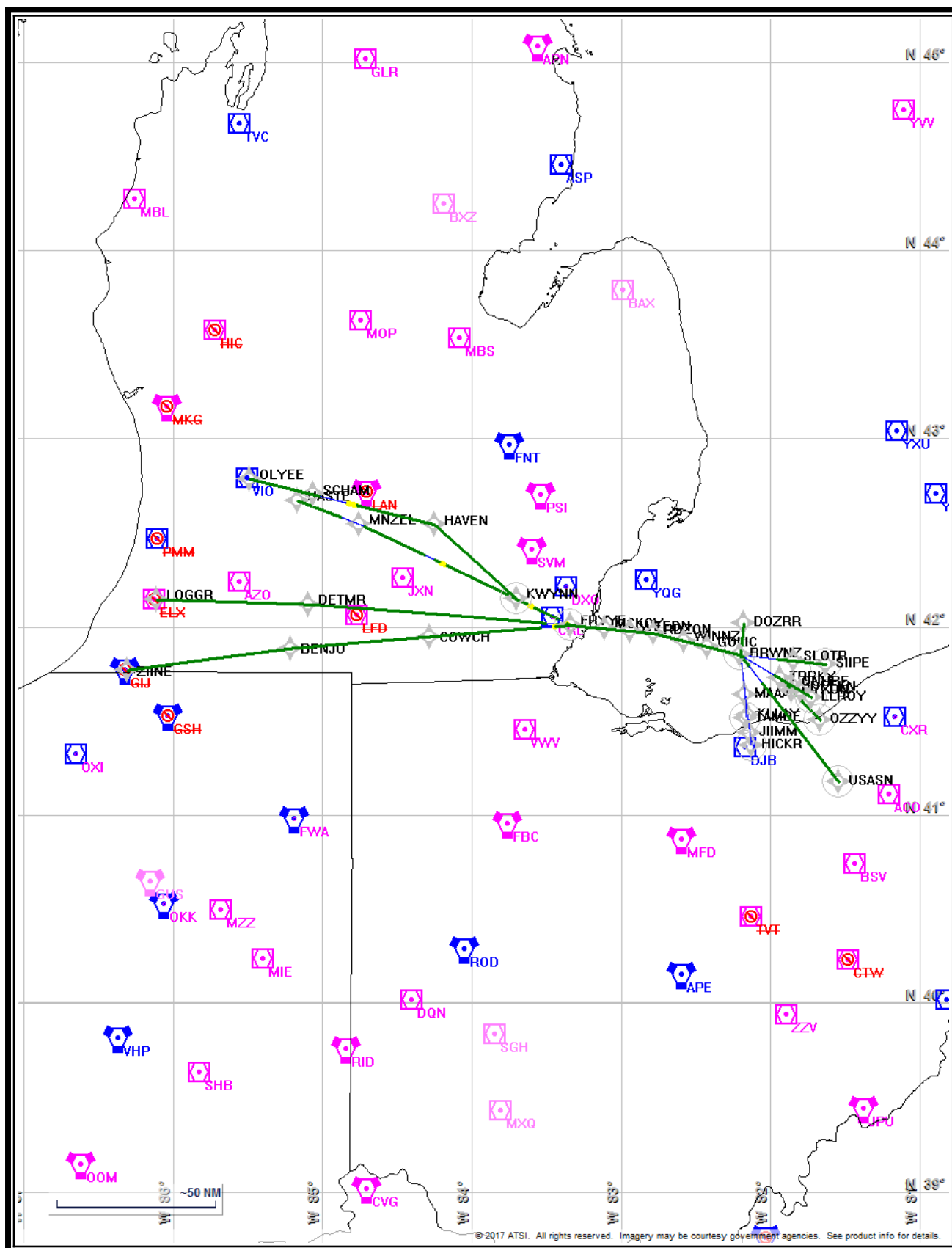
User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
76	MFD	N 40° 52' 7.00" W 82° 35' 27.46" 03 W	L	1222.0	108.80	MFD	Not Used
Restriction:		Bearing [True]: 72.0° to 92.0° Bearing [Mag]: 75.0° to 95.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 148.0° to 211.0° Bearing [Mag]: 151.0° to 214.0°			Distance: Beyond 30.0 NM Altitude: Below 99999.0 ft		
ESV:		Bearing [True]: 325.0° to 43.0° Bearing [Mag]: 328.0° to 46.0°			Arc Distance: Out to 80.0 NM Altitude: 6400.0 to 20000.0 ft		
77	ACO	N 41° 6' 28.45" W 81° 12' 5.49" 04 W	L	1198.4	114.40	ACO	Not Used
ESV:		Bearing [True]: 303.0° to 321.0° Bearing [Mag]: 307.0° to 325.0°			Arc Distance: Out to 82.0 NM Altitude: 7700.0 to 11000.0 ft		
78	DXO	N 42° 12' 47.29" W 83° 22' 0.00" 06 W	H	637.7	113.40	DXO	Used
Restriction:		Bearing [True]: 354.0° to 354.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 30.0 NM Altitude: Below 2900.0 ft		
ESV:		Bearing [True]: 279.0° to 333.0° Bearing [Mag]: 285.0° to 339.0°			Arc Distance: Out to 106.0 NM Altitude: 9700.0 to 20000.0 ft		
79	OKK	N 40° 31' 40.01" W 86° 3' 28.79" 05 W	H	825.8	113.50	OKK	Used
Restriction:		Bearing [True]: 171.0° to 229.0° Bearing [Mag]: 176.0° to 234.0°			Distance: Beyond 35.0 NM Altitude: Below 2400.0 ft		
ESV:		Bearing [True]: 356.0° to 50.0° Bearing [Mag]: 1.0° to 55.0°			Arc Distance: Out to 101.0 NM Altitude: 9900.0 to 20000.0 ft		
80	OBK	N 42° 13' 16.96" W 87° 57' 5.83" 02 W	H	707.0	113.00	OBK	Used
ESV:		Bearing [True]: 87.0° to 97.0° Bearing [Mag]: 89.0° to 99.0°			Arc Distance: Out to 103.0 NM Altitude: 10000.0 to 20000.0 ft		
81	OXI	N 41° 19' 19.35" W 86° 38' 57.45" 00 E	H	690.0	115.60	OXI	Used
ESV:		Bearing [True]: 360.0° to 138.0° Bearing [Mag]: 360.0° to 138.0°			Arc Distance: Out to 106.0 NM Altitude: 10000.0 to 20000.0 ft		
82	CXR	N 41° 31' 0.94" W 81° 9' 47.47" 05 W	H	1317.2	112.70	CXR	Not Used
ESV:		Bearing [True]: 298.0° to 343.0° Bearing [Mag]: 303.0° to 348.0°			Arc Distance: Out to 73.0 NM Altitude: 6200.0 to 16000.0 ft		



Name: Paul Jackson
Project Name: KCLE BRWNZ STAR
Output File: KCLE BRWNZ1 STAR
 OLYEE KWYNN
 20171030_1021
Procedure Name: BRWNZ1
Software: RNAV-Pro™
Version: 2.39
Date/Time: 10/30/2017 10:27:38 AM
Input File: KCLE BRWNZ1 STAR
 OLYEE KWYNN
 20170828_1019.txt
Databases: AIRNAV Date: 9/17/2017
 CIFP Date: 7/20/2017
 DTED® (MAX) Date: 2002

Results Summary:

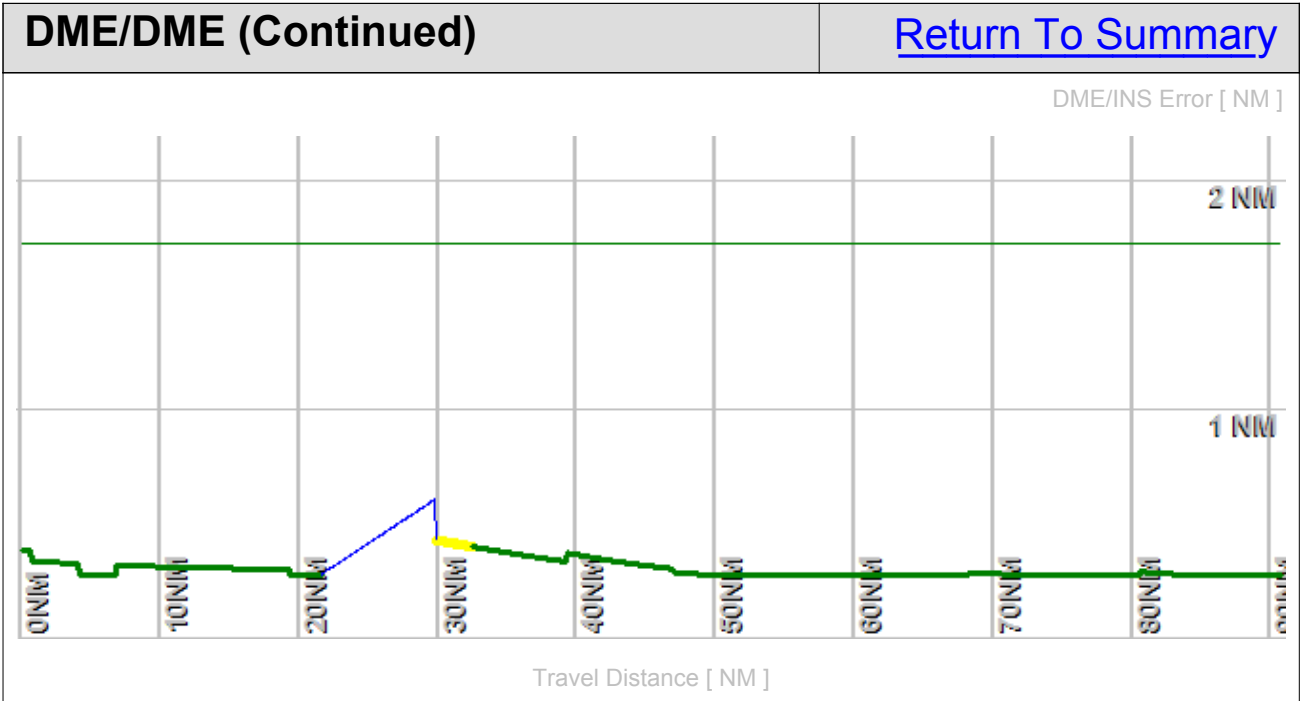
Flyability	✓	
DME/DME	✓	No Critical DMEs Exist
Radars	?	
Comms	?	
TERPS	?	



Flight Plan					Return To Summary		
Name	Type	Lat/Lon	Alt [ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
OLYEE	WP	N 42° 47' 4.67" W 85° 29' 10.01"	10000.0	Step	280.0	Fly By	TF
SCHAM	WP	N 42° 42' 9.63" W 85° 3' 39.20"	10000.0	Step	280.0	Fly By	TF
HAVEN	WP	N 42° 32' 29.24" W 84° 14' 48.81"	10000.0	Step	280.0	Fly By	TF
KWYNN	WP	N 42° 8' 49.08" W 83° 41' 52.01"	10000.0	Step	280.0	Fly Over	TF

Flyability		Return To Summary
Settings:	Flight Type: Arrival Selected Airport: KCLE Aircraft Category: Cat D Climb Gradient: <i>None assigned</i> Ground Speeds: 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: <i>None assigned</i> Descent During a Turn: Allowed VNAV Mode: Flight Plan	
	Entire track is fly-able	

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: 0.558 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, Standalone, and User DME Include Angles: 30 to 150 Critical DMEs: Allowed DoD Facilities: Not included Foreign Facilities: Not included Low DMEs: Included Terminal DMEs: Included Flight Check DMEs: Selected Higher Altitudes: Evaluated Near Maximum Altitude: Evaluated
Total Number of DMEs Used: 9 Maximum DME Error: 0.611 NM. No Critical DMEs were found. Available DMEs: CRL, DXO, OXI, AZO, VIO, JXN, SVM, PSI, FNT Disabled DMEs: LAN, LFD, ELX, GIJ, PMM, MKG, HIC, PLN, MNM, CTW, JFN, TVT, BDF, DNV, EON, PLL, PNT, RBS, SAM, UIN, VLA, BVT, GSH, ECB, EWO, FLM, YRK, BRD, DWN, HML, ODI, RST, CMK, DNY, GFL, GGT, HNK, HUO, LGA, HTO, MSS, PWL, RKA, SLK, UCA, ULW, CRI, AGC, BFD, CIP, ETG, FJC, FQM, IHD, LVZ, MIP, MXE, REC, SFK, SLT, TDT, THS, AUW, JVL, LNR, STE, CKB, ESL, HNN, and GRV Foreign DMEs within range: YQG, YQO, YVV, YWT, YXU, YYZ, YEE Co-Frequency Interference: 108.2(FBC) and 111(PSI)	



DME/DME (Continued)						Return To Summary			
DMEs Used									
#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	CRL	N 42° 2' 52.90" W 83° 27' 27.30" 03 W	H + ESV	User	NO	0.611	Enabled	40.0%	40.0%
2	OXI	N 41° 19' 19.35" W 86° 38' 57.45" 00 E	H + ESV	User	NO	0.611	Enabled	0.7%	0.7%
3	DXO	N 42° 12' 47.29" W 83° 22' 0.00" 06 W	H + ESV	User	NO	0.716	Enabled	26.2%	26.2%
4	AZO	N 42° 14' 13.14" W 85° 33' 11.35" 01 W	L	Database	NO	1.553	Enabled	23.0%	23.0%
5	VIO	N 42° 47' 12.18" W 85° 29' 49.45" 04 W	H	Database	NO	0.611	Enabled	13.3%	13.3%
6	JXN	N 42° 15' 33.27" W 84° 27' 30.77" 05 W	L	Database	NO	1.484	Enabled	37.5%	37.5%
7	SVM	N 42° 24' 31.09" W 83° 35' 38.05" 03 W	L + ESV	User	NO	0.611	Enabled	18.7%	18.7%
8	FNT	N 42° 58' 0.38" W 83° 44' 49.08" 06 W	H	Database	NO	0.611	Enabled	8.6%	8.6%
9	PSI	N 42° 42' 3.09" W 83° 31' 57.98" 03 W	L + ESV	User	NO	0.611	Enabled	13.6%	13.6%
	Total Coverage							90.9%	90.9%
Flight Check DME Selection									
Distance [NM]		Selected DMEs						Alternate	
0.0		DXO	AZO	CRL	OXI	VIO	JXN		
19.4		DXO	AZO	CRL	JXN	VIO			
46.0		DXO	SVM	CRL	JXN	PSI			
56.2		DXO	FNT	CRL	JXN	PSI	SVM		
70.4		DXO	SVM	CRL	JXN	PSI			
Inertial Drift Segments									
#	Start Location			End Location				Length [NM]	

Available DMEs by Waypoints		Return To Summary
Waypoint Before	Waypoint After	DME List
OLYEE	SCHAM	OXI, DXO, CRL, AZO, VIO, and JXN*
SCHAM	HAVEN	DXO, SVM, PSI, CRL, AZO, JXN, and VIO
HAVEN	KWYNN	DXO, SVM, PSI, CRL, FNT, and JXN

User Data					Return To Summary		
User Data Files							
#	File Name						
1	BRWNZ1_New.udt						
User DMEs							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	LAN	N 42° 43' 2.62" W 84° 41' 51.03" 05 W	L	887.4	110.80	LAN	Disabled
2	LFD	N 42° 3' 44.96" W 84° 45' 54.48" 05 W	L	1040.0	111.20	LFD	Disabled
Restriction:		Bearing [True]: 105.0° to 160.0° Bearing [Mag]: 110.0° to 165.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
3	ELX	N 42° 8' 39.88" W 86° 7' 21.74" 00 E	L	793.7	116.60	ELX	Disabled
4	GIJ	N 41° 46' 7.00" W 86° 19' 6.42" 00 E	H	802.7	115.40	GIJ	Disabled
Restriction:		Bearing [True]: 360.0° to 360.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3500.0 ft		
5	PMM	N 42° 27' 57.73" W 86° 6' 17.32" 00 E	H	639.9	112.10	PMM	Disabled
Restriction:		Bearing [True]: 360.0° to 360.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
6	MKG	N 43° 10' 9.31" W 86° 2' 21.76" 01 W	L	659.1	115.20	MKG	Disabled
Restriction:		Bearing [True]: 54.0° to 89.0° Bearing [Mag]: 55.0° to 90.0°			Distance: Beyond 10.0 NM Altitude: Below 4000.0 ft		
7	HIC	N 43° 34' 29.47" W 85° 42' 58.18" 01 W	L	920.0	117.60	HIC	Disabled
Restriction:		Bearing [True]: 19.0° to 89.0° Bearing [Mag]: 20.0° to 90.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 269.0° to 289.0° Bearing [Mag]: 270.0° to 290.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
8	PLN	N 45° 37' 50.33" W 84° 39' 50.79" 06 W	L	835.3	111.80	PLN	Disabled
9	MNM	N 45° 10' 48.58" W 87° 38' 49.83" 00 E	L	650.1	109.60	MNM	Disabled
10	CTW	N 40° 13' 45.15" W 81° 28' 35.32" 07 W	L	1180.0	111.80	CTW	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
11	JFN	N 41° 45' 36.42" W 80° 44' 53.20" 05 W	L	896.3	115.20	JFN	Disabled
Restriction:		Bearing [True]: 226.0° to 255.0° Bearing [Mag]: 231.0° to 260.0°			Distance: Beyond 30.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 121.0° to 185.0° Bearing [Mag]: 126.0° to 190.0°			Distance: Beyond 20.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 186.0° to 225.0° Bearing [Mag]: 191.0° to 230.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 80.0° to 120.0° Bearing [Mag]: 85.0° to 125.0°			Distance: Beyond 35.0 NM Altitude: Below 3500.0 ft		
12	TVT	N 40° 27' 29.04" W 82° 7' 36.52" 03 W	L	1330.4	116.50	TVT	Disabled
13	BDF	N 41° 9' 35.03" W 89° 35' 16.34" 00 E	H	810.0	114.70	BDF	Disabled
14	DNV	N 40° 17' 37.56" W 87° 33' 26.14" 02 E	L	698.8	111.00	DNV	Disabled
15	EON	N 41° 16' 10.68" W 87° 47' 27.79" 02 E	L	688.7	113.20	EON	Disabled
16	PLL	N 41° 57' 56.31" W 89° 31' 27.19" 03 E	L	840.0	111.20	PLL	Disabled
17	PNT	N 40° 49' 16.32" W 88° 44' 0.63" 03 E	L	680.0	109.60	PNT	Disabled
18	RBS	N 40° 34' 54.13" W 88° 9' 51.36" 02 E	L	780.0	116.80	RBS	Disabled
19	SAM	N 38° 29' 6.68" W 88° 5' 8.90" 03 E	L	540.0	116.60	SAM	Disabled
20	UIN	N 39° 50' 52.35" W 91° 16' 44.13" 05 E	H	715.1	113.60	UIN	Disabled
21	VLA	N 39° 5' 37.82" W 89° 9' 44.08" 04 E	L	605.5	114.30	VLA	Disabled
22	BVT	N 40° 33' 22.22" W 87° 4' 9.75" 01 E	H	752.2	115.10	BVT	Disabled
Restriction:		Bearing [True]: 299.0° to 45.0° Bearing [Mag]: 298.0° to 44.0°			Distance: Beyond 0.0 NM Altitude: Below 2800.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
23	GSH	N 41° 31' 30.56" W 86° 1' 40.63" 00 E	H	851.8	113.70	GSH	Disabled
Restriction:		Bearing [True]: 71.0° to 129.0° Bearing [Mag]: 71.0° to 129.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
24	ECB	N 38° 9' 30.11" W 82° 54' 36.20" 02 W	L	1070.0	110.40	ECB	Disabled
25	EWO	N 37° 37' 54.52" W 85° 40' 33.16" 01 E	L	960.0	110.80	EWO	Disabled
26	FLM	N 38° 38' 57.99" W 84° 18' 38.17" 04 W	H	808.5	117.00	FLM	Disabled
27	YRK	N 38° 38' 38.88" W 82° 58' 42.02" 05 W	L	1040.0	112.80	YRK	Disabled
28	BRD	N 46° 20' 53.81" W 94° 1' 33.54" 03 E	H	1253.9	116.90	BRD	Disabled
Restriction:		Bearing [True]: 3.0° to 3.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 29.0 NM Altitude: Below 3000.0 ft		
29	DWN	N 45° 5' 14.87" W 94° 27' 13.86" 07 E	L	1130.0	109.00	DWN	Disabled
30	HML	N 48° 52' 9.07" W 97° 7' 4.45" 09 E	H	797.4	112.40	HML	Disabled
Restriction:		Bearing [True]: 84.0° to 94.0° Bearing [Mag]: 75.0° to 85.0°			Distance: Beyond 0.0 NM Altitude: Below 10000.0 ft		
Restriction:		Bearing [True]: 95.0° to 263.0° Bearing [Mag]: 86.0° to 254.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 264.0° to 279.0° Bearing [Mag]: 255.0° to 270.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 280.0° to 83.0° Bearing [Mag]: 271.0° to 74.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
31	ODI	N 43° 54' 44.38" W 91° 28' 3.06" 01 E	H	1282.2	117.90	ODI	Disabled
32	RST	N 43° 46' 58.45" W 92° 35' 49.06" 05 E	L	1393.0	112.00	RST	Disabled
33	CMK	N 41° 16' 48.32" W 73° 34' 52.77" 12 W	L	693.8	116.60	CMK	Disabled
34	DNY	N 42° 10' 41.81" W 74° 57' 24.99" 11 W	L	2560.0	112.10	DNY	Disabled

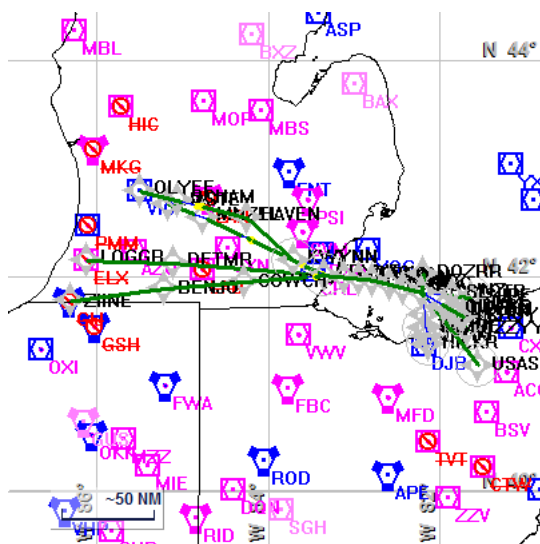
User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
35	GFL	N 43° 20' 30.09" W 73° 36' 42.32" 14 W	L	323.7	110.20	GFL	Disabled
Restriction:		Bearing [True]: 346.0° to 346.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 0.0 NM Altitude: Below 9000.0 ft		
36	GGT	N 42° 47' 20.24" W 75° 49' 36.29" 11 W	L	2040.0	117.80	GGT	Disabled
37	HNK	N 42° 3' 47.00" W 75° 18' 58.62" 11 W	H	2070.0	116.80	HNK	Disabled
38	HUO	N 41° 24' 34.87" W 74° 35' 29.74" 11 W	H	1300.3	116.10	HUO	Disabled
39	LGA	N 40° 47' 1.38" W 73° 52' 6.96" 12 W	L	8.9	113.10	LGA	Disabled
Restriction:		Bearing [True]: 233.0° to 268.0° Bearing [Mag]: 245.0° to 280.0°			Distance: Beyond 25.0 NM Altitude: Below 6000.0 ft		
40	HTO	N 40° 55' 8.38" W 72° 19' 0.14" 13 W	H	22.0	113.60	HTO	Disabled
Restriction:		Bearing [True]: 267.0° to 312.0° Bearing [Mag]: 280.0° to 325.0°			Distance: Beyond 35.0 NM Altitude: Below 1700.0 ft		
Restriction:		Bearing [True]: 312.0° to 342.0° Bearing [Mag]: 325.0° to 355.0°			Distance: Beyond 30.0 NM Altitude: Below 2000.0 ft		
41	MSS	N 44° 54' 51.92" W 74° 43' 21.78" 14 W	H	197.5	114.10	MSS	Disabled
42	PWL	N 41° 46' 11.18" W 73° 36' 1.99" 12 W	L	1250.0	114.30	PWL	Disabled
43	RKA	N 42° 27' 58.91" W 75° 14' 21.51" 11 W	L	2027.2	112.60	RKA	Disabled
44	SLK	N 44° 23' 4.41" W 74° 12' 16.21" 14 W	L	1646.8	109.20	SLK	Disabled
45	UCA	N 43° 1' 35.45" W 75° 9' 52.28" 12 W	L	1420.0	111.20	UCA	Disabled
46	ULW	N 42° 5' 39.16" W 77° 1' 28.53" 12 W	L	1631.8	109.65	ULW	Disabled
47	CRI	N 40° 36' 44.90" W 73° 53' 40.00" 11 W	T	10.0	112.30	CRI	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
48	AGC	N 40° 16' 43.12" W 80° 2' 27.08" 09 W	L	1284.6	110.00	AGC	Disabled
49	BFD	N 41° 47' 10.99" W 78° 37' 9.65" 07 W	L	2110.6	116.60	BFD	Disabled
50	CIP	N 41° 8' 46.66" W 79° 27' 28.71" 06 W	L	1519.5	112.90	CIP	Disabled
51	ETG	N 41° 12' 53.82" W 78° 8' 33.92" 10 W	H	2250.0	116.00	ETG	Disabled
52	FJC	N 40° 43' 36.12" W 75° 27' 17.12" 10 W	L	680.6	117.50	FJC	Disabled
Restriction:		Bearing [True]: 290.0° to 50.0° Bearing [Mag]: 300.0° to 60.0°			Distance: Beyond 26.0 NM Altitude: Below 4500.0 ft		
Restriction:		Bearing [True]: 51.0° to 289.0° Bearing [Mag]: 61.0° to 299.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
53	FQM	N 41° 20' 18.81" W 76° 46' 29.52" 09 W	L	2098.0	114.40	FQM	Disabled
54	IHD	N 39° 58' 27.27" W 79° 21' 30.12" 06 W	L	2820.0	108.20	IHD	Disabled
55	LVZ	N 41° 16' 22.09" W 75° 41' 22.08" 10 W	L	2118.8	111.60	LVZ	Disabled
56	MIP	N 41° 1' 24.21" W 76° 39' 55.04" 09 W	L	1000.0	109.20	MIP	Disabled
57	MXE	N 39° 55' 5.00" W 75° 40' 14.91" 09 W	L	473.4	113.20	MXE	Disabled
58	REC	N 40° 32' 47.25" W 78° 44' 49.28" 09 W	L	2340.0	110.60	REC	Disabled
59	SFK	N 41° 41' 42.91" W 77° 25' 11.66" 08 W	L	1984.7	108.60	SFK	Disabled
60	SLT	N 41° 30' 45.93" W 77° 58' 12.39" 08 W	H	2310.0	113.90	SLT	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
61	TDT	N 41° 42' 46.91" W 79° 25' 2.17" 09 W	L	1710.0	117.60	TDT	Disabled
Restriction:		Bearing [True]: 32.0° to 42.0° Bearing [Mag]: 41.0° to 51.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
Restriction:		Bearing [True]: 296.0° to 331.0° Bearing [Mag]: 305.0° to 340.0°			Distance: Beyond 24.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 331.0° to 356.0° Bearing [Mag]: 340.0° to 5.0°			Distance: Beyond 24.0 NM Altitude: Below 5000.0 ft		
62	THS	N 39° 55' 59.62" W 77° 57' 3.40" 07 W	L	2338.0	115.00	THS	Disabled
63	AUW	N 44° 50' 48.40" W 89° 35' 11.68" 02 E	L	1204.7	111.60	AUW	Disabled
Restriction:		Bearing [True]: 322.0° to 302.0° Bearing [Mag]: 320.0° to 300.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 302.0° to 322.0° Bearing [Mag]: 300.0° to 320.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
64	JVL	N 42° 33' 28.83" W 89° 6' 18.93" 03 E	L	931.4	114.30	JVL	Disabled
65	LNR	N 43° 17' 39.85" W 90° 7' 59.33" 00 E	L	1184.6	112.80	LNR	Disabled
66	STE	N 44° 32' 35.69" W 89° 31' 50.02" 01 W	L	1110.0	110.60	STE	Disabled
Restriction:		Bearing [True]: 359.0° to 359.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
67	CKB	N 39° 15' 11.57" W 80° 16' 4.32" 04 W	L	1425.7	112.60	CKB	Disabled
68	ESL	N 39° 13' 31.77" W 78° 59' 22.20" 06 W	L	2590.0	110.80	ESL	Disabled
69	HNN	N 38° 45' 14.85" W 82° 1' 34.20" 03 W	H	880.0	115.90	HNN	Disabled
70	GRV	N 39° 38' 6.11" W 79° 3' 1.90" 06 W	L	2640.0	112.30	GRV	Disabled
Restriction:		Bearing [True]: 301.0° to 64.0° Bearing [Mag]: 307.0° to 70.0°			Distance: Beyond 20.0 NM Altitude: Below 5000.0 ft		
Restriction:		Bearing [True]: 65.0° to 300.0° Bearing [Mag]: 71.0° to 306.0°			Distance: Beyond 20.0 NM Altitude: Below 6000.0 ft		
Restriction:		Bearing [True]: 102.0° to 107.0° Bearing [Mag]: 108.0° to 113.0°			Distance: Beyond 38.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 319.0° to 339.0° Bearing [Mag]: 325.0° to 345.0°			Distance: Beyond 35.0 NM Altitude: Below 99999.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
71	CRL	N 42° 2' 52.90" W 83° 27' 27.30" 03 W	H	629.0	115.70	CRL	Used
		ESV:	Bearing [True]: 259.0° to 268.0° Bearing [Mag]: 262.0° to 271.0°		Arc Distance: Out to 103.0 NM Altitude: 10000.0 to 16000.0 ft		
		ESV:	Bearing [True]: 293.0° to 359.0° Bearing [Mag]: 296.0° to 2.0°		Arc Distance: Out to 102.0 NM Altitude: 8500.0 to 16000.0 ft		
		ESV:	Bearing [True]: 65.0° to 98.0° Bearing [Mag]: 68.0° to 101.0°		Arc Distance: Out to 64.0 NM Altitude: 4000.0 to 16000.0 ft		
72	FWA	N 40° 58' 44.63" W 85° 11' 17.01" 06 W	H	792.6	117.80	FWA	Not Used
		Restriction:	Bearing [True]: 55.0° to 65.0° Bearing [Mag]: 61.0° to 71.0°		Distance: Beyond 0.0 NM Altitude: Below 7000.0 ft		
		Restriction:	Bearing [True]: 354.0° to 354.0° Bearing [Mag]: 360.0° to 360.0°		Distance: Beyond 33.0 NM Altitude: Below 2800.0 ft		
		Restriction:	Bearing [True]: 170.0° to 210.0° Bearing [Mag]: 176.0° to 216.0°		Distance: Beyond 22.0 NM Altitude: Below 4000.0 ft		
		Restriction:	Bearing [True]: 260.0° to 290.0° Bearing [Mag]: 266.0° to 296.0°		Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
		ESV:	Bearing [True]: 306.0° to 359.0° Bearing [Mag]: 312.0° to 5.0°		Arc Distance: Out to 101.0 NM Altitude: 10000.0 to 20000.0 ft		
73	VWV	N 41° 27' 5.35" W 83° 38' 19.30" 02 W	L	664.2	113.10	VWV	Not Used
		ESV:	Bearing [True]: 283.0° to 324.0° Bearing [Mag]: 285.0° to 326.0°		Arc Distance: Out to 85.0 NM Altitude: 10000.0 to 20000.0 ft		
		ESV:	Bearing [True]: 50.0° to 71.0° Bearing [Mag]: 52.0° to 73.0°		Arc Distance: Out to 78.0 NM Altitude: 6700.0 to 20000.0 ft		
74	PSI	N 42° 42' 3.09" W 83° 31' 57.98" 03 W	L	1149.3	111.00	PSI	Used
		Restriction:	Bearing [True]: 167.0° to 207.0° Bearing [Mag]: 170.0° to 210.0°		Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
		ESV:	Bearing [True]: 125.0° to 167.0° Bearing [Mag]: 128.0° to 170.0°		Arc Distance: Out to 80.0 NM Altitude: 7400.0 to 11000.0 ft		
75	SVM	N 42° 24' 31.09" W 83° 35' 38.05" 03 W	L	955.8	114.30	SVM	Used
		ESV:	Bearing [True]: 223.0° to 252.0° Bearing [Mag]: 226.0° to 255.0°		Arc Distance: Out to 81.0 NM Altitude: 10000.0 to 17000.0 ft		
		ESV:	Bearing [True]: 89.0° to 117.0° Bearing [Mag]: 92.0° to 120.0°		Arc Distance: Out to 73.0 NM Altitude: 6200.0 to 20000.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
76	MFD	N 40° 52' 7.00" W 82° 35' 27.46" 03 W	L	1222.0	108.80	MFD	Not Used
Restriction:		Bearing [True]: 72.0° to 92.0° Bearing [Mag]: 75.0° to 95.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 148.0° to 211.0° Bearing [Mag]: 151.0° to 214.0°			Distance: Beyond 30.0 NM Altitude: Below 99999.0 ft		
ESV:		Bearing [True]: 325.0° to 43.0° Bearing [Mag]: 328.0° to 46.0°			Arc Distance: Out to 80.0 NM Altitude: 6400.0 to 20000.0 ft		
77	ACO	N 41° 6' 28.45" W 81° 12' 5.49" 04 W	L	1198.4	114.40	ACO	Not Used
ESV:		Bearing [True]: 303.0° to 321.0° Bearing [Mag]: 307.0° to 325.0°			Arc Distance: Out to 82.0 NM Altitude: 7700.0 to 11000.0 ft		
78	DXO	N 42° 12' 47.29" W 83° 22' 0.00" 06 W	H	637.7	113.40	DXO	Used
Restriction:		Bearing [True]: 354.0° to 354.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 30.0 NM Altitude: Below 2900.0 ft		
ESV:		Bearing [True]: 279.0° to 333.0° Bearing [Mag]: 285.0° to 339.0°			Arc Distance: Out to 106.0 NM Altitude: 9700.0 to 20000.0 ft		
79	OKK	N 40° 31' 40.01" W 86° 3' 28.79" 05 W	H	825.8	113.50	OKK	Not Used
Restriction:		Bearing [True]: 171.0° to 229.0° Bearing [Mag]: 176.0° to 234.0°			Distance: Beyond 35.0 NM Altitude: Below 2400.0 ft		
ESV:		Bearing [True]: 356.0° to 50.0° Bearing [Mag]: 1.0° to 55.0°			Arc Distance: Out to 101.0 NM Altitude: 9900.0 to 20000.0 ft		
80	OBK	N 42° 13' 16.96" W 87° 57' 5.83" 02 W	H	707.0	113.00	OBK	Not Used
ESV:		Bearing [True]: 87.0° to 97.0° Bearing [Mag]: 89.0° to 99.0°			Arc Distance: Out to 103.0 NM Altitude: 10000.0 to 20000.0 ft		
81	OXI	N 41° 19' 19.35" W 86° 38' 57.45" 00 E	H	690.0	115.60	OXI	Used
ESV:		Bearing [True]: 360.0° to 138.0° Bearing [Mag]: 360.0° to 138.0°			Arc Distance: Out to 106.0 NM Altitude: 10000.0 to 20000.0 ft		
82	CXR	N 41° 31' 0.94" W 81° 9' 47.47" 05 W	H	1317.2	112.70	CXR	Not Used
ESV:		Bearing [True]: 298.0° to 343.0° Bearing [Mag]: 303.0° to 348.0°			Arc Distance: Out to 73.0 NM Altitude: 6200.0 to 16000.0 ft		



Name: Paul Jackson
Project Name: KCLE BRWNZ STAR
Output File: KCLE BRWNZ1 STAR
 ZIINE LLROY
 20171030_1021
Procedure Name: BRWNZ1
Software: RNAV-Pro™
Version: 2.39
Date/Time: 10/30/2017 10:28:21 AM
Input File: KCLE BRWNZ1 STAR
 ZIINE LLROY
 20170825_1355.txt
Databases: AIRNAV Date: 9/17/2017
 CIFP Date: 7/20/2017
 DTED® (MAX) Date: 2002

Results Summary:

Flyability



DME/DME



No Critical DMEs Exist

Radars

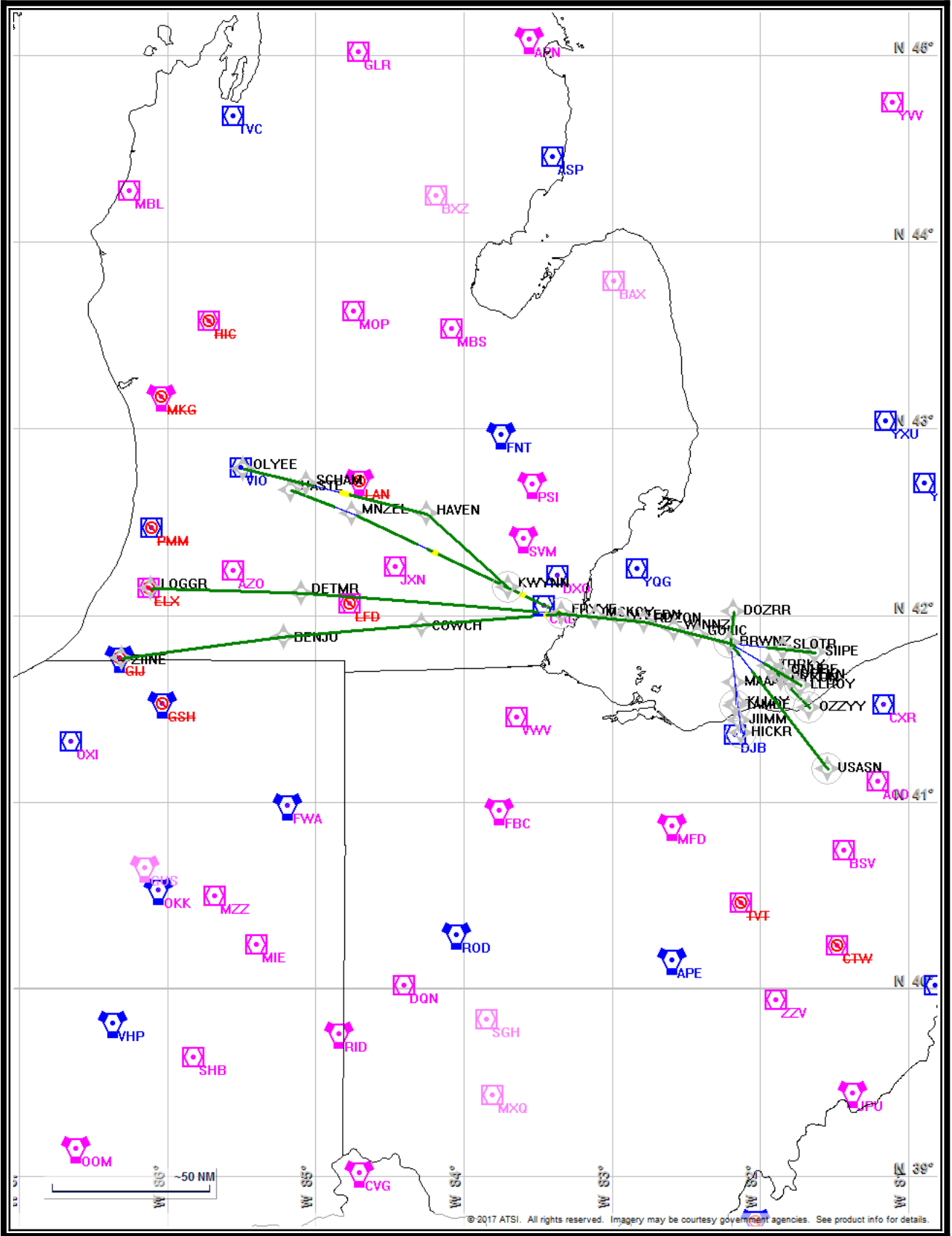


Comms



TERPS

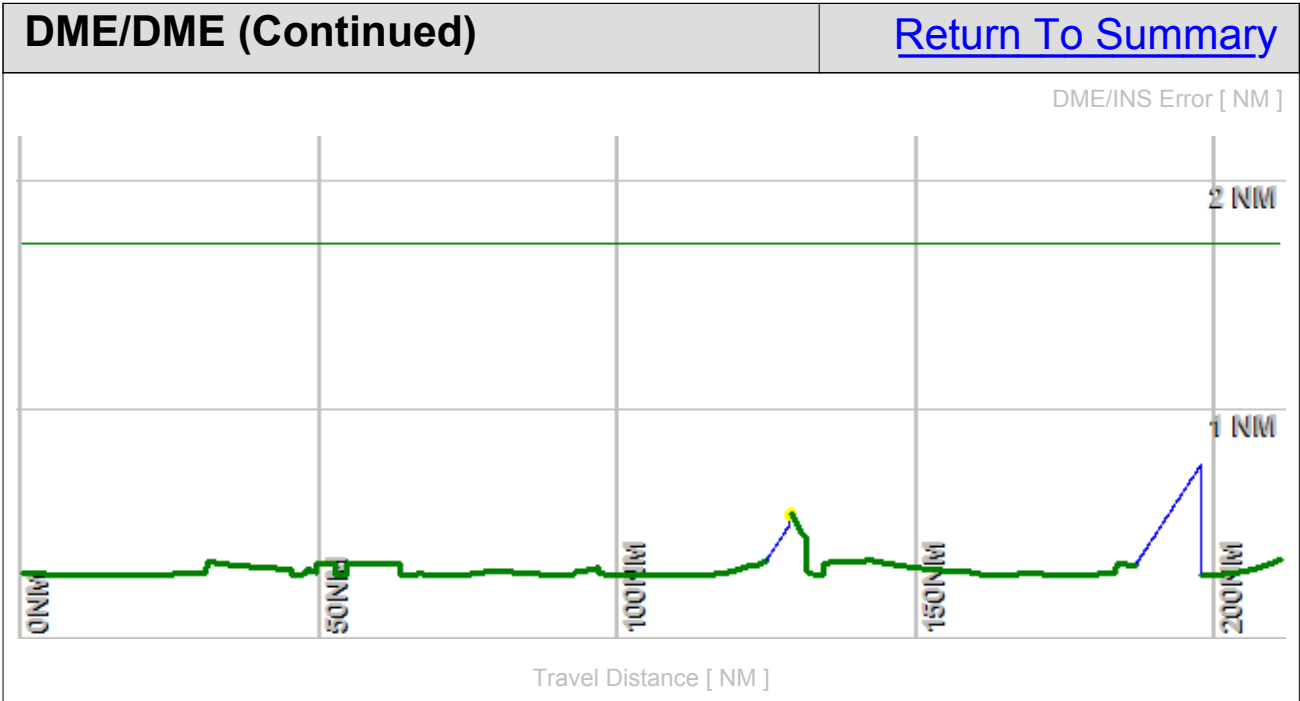




Flight Plan					Return To Summary		
Name	Type	Lat/Lon	Alt [ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
ZIINE	WP	N 41° 46' 11.17" W 86° 18' 26.72"	10000.0	Step	280.0	Fly By	TF
BENJO	WP	N 41° 53' 8.45" W 85° 12' 33.15"	10000.0	Step	280.0	Fly By	TF
COWCH	WP	N 41° 56' 53.14" W 84° 16' 57.02"	10000.0	Step	280.0	Fly By	TF
FRYYE	WP	N 42° 0' 27.89" W 83° 20' 11.22"	10000.0	Step	280.0	Fly By	TF
MCKOY	WP	N 41° 59' 26.14" W 83° 6' 30.86"	10000.0	Step	280.0	Fly By	TF
WEEDN	WP	N 41° 58' 37.27" W 82° 56' 5.98"	10000.0	Step	280.0	Fly By	TF
RDZON	WP	N 41° 57' 52.34" W 82° 46' 45.45"	10000.0	Step	210.0	Fly By	TF
WINNZ	WP	N 41° 55' 26.66" W 82° 34' 29.63"	10000.0	Step	210.0	Fly By	TF
GOLIC	WP	N 41° 53' 34.65" W 82° 25' 3.86"	10000.0	Step	210.0	Fly By	TF
BRWNZ	WP	N 41° 51' 0.43" W 82° 12' 4.69"	8000.0	Step	210.0	Fly By	TF
TRRKY	WP	N 41° 43' 30.40" W 81° 56' 3.92"	5000.0	Step	210.0	Fly By	TF
QUUBE	WP	N 41° 41' 19.29" W 81° 51' 29.06"	4000.0	Step	210.0	Fly By	TF
DEEKN	WP	N 41° 39' 39.34" W 81° 47' 53.74"	4000.0	Step	210.0	Fly By	TF
LLROY	WP	N 41° 37' 30.61" W 81° 43' 22.58"	4000.0	Step	210.0	Fly Over	TF

Flyability		Return To Summary
Settings:	<div>Flight Type: Arrival</div> <div>Selected Airport: KCLE</div> <div>Aircraft Category: Cat D</div> <div>Climb Gradient: <i>None assigned</i></div> <div>Ground Speeds:</div> <div>Table:</div> <div><div>200.0 Kts up to 11000.0 ft</div><div>240.0 Kts up to 18000.0 ft</div><div>260.0 Kts up to 24000.0 ft</div><div>340.0 Kts up to 99900.0 ft</div></div> <div>Wind Settings: <i>None assigned</i></div> <div>Descent During a Turn: Allowed</div> <div>VNAV Mode: Flight Plan</div>	
	Entire track is fly-able	

DME/DME	Return To Summary
Settings:	<p>RNP: 2.0</p> <p>Flight Mode: Manual</p> <p>Line of Sight (DTED Level 0 Max): Evaluated</p> <p>DME Restrictions: Evaluated</p> <p>Inertial Drift: Enabled</p> <p> Initial Drift: 0.558 NM</p> <p> INS Drift Rate: 8.000 NM/Hour</p> <p>Range Mode: OSV</p> <p>Co-Frequencies: Evaluated</p> <p>RNP Edges: Evaluated</p> <p>Min DME Range: 3.0 NM</p> <p>Allowed Gap Length: 4.0 NM</p> <p>DME Types: VOR/DME, VORTAC, Standalone, and User</p> <p>DME Include Angles: 30 to 150</p> <p>Critical DMEs: Allowed</p> <p>DoD Facilities: Not included</p> <p>Foreign Facilities: Not included</p> <p>Low DMEs: Included</p> <p>Terminal DMEs: Included</p> <p>Flight Check DMEs: Selected</p> <p>Higher Altitudes: Evaluated</p> <p>Near Maximum Altitude: Evaluated</p>
<p>Total Number of DMEs Used: 13</p> <p>Maximum DME Error: 0.761 NM.</p> <p>No Critical DMEs were found.</p> <p>Available DMEs: FWA, OXI, OKK, AZO, CRL, VWV, SVM, JXN, DXO, MFD, PSI, ACO, DJB, CXR</p> <p>Disabled DMEs: LAN, LFD, ELX, GIJ, PMM, MKG, HIC, PLN, MNM, CTW, JFN, TVT, BDF, DNV, EON, PLL, PNT, RBS, SAM, UIN, VLA, BVT, GSH, ECB, EWO, FLM, YRK, BRD, DWN, HML, ODI, RST, CMK, DNY, GFL, GGT, HNK, HUO, LGA, HTO, MSS, PWL, RKA, SLK, UCA, ULW, CRI, AGC, BFD, CIP, ETG, FJC, FQM, IHD, LVZ, MIP, MXE, REC, SFK, SLT, TDT, THS, AUW, JVL, LNR, STE, CKB, ESL, HNN, and GRV</p> <p>Foreign DMEs within range: YQG, YXU, YQO, YWT, YVV, YYZ, YEE, UTR, YCF</p> <p>Co-Frequency Interference: 108.2(FBC) and 109(AZO, YNG)</p>	



DME/DME (Continued)						Return To Summary			
DMEs Used									
#	Name	Lat/Lon/MAGVAR	Range	Source	Critical	Err. [NM]	Status	Time	Distance
1	FWA	N 40° 58' 44.63" W 85° 11' 17.01" 06 W	H + ESV	User	NO	0.809	Enabled	19.1%	19.1%
2	OXI	N 41° 19' 19.35" W 86° 38' 57.45" 00 E	H + ESV	User	NO	0.809	Enabled	15.1%	15.1%
3	AZO	N 42° 14' 13.14" W 85° 33' 11.35" 01 W	L	Database	NO	0.761	Enabled	9.4%	9.4%
4	CRL	N 42° 2' 52.90" W 83° 27' 27.30" 03 W	H + ESV	User	NO	1.059	Enabled	31.0%	31.0%
5	VWV	N 41° 27' 5.35" W 83° 38' 19.30" 02 W	L + ESV	User	NO	0.761	Enabled	38.6%	38.6%
6	OKK	N 40° 31' 40.01" W 86° 3' 28.79" 05 W	H + ESV	User	NO	0.761	Enabled	5.6%	5.6%
7	JXN	N 42° 15' 33.27" W 84° 27' 30.77" 05 W	L	Database	NO	0.761	Enabled	12.9%	12.9%
8	SVM	N 42° 24' 31.09" W 83° 35' 38.05" 03 W	L + ESV	User	NO	0.761	Enabled	12.1%	12.1%
9	DXO	N 42° 12' 47.29" W 83° 22' 0.00" 06 W	H + ESV	User	NO	0.761	Enabled	4.0%	4.0%
10	PSI	N 42° 42' 3.09" W 83° 31' 57.98" 03 W	L + ESV	User	NO	0.767	Enabled	8.9%	8.9%
11	MFD	N 40° 52' 7.00" W 82° 35' 27.46" 03 W	L + ESV	User	NO	0.843	Enabled	10.8%	10.8%
12	DJB	N 41° 21' 29.03" W 82° 9' 43.09" 05 W	H	Database	NO	1.297	Enabled	12.2%	12.2%
13	CXR	N 41° 31' 0.94" W 81° 9' 47.47" 05 W	H + ESV	User	NO	1.297	Enabled	6.3%	6.3%
	Total Coverage							93.0%	93.0%
Flight Check DME Selection									
Distance [NM]		Selected DMEs						Alternate	
0.0		OXI	FWA	OKK	AZO	CRL	VWV		
49.6		VWV	JXN	OKK	AZO	CRL	OXI		
71.1		VWV	JXN	SVM	OXI	CRL			
91.4		VWV	JXN	SVM	DXO	CRL			
133.6		VWV	MFD	PSI	DXO	CRL	SVM		

DME/DME (Continued)					Return To Summary	
Flight Check DME Selection (Continued)						
Distance [NM]	Selected DMEs					Alternate
144.2	SVM	MFD	PSI	DXO	CRL	
151.9	MFD	PSI	DXO	CRL		
158.7	VWV	MFD	PSI	DXO	CRL	ACO
168.4	VWV	MFD	PSI	ACO	DJB	
175.7	VWV	MFD	PSI	ACO	DJB	
185.3	CXR	MFD	PSI	ACO	DJB	
199.9	CXR	DJB				
203.9	CXR	DJB				
207.1	CXR	DJB				
Inertial Drift Segments						
#	Start Location		End Location			Length [NM]
1	N 41° 59' 44.95" W 83° 32' 10.77"		N 42° 0' 3.20" W 83° 27' 7.76"			3.8
VOR: BQE		Available from N 41° 59' 44.95" W 83° 32' 10.77" to N 42° 0' 3.20" W 83° 27' 7.76"				
VOR: DET		Available from N 41° 59' 44.95" W 83° 32' 10.77" to N 42° 0' 3.20" W 83° 27' 7.76"				
VOR: VWV		Available from N 41° 59' 44.95" W 83° 32' 10.77" to N 42° 0' 3.20" W 83° 27' 7.76"				
VOR: CRL		Available from N 41° 59' 44.95" W 83° 32' 10.77" to N 42° 0' 3.20" W 83° 27' 7.76"				
VOR: YQG		Available from N 41° 59' 44.95" W 83° 32' 10.77" to N 42° 0' 3.20" W 83° 27' 7.76"				
VOR: DTW		Available from N 41° 59' 44.95" W 83° 32' 10.77" to N 42° 0' 3.20" W 83° 27' 7.76"				
VOR: YIP		Available from N 41° 59' 44.95" W 83° 32' 10.77" to N 42° 0' 3.20" W 83° 27' 7.76"				
VOR: SVM		Available from N 41° 59' 44.95" W 83° 32' 10.77" to N 42° 0' 3.20" W 83° 27' 7.76"				
VOR: DXO		Available from N 41° 59' 44.95" W 83° 32' 10.77" to N 42° 0' 3.20" W 83° 27' 7.76"				

DME/DME (Continued)			Return To Summary
<i>Inertial Drift Segments (Continued)</i>			
#	Start Location	End Location	Length [NM]
2	N 41° 50' 26.52" W 82° 10' 51.28"	N 41° 44' 39.63" W 81° 58' 31.01"	10.9
	VOR: CLE	Available from N 41° 50' 26.52" W 82° 10' 51.28" to N 41° 44' 39.63" W 81° 58' 31.01"	
	VOR: DJB	Available from N 41° 50' 26.52" W 82° 10' 51.28" to N 41° 44' 39.63" W 81° 58' 31.01"	
	VOR: YQG	Available from N 41° 50' 26.52" W 82° 10' 51.28" to N 41° 49' 21.13" W 82° 8' 31.37"	
	VOR: CXR	Available from N 41° 45' 11.54" W 81° 59' 38.91" to N 41° 44' 39.63" W 81° 58' 31.01"	

Available DMEs by Waypoints		Return To Summary
Waypoint Before	Waypoint After	DME List
ZIINE	BENJO	OXI, OKK, FWA, CRL, AZO, SVM*, and VWV*
BENJO	COWCH	OXI, OKK, SVM, VWV, CRL, AZO, and JXN
COWCH	FRYYE	DXO, SVM, VWV, CRL, and JXN
FRYYE	MCKOY	DXO, MFD, PSI, VWV, CRL, and SVM*
MCKOY	WEEDN	DXO, MFD, SVM, PSI, and CRL
WEEDN	RDZON	DXO, MFD, PSI, and CRL
RDZON	WINNZ	DXO, MFD, PSI, VWV, CRL, and ACO*
WINNZ	GOLIC	ACO, MFD, PSI, VWV, and DJB
GOLIC	BRWNZ	ACO, MFD, PSI, VWV, and DJB
BRWNZ	TRRKY	CXR, ACO, MFD, PSI, and DJB
TRRKY	QUUBE	CXR and DJB
QUUBE	DEEKN	CXR and DJB
DEEKN	LLROY	CXR and DJB

User Data					Return To Summary		
User Data Files							
#	File Name						
1	BRWNZ1_New.udt						
User DMEs							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
1	LAN	N 42° 43' 2.62" W 84° 41' 51.03" 05 W	L	887.4	110.80	LAN	Disabled
2	LFD	N 42° 3' 44.96" W 84° 45' 54.48" 05 W	L	1040.0	111.20	LFD	Disabled
Restriction:		Bearing [True]: 105.0° to 160.0° Bearing [Mag]: 110.0° to 165.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
3	ELX	N 42° 8' 39.88" W 86° 7' 21.74" 00 E	L	793.7	116.60	ELX	Disabled
4	GIJ	N 41° 46' 7.00" W 86° 19' 6.42" 00 E	H	802.7	115.40	GIJ	Disabled
Restriction:		Bearing [True]: 360.0° to 360.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3500.0 ft		
5	PMM	N 42° 27' 57.73" W 86° 6' 17.32" 00 E	H	639.9	112.10	PMM	Disabled
Restriction:		Bearing [True]: 360.0° to 360.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
6	MKG	N 43° 10' 9.31" W 86° 2' 21.76" 01 W	L	659.1	115.20	MKG	Disabled
Restriction:		Bearing [True]: 54.0° to 89.0° Bearing [Mag]: 55.0° to 90.0°			Distance: Beyond 10.0 NM Altitude: Below 4000.0 ft		
7	HIC	N 43° 34' 29.47" W 85° 42' 58.18" 01 W	L	920.0	117.60	HIC	Disabled
Restriction:		Bearing [True]: 19.0° to 89.0° Bearing [Mag]: 20.0° to 90.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 269.0° to 289.0° Bearing [Mag]: 270.0° to 290.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
8	PLN	N 45° 37' 50.33" W 84° 39' 50.79" 06 W	L	835.3	111.80	PLN	Disabled
9	MNM	N 45° 10' 48.58" W 87° 38' 49.83" 00 E	L	650.1	109.60	MNM	Disabled
10	CTW	N 40° 13' 45.15" W 81° 28' 35.32" 07 W	L	1180.0	111.80	CTW	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
11	JFN	N 41° 45' 36.42" W 80° 44' 53.20" 05 W	L	896.3	115.20	JFN	Disabled
Restriction:		Bearing [True]: 226.0° to 255.0° Bearing [Mag]: 231.0° to 260.0°			Distance: Beyond 30.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 121.0° to 185.0° Bearing [Mag]: 126.0° to 190.0°			Distance: Beyond 20.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 186.0° to 225.0° Bearing [Mag]: 191.0° to 230.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 80.0° to 120.0° Bearing [Mag]: 85.0° to 125.0°			Distance: Beyond 35.0 NM Altitude: Below 3500.0 ft		
12	TVT	N 40° 27' 29.04" W 82° 7' 36.52" 03 W	L	1330.4	116.50	TVT	Disabled
13	BDF	N 41° 9' 35.03" W 89° 35' 16.34" 00 E	H	810.0	114.70	BDF	Disabled
14	DNV	N 40° 17' 37.56" W 87° 33' 26.14" 02 E	L	698.8	111.00	DNV	Disabled
15	EON	N 41° 16' 10.68" W 87° 47' 27.79" 02 E	L	688.7	113.20	EON	Disabled
16	PLL	N 41° 57' 56.31" W 89° 31' 27.19" 03 E	L	840.0	111.20	PLL	Disabled
17	PNT	N 40° 49' 16.32" W 88° 44' 0.63" 03 E	L	680.0	109.60	PNT	Disabled
18	RBS	N 40° 34' 54.13" W 88° 9' 51.36" 02 E	L	780.0	116.80	RBS	Disabled
19	SAM	N 38° 29' 6.68" W 88° 5' 8.90" 03 E	L	540.0	116.60	SAM	Disabled
20	UIN	N 39° 50' 52.35" W 91° 16' 44.13" 05 E	H	715.1	113.60	UIN	Disabled
21	VLA	N 39° 5' 37.82" W 89° 9' 44.08" 04 E	L	605.5	114.30	VLA	Disabled
22	BVT	N 40° 33' 22.22" W 87° 4' 9.75" 01 E	H	752.2	115.10	BVT	Disabled
Restriction:		Bearing [True]: 299.0° to 45.0° Bearing [Mag]: 298.0° to 44.0°			Distance: Beyond 0.0 NM Altitude: Below 2800.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
23	GSH	N 41° 31' 30.56" W 86° 1' 40.63" 00 E	H	851.8	113.70	GSH	Disabled
Restriction:		Bearing [True]: 71.0° to 129.0° Bearing [Mag]: 71.0° to 129.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
24	ECB	N 38° 9' 30.11" W 82° 54' 36.20" 02 W	L	1070.0	110.40	ECB	Disabled
25	EWO	N 37° 37' 54.52" W 85° 40' 33.16" 01 E	L	960.0	110.80	EWO	Disabled
26	FLM	N 38° 38' 57.99" W 84° 18' 38.17" 04 W	H	808.5	117.00	FLM	Disabled
27	YRK	N 38° 38' 38.88" W 82° 58' 42.02" 05 W	L	1040.0	112.80	YRK	Disabled
28	BRD	N 46° 20' 53.81" W 94° 1' 33.54" 03 E	H	1253.9	116.90	BRD	Disabled
Restriction:		Bearing [True]: 3.0° to 3.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 29.0 NM Altitude: Below 3000.0 ft		
29	DWN	N 45° 5' 14.87" W 94° 27' 13.86" 07 E	L	1130.0	109.00	DWN	Disabled
30	HML	N 48° 52' 9.07" W 97° 7' 4.45" 09 E	H	797.4	112.40	HML	Disabled
Restriction:		Bearing [True]: 84.0° to 94.0° Bearing [Mag]: 75.0° to 85.0°			Distance: Beyond 0.0 NM Altitude: Below 10000.0 ft		
Restriction:		Bearing [True]: 95.0° to 263.0° Bearing [Mag]: 86.0° to 254.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 264.0° to 279.0° Bearing [Mag]: 255.0° to 270.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 280.0° to 83.0° Bearing [Mag]: 271.0° to 74.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
31	ODI	N 43° 54' 44.38" W 91° 28' 3.06" 01 E	H	1282.2	117.90	ODI	Disabled
32	RST	N 43° 46' 58.45" W 92° 35' 49.06" 05 E	L	1393.0	112.00	RST	Disabled
33	CMK	N 41° 16' 48.32" W 73° 34' 52.77" 12 W	L	693.8	116.60	CMK	Disabled
34	DNY	N 42° 10' 41.81" W 74° 57' 24.99" 11 W	L	2560.0	112.10	DNY	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
35	GFL	N 43° 20' 30.09" W 73° 36' 42.32" 14 W	L	323.7	110.20	GFL	Disabled
Restriction:		Bearing [True]: 346.0° to 346.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 0.0 NM Altitude: Below 9000.0 ft		
36	GGT	N 42° 47' 20.24" W 75° 49' 36.29" 11 W	L	2040.0	117.80	GGT	Disabled
37	HNK	N 42° 3' 47.00" W 75° 18' 58.62" 11 W	H	2070.0	116.80	HNK	Disabled
38	HUO	N 41° 24' 34.87" W 74° 35' 29.74" 11 W	H	1300.3	116.10	HUO	Disabled
39	LGA	N 40° 47' 1.38" W 73° 52' 6.96" 12 W	L	8.9	113.10	LGA	Disabled
Restriction:		Bearing [True]: 233.0° to 268.0° Bearing [Mag]: 245.0° to 280.0°			Distance: Beyond 25.0 NM Altitude: Below 6000.0 ft		
40	HTO	N 40° 55' 8.38" W 72° 19' 0.14" 13 W	H	22.0	113.60	HTO	Disabled
Restriction:		Bearing [True]: 267.0° to 312.0° Bearing [Mag]: 280.0° to 325.0°			Distance: Beyond 35.0 NM Altitude: Below 1700.0 ft		
Restriction:		Bearing [True]: 312.0° to 342.0° Bearing [Mag]: 325.0° to 355.0°			Distance: Beyond 30.0 NM Altitude: Below 2000.0 ft		
41	MSS	N 44° 54' 51.92" W 74° 43' 21.78" 14 W	H	197.5	114.10	MSS	Disabled
42	PWL	N 41° 46' 11.18" W 73° 36' 1.99" 12 W	L	1250.0	114.30	PWL	Disabled
43	RKA	N 42° 27' 58.91" W 75° 14' 21.51" 11 W	L	2027.2	112.60	RKA	Disabled
44	SLK	N 44° 23' 4.41" W 74° 12' 16.21" 14 W	L	1646.8	109.20	SLK	Disabled
45	UCA	N 43° 1' 35.45" W 75° 9' 52.28" 12 W	L	1420.0	111.20	UCA	Disabled
46	ULW	N 42° 5' 39.16" W 77° 1' 28.53" 12 W	L	1631.8	109.65	ULW	Disabled
47	CRI	N 40° 36' 44.90" W 73° 53' 40.00" 11 W	T	10.0	112.30	CRI	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
48	AGC	N 40° 16' 43.12" W 80° 2' 27.08" 09 W	L	1284.6	110.00	AGC	Disabled
49	BFD	N 41° 47' 10.99" W 78° 37' 9.65" 07 W	L	2110.6	116.60	BFD	Disabled
50	CIP	N 41° 8' 46.66" W 79° 27' 28.71" 06 W	L	1519.5	112.90	CIP	Disabled
51	ETG	N 41° 12' 53.82" W 78° 8' 33.92" 10 W	H	2250.0	116.00	ETG	Disabled
52	FJC	N 40° 43' 36.12" W 75° 27' 17.12" 10 W	L	680.6	117.50	FJC	Disabled
Restriction:		Bearing [True]: 290.0° to 50.0° Bearing [Mag]: 300.0° to 60.0°			Distance: Beyond 26.0 NM Altitude: Below 4500.0 ft		
Restriction:		Bearing [True]: 51.0° to 289.0° Bearing [Mag]: 61.0° to 299.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
53	FQM	N 41° 20' 18.81" W 76° 46' 29.52" 09 W	L	2098.0	114.40	FQM	Disabled
54	IHD	N 39° 58' 27.27" W 79° 21' 30.12" 06 W	L	2820.0	108.20	IHD	Disabled
55	LVZ	N 41° 16' 22.09" W 75° 41' 22.08" 10 W	L	2118.8	111.60	LVZ	Disabled
56	MIP	N 41° 1' 24.21" W 76° 39' 55.04" 09 W	L	1000.0	109.20	MIP	Disabled
57	MXE	N 39° 55' 5.00" W 75° 40' 14.91" 09 W	L	473.4	113.20	MXE	Disabled
58	REC	N 40° 32' 47.25" W 78° 44' 49.28" 09 W	L	2340.0	110.60	REC	Disabled
59	SFK	N 41° 41' 42.91" W 77° 25' 11.66" 08 W	L	1984.7	108.60	SFK	Disabled
60	SLT	N 41° 30' 45.93" W 77° 58' 12.39" 08 W	H	2310.0	113.90	SLT	Disabled

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
61	TDT	N 41° 42' 46.91" W 79° 25' 2.17" 09 W	L	1710.0	117.60	TDT	Disabled
Restriction:		Bearing [True]: 32.0° to 42.0° Bearing [Mag]: 41.0° to 51.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
Restriction:		Bearing [True]: 296.0° to 331.0° Bearing [Mag]: 305.0° to 340.0°			Distance: Beyond 24.0 NM Altitude: Below 3500.0 ft		
Restriction:		Bearing [True]: 331.0° to 356.0° Bearing [Mag]: 340.0° to 5.0°			Distance: Beyond 24.0 NM Altitude: Below 5000.0 ft		
62	THS	N 39° 55' 59.62" W 77° 57' 3.40" 07 W	L	2338.0	115.00	THS	Disabled
63	AUW	N 44° 50' 48.40" W 89° 35' 11.68" 02 E	L	1204.7	111.60	AUW	Disabled
Restriction:		Bearing [True]: 322.0° to 302.0° Bearing [Mag]: 320.0° to 300.0°			Distance: Beyond 30.0 NM Altitude: Below 3000.0 ft		
Restriction:		Bearing [True]: 302.0° to 322.0° Bearing [Mag]: 300.0° to 320.0°			Distance: Beyond 30.0 NM Altitude: Below 4000.0 ft		
64	JVL	N 42° 33' 28.83" W 89° 6' 18.93" 03 E	L	931.4	114.30	JVL	Disabled
65	LNR	N 43° 17' 39.85" W 90° 7' 59.33" 00 E	L	1184.6	112.80	LNR	Disabled
66	STE	N 44° 32' 35.69" W 89° 31' 50.02" 01 W	L	1110.0	110.60	STE	Disabled
Restriction:		Bearing [True]: 359.0° to 359.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 35.0 NM Altitude: Below 3000.0 ft		
67	CKB	N 39° 15' 11.57" W 80° 16' 4.32" 04 W	L	1425.7	112.60	CKB	Disabled
68	ESL	N 39° 13' 31.77" W 78° 59' 22.20" 06 W	L	2590.0	110.80	ESL	Disabled
69	HNN	N 38° 45' 14.85" W 82° 1' 34.20" 03 W	H	880.0	115.90	HNN	Disabled
70	GRV	N 39° 38' 6.11" W 79° 3' 1.90" 06 W	L	2640.0	112.30	GRV	Disabled
Restriction:		Bearing [True]: 301.0° to 64.0° Bearing [Mag]: 307.0° to 70.0°			Distance: Beyond 20.0 NM Altitude: Below 5000.0 ft		
Restriction:		Bearing [True]: 65.0° to 300.0° Bearing [Mag]: 71.0° to 306.0°			Distance: Beyond 20.0 NM Altitude: Below 6000.0 ft		
Restriction:		Bearing [True]: 102.0° to 107.0° Bearing [Mag]: 108.0° to 113.0°			Distance: Beyond 38.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 319.0° to 339.0° Bearing [Mag]: 325.0° to 345.0°			Distance: Beyond 35.0 NM Altitude: Below 99999.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
71	CRL	N 42° 2' 52.90" W 83° 27' 27.30" 03 W	H	629.0	115.70	CRL	Used
		ESV:	Bearing [True]: 259.0° to 268.0° Bearing [Mag]: 262.0° to 271.0°		Arc Distance: Out to 103.0 NM Altitude: 10000.0 to 16000.0 ft		
		ESV:	Bearing [True]: 293.0° to 359.0° Bearing [Mag]: 296.0° to 2.0°		Arc Distance: Out to 102.0 NM Altitude: 8500.0 to 16000.0 ft		
		ESV:	Bearing [True]: 65.0° to 98.0° Bearing [Mag]: 68.0° to 101.0°		Arc Distance: Out to 64.0 NM Altitude: 4000.0 to 16000.0 ft		
72	FWA	N 40° 58' 44.63" W 85° 11' 17.01" 06 W	H	792.6	117.80	FWA	Used
		Restriction:	Bearing [True]: 55.0° to 65.0° Bearing [Mag]: 61.0° to 71.0°		Distance: Beyond 0.0 NM Altitude: Below 7000.0 ft		
		Restriction:	Bearing [True]: 354.0° to 354.0° Bearing [Mag]: 360.0° to 360.0°		Distance: Beyond 33.0 NM Altitude: Below 2800.0 ft		
		Restriction:	Bearing [True]: 170.0° to 210.0° Bearing [Mag]: 176.0° to 216.0°		Distance: Beyond 22.0 NM Altitude: Below 4000.0 ft		
		Restriction:	Bearing [True]: 260.0° to 290.0° Bearing [Mag]: 266.0° to 296.0°		Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
		ESV:	Bearing [True]: 306.0° to 359.0° Bearing [Mag]: 312.0° to 5.0°		Arc Distance: Out to 101.0 NM Altitude: 10000.0 to 20000.0 ft		
73	VWV	N 41° 27' 5.35" W 83° 38' 19.30" 02 W	L	664.2	113.10	VWV	Used
		ESV:	Bearing [True]: 283.0° to 324.0° Bearing [Mag]: 285.0° to 326.0°		Arc Distance: Out to 85.0 NM Altitude: 10000.0 to 20000.0 ft		
		ESV:	Bearing [True]: 50.0° to 71.0° Bearing [Mag]: 52.0° to 73.0°		Arc Distance: Out to 78.0 NM Altitude: 6700.0 to 20000.0 ft		
74	PSI	N 42° 42' 3.09" W 83° 31' 57.98" 03 W	L	1149.3	111.00	PSI	Used
		Restriction:	Bearing [True]: 167.0° to 207.0° Bearing [Mag]: 170.0° to 210.0°		Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
		ESV:	Bearing [True]: 125.0° to 167.0° Bearing [Mag]: 128.0° to 170.0°		Arc Distance: Out to 80.0 NM Altitude: 7400.0 to 11000.0 ft		
75	SVM	N 42° 24' 31.09" W 83° 35' 38.05" 03 W	L	955.8	114.30	SVM	Used
		ESV:	Bearing [True]: 223.0° to 252.0° Bearing [Mag]: 226.0° to 255.0°		Arc Distance: Out to 81.0 NM Altitude: 10000.0 to 17000.0 ft		
		ESV:	Bearing [True]: 89.0° to 117.0° Bearing [Mag]: 92.0° to 120.0°		Arc Distance: Out to 73.0 NM Altitude: 6200.0 to 20000.0 ft		

User Data (Continued)					Return To Summary		
User DMEs (Continued)							
#	Name	Lat/Lon/MAGVAR	Range	Elevation [ft]	Frequency	Replaces	Status
76	MFD	N 40° 52' 7.00" W 82° 35' 27.46" 03 W	L	1222.0	108.80	MFD	Used
Restriction:		Bearing [True]: 72.0° to 92.0° Bearing [Mag]: 75.0° to 95.0°			Distance: Beyond 0.0 NM Altitude: Below 99999.0 ft		
Restriction:		Bearing [True]: 148.0° to 211.0° Bearing [Mag]: 151.0° to 214.0°			Distance: Beyond 30.0 NM Altitude: Below 99999.0 ft		
ESV:		Bearing [True]: 325.0° to 43.0° Bearing [Mag]: 328.0° to 46.0°			Arc Distance: Out to 80.0 NM Altitude: 6400.0 to 20000.0 ft		
77	ACO	N 41° 6' 28.45" W 81° 12' 5.49" 04 W	L	1198.4	114.40	ACO	Not Used
ESV:		Bearing [True]: 303.0° to 321.0° Bearing [Mag]: 307.0° to 325.0°			Arc Distance: Out to 82.0 NM Altitude: 7700.0 to 11000.0 ft		
78	DXO	N 42° 12' 47.29" W 83° 22' 0.00" 06 W	H	637.7	113.40	DXO	Used
Restriction:		Bearing [True]: 354.0° to 354.0° Bearing [Mag]: 360.0° to 360.0°			Distance: Beyond 30.0 NM Altitude: Below 2900.0 ft		
ESV:		Bearing [True]: 279.0° to 333.0° Bearing [Mag]: 285.0° to 339.0°			Arc Distance: Out to 106.0 NM Altitude: 9700.0 to 20000.0 ft		
79	OKK	N 40° 31' 40.01" W 86° 3' 28.79" 05 W	H	825.8	113.50	OKK	Used
Restriction:		Bearing [True]: 171.0° to 229.0° Bearing [Mag]: 176.0° to 234.0°			Distance: Beyond 35.0 NM Altitude: Below 2400.0 ft		
ESV:		Bearing [True]: 356.0° to 50.0° Bearing [Mag]: 1.0° to 55.0°			Arc Distance: Out to 101.0 NM Altitude: 9900.0 to 20000.0 ft		
80	OBK	N 42° 13' 16.96" W 87° 57' 5.83" 02 W	H	707.0	113.00	OBK	Not Used
ESV:		Bearing [True]: 87.0° to 97.0° Bearing [Mag]: 89.0° to 99.0°			Arc Distance: Out to 103.0 NM Altitude: 10000.0 to 20000.0 ft		
81	OXI	N 41° 19' 19.35" W 86° 38' 57.45" 00 E	H	690.0	115.60	OXI	Used
ESV:		Bearing [True]: 360.0° to 138.0° Bearing [Mag]: 360.0° to 138.0°			Arc Distance: Out to 106.0 NM Altitude: 10000.0 to 20000.0 ft		
82	CXR	N 41° 31' 0.94" W 81° 9' 47.47" 05 W	H	1317.2	112.70	CXR	Used
ESV:		Bearing [True]: 298.0° to 343.0° Bearing [Mag]: 303.0° to 348.0°			Arc Distance: Out to 73.0 NM Altitude: 6200.0 to 16000.0 ft		