

**ALAN MABRY** Name:

**Project Name:** KDAL WESAT RNAV STAR

**Output File:** KDAL WESAT STAR

FAWNT\_MOTZA 20141119\_1204

**Procedure Name: WESAT** 

> RNAV-Pro™ Software:

Version: 2.37

Date/Time: 11/19/2014 12:06:31 PM

Input File:

KDAL WESAT STAR FAWNT\_MOTZA 20141119\_1142.txt

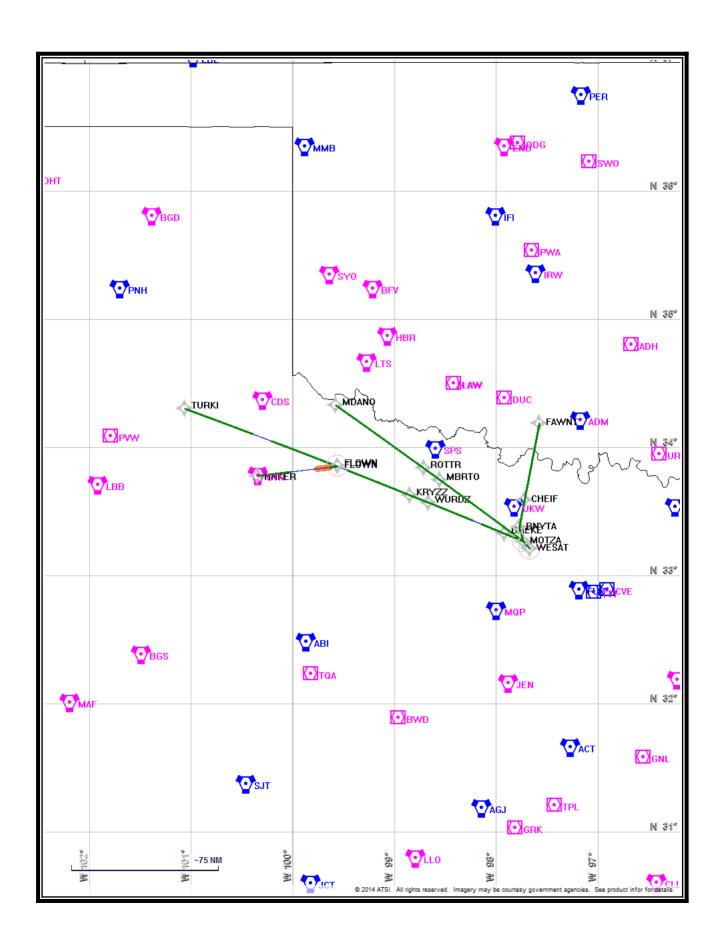
Databases: AVNIS Date: 11/18/2014

CIFP Date: 8/21/2014

DTED® (MAX) Date: 2002

## **Results Summary: Please Check Flyability Results Flyability** DME/DME **No Critical DMEs Exist** Radars Comms **TERPS**

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Flight P	lan		Return To Summary						
Name	Туре	Type Lat/Lon		Type Lat/Lon Alt [Ft] VNAV Mode		IAS [Kts]	Turn Type	Leg Type	
FAWNT_	WP	N 34° 11' 16.53" W 97° 34' 27.69"	10000.0	Step	180.0	Fly By	TF		
CHEIF	WP	N 33° 35' 9.75" W 97° 43' 15.70"	10000.0	Step	180.0	Fly By	TF		
BNYTA	WP	N 33° 22' 25.34" W 97° 46' 22.43"	10000.0	Step	180.0	Fly By	TF		
MOTZA	WP	N 33° 15' 58.12" W 97° 44' 0.12"	5000.0	Step	180.0	Fly Over	TF		

Flyability		Return To Summary
Settings:	Flight Type: Arrival Selected Airport: KDAL Aircraft Category: Cat D Climb Gradient: None assigned 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: None assigned Descent During a Turn: Allowed VNAV Mode: Flight Plan	
Aircraft ALTITUDE	at Fly-Over WP MOTZA too high.	

## DME/DME Return To Summary

**RNP:** 2.0

Flight Mode: Manual

Settings: 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, and User

DME Include Angles: 30 to 150

Critical DMEs: Allowed
DoD Facilities: Not included
Foreign Facilities: Not included
Low & Terminal DMEs: Included
Flight Check DMEs: Selected
Higher Altitudes: Evaluated

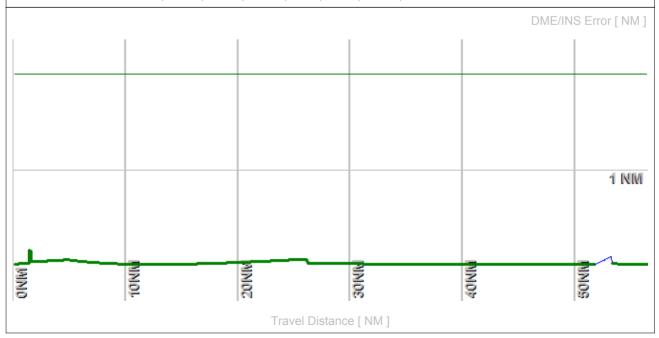
Near Maximum Altitude: Evaluated

**Total Number of DMEs Used: 7** 

Maximum DME Error: 0.386 NM.

No Critical DMEs were found.

Available DMEs: IRW, DUC, ADM, UKW, TTT, CVE, MQP, FUZ



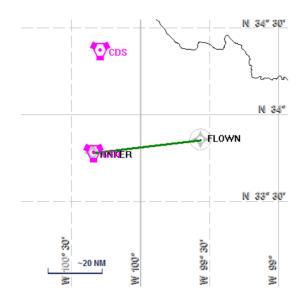
#### **DME/DME (Continued.) Return To Summary** DMEs Used Lat/Lon/MAGVAR Name Critical Err. [NM] Time Range Source Status **Distance** IRW N 35° 21' 30.95" NO 2.5 % 1 H+ User 0.444 Enabled 2.6 % W 97° 36' 33.22" **ESV ADM** N 34° 12' 41.71" User NO 0.913 77.7 % 77.7 % H+ Enabled W 97° 10' 5.62" **ESV** E 6 N 34° 23' 3.68" W 97° 55' 0.99" DUC 1.053 User NO Enabled 43.9 % 43.9 % **ESV** N 33° 32' 9.19" W 97° 49' 16.60" UKW 14.1 % 14.1 % User NO 0.386 H + **Enabled ESV** N 32° 52' 8.98" W 97° 2' 25.81" TTT User NO 0.386 Enabled 11.9 % 11.9 % **ESV** N 32° 53' 25.12" **CVE** User NO 0.386 Enabled 39.0 % 39.1 % W 96° 54' 14.27" **ESV** MQP N 32° 43' 34.25" User NO 0.466 Enabled 5.6 % 5.6 % W 97° 59' 50.79" **ESV** Flight Check DME Selection Distance [NM] Selected DMEs **Alternate** 0.0 **ADM** DUC **IRW** UKW 10.1 **ADM** DUC TTT **UKW** CVE CVE 36.8 **ADM** UKW TTT **ADM** CVE FUZ 49.2 TTT UKW **MQP** Inertial Drift Segments **Start Location End Location** Length [NM] 1 N 33° 20' 25.14" W 97° 45' 38.30" N 33° 19' 2.17" W 97° 45' 7.78" 1.4 Available from N 33° 20' 25.14" W 97° 45' 38.30" to N 33° 19' 2.17" W 97° 45' 7.78" VOR: FUZ Available from N 33° 20' 25.14" W 97° 45' 38.30" VOR: MQP to N 33° 19' 2.17" W 97° 45' 7.78" Available from N 33° 20' 25.14" W 97° 45' 38.30" VOR: UKW to N 33° 19' 2.17" W 97° 45' 7.78"

D	ME/DN	/IE (Cor	ntinued.)	Re	turn To	Summary				
Us	ser DME	s								
#	Name	Lat/Lon	/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status		
1	IRW		N 35° 21' 30.95" W 97° 36' 33.22" E 7		1230.0	114.10	IRW	Used		
		ESV:	Bearing [True] Bearing [Mag]	: 63.0° to 1 : 56.0° to 1	82.0° 75.0°		ce: Out to 90.0 00.0 to 16000			
2	CVE		3' 25.12" 4' 14.27"	Н	450.0	116.20	CVE	Used		
		ESV:	Bearing [True] Bearing [Mag]	: 238.0° to : 232.0° to	335.0° 329.0°		e: Out to 53.0 00.0 to 16000			
		ESV:	Bearing [True] Bearing [Mag]	: 238.0° to : 232.0° to	335.0° 329.0°		e: Out to 65.0 00.0 to 16000			
3	TTT	N 32° 52 W 97° 2 E 6		Н	540.0	113.10	TTT	Used		
ESV:			Bearing [True] Bearing [Mag]	: 277.0° to : 271.0° to	343.0° 337.0°		ce: Out to 53.0 00.0 to 16000			
		ESV:	Bearing [True] Bearing [Mag]	: 277.0° to : 271.0° to	343.0° 337.0°		ce: Out to 65.0 00.0 to 16000			
4	UKW	N 33° 33 W 97° 4 E 6	2' 9.19" 9' 16.60"	Н	1101.9	112.40	UKW	Used		
		ESV:	Bearing [True] Bearing [Mag]	: 118.0° to : 112.0° to	152.0° 146.0°		ce: Out to 53.0 00.0 to 16000			
		ESV:	Bearing [True]: 4.0° to 20.0° Bearing [Mag]: 358.0° to 14.0°				Arc Distance: Out to 92.0 NM Altitude: 9900.0 to 16000.0 Ft.			
5	DUC	N 34° 2: W 97° 5 E 9		L	1089.4	111.00	DUC	Used		
		ESV:	Bearing [True] Bearing [Mag]	: 153.0° to : 144.0° to	172.0° 163.0°		ce: Out to 64.0 00.0 to 20000			
		ESV:	Bearing [True] Bearing [Mag]	: 195.0° to : 186.0° to	272.0° 263.0°		e: Out to 85.0 00.0 to 20000			
6	MLC		0' 57.99" 6' 56.44"	L	781.9	112.00	MLC	Not Used		
		ESV:	Bearing [True] Bearing [Mag]	: 265.0° to : 257.0° to	352.0° 344.0°		e: Out to 67.0 00.0 to 20000			
7	URH		6' 39.07" 3' 30.61"	L	680.7	114.30	URH	Not Used		
	1	Restriction:	Bearing [True] Bearing [Mag]	: 212.0° to : 207.0° to	245.0° 240.0°		seyond 35.0 N slow 2500.0 Ft			
		Restriction:	Bearing [True] Bearing [Mag]	: 340.0° to : 335.0° to	355.0° 350.0°		seyond 35.0 N slow 2500.0 Ft			
		ESV:	Bearing [True] Bearing [Mag]	: 346.0° to : 341.0° to	6.0° 1.0°		e: Out to 100. 000.0 to 2000			

DI	ME/DME	E (Cor	ntinued.)	Re	Return To Summary					
Us	er DMEs	(Conti	nued.)							
#	# Name Lat/Lon/MAGVAR		n/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status		
8	JEN	N 32° 9 W 97° 5 E 6	' 34.52" 52' 39.65"	L	1300.0	115.00	JEN	Not Used		
		ESV:	Bearing [True] Bearing [Mag]	: 32.0° to 4 : 26.0° to 3	42.0° 86.0°		e: Out to 65.0 00.0 to 16000			
9	OKM		1' 35.15" 51' 57.53"	Н	766.0	114.90	OKM	Not Used		
		ESV:	Bearing [True] Bearing [Mag]	: 234.0° to : 226.0° to	247.0° 239.0°		e: Out to 100. 00.0 to 20000			
10	ADM		2' 41.71"  0' 5.62"	Н	936.8	116.70	ADM	Used		
	Re	estriction:	Bearing [True] Bearing [Mag]	: 322.0° to : 316.0° to	332.0° 326.0°	Distance: E Altitude: Be	seyond 0.0 NM slow 4000.0 Ft			
ESV:			Bearing [True] Bearing [Mag]	: 207.0° to : 201.0° to	286.0° 280.0°		e: Out to 100. 00.0 to 20000	•		
11	HBR		1' 59.60" 3' 48.19"	L	1471.9	111.80	HBR	Not Used		
	Re	estriction:	Bearing [True] Bearing [Mag]	Bearing [True]: 90.0° to 100.0° Bearing [Mag]: 80.0° to 90.0°			eyond 25.0 N low 4500.0 Ft			
	Re	estriction:	Bearing [True] Bearing [Mag]	: 110.0° to : 100.0° to	122.0° Distance: Beyond 25.0 NM Altitude: Below 4500.0 Ft.			M		
	Re	estriction:	Bearing [True] Bearing [Mag]	ng [True]: 250.0° to 280.0° Distance: Beyond 2 ng [Mag]: 240.0° to 270.0° Altitude: Below 450			seyond 25.0 N slow 4500.0 Ft	M		
		ESV:	Bearing [True] Bearing [Mag]	: 153.0° to : 143.0° to	221.0° 211.0°	Arc Distance: Out to 71.0 NM Altitude: 9900.0 to 20000.0 Ft.				
12	BFV		4' 13.00"  2' 22.20"	L	1780.0	110.00	BFV	Not Used		
		ESV:	Bearing [True] Bearing [Mag]	: 157.0° to : 149.0° to	201.0° 193.0°		Arc Distance: Out to 89.0 NM Altitude: 9900.0 to 20000.0 Ft.			
13	13 SYO N 35° 20 W 99° 38 E 10		0' 42.58" 38' 7.25"	L	1990.0	115.20	SYO	Not Used		
	Re	estriction:	Bearing [True] Bearing [Mag]	: 66.0° to 9 : 56.0° to 8	96.0° 86.0°		seyond 15.0 N slow 6000.0 Ft			
ESV:			Bearing [True] Bearing [Mag]	Bearing [True]: 182.0° to 225.0° Bearing [Mag]: 172.0° to 215.0°			e: Out to 90.0 000.0 to 2000			
14	PVW	N 34° 5 W 101° E 11	' 10.29" 47' 24.67"	L	3400.0	112.90	PVW	Not Used		
		ESV:	Bearing [True] Bearing [Mag]	: 65.0° to 8 : 54.0° to 7	39.0° ′8.0°		ce: Out to 65.0 000.0 to 2200			

DI	ME/DME	(Cor	ntinued.)	Re	Return To Summary					
Us	User DMEs (Continued.)									
#	Name	Lat/Lon	/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status		
15	LBB		2' 17.82" 54' 50.44"	L	3310.0	109.20	LBB	Not Used		
ESV: Bearing [True]: 46.0° to 63.0° Bearing [Mag]: 35.0° to 52.0°						e: Out to 65.0 00.0 to 22000				
16	GTH		6' 41.80" 20' 10.31"	L	1940.0	114.50	GTH	Not Used		
		ESV:	Bearing [True] Bearing [Mag]	: 305.0° to : 295.0° to	324.0° 314.0°		Arc Distance: Out to 51.0 NM Altitude: 9900.0 to 20000.0 Ft.			
17	SPS		9' 14.23" 5' 36.50"	Н	1133.1	112.70	SPS	Not Used		
		ESV:	Bearing [True] Bearing [Mag]	: 258.0° to : 248.0° to	274.0° 264.0°		e: Out to 89.0 00.0 to 16000			
18	MQP		3' 34.25" 9' 50.79"	Н	900.0	117.70	MQP	Used		
		ESV:	Bearing [True] Bearing [Mag]	Bearing [True]: 0.0° to 20.0° Bearing [Mag]: 351.0° to 11.0°			Arc Distance: Out to 45.0 NM Altitude: 4000.0 to 16000.0 Ft.			
		ESV:	Bearing [True]: 308.0° to 333.0° Bearing [Mag]: 299.0° to 324.0°				Arc Distance: Out to 100.0 NM Altitude: 10000.0 to 20000.0 Ft.			

DMEs Re	lative to W	Return To Summary					
Waypoint Before	Waypoint After	DME List					
FAWNT_	CHEIF	ADM CVE DUC IRW TTT	UKW				
CHEIF	BNYTA	ADM CVE TTT UKW	ADM CVE TTT UKW				
BNYTA	MOTZA	ADM CVE FUZ MQP TTT	UKW				



Name: ALAN MABRY

**Project Name:** KDAL WESAT RNAV STAR

**Output File:** KDAL WESAT STAR

HNKER FLOWN 20141119\_1238

**Procedure Name: WESAT** 

> RNAV-Pro™ Software:

Version: 2.37

Date/Time: 11/19/2014 12:38:45 PM

Input File:

KDAL WESAT STAR HNKER FLOWN 20141119\_1233.txt

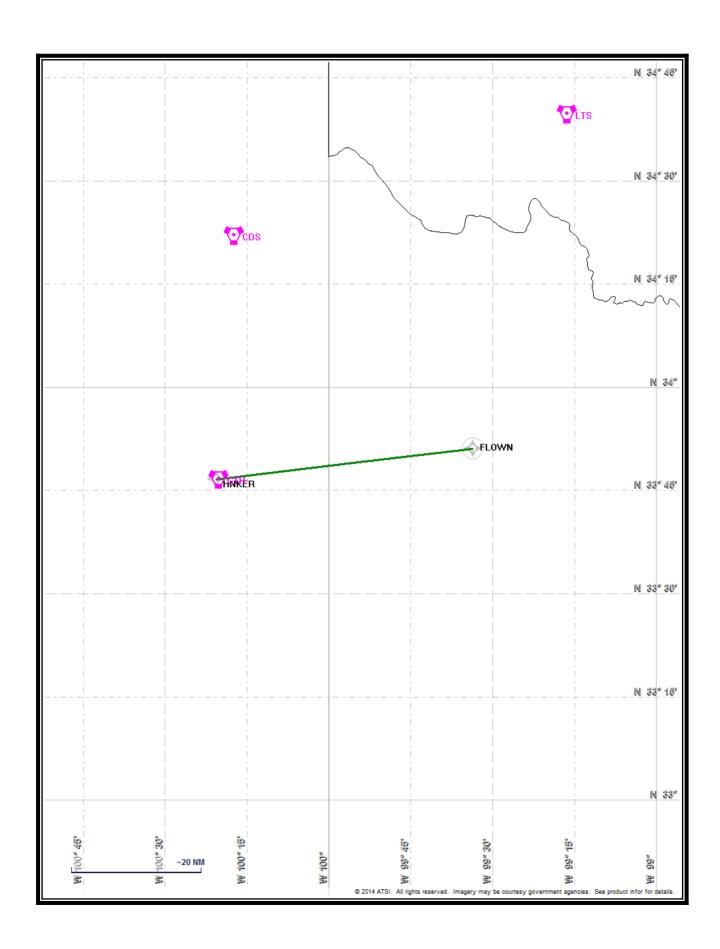
Databases: AVNIS Date: 11/18/2014

CIFP Date: 8/21/2014

DTED® (MAX) Date: 2002

Results Sumn	nary:
Flyability	
DME/DME	No Critical DMEs Exist
Radars	?
Comms	?
TERPS	?

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Flight P	lan		Return To Summary				
Name	Туре	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
HNKER	WP	N 33° 46' 35.42" W 100° 20' 40.46"	10000.0	Step	180.0	Fly By	TF
FLOWN	WP	N 33° 51' 3.38" W 99° 33' 35.48"	10000.0	Step	180.0	Fly Over	TF

Entire track is fly-able

Flyability		Return To Summary
Settings:	Flight Type: Selected Airport: KDAL Aircraft Category: Cat D Climb Gradient: None assigned 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: None assigned  Descent During a Turn: Allowed  VNAV Mode: Flight Plan	

### DME/DME Return To Summary

**RNP**: 2.0

Flight Mode: Manual

Settings: 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, and User

**DME Include Angles:** 30 to 150

Critical DMEs: Allowed
DoD Facilities: Not included
Foreign Facilities: Not included
Low & Terminal DMEs: Included
Flight Check DMEs: Selected
Higher Altitudes: Evaluated

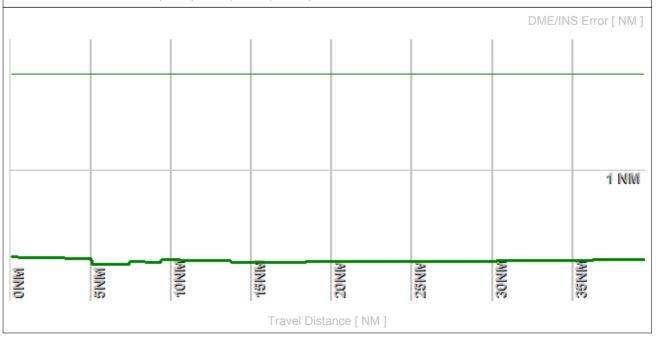
Near Maximum Altitude: Evaluated

**Total Number of DMEs Used: 4** 

Maximum DME Error: 0.336 NM.

No Critical DMEs were found.

Available DMEs: SPS, ABI, CDS, GTH, HBR, BFV



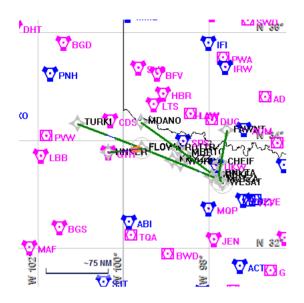
DI	DME/DME (Continued.) Return To Summary														
DMEs Used															
#	Name	Lat/	Lon/MA	GVAR	Rang	nge Source		Critical	Eı	Err. [NM]		Status Time		е	Distance
1	SPS		3° 59' 14 8° 35' 36 0		H + ESV	User		NO	0.	760	Eı	nabled	29.0	%	28.9 %
2	ABI		2° 28' 52 9° 51' 48 0		H+ ESV	User		NO	1.	075	Eı	nabled	88.9	%	88.9 %
3	CDS		4° 22' 8.0 00° 17' 2 0		L	Datab	ase	NO	0.	336	Eı	nabled	11.1	%	11.1 %
4	GTH	N 33° 46' 41.80" W 100° 20' 10.31' E 10			L + ESV	User		NO	0.	925	Eı	nabled	71.0	%	71.1 %
Fli	Flight Check DME Selection														
Dist	ance [NM]		Sel	ected DM	Es										Alternate
0.0	0.0			ABI	GTH			SPS		CDS					
29.3				ABI		GTH I		HBR		BFV					
Us	er DME	Es													
#	Name		Lat/Lor	n/MAGVAR	2	Range	Elev	ation [Ft]	Frequency		y Replaces:		Status		
1	IRW			1' 30.95" 36' 33.22"			1230.0		1	114.10 IRW		IRW	Not Used		
			ESV:	Bearing [ Bearing [	True]: Mag]:	63.0° to 1 56.0° to 1	82.0° 75.0°			Arc Dista Altitude:					
2	CVE			3' 25.12" 54' 14.27"		Н	450.	.0 116.20		16.20	CVE		Not	Not Used	
	ESV: Bearing Bearing			Bearing [ Bearing [	True]: Mag]:	238.0° to 3 232.0° to 3	335.0 329.0	0		Arc Distance: Out to 53.0 NM Altitude: 3000.0 to 16000.0 Ft.					
	ESV: Bear Bear		Bearing [ Bearing [	True]: Mag]:	238.0° to 3 232.0° to 3	335.0 329.0	0				nce: Out to 65.0 NN 500.0 to 16000.0 F				
3	TTT		N 32° 5 W 97° 2 E 6	2' 25.81"		Н	540.		1	13.10		TTT		Not	Used
ESV: Bearing Bearing			Bearing [ Bearing [	True]: Mag]:	e]: 277.0° to 343.0° ]: 271.0° to 337.0°				Arc Distance: Out to 53.0 NM Altitude: 3000.0 to 16000.0 Ft.						
			ESV:	Bearing [ Bearing [	True]: Mag]:	277.0° to 3 271.0° to 3	343.0 337.0	0		Arc Dista Altitude:					

#### **DME/DME (Continued.) Return To Summary** User DMEs (Continued.) Lat/Lon/MAGVAR Elevation [Ft] Name Range Frequency Replaces: Status N 33° 32' 9.19" UKW **UKW** Н 1101.9 112.40 Not Used W 97° 49' 16.60" E 6 Bearing [True]: 118.0° to 152.0° Bearing [Mag]: 112.0° to 146.0° FSV: Arc Distance: Out to 53.0 NM Altitude: 3000.0 to 16000.0 Ft. Bearing [True]: 4.0° to 20.0° Bearing [Mag]: 358.0° to 14.0° ESV: Arc Distance: Out to 92.0 NM Altitude: 9900.0 to 16000.0 Ft. N 34° 23' 3.68" W 97° 55' 0.99" DUC DUC 1089.4 111.00 Not Used Bearing [True]: 153.0° to 172.0° Bearing [Mag]: 144.0° to 163.0° FSV: Arc Distance: Out to 64.0 NM Altitude: 4900.0 to 20000.0 Ft. Bearing [True]: 195.0° to 272.0° Bearing [Mag]: 186.0° to 263.0° Arc Distance: Out to 85.0 NM ESV: Altitude: 9900.0 to 20000.0 Ft. N 34° 50' 57.99" MLC 781.9 112.00 MLC Not Used W 95° 46' 56.44" Bearing [True]: 265.0° to 352.0° Bearing [Mag]: 257.0° to 344.0° ESV: Arc Distance: Out to 67.0 NM Altitude: 9900.0 to 20000.0 Ft. N 33° 56' 39.07" URH 114.30 URH Not Used 680.7 W 96° 23' 30.61" E 5 Bearing [True]: 212.0° to 245.0° Bearing [Mag]: 207.0° to 240.0° Restriction: Distance: Beyond 35.0 NM Altitude: Below 2500.0 Ft. Bearing [True]: 340.0° to 355.0° Bearing [Mag]: 335.0° to 350.0° Restriction: Distance: Beyond 35.0 NM Altitude: Below 2500.0 Ft. Bearing [True]: 346.0° to 6.0° Bearing [Mag]: 341.0° to 1.0° ESV: Arc Distance: Out to 100.0 NM Altitude: 10000.0 to 20000.0 Ft. N 32° 9' 34.52" **JEN** 1300.0 115.00 **JEN** Not Used W 97° 52' 39.65" Bearing [True]: 32.0° to 42.0° Bearing [Mag]: 26.0° to 36.0° ESV: Arc Distance: Out to 65.0 NM Altitude: 3000.0 to 16000.0 Ft. N 35° 41' 35.15" 766.0 OKM Not Used **OKM** 114.90 W 95° 51' 57.53" E 8 Bearing [True]: 234.0° to 247.0° Bearing [Mag]: 226.0° to 239.0° ESV: Arc Distance: Out to 100.0 NM Altitude: 9900.0 to 20000.0 Ft. N 34° 12' 41.71" W 97° 10' 5.62" **ADM ADM** Not Used 10 Н 936.8 116.70 F 6 Bearing [True]: 322.0° to 332.0° Bearing [Mag]: 316.0° to 326.0° Restriction: Distance: Beyond 0.0 NM Altitude: Below 4000.0 Ft. Bearing [True]: 207.0° to 286.0° Bearing [Mag]: 201.0° to 280.0° ESV: Arc Distance: Out to 100.0 NM Altitude: 8000.0 to 20000.0 Ft.

#### **DME/DME (Continued.) Return To Summary** User DMEs (Continued.) Lat/Lon/MAGVAR Elevation [Ft] Name Range Frequency Replaces: Status N 34° 51' 59.60" 11 **HBR** L 1471.9 111.80 **HBR** Not Used W 99° 3' 48.19" E 10 Bearing [True]: 90.0° to 100.0° Bearing [Mag]: 80.0° to 90.0° Restriction: Distance: Beyond 25.0 NM Altitude: Below 4500.0 Ft. Bearing [True]: 110.0° to 122.0° Bearing [Mag]: 100.0° to 112.0° Distance: Beyond 25.0 NM Restriction: Altitude: Below 4500.0 Ft. Bearing [True]: 250.0° to 280.0° Bearing [Mag]: 240.0° to 270.0° Restriction: Distance: Beyond 25.0 NM Altitude: Below 4500.0 Ft. Bearing [True]: 153.0° to 221.0° Bearing [Mag]: 143.0° to 211.0° ESV: Arc Distance: Out to 71.0 NM Altitude: 9900.0 to 20000.0 Ft. BFV 12 BFV N 35° 14' 13.00" 1780.0 110.00 Not Used W 99° 12' 22.20" F 8 Bearing [True]: 157.0° to 201.0° Bearing [Mag]: 149.0° to 193.0° Arc Distance: Out to 89.0 NM ESV: Altitude: 9900.0 to 20000.0 Ft. N 35° 20' 42.58" W 99° 38' 7.25" 13 SYO 1990.0 115.20 SYO Not Used F 10 Bearing [True]: 66.0° to 96.0° Bearing [Mag]: 56.0° to 86.0° Restriction: Distance: Beyond 15.0 NM Altitude: Below 6000.0 Ft. Bearing [True]: 182.0° to 225.0° Bearing [Mag]: 172.0° to 215.0° ESV: Arc Distance: Out to 90.0 NM Altitude: 10000.0 to 20000.0 Ft. **PVW** N 34° 5' 10.29" 3400.0 **PVW** Not Used 112.90 W 101° 47' 24.67" F 11 Bearing [True]: 65.0° to 89.0° Bearing [Mag]: 54.0° to 78.0° Arc Distance: Out to 65.0 NM ESV: Altitude: 10000.0 to 22000.0 Ft. N 33° 42' 17.82" 15 LBB 3310.0 109.20 **LBB** Not Used W 101° 54' 50.44" E 11 Bearing [True]: 46.0° to 63.0° Bearing [Mag]: 35.0° to 52.0° ESV: Arc Distance: Out to 65.0 NM Altitude: 9900.0 to 22000.0 Ft. **GTH** N 33° 46' 41.80" 1940.0 **GTH** Used 16 114.50 W 100° 20' 10.31" E 10 Bearing [True]: 305.0° to 324.0° Bearing [Mag]: 295.0° to 314.0° ESV: Arc Distance: Out to 51.0 NM Altitude: 9900.0 to 20000.0 Ft. SPS N 33° 59' 14.23" **SPS** 17 1133.1 112.70 Used W 98° 35' 36.50" E 10 Bearing [True]: 258.0° to 274.0° Bearing [Mag]: 248.0° to 264.0° ESV: Arc Distance: Out to 89.0 NM Altitude: 9900.0 to 16000.0 Ft.

DI	ME/DME	(Cor	ntinued.)	Re	Return To Summary					
Us	User DMEs (Continued.)									
#	Name	Lat/Lor	/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status		
18	MQP		3' 34.25" 59' 50.79"	Н	900.0	117.70	MQP	Not Used		
	ESV: Bearing [True] Bearing [Mag]				).0° 11.0°		Arc Distance: Out to 45.0 NM Altitude: 4000.0 to 16000.0 Ft.			
		ESV:	Bearing [True] Bearing [Mag]	: 308.0° to : 299.0° to	333.0° 324.0°		Arc Distance: Out to 100.0 NM Altitude: 10000.0 to 20000.0 Ft.			
19	19 ABI N 32° 28' 52.78" W 99° 51' 48.45" E 10		Н	1810.0	113.70	ABI	Used			
ESV: Bearing [Tru Bearing [Ma			Bearing [True] Bearing [Mag]	: 313.0° to : 303.0° to	77.0° 67.0°		Arc Distance: Out to 91.0 NM Altitude: 9000.0 to 18000.0 Ft.			

DMEs Re	lative to Wa	Return To Summary				
Waypoint Before	Waypoint After	DME List				
HNKER	FLOWN	ABI BFV CDS GTH HBR SPS				



Name: ALAN MABRY

**Project Name:** KDAL WESAT RNAV STAR

**Output File:** KDAL WESAT STAR

> MDANO MOTZA 20141119\_1204

**Procedure Name: WESAT** 

> Software: RNAV-Pro™

Version: 2.37

Date/Time: 11/19/2014 12:06:12 PM

KDAL WESAT STAR MDANO MOTZA Input File:

20141119\_1141.txt

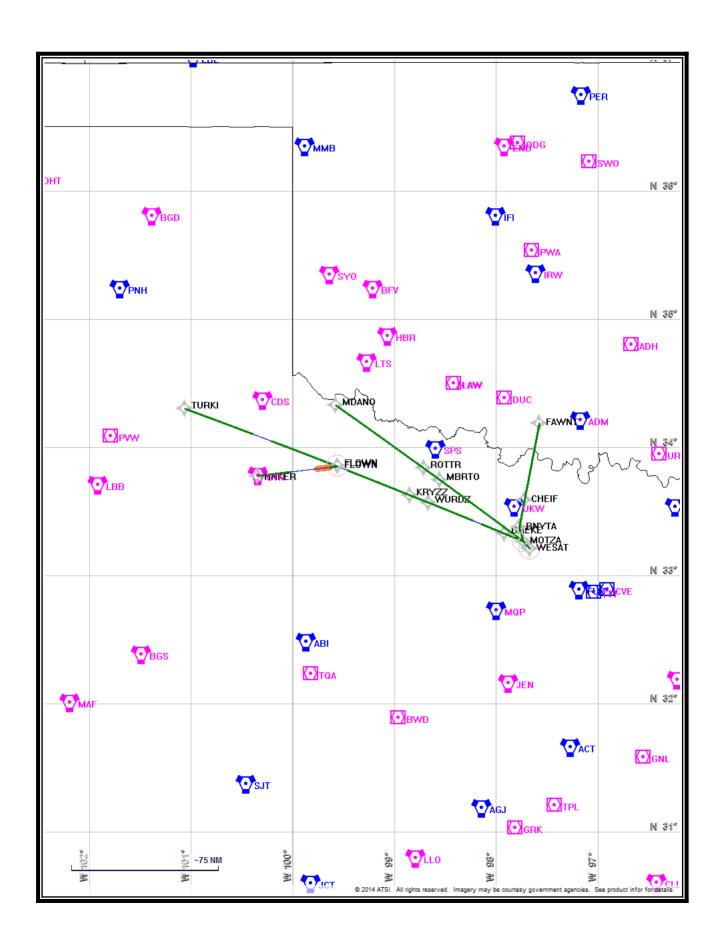
Databases: AVNIS Date: 11/18/2014

CIFP Date: 8/21/2014

DTED® (MAX) Date: 2002

Results Summary:							
Flyability							
DME/DME	No Critical DMEs Exist						
Radars	?						
Comms	?						
TERPS	?						

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Flight F	Plan		Return To Summary				
Name	Туре	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
MDANO	WP	N 34° 19' 39.92" W 99° 34' 36.83"	10000.0	Step	180.0	Fly By	TF
ROTTR	WP	N 33° 50' 14.19" W 98° 42' 48.34"	10000.0	Step	180.0	Fly By	TF
MBRTO	WP	N 33° 44' 42.83" W 98° 33' 10.42"	10000.0	Step	180.0	Fly By	TF
MOTZA	WP	N 33° 15' 58.12" W 97° 44' 0.12"	5000.0	Step	180.0	Fly Over	TF

Flyability		Return To Summary
Settings:	Flight Type: Arrival Selected Airport: KDAL Aircraft Category: Cat D Climb Gradient: None assigned 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: None assigned Descent During a Turn: Allowed VNAV Mode: Flight Plan	
Entire track is fly-al	ole	

## DME/DME Return To Summary

**RNP**: 2.0

Flight Mode: Manual

Settings: 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, and User

**DME Include Angles:** 30 to 150

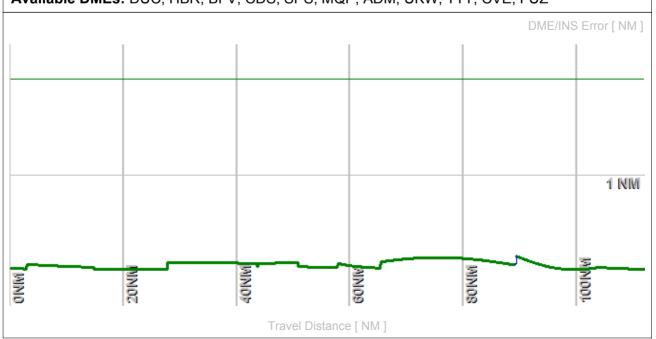
Critical DMEs: Allowed
DoD Facilities: Not included
Foreign Facilities: Not included
Low & Terminal DMEs: Included
Flight Check DMEs: Selected
Higher Altitudes: Evaluated

Near Maximum Altitude: Evaluated

**Total Number of DMEs Used:** 10 Maximum DME Error: 0.380 NM.

No Critical DMEs were found.

Available DMEs: DUC, HBR, BFV, CDS, SPS, MQP, ADM, UKW, TTT, CVE, FUZ



#### **DME/DME (Continued.) Return To Summary** DMEs Used Time Name Lat/Lon/MAGVAR Critical Err. [NM] Range Source **Status Distance** BFV N 35° 14' 13.00" 33.7 % 33.7 % 1 L+ User NO 0.380 Enabled W 99° 12' 22.20" **ESV** F 8 CDS N 34° 22' 8.63" L NO 0.380 2.6 % 2.5 % Database Enabled W 100° 17' 20.50" E 10 N 34° 23' 3.68" 10.7 % DUC 0.758 10.7 % User NO Enabled W 97° 55' 0.99" ĒSV N 34° 51' 59.60" W 99° 3' 48.19" **HBR** User NO 0.470 Enabled 17.8 % 17.8 % **ESV** E 10 N 33° 59' 14.23" W 98° 35' 36.50" SPS User NO 1.389 Enabled 39.5 % 39.6 % **ESV** N 34° 12' 41.71" W 97° 10' 5.62" **ADM** User NO 0.452 Enabled 33.5 % 33.5 % **ESV** MQP N 32° 43' 34.25" User NO 0.389 Enabled 7.2 % 7.2 % W 97° 59' 50.79" **ESV** N 33° 32' 9.19" W 97° 49' 16.60" UKW H + User NO 1.502 Enabled 34.1 % 34.1 % ESV N 32° 52' 8.98" W 97° 2' 25.81" TTT User NO 0.544 **Enabled** 9.2 % 9.2 % H +ESV N 32° 53' 25.12" W 96° 54' 14.27" **CVE** NO 0.380 11.0 % 10 User **Enabled** 11.0 % H + **ESV** Flight Check DME Selection Distance [NM] Selected DMEs **Alternate** BFV 0.0 DUC **CDS HBR BFV** DUC 10.1 **SPS** HBR **ADM MQP** 36.1 **BFV** DUC **MQP HBR ADM SPS** 52.1 **SPS** DUC **ADM HBR** 61.8 **SPS** DUC **ADM UKW**

**CVE** 

TTT

UKW

**FUZ** 

MQP

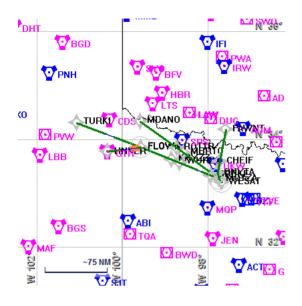
89.4

#### **DME/DME (Continued.) Return To Summary** Inertial Drift Segments **Start Location End Location** Length [NM] N 33° 29' 7.19" W 98° 6' 21.55" N 33° 28' 57.63" W 98° 6' 5.21" 0.3 1 Available from N 33° 29' 7.19" W 98° 6' 21.55" to N 33° 28' 57.63" W 98° 6' 5.21" VOR: SPS Available from N 33° 29' 7.19" W 98° 6' 21.55" to N 33° 28' 57.63" W 98° 6' 5.21" VOR: UKW **User DMEs** Name Lat/Lon/MAGVAR Range **Elevation [Ft]** Frequency Replaces: **Status** N 35° 21' 30.95" W 97° 36' 33.22" **IRW** 1230.0 114.10 **IRW** Not Used Bearing [True]: 63.0° to 182.0° Bearing [Mag]: 56.0° to 175.0° ESV: Arc Distance: Out to 90.0 NM Altitude: 8300.0 to 16000.0 Ft. N 32° 53' 25.12" CVE 450.0 116.20 **CVE** Used W 96° 54' 14.27" Bearing [True]: 238.0° to 335.0° Bearing [Mag]: 232.0° to 329.0° ESV: Arc Distance: Out to 53.0 NM Altitude: 3000.0 to 16000.0 Ft. Bearing [True]: 238.0° to 335.0° Bearing [Mag]: 232.0° to 329.0° ESV: Arc Distance: Out to 65.0 NM Altitude: 3500.0 to 16000.0 Ft. N 32° 52' 8.98" W 97° 2' 25.81" TTT 3 TTT 540.0 113 10 Used E 6 Bearing [True]: 277.0° to 343.0° Bearing [Mag]: 271.0° to 337.0° ESV: Arc Distance: Out to 53.0 NM Altitude: 3000.0 to 16000.0 Ft. Bearing [True]: 277.0° to 343.0° Bearing [Mag]: 271.0° to 337.0° ESV: Arc Distance: Out to 65.0 NM Altitude: 3600.0 to 16000.0 Ft. N 33° 32' 9.19" W 97° 49' 16.60" UKW 1101.9 112.40 UKW Used E 6 Bearing [True]: 118.0° to 152.0° Bearing [Mag]: 112.0° to 146.0° ESV: Arc Distance: Out to 53.0 NM Altitude: 3000.0 to 16000.0 Ft. Bearing [True]: 4.0° to 20.0° ESV: Arc Distance: Out to 92.0 NM Bearing [Mag]: 358.0° to 14.0° Altitude: 9900.0 to 16000.0 Ft. N 34° 23' 3.68" W 97° 55' 0.99" DUC 1089.4 111.00 DUC Used E 9 Bearing [True]: 153.0° to 172.0° Bearing [Mag]: 144.0° to 163.0° ESV: Arc Distance: Out to 64.0 NM Altitude: 4900.0 to 20000.0 Ft. Bearing [True]: 195.0° to 272.0° Bearing [Mag]: 186.0° to 263.0° ESV: Arc Distance: Out to 85.0 NM Altitude: 9900.0 to 20000.0 Ft. N 34° 50' 57.99" MLC 781.9 112.00 MLC Not Used W 95° 46' 56.44" E 8 Bearing [True]: 265.0° to 352.0° Bearing [Mag]: 257.0° to 344.0° ESV: Arc Distance: Out to 67.0 NM Altitude: 9900.0 to 20000.0 Ft.

DI	DME/DME (Continued.)  Return To Summary									
Us	er DMEs	(Conti	nued.)							
#	Name	Lat/Lon	/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status		
7	URH		6' 39.07" '3' 30.61"	L	680.7	114.30	URH	Not Used		
	Res	striction:	Bearing [True] Bearing [Mag]	: 212.0° to : 207.0° to	245.0° 240.0°		eyond 35.0 NI low 2500.0 Ft			
	Res	striction:	Bearing [True] Bearing [Mag]	: 340.0° to : 335.0° to	355.0° 350.0°	Distance: B Altitude: Be	eyond 35.0 Ni low 2500.0 Ft	M		
		ESV:	Bearing [True] Bearing [Mag]	: 346.0° to : 341.0° to	6.0° 1.0°		e: Out to 100. 000.0 to 2000			
8	JEN	N 32° 9' W 97° 5 E 6	34.52" 32' 39.65"	L	1300.0	115.00	JEN	Not Used		
ESV:			Bearing [True] Bearing [Mag]	: 32.0° to 4 : 26.0° to 3	2.0° 6.0°		e: Out to 65.0 00.0 to 16000			
9	OKM		1' 35.15" 1' 57.53"	Н	766.0	114.90	OKM	Not Used		
		ESV:	Bearing [True] Bearing [Mag]				e: Out to 100. 00.0 to 20000			
10	ADM	N 34° 1 W 97° 1 E 6	2' 41.71" 0' 5.62"	Н	936.8	116.70	ADM	Used		
	Res	striction:	Bearing [True] Bearing [Mag]	: 322.0° to : 316.0° to	2.0° to 332.0° Distance: Beyond 0.0 NM Altitude: Below 4000.0 Ft.					
		ESV:	Bearing [True] Bearing [Mag]	: 207.0° to : 201.0° to	286.0° 280.0°		Arc Distance: Out to 100.0 NM Altitude: 8000.0 to 20000.0 Ft.			
11	HBR	N 34° 5 W 99° 3 E 10	1' 59.60" '' 48.19"	L	1471.9	111.80	HBR	Used		
	Res	striction:	Bearing [True] Bearing [Mag]	: 90.0° to 1 : 80.0° to 9	00.0° 0.0°	Distance: B Altitude: Be	eyond 25.0 NI low 4500.0 Ft	M		
	Res	striction:	Bearing [True] Bearing [Mag]	: 110.0° to : 100.0° to	122.0° 112.0°		eyond 25.0 Nl low 4500.0 Ft			
	Res	striction:	Bearing [True] Bearing [Mag]	: 250.0° to : 240.0° to	280.0° 270.0°		eyond 25.0 Nl low 4500.0 Ft			
		Bearing [True] Bearing [Mag]	: 153.0° to : 143.0° to	221.0° 211.0°		e: Out to 71.0 00.0 to 20000				
12	BFV		4' 13.00" 2' 22.20"	L	1780.0	110.00	BFV	Used		
		ESV:	Bearing [True] Bearing [Mag]	: 157.0° to : 149.0° to	201.0° 193.0°		e: Out to 89.0 00.0 to 20000			

DI	ME/DME	(Cor	ntinued.)		Re	Return To Summary			
Us	er DMEs (	Conti	nued.)						
#	Name	Lat/Lon	/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status	
13	SYO	N 35° 20 W 99° 3 E 10	0' 42.58" '8' 7.25"	L	1990.0	115.20	SYO	Not Used	
	Res	striction:	Bearing [True] Bearing [Mag]	: 66.0° to 9 : 56.0° to 8	6.0° 6.0°	Distance: B Altitude: Be	eyond 15.0 N low 6000.0 Ft	M	
		ESV:	Bearing [True] Bearing [Mag]	: 182.0° to : 172.0° to	225.0° 215.0°		e: Out to 90.0 000.0 to 2000		
			10.29" 47' 24.67"	L	3400.0	112.90	PVW	Not Used	
ESV:			Bearing [True] Bearing [Mag]	: 65.0° to 8 : 54.0° to 7	9.0° 8.0°		Arc Distance: Out to 65.0 NM Altitude: 10000.0 to 22000.0 Ft.		
15	LBB	N 33° 4 W 101° E 11	2' 17.82" 54' 50.44"	L,	3310.0	109.20	LBB	Not Used	
		ESV:	Bearing [True] Bearing [Mag]	Bearing [True]: 46.0° to 63.0° Bearing [Mag]: 35.0° to 52.0°			Arc Distance: Out to 65.0 NM Altitude: 9900.0 to 22000.0 Ft.		
16	GTH		6' 41.80" 20' 10.31"	L	1940.0	114.50	GTH	Not Used	
		ESV:	Bearing [True] Bearing [Mag]	: 305.0° to : 295.0° to	324.0° 314.0°		Arc Distance: Out to 51.0 NM Altitude: 9900.0 to 20000.0 Ft.		
17	SPS		9' 14.23" 5' 36.50"	Н	1133.1	112.70	SPS	Used	
		ESV:	Bearing [True] Bearing [Mag]	: 258.0° to : 248.0° to	274.0° 264.0°		e: Out to 89.0 00.0 to 16000		
18	MQP		3' 34.25" 9' 50.79"	Н	900.0	117.70	MQP	Used	
		ESV:	Bearing [True] Bearing [Mag]	: 0.0° to 20 : 351.0° to	0.0° 11.0°	Arc Distance: Out to 45.0 NM Altitude: 4000.0 to 16000.0 Ft.			
		ESV:	Bearing [True] Bearing [Mag]	: 308.0° to : 299.0° to	333.0° 324.0°		Arc Distance: Out to 100.0 NM Altitude: 10000.0 to 20000.0 Ft.		

DMEs Re	elative to W	Return To Summary	
Waypoint Before	Waypoint After	DME List	
MDANO	ROTTR	ADM BFV CDS DUC HBR	MQP SPS
ROTTR	MBRTO	ADM DUC HBR SPS	
MBRTO	MOTZA	ADM CVE DUC FUZ MQP	SPS TTT UKW



**ALAN MABRY** Name:

**Project Name:** KDAL WESAT RNAV STAR

KDAL WESAT STAR **Output File:** 

TURKI WESAT 20141119 1204

**Procedure Name: WESAT** 

> Software: RNAV-Pro™

Version: 2.37

Date/Time: 11/19/2014 12:05:34 PM

KDAL WESAT STAR TURKI WESAT Input File:

20141119 1140.txt

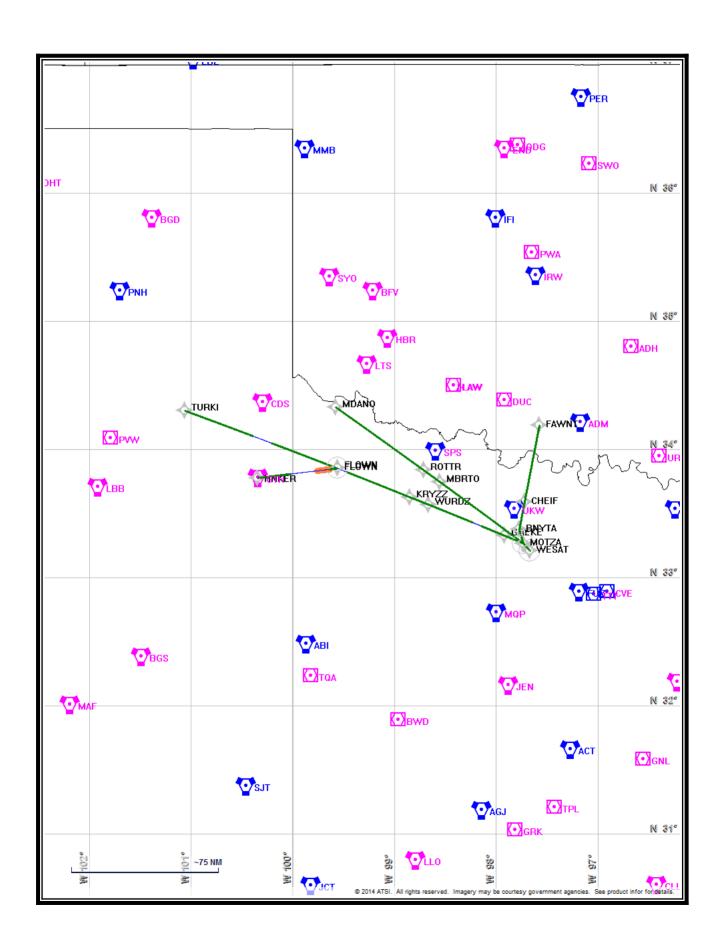
Databases: AVNIS Date: 11/18/2014

CIFP Date: 8/21/2014

DTED® (MAX) Date: 2002

# **Results Summary: Flyability** DME/DME **No Critical DMEs Exist** Radars Comms **TERPS**

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Flight P	lan		Return To Summary				
Name	Type	Lat/Lon	Alt [Ft]	VNAV Mode	IAS [Kts]	Turn Type	Leg Type
TURKI	WP	N 34° 18' 3.33" W 101° 3' 39.02"	10000.0	Step	180.0	Fly By	TF
FLOWN	WP	N 33° 51' 3.38" W 99° 33' 35.48"	10000.0	Step	180.0	Fly By	TF
KRYZZ	WP	N 33° 37' 34.48" W 98° 50' 54.99"	10000.0	Step	180.0	Fly By	TF
WURDZ	WP	N 33° 34' 4.78" W 98° 39' 41.79"	10000.0	Step	180.0	Fly By	TF
GREKE	WP	N 33° 19' 36.44" W 97° 55' 7.07"	10000.0	Step	180.0	Fly By	TF
MOTZA	WP	N 33° 15' 58.12" W 97° 44' 0.12"	5000.0	Step	180.0	Fly By	TF
WESAT	WP	N 33° 12' 21.84" W 97° 39' 51.75"	4000.0	Step	180.0	Fly Over	TF

Entire track is fly-able

Flyability		Return To Summary
Settings:	Flight Type: Arrival Selected Airport: KDAL Aircraft Category: Cat D Climb Gradient: None assigned 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: None assigned Descent During a Turn: Allowed VNAV Mode: Flight Plan	

### DME/DME

### **Return To Summary**

**RNP:** 2.0

Flight Mode: Manual

Settings: 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, and User

DME Include Angles: 30 to 150

Critical DMEs: Allowed
DoD Facilities: Not included
Foreign Facilities: Not included
Low & Terminal DMEs: Included
Flight Check DMEs: Selected
Higher Altitudes: Evaluated

Near Maximum Altitude: Evaluated

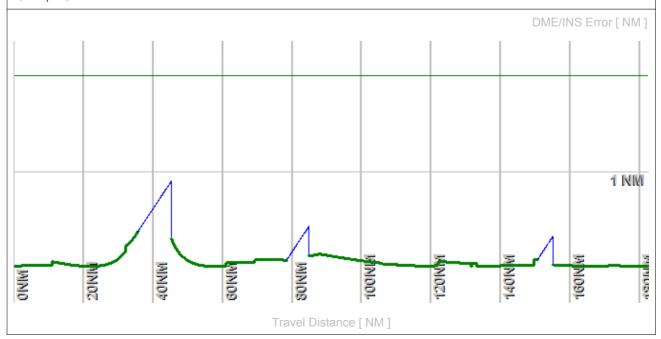
**Total Number of DMEs Used: 13** 

Maximum DME Error: 0.930 NM.

No Critical DMEs were found.

Available DMEs: PVW, LBB, GTH, CDS, SYO, SPS, BFV, HBR, MQP, DUC, ADM, UKW, TTT,

CVE, FUZ



#### **DME/DME (Continued.) Return To Summary** DMEs Used Lat/Lon/MAGVAR Name Range Source Critical Err. [NM] **Status** Time **Distance** N 33° 42' 17.82" 1 LBB User NO 0.930 Enabled 6.0 % 6.0 % W 101° 54' 50.44" **ESV** E 11 **GTH** N 33° 46' 41.80" NO 1.394 29.1 % 29.0 % User Enabled W 100° 20' 10.31" ESV E 10 N 34° 22' 8.63" CDS NO 1.268 Enabled 20.3 % 20.3 % Database W 100° 17' 20.50" N 35° 20' 42.58" W 99° 38' 7.25" SYO User NO 0.946 Enabled 6.3 % 6.3 % **ESV** E 10 N 33° 59' 14.23" W 98° 35' 36.50" SPS User NO 0.930 Enabled 20.3 % 20.3 % **ESV BFV** N 35° 14' 13.00" User NO 0.930 Enabled 5.0 % 5.0 % W 99° 12' 22.20" **ESV HBR** N 34° 51' 59.60" NO 0.930 Enabled 1.5 % 1.5 % User W 99° 3' 48.19" **ESV** E 10 N 32° 43' 34.25" 8 **MQP** User NO 1.103 Enabled 32.7 % 32.7 % W 97° 59' 50.79" ESV N 34° 23' 3.68" W 97° 55' 0.99" DUC User NO 0.930 **Enabled** 16.8 % 16.8 % ESV F 9 N 34° 12' 41.71" W 97° 10' 5.62" 12.7 % 12.7 % 10 **ADM** NO 0.930 **Enabled** H + User **ESV** N 33° 32' 9.19" W 97° 49' 16.60" UKW NO 0.930 **Enabled** 11.8 % 11.8 % 11 H +User **ESV** N 32° 52' 8.98" W 97° 2' 25.81" 12 TTT User NO 0.930 Enabled 8.3 % 8.3 % **ESV** 13 **CVE** N 32° 53' 25.12" User NO 0.930 Enabled 6.7 % 6.7 % W 96° 54' 14.27" **ESV** Flight Check DME Selection Distance [NM] Selected DMEs **Alternate** 0.0 **GTH** LBB **CDS PVW** 20.9 **GTH** SYO **CDS PVW** 53.7 **GTH** SYO **CDS SPS BFV HBR BFV** SPS 69.3 **GTH HBR** 79.5 MQP DUC **HBR SPS ADM BFV** MQP 117.5 DUC ADM SPS SPS 127.5 MQP DUC UKW ADM

MQP

MQP

MQP

TTT

TTT

TTT

ADM

**ADM** 

**FUZ** 

**CVE** 

**CVE** 

**CVE** 

UKW

UKW

UKW

**FUZ** 

155.1

167.6

177.0

DI	ME/DME	(Cor	ntinued.)	Re	Return To Summary				
Ine	ertial Drift	Segm	ents						
#	Start Location	n			End Location			Length [NM]	
1	N 34° 6' 8.31'	' W 100° 2	23' 19.24"		N 34° 2' 50.16" W	100° 12' 18.60'	"	9.7	
	VOR: CDS	3		Avai	lable from N 34° 6' 8 to N 34° 2' 5	8.31" W 100° 2 50.16" W 100° <i>1</i>			
	VOR: GTI	1		Avai	lable from N 34° 6' 6 to N 34° 2' 5	8.31" W 100° 2 50.16" W 100° <i>1</i>			
2	N 33° 51' 26.	75" W 99°	34' 51.43"		N 33° 49' 12.47" W	/ 99° 27' 40.28'	"	6.4	
	VOR: GTH	4		Availa	able from N 33° 51' : to N 33° 50'	26.75" W 99° 3 41.57" W 99° 3			
3	N 33° 25' 44.0	00" W 98°	13' 51.15"		N 33° 24' 8.47" W	98° 8' 57.90"		4.4	
	VOR: SPS Available from N 33° 25' 44.00" W 98° 13' 51.15" to N 33° 24' 49.61" W 98° 11' 4.09"								
	VOR: UKW Available from N 33° 25' 44.00" W 98° 13' 51.15" to N 33° 24' 8.47" W 98° 8' 57.90"								
Us	er DMEs								
#	Name	Lat/Lon	/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status	
1	IRW		1' 30.95" 6' 33.22"	Н	1230.0	114.10	IRW	Not Used	
		ESV:	Bearing [True] Bearing [Mag]	: 63.0° to : 56.0° to	182.0° 175.0°		Arc Distance: Out to 90.0 NM Altitude: 8300.0 to 16000.0 Ft.		
2	CVE		3' 25.12" 4' 14.27"	Н	450.0	116.20	CVE	Used	
		ESV:	Bearing [True] Bearing [Mag]	: 238.0° t : 232.0° t	to 335.0° o 329.0°		e: Out to 53.0 00.0 to 16000		
	ESV: Bearing [True]: 238.0° Bearing [Mag]: 232.0°				to 335.0° o 329.0°		e: Out to 65.0 00.0 to 16000		
3	3 TTT N 32° 52' 8.98" H W 97° 2' 25.81" E 6				540.0	113.10	TTT	Used	
	ESV: Bearing [True]: 277.0° Bearing [Mag]: 271.0° t				to 343.0° o 337.0°		Arc Distance: Out to 53.0 NM Altitude: 3000.0 to 16000.0 Ft.		
		ESV:	Bearing [True] Bearing [Mag]	: 277.0° t : 271.0° t	to 343.0° o 337.0°		Arc Distance: Out to 65.0 NM Altitude: 3600.0 to 16000.0 Ft.		

DME/DME (Continued.)  Return To Summ							Summary		
Us	er DMEs (	Conti	nued.)			_			
#	Name	Lat/Lon	/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status	
4	UKW	N 33° 33 W 97° 4 E 6	2' 9.19" 9' 16.60"	Н	1101.9	112.40	UKW	Used	
		ESV:	Bearing [True]: 118.0° to 152.0° Bearing [Mag]: 112.0° to 146.0°				ce: Out to 53.0 00.0 to 16000		
		ESV:	Bearing [True] Bearing [Mag]:	: 4.0° to 20 : 358.0° to	0.0° 14.0°		ce: Out to 92.0 00.0 to 16000		
5	DUC	N 34° 2° W 97° 5 E 9		L	1089.4	111.00	DUC	Used	
		ESV:	Bearing [True] Bearing [Mag]:	: 153.0° to : 144.0° to	172.0° 163.0°		ce: Out to 64.0 00.0 to 20000		
		ESV:	Bearing [True] Bearing [Mag]:	: 195.0° to : 186.0° to	272.0° 263.0°		ce: Out to 85.0 00.0 to 20000		
6	MLC		0' 57.99" 6' 56.44"	L	781.9	112.00	MLC	Not Used	
		ESV:	Bearing [True]: 265.0° to 352.0° Bearing [Mag]: 257.0° to 344.0°				ce: Out to 67.0 00.0 to 20000		
7	URH		6' 39.07" '3' 30.61"	L	680.7	114.30	URH	Not Used	
	Res	striction:	Bearing [True] Bearing [Mag]:	: 212.0° to : 207.0° to	245.0° 240.0°	Distance: Be	Distance: Beyond 35.0 NM Altitude: Below 2500.0 Ft.		
	Res	striction:	Bearing [True] Bearing [Mag]:	: 340.0° to : 335.0° to	355.0° 350.0°	Distance: Beyond 35.0 NM Altitude: Below 2500.0 Ft.			
		ESV:	Bearing [True] Bearing [Mag]:	: 346.0° to : 341.0° to	6.0° 1.0°	Arc Distance: Out to 100.0 NM Altitude: 10000.0 to 20000.0 Ft.			
8	JEN	N 32° 9' W 97° 5 E 6	34.52" 2' 39.65"	L	1300.0	115.00	JEN	Not Used	
		ESV:	Bearing [True] Bearing [Mag]:	: 32.0° to 4 : 26.0° to 3	2.0° 6.0°		ce: Out to 65.0 00.0 to 16000		
9	OKM		1' 35.15" 1' 57.53"	Н	766.0	114.90	OKM	Not Used	
		ESV:	Bearing [True] Bearing [Mag]:	: 234.0° to : 226.0° to	247.0° 239.0°		ce: Out to 100. 00.0 to 20000		
10	ADM	N 34° 1; W 97° 1 E 6	2' 41.71" 0' 5.62"	Н	936.8	116.70	ADM	Used	
	Res	striction:	Bearing [True]: 322.0° to 332.0° Bearing [Mag]: 316.0° to 326.0°				Distance: Beyond 0.0 NM Altitude: Below 4000.0 Ft.		
		ESV:	Bearing [True] Bearing [Mag]:	: 207.0° to : 201.0° to	286.0° 280.0°		ce: Out to 100. 00.0 to 20000		

DI	DME/DME (Continued.) Return To Summary										
Us	er DMEs	(Conti	nued.)			'					
#	Name	Lat/Lor	/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status			
11	HBR		1' 59.60" 3' 48.19"	L	1471.9	111.80	HBR	Used			
	Res	striction:	Bearing [True] Bearing [Mag]	: 90.0° to 1 : 80.0° to 9	00.0° 0.0°	Distance: B Altitude: Be	eyond 25.0 N low 4500.0 Ft	M			
	Res	striction:	Bearing [True] Bearing [Mag]	: 110.0° to : 100.0° to	122.0° 112.0°	Distance: B Altitude: Be	eyond 25.0 N low 4500.0 Ft	M			
	Res	striction:	Bearing [True] Bearing [Mag]	: 250.0° to : 240.0° to	280.0° 270.0°		eyond 25.0 N low 4500.0 Ft				
		ESV:	Bearing [True] Bearing [Mag]	: 153.0° to : 143.0° to	221.0° 211.0°		e: Out to 71.0 00.0 to 20000				
12	BFV		4' 13.00"  2' 22.20"	L	1780.0	110.00	BFV	Used			
		ESV:	Bearing [True] Bearing [Mag]	: 157.0° to : 149.0° to	201.0° 193.0°		e: Out to 89.0 00.0 to 20000				
13	SYO		0' 42.58" 38' 7.25"	L	1990.0	115.20	SYO	Used			
	Res	striction:	Bearing [True] Bearing [Mag]	Bearing [True]: 66.0° to 96.0° Bearing [Mag]: 56.0° to 86.0°			eyond 15.0 N low 6000.0 Ft	M ·			
		ESV:	Bearing [True] Bearing [Mag]	earing [True]: 182.0° to 225.0° earing [Mag]: 172.0° to 215.0°			Arc Distance: Out to 90.0 NM Altitude: 10000.0 to 20000.0 Ft.				
14	PVW	N 34° 5 W 101° E 11	' 10.29" 47' 24.67"	L	3400.0	112.90	PVW	Not Used			
		ESV:	Bearing [True] Bearing [Mag]	: 65.0° to 8 : 54.0° to 7	89.0° 8.0°		Arc Distance: Out to 65.0 NM Altitude: 10000.0 to 22000.0 Ft.				
15	LBB		2' 17.82" 54' 50.44"	L	3310.0	109.20	LBB	Used			
		ESV:	Bearing [True] Bearing [Mag]	: 46.0° to 6 : 35.0° to 5	33.0° 2.0°		Arc Distance: Out to 65.0 NM Altitude: 9900.0 to 22000.0 Ft.				
16	GTH		6' 41.80" 20' 10.31"	L	1940.0	114.50	GTH	Used			
	ESV:		Bearing [True] Bearing [Mag]				e: Out to 51.0 00.0 to 20000				
17	SPS		9' 14.23" 35' 36.50"	Н	1133.1	112.70	SPS	Used			
		ESV:	Bearing [True] Bearing [Mag]	: 258.0° to : 248.0° to	274.0° 264.0°		e: Out to 89.0 00.0 to 16000				

DI	ME/DMI	E (Cor	ntinued.)	Re	Return To Summary				
Us	User DMEs (Continued.)								
#	Name	Lat/Lor	/MAGVAR	Range	Elevation [Ft]	Frequency	Replaces:	Status	
18	MQP		3' 34.25" 9' 50.79"	Н	900.0	117.70	MQP	Used	
	ESV: Bear Bear			: 0.0° to 20 : 351.0° to	0.0° 11.0°		Arc Distance: Out to 45.0 NM Altitude: 4000.0 to 16000.0 Ft.		
ESV: Beari Beari			Bearing [True] Bearing [Mag]	: 308.0° to : 299.0° to	333.0° 324.0°		Arc Distance: Out to 100.0 NM Altitude: 10000.0 to 20000.0 Ft.		

DMEs Relative to Waypoints			Return To Summary
Waypoint Before	Waypoint After	DME List	
TURKI	FLOWN	BFV CDS GTH HBR LBB PVW SPS SYO	
FLOWN	KRYZZ	ADM BFV DUC HBR MQP SPS	
KRYZZ	WURDZ	ADM DUC MQP SPS	
WURDZ	GREKE	ADM CVE DUC MQP SPS TTT UKW	
GREKE	MOTZA	ADM CVE FUZ MQP TTT UKW	
MOTZA	WESAT	CVE FUZ MQP TTT UKW	