

ONT RNAV (RNP) Rwy 08L AMDT 1 5.24.16

Point Of Contact
ATC Facility Name -
POC's Name -
Telephone Number -
FAX Number -
Email Address -

TARGETS Distribution Package

Path From EFFXX Leg Table 1/2

Segment	Leg Type	Start	End	Turn Type	RNP	Min End Fix Alt	Max End Fix Alt	Leg Length (NMI)	Leg Length (FT)	Start Course True	End Course True	Course Change	Turn Dir
INITIAL	IF	EFFXX [CIFP:TEMP]	EFFXX [CIFP:TEMP]	FB	1.0	6000.00	6000.00	0.00	0.00000				
INITIAL	TF	EFFXX [CIFP:TEMP]	RUKKY	FB	1.0	5100.00		4.03	24486.45502	279.04	279.00	0.00	LEFT
INTERMEDIATE	TF	RUKKY	COLTN_	FB	1.0	4200.00		3.50	21266.40420	279.00	278.96		RIGHT
INTERMEDIATE	RF	COLTN_	WP46743	FB	1.0	3300.00		3.05	18557.45394	278.96	359.95	80.99	RIGHT
INTERMEDIATE	TF	WP46743	WP46751	FB	0.7	2900.00		1.36	8263.51706	359.95	359.95		RIGHT
INTERMEDIATE	RF	WP46751	LOGJM 45.14	FB	0.3	2000.00	2000.00	3.39	20612.23072	359.93	89.93	89.99	RIGHT
FINAL	TF	LOGJM 45.14	KONT:RW08L:AER	FB	0.3			3.17	19289.00000	89.93	89.96	0.00	
MISSED_APPROACH	TF	KONT:RW08L:AER	CABUB [AVNIS]	FB	1.0			4.40	26738.85736	89.97	90.02	82.74	RIGHT
MISSED_APPROACH	TF	CABUB [AVNIS]	DLIUS	FB	1.0			8.41	51117.77122	172.75	172.76		

Path From EFFXX Leg Table 2/2

Segment	Leg Type	Start	End	Turn Type	End Fix Speed Restriction	RF Leg Radius	Flyby Turn Bank Angle Override	Tailwind Component Override	RF Leg Arc Center	Reduced ROC
INITIAL	IF	EFFXX [CIFP:TEMP]	EFFXX [CIFP:TEMP]	FB	210.0					
INITIAL	TF	EFFXX [CIFP:TEMP]	RUKKY	FB						
INTERMEDIATE	TF	RUKKY	COLTN_	FB				27.84		
INTERMEDIATE	RF	COLTN_	WP46743	FB		2.1600			WP10515	
INTERMEDIATE	TF	WP46743	WP46751	FB	190.0			27.84		
INTERMEDIATE	RF	WP46751	LOGJM 45.14	FB		2.1603			WP10514	
FINAL	TF	LOGJM 45.14	KONT:RW08L:AER	FB						
MISSED_APPROACH	TF	KONT:RW08L:AER	CABUB [AVNIS]	FB						
MISSED_APPROACH	TF	CABUB [AVNIS]	DLIUS	FB						

Path From JALOT Leg Table 1/2

Segment	Leg Type	Start	End	Turn Type	RNP	Min End Fix Alt	Max End Fix Alt	Leg Length (NMI)	Leg Length (FT)	Start Course True	End Course True	Course Change	Turn Dir
INITIAL	IF	JALOT [AVNIS]	JALOT [AVNIS]	FB	1.0	4000.00		0.00	0.00000				
INITIAL	TF	JALOT [AVNIS]	LEAGE_	FB	0.6	2900.00		3.44	20906.93274	89.82	89.86	0.06	RIGHT
INTERMEDIATE	TF	LEAGE_	LOGJM 45.14	FB	0.6	2000.00	2000.00	3.00	18230.90333	89.92	89.96	359.97	RIGHT
FINAL	TF	LOGJM 45.14	KONT:RW08L:AER	FB	0.3			3.17	19289.00000	89.93	89.96	0.00	
MISSED_APPROACH	TF	KONT:RW08L:AER	CABUB [AVNIS]	FB	1.0			4.40	26738.85736	89.97	90.02	82.74	RIGHT
MISSED_APPROACH	TF	CABUB [AVNIS]	DLIUS	FB	1.0			8.41	51117.77122	172.75	172.76		

Path From JALOT Leg Table 2/2

Segment	Leg Type	Start	End	Turn Type	End Fix Speed Restriction	RF Leg Radius	Flyby Turn Bank Angle Override	Tailwind Component Override	RF Leg Arc Center	Reduced ROC
INITIAL	IF	JALOT [AVNIS]	JALOT [AVNIS]	FB						
INITIAL	TF	JALOT [AVNIS]	LEAGE_	FB						
INTERMEDIATE	TF	LEAGE_	LOGJM 45.14	FB						
FINAL	TF	LOGJM 45.14	KONT:RW08L:AER	FB						
MISSED_APPROACH	TF	KONT:RW08L:AER	CABUB [AVNIS]	FB						
MISSED_APPROACH	TF	CABUB [AVNIS]	DLIUS	FB						

Path From NUTZO_ Leg Table 1/2

Segment	Leg Type	Start	End	Turn Type	RNP	Min End Fix Alt	Max End Fix Alt	Leg Length (NMI)	Leg Length (FT)	Start Course True	End Course True	Course Change	Turn Dir
INITIAL	IF	NUTZO_	NUTZO_	FB	1.0	6000.00	6000.00	0.00	0.00000				
INITIAL	TF	NUTZO_	OUTCH_	FB	1.0	5600.00		6.60	40084.96998	270.22	270.15	359.98	LEFT
INTERMEDIATE	TF	OUTCH_	PRMNT_	FB	1.0	4500.00		3.94	23940.55511	270.16	270.12	0.12	LEFT
INTERMEDIATE	TF	PRMNT_	WP07	FB	1.0	3700.00		3.16	19180.25782	270.00	269.96		LEFT
INTERMEDIATE	RF	WP07	WP1A	FB	0.3	2800.00		3.62	22002.29284	269.96	163.64	106.32	LEFT
INTERMEDIATE	RF	WP1A	LOGJM 45.14	FB	0.3	2000.00	2000.00	2.51	15261.67919	163.64	89.93	73.72	LEFT
FINAL	TF	LOGJM 45.14	KONT:RW08L:AER	FB	0.3			3.17	19289.00000	89.93	89.96	0.00	
MISSED_APPROACH	TF	KONT:RW08L:AER	CABUB [AVNIS]	FB	1.0			4.40	26738.85736	89.97	90.02	82.74	RIGHT
MISSED_APPROACH	TF	CABUB [AVNIS]	DLIUS	FB	1.0			8.41	51117.77122	172.75	172.76		

Path From NUTZO_ Leg Table 2/2

Segment	Leg Type	Start	End	Turn Type	End Fix Speed Restriction	RF Leg Radius	Flyby Turn Bank Angle Override	Tailwind Component Override	RF Leg Arc Center	Reduced ROC
INITIAL	IF	NUTZO_	NUTZO_	FB						
INITIAL	TF	NUTZO_	OUTCH_	FB						
INTERMEDIATE	TF	OUTCH_	PRMNT_	FB						
INTERMEDIATE	TF	PRMNT_	WP07	FB	180.0			28.13		
INTERMEDIATE	RF	WP07	WP1A	FB		1.9518			WP10513	
INTERMEDIATE	RF	WP1A	LOGJM 45.14	FB		1.9517			WP10512	
FINAL	TF	LOGJM 45.14	KONT:RW08L:AER	FB						
MISSED_APPROACH	TF	KONT:RW08L:AER	CABUB [AVNIS]	FB						
MISSED_APPROACH	TF	CABUB [AVNIS]	DLIUS	FB						

Waypoint Data

DB	Waypoint	Latitude (Deg)	Longitude (Deg)	Latitude (Deg, Decimal Min)	Longitude (Deg, Decimal Min)	Latitude (D° M' S.ss")	Longitude (D° M' S.ss")
AVNIS	CABUB	N 34.05689	W 117.53125	N34 3.41333	W117 31.87500	N34 03 24.80000	W117 31 52.50000
	COLTN_ WP	N 33.96241	W 117.68989	N33 57.74484	W117 41.39330	N33 57 44.69060	W117 41 23.59796
	DLIUS WP	N 33.91754	W 117.50999	N33 55.05267	W117 30.59950	N33 55 3.16000	W117 30 35.97000
NACO	EFFXX	N 33.94274	W 117.54088	N33 56.56450	W117 32.45283	N33 56 33.87000	W117 32 27.17000
AVNIS	JALOT	N 34.05661	W 117.81242	N34 3.39683	W117 48.74517	N34 03 23.81000	W117 48 44.71000
	LEAGE_ WP	N 34.05677	W 117.74340	N34 3.40639	W117 44.60380	N34 03 24.38341	W117 44 36.22825
	LOGJM 45.14 WP	N 34.05683	W 117.68321	N34 3.40958	W117 40.99251	N34 03 24.57507	W117 40 59.55050
	NUTZO_ WP	N 34.12150	W 117.40838	N34 7.29017	W117 24.50250	N34 07 17.41000	W117 24 30.15000
	OUTCH_ WP	N 34.12186	W 117.54081	N34 7.31150	W117 32.44881	N34 07 18.68983	W117 32 26.92888
	PRMNT_ WP	N 34.12202	W 117.61991	N34 7.32126	W117 37.19474	N34 07 19.27578	W117 37 11.68423
	RUKKY WP	N 33.95329	W 117.62062	N33 57.19759	W117 37.23716	N33 57 11.85551	W117 37 14.22953
	WP07 WP	N 34.12200	W 117.68328	N34 7.32006	W117 40.99700	N34 07 19.20349	W117 40 59.82021
	WP10512 WP	N 34.08941	W 117.68326	N34 5.36474	W117 40.99553	N34 05 21.88433	W117 40 59.73177
	WP10513 WP	N 34.08941	W 117.68326	N34 5.36478	W117 40.99537	N34 05 21.88662	W117 40 59.72236
	WP10514 WP	N 34.02076	W 117.68315	N34 1.24541	W117 40.98917	N34 01 14.72433	W117 40 59.35000
	WP10515 WP	N 33.99804	W 117.68315	N33 59.88230	W117 40.98885	N33 59 52.93828	W117 40 59.33077
	WP1A WP	N 34.08024	W 117.72084	N34 4.81445	W117 43.25037	N34 04 48.86675	W117 43 15.02226
	WP46743 WP	N 33.99801	W 117.72645	N33 59.88087	W117 43.58682	N33 59 52.85244	W117 43 35.20942
	WP46751 WP	N 34.02072	W 117.72647	N34 1.24329	W117 43.58825	N34 01 14.59766	W117 43 35.29507

RS Results 02 ONT RNAV (RNP) Rwy 08L AMDT 1 5.24.16

Last Evaluation: 26-May-2016 18:38:51

Reference Software Version: 1.3.6

Path Evaluation for NUTZO_

Flight Evaluation Table 1

Leg Tp	End Pt	Turn Tp	Alt Restr	Alt Restr 2	Max Spd	Turn Ang	Leg Length	Min Seg Length
IF	NUTZO_		6000.0				0.0	0.0
TF	OUTCH_	FLY_BY	+5600.0			0.02	6.6	1.0
TF	PRMNT_	FLY_BY	+4500.0			0.12	3.94	1.0
TF	WP07	FLY_BY	+3700.0		-180		3.16	1.0
RF	WP1A	FLY_BY	+2800.0				3.62	0.2
RF	LOGJM 45.14	FLY_BY	2000.0				2.51	0.2
TF	KONT:RW08L:AER	FLY_BY					3.17	0.6

Flight Evaluation Table 2

Leg Tp	End Pt	Turn Tp	DTA1	DTA1 Turn Rad	DTA1 Turn Alt	DTA1 Turn Spd	DTA1 Bank Ang	DTA1 Tailwind	DTA1 True Airspd	DTA1 vGround	DTA2	DTA2 Turn Rad	DTA2 Turn Alt	DTA2 Turn Spd	DTA2 Bank Ang	DTA2 Tailwind	DTA2 True Airspd	DTA2 vGround
IF	NUTZO_				0.0	0.0							0.0	0.0				
TF	OUTCH_	FLY_BY	0.0		6000.0	250.0	0.0	59.0	281.0	340.0	0.0		5600.0	250.0	0.0	58.0	279.0	337.0
TF	PRMNT_	FLY_BY	0.0		5600.0	250.0	0.0	58.0	279.0	337.0	0.1	90.91	4500.0	250.0	1.0	56.0	274.0	330.0
TF	WP07	FLY_BY	0.1	90.91	4500.0	250.0	1.0	56.0	274.0	330.0	0.0		3705.28	180.0	0.0	28.13	195.0	223.13
RF	WP1A	FLY_BY	0.0		3705.28	180.0	0.0	28.13	195.0	223.13	0.0		2800.0	180.0	0.0	30.0	193.0	223.0
RF	LOGJM 45.14	FLY_BY	0.0		2800.0	180.0	0.0	30.0	193.0	223.0	0.0		2000.0	165.0	0.0	30.0	174.0	204.0
TF	KONT:RW08L:AER	FLY_BY	0.0		2000.0	165.0	0.0	30.0	174.0	204.0			0.0	0.0				

Flight Evaluation RF Table

Leg Tp	End Pt	Turn Tp	RF Init Turn Rad	RF Termination Turn Rad	RF Max Bank Angle	RF Bank Angle
RF	WP1A	FLY_BY	1.95	1.95	20.0	20.0
RF	LOGJM 45.14	FLY_BY	1.95	1.95	20.0	20.0

Route Criteria Failures

No failures.

Path Evaluation for JALOT

Flight Evaluation Table 1

Leg Tp	End Pt	Turn Tp	Alt Restr	Alt Restr 2	Max Spd	Turn Ang	Leg Length	Min Seg Length
IF	JALOT		+4000.0				0.0	0.0
TF	LEAGE_	FLY_BY	+2900.0			0.06	3.44	1.0
TF	LOGJM 45.14	FLY_BY	2000.0			0.03	3.0	1.0
TF	KONT:RW08L:AER	FLY_BY					3.17	0.6

Flight Evaluation Table 2

Leg Tp	End Pt	Turn Tp	DTA1	DTA1 Turn Rad	DTA1 Turn Alt	DTA1 Turn Spd	DTA1 Bank Ang	DTA1 Tailwind	DTA1 True Airspd	DTA1 vGround	DTA2	DTA2 Turn Rad	DTA2 Turn Alt	DTA2 Turn Spd	DTA2 Bank Ang	DTA2 Tailwind	DTA2 True Airspd	DTA2 vGround
IF	JALOT				0.0	0.0							0.0	0.0				
TF	LEAGE_	FLY_BY	0.0		4000.0	250.0	0.0	55.0	272.0	327.0	0.04	74.14	2900.0	250.0	1.0	30.0	268.0	298.0
TF	LOGJM 45.14	FLY_BY	0.04	74.14	2900.0	250.0	1.0	30.0	268.0	298.0	0.0		2000.0	165.0	0.0	30.0	174.0	204.0
TF	KONT:RW08L:AER	FLY_BY	0.0		2000.0	165.0	0.0	30.0	174.0	204.0			0.0	0.0				

Route Criteria Failures

No failures.

Path Evaluation for EFFXX

Flight Evaluation Table 1

Leg Tp	End Pt	Turn Tp	Alt Restr	Alt Restr 2	Max Spd	Turn Ang	Leg Length	Min Seg Length
IF	EFFXX		6000.0		-210		0.0	0.0
TF	RUKKY	FLY_BY	+5100.0			0.0	4.03	1.0
TF	COLTN_	FLY_BY	+4200.0				3.5	1.0
RF	WP46743	FLY_BY	+3300.0				3.05	0.2
TF	WP46751	FLY_BY	+2900.0		-190		1.36	1.0
RF	LOGJM 45.14	FLY_BY	2000.0				3.39	0.2
TF	KONT:RW08L:AER	FLY_BY					3.17	0.6

Flight Evaluation Table 2

Leg Tp	End Pt	Turn Tp	DTA1	DTA1 Turn Rad	DTA1 Turn Alt	DTA1 Turn Spd	DTA1 Bank Ang	DTA1 Tailwind	DTA1 True Airspd	DTA1 vGround	DTA2	DTA2 Turn Rad	DTA2 Turn Alt	DTA2 Turn Spd	DTA2 Bank Ang	DTA2 Tailwind	DTA2 True Airspd	DTA2 vGround
IF	EFFXX				0.0	0.0							0.0	0.0				
TF	RUKKY	FLY_BY	0.0		6000.0	210.0	0.0	59.0	236.0	295.0	0.0		5100.0	210.0	0.0	57.0	233.0	290.0
TF	COLTN_	FLY_BY	0.0		5100.0	210.0	0.0	57.0	233.0	290.0	0.0		4200.0	210.0	0.0	27.84	229.0	256.84
RF	WP4674 3	FLY_BY	0.0		4200.0	210.0	0.0	27.84	229.0	256.84	0.0		3300.0	210.0	0.0	54.0	226.0	280.0
TF	WP4675 1	FLY_BY	0.0		3300.0	210.0	0.0	54.0	226.0	280.0	0.0		2900.0	190.0	0.0	27.84	204.0	231.84
RF	LOGJM 45.14	FLY_BY	0.0		2900.0	190.0	0.0	27.84	204.0	231.84	0.0		2000.0	165.0	0.0	30.0	174.0	204.0
TF	KONT:R W08L:AE R	FLY_BY	0.0		2000.0	165.0	0.0	30.0	174.0	204.0			0.0	0.0				

Flight Evaluation RF Table

Leg Tp	End Pt	Turn Tp	RF Init Turn Rad	RF Termination Turn Rad	RF Max Bank Angle	RF Bank Angle
RF	WP46743	FLY_BY	2.16	2.16	25.0	24.0
RF	LOGJM 45.14	FLY_BY	2.16	2.16	20.0	20.0

Route Criteria Failures

No failures.

Controlling Obstacles

Start Pt	End Pt	Name	Height (ft) AMSL	Effective Height (ft) AMSL
NUTZO_	OUTCH_	Initial1 TF 1-Intermediate TF 1-ConsideredTerrainPoint-141	1916.01	2041.01
OUTCH_	PRMNT_	Initial1 TF 1-Intermediate TF 1-Intermediate TF 2-ConsideredTerrainPoint-662	2063.65	2188.65
PRMNT_	WP07	Intermediate TF 1-Intermediate TF 2-Intermediate RF 3-ConsideredTerrainPoint-1760	2263.78	2388.78
WP07	WP1A	Intermediate RF 3-ConsideredTerrainPoint-2533	1715.88	1840.88
WP1A	LOGJM 45.14	Intermediate RF 4-ConsideredTerrainPoint-838	1099.08	1224.08
JALOT	LEAGE_	Initial2 TF 1-Intermediate TF 1-ConsideredTerrainPoint-2212	1384.51	1509.51
LEAGE_	LOGJM 45.14	Initial2 TF 1-Intermediate TF 1-Final TF 1-ConsideredTerrainPoint-4850	1089.24	1214.24
EFFXX	RUKKY	Initial3 TF 1-Intermediate TF 1-ConsideredTerrainPoint-11270	1427.17	1552.17
RUKKY	COLTN_	Initial3 TF 1-Intermediate TF 1-Intermediate RF 2-ConsideredTerrainPoint-110	1240.16	1365.16
COLTN_	WP46743	Intermediate RF 2-ConsideredTerrainPoint-3072	1410.76	1535.76
WP46743	WP46751	Intermediate RF 2-Intermediate TF 3-Intermediate RF 4-ConsideredTerrainPoint-146	1171.26	1296.26
WP46751	LOGJM 45.14	Intermediate RF 4-ConsideredTerrainPoint-2504	1020.34	1145.34
Final	KONT:RW08L:AER	KONT0109	1167.0	1187.0
MSA		Minimum Safe Altitude Area-ConsideredTerrainPoint-105756	7585.3	7710.3

Terrain Information

Terrain Extractor Name	Extractor Location	Extractor Type	Resolution
DTED 3 Sec	C:\Program Files (x86)\TARGETS\data\DTED-3Sec	org.mitre.caasd.terrain.DTEExtractor	3.0

Complete Procedure Results Summary

Evaluation Input

Name:	RS Results 02 ONT RNAV (RNP) Rwy 08L AMDT 1 5.24.16
Project:	SoCal RNP Master file 5.24.16
Last evaluated:	26-May-2016 18:38:51
Evaluated obstacles?:	true
Obstacle Database:	
Evaluated terrain?:	true
Evaluated precipitous terrain?:	true
Worst Case Vegetation Height (ft) AGL:	0
Wind Spiral Limiting Splay Angle (deg):	-

Approach Input

HATh (ft):	497.0
Height Group:	4
Glidepath Angle (degs):	3.0
Threshold Crossing Height (ft):	45.14
Length of Runway Lighting System (ft):	0.0
Body Geometry:	Wide Body
ACT (degs C):	5.4

Airport

Name:	ONTARIO INTL
Location:	N34° 03' 21.60",W117° 36' 04.30"
Elevation (ft):	944.0

Runway

Name:	RW08L
Landing Threshold Point:	N34° 03' 24.76",W117° 37' 10.30"
Elevation (ft):	943.9
DER Location:	N34° 03' 24.82",W117° 34' 57.19"
DER Elevation (ft):	931.7
Course (degs):	89.962
Width (ft):	150

Reciprocal Runway

Name:	RW26R
Landing Threshold Point:	N34° 03' 24.82",W117° 34' 57.19"
Elevation (ft):	931.7
DER Location:	N34° 03' 24.76",W117° 37' 10.30"
DER Elevation (ft):	943.2
Course (degs):	269.982
Width (ft):	150

Runways with AC 150/5300-18 Survey

None.

Overall Results

Minimum Adjusted HATh (ft):	484.2582537719387
Decision Altitude (ft):	1441.0
Distance From LTP to DA (ft):	8623.40898942464
DA Point:	N34° 03' 24.69",W117° 38' 52.79"
DHeightloss (ft):	954.0568343864107
ab Point:	N34° 03' 24.70",W117° 38' 41.45"
Minimum Allowable TCH (ft):	45.0
Maximum Allowable TCH (ft):	75.0
MSA (ft)	9000.0
Average Cold Temperature (degs C):	5.4
Airport ISA (degs C):	13.13088
Delta ISA Low (degs C):	-7.730879999999999
Low Temperature Limit (degs C):	6.0
Delta ISA High (degs C):	45.829245847224264
High Temperature Limit (degs C):	54.0
DVEB (ft):	3601.0364467527934
Minimum Distance LTP to DA (for Section 1a) (ft):	4556.0
OCS Slope:	19.694240264543055:1
ROC PFAF for TF leg (ft):	259.4594955516328
ROC 250 for TF leg (ft):	234.36470709410463

Segment and Leg Summary Data

InitialEFFXX

Leg EFFXX to RUKKY

Leg Type:	TF
Leg Length (NM):	4.029952208454883
Leg RNP Value (NM):	1.0
Leg Minimum OCS Height (ft) AMSL:	2752.1653543307084
Termination Minimum Altitude (ft):	5100
Descent Gradient (ft/NM):	224.0

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Controlling Obstacle

Name:	Initial3 TF 1-Intermediate TF 1-ConsideredTerrainPoint-11270
Source:	DTED 3 Sec
Location:	N33° 55' 09.00",W117° 31' 39.00"
Height (ft) AMSL:	1427.1653543307086
Vertical Accuracy Adjustment (ft):	125
Effective Height (ft) AMSL:	1552.1653543307086
Height Adjustments (AAO or WCVH) (ft):	200.0
ROC (ft):	1000.0
Min Obs/Terrain Height (ft) AMSL:	2752.1653543307084

InitialNUTZO_

Leg NUTZO_ to OUTCH_

Leg Type:	TF
Leg Length (NM):	6.597137607569136
Leg RNP Value (NM):	1.0
Leg Minimum OCS Height (ft) AMSL:	3382.5852030511674
Termination Minimum Altitude (ft):	5600
Descent Gradient (ft/NM):	61.0

Controlling Obstacle

Name:	Initial1 TF 1-Intermediate TF 1-ConsideredTerrainPoint-141
Source:	DTED 3 Sec
Location:	N34° 09' 18.00",W117° 33' 39.00"
Height (ft) AMSL:	1916.010498687664
Vertical Accuracy Adjustment (ft):	125
Effective Height (ft) AMSL:	2041.010498687664
Height Adjustments (AAO or WCVH) (ft):	200.0
ROC (ft):	1000.0
Min Obs/Terrain Height (ft) AMSL:	3382.5852030511674

InitialJALOT

Leg JALOT to LEAGE_

Leg Type:	TF
Leg Length (NM):	3.440838606619762
Leg RNP Value (NM):	0.6
Leg Minimum OCS Height (ft) AMSL:	2709.514435695538
Initial Minimum Altitude (ft):	4000
Termination Minimum Altitude (ft):	2900
Descent Gradient (ft/NM):	320.0

Controlling Obstacle

Name:	Initial2 TF 1-Intermediate TF 1-ConsideredTerrainPoint-2212
Source:	DTED 3 Sec
Location:	N34° 02' 33.00",W117° 47' 15.00"
Height (ft) AMSL:	1384.514435695538
Vertical Accuracy Adjustment (ft):	125
Effective Height (ft) AMSL:	1509.514435695538
Height Adjustments (AAO or WCVH) (ft):	200.0
ROC (ft):	1000.0
Min Obs/Terrain Height (ft) AMSL:	2709.514435695538

IntermediateLEAGE_

Leg LEAGE_ to LOGJM 45.14

Leg Type:	TF
Leg Length (NM):	3.000420807084962
Leg RNP Value (NM):	0.6
Leg Minimum OCS Height (ft) AMSL:	1914.238845144357
Initial Minimum Altitude (ft):	2900
Termination Mandatory Altitude (ft):	2000
Descent Gradient (ft/NM):	300.0

Controlling Obstacle

Name:	Initial2 TF 1-Intermediate TF 1-Final TF 1-ConsideredTerrainPoint-4850
Source:	DTED 3 Sec
Location:	N34° 04' 36.00",W117° 40' 27.00"
Height (ft) AMSL:	1089.238845144357
Vertical Accuracy Adjustment (ft):	125
Effective Height (ft) AMSL:	1214.238845144357
Height Adjustments (AAO or WCVH) (ft):	200.0
ROC (ft):	500.0
Min Obs/Terrain Height (ft) AMSL:	1914.238845144357

IntermediateOUTCH_

Leg OUTCH_ to PRMNT_

Leg Type:	TF
Leg Length (NM):	3.94010863816978
Leg RNP Value (NM):	1.0
Leg Minimum OCS Height (ft) AMSL:	3096.314608984488
Initial Minimum Altitude (ft):	5600
Termination Minimum Altitude (ft):	4500
Descent Gradient (ft/NM):	280.0

Controlling Obstacle

Name:	Initial1 TF 1-Intermediate TF 1-Intermediate TF 2-ConsideredTerrainPoint-662
Source:	DTED 3 Sec
Location:	N34° 09' 18.00",W117° 38' 03.00"
Height (ft) AMSL:	2063.6482939632547
Vertical Accuracy Adjustment (ft):	125
Effective Height (ft) AMSL:	2188.6482939632547
Height Adjustments (AAO or WCVH) (ft):	200.0
ROC (ft):	500.0
Min Obs/Terrain Height (ft) AMSL:	3096.314608984488

Leg PRMNT_ to WP07

Leg Type:	TF
Leg Length (NM):	3.156664461549852
Leg RNP Value (NM):	1.0
Leg Minimum OCS Height (ft) AMSL:	3349.922443417603
Initial Minimum Altitude (ft):	4500
Termination Minimum Altitude (ft):	3700
Descent Gradient (ft/NM):	254.0

Controlling Obstacle

Name:	Intermediate TF 1-Intermediate TF 2-Intermediate RF 3-ConsideredTerrainPoint-1760
Source:	DTED 3 Sec
Location:	N34° 09' 18.00",W117° 41' 12.00"
Height (ft) AMSL:	2263.779527559055
Vertical Accuracy Adjustment (ft):	125
Effective Height (ft) AMSL:	2388.779527559055
Height Adjustments (AAO or WCVH) (ft):	200.0
ROC (ft):	500.0
Min Obs/Terrain Height (ft) AMSL:	3349.922443417603

Leg WP07 to WP1A

Leg Type:	RF
Leg Length (NM):	3.621111889263036
Leg RNP Value (NM):	0.3
Leg Minimum OCS Height (ft) AMSL:	2540.879265091863
Initial Minimum Altitude (ft):	3700
Termination Minimum Altitude (ft):	2800
Descent Gradient (ft/NM):	249.0

Controlling Obstacle

Name:	Intermediate RF 3-ConsideredTerrainPoint-2533
Source:	DTED 3 Sec
Location:	N34° 07' 54.00",W117° 40' 51.00"
Height (ft) AMSL:	1715.8792650918633
Vertical Accuracy Adjustment (ft):	125
Effective Height (ft) AMSL:	1840.8792650918633
Height Adjustments (AAO or WCVH) (ft):	200.0
ROC (ft):	500.0
Min Obs/Terrain Height (ft) AMSL:	2540.879265091863

Leg WP1A to LOGJM 45.14

Leg Type:	RF
Leg Length (NM):	2.511749496750097
Leg RNP Value (NM):	0.3
Leg Minimum OCS Height (ft) AMSL:	1924.0813648293963
Initial Minimum Altitude (ft):	2800
Termination Mandatory Altitude (ft):	2000
Descent Gradient (ft/NM):	319.0

Controlling Obstacle

Name:	Intermediate RF 4-ConsideredTerrainPoint-838
Source:	DTED 3 Sec
Location:	N34° 05' 09.00",W117° 42' 36.00"
Height (ft) AMSL:	1099.0813648293963
Vertical Accuracy Adjustment (ft):	125
Effective Height (ft) AMSL:	1224.0813648293963
Height Adjustments (AAO or WCVH) (ft):	200.0
ROC (ft):	500.0
Min Obs/Terrain Height (ft) AMSL:	1924.0813648293963

IntermediateRUKKY

Leg RUKKY to COLTN_

Leg Type:	TF
Leg Length (NM):	3.499999999999438
Leg RNP Value (NM):	1.0
Leg Minimum OCS Height (ft) AMSL:	2065.1574803149606
Initial Minimum Altitude (ft):	5100
Termination Minimum Altitude (ft):	4200
Descent Gradient (ft/NM):	258.0

Controlling Obstacle

Name:	Initial3 TF 1-Intermediate TF 1-Intermediate RF 2-ConsideredTerrainPoint-110
Source:	DTED 3 Sec
Location:	N33° 57' 00.00",W117° 42' 42.00"
Height (ft) AMSL:	1240.1574803149606
Vertical Accuracy Adjustment (ft):	125
Effective Height (ft) AMSL:	1365.1574803149606
Height Adjustments (AAO or WCVH) (ft):	200.0
ROC (ft):	500.0
Min Obs/Terrain Height (ft) AMSL:	2065.1574803149606

Leg COLTN_ to WP46743

Leg Type:	RF
Leg Length (NM):	3.054164325944249
Leg RNP Value (NM):	1.0
Leg Minimum OCS Height (ft) AMSL:	2235.761154855643
Initial Minimum Altitude (ft):	4200
Termination Minimum Altitude (ft):	3300
Descent Gradient (ft/NM):	295.0

Controlling Obstacle

Name:	Intermediate RF 2-ConsideredTerrainPoint-3072
Source:	DTED 3 Sec
Location:	N33° 56' 51.00",W117° 44' 03.00"
Height (ft) AMSL:	1410.7611548556429
Vertical Accuracy Adjustment (ft):	125
Effective Height (ft) AMSL:	1535.7611548556429
Height Adjustments (AAO or WCVH) (ft):	200.0
ROC (ft):	500.0
Min Obs/Terrain Height (ft) AMSL:	2235.761154855643

Leg WP46743 to WP46751

Leg Type:	TF
Leg Length (NM):	1.359999999999959
Leg RNP Value (NM):	0.7
Leg Minimum OCS Height (ft) AMSL:	1996.259842519685
Initial Minimum Altitude (ft):	3300
Termination Minimum Altitude (ft):	2900
Descent Gradient (ft/NM):	295.0

Controlling Obstacle

Name:	Intermediate RF 2-Intermediate TF 3-Intermediate RF 4-ConsideredTerrainPoint-146
Source:	DTED 3 Sec
Location:	N34° 00' 42.00",W117° 45' 12.00"
Height (ft) AMSL:	1171.259842519685
Vertical Accuracy Adjustment (ft):	125
Effective Height (ft) AMSL:	1296.259842519685
Height Adjustments (AAO or WCVH) (ft):	200.0
ROC (ft):	500.0
Min Obs/Terrain Height (ft) AMSL:	1996.259842519685

Leg WP46751 to LOGJM 45.14

Leg Type:	RF
Leg Length (NM):	3.392337115180742
Leg RNP Value (NM):	0.3
Leg Minimum OCS Height (ft) AMSL:	1845.3412073490813
Initial Minimum Altitude (ft):	2900
Termination Mandatory Altitude (ft):	2000
Descent Gradient (ft/NM):	266.0

Controlling Obstacle

Name:	Intermediate RF 4-ConsideredTerrainPoint-2504
Source:	DTED 3 Sec
Location:	N34° 04' 00.00",W117° 40' 33.00"
Height (ft) AMSL:	1020.3412073490813
Vertical Accuracy Adjustment (ft):	125
Effective Height (ft) AMSL:	1145.3412073490813
Height Adjustments (AAO or WCVH) (ft):	200.0
ROC (ft):	500.0
Min Obs/Terrain Height (ft) AMSL:	1845.3412073490813

Final Segment Results

TotalLength:	19289.000000001
MinimumAdjustedHath:	484.2582537719387
D500:	8679.0
ControllingObstacle:	KONT0109 [AVNIS]:1687035353
DPFAF:	19289.0
DVEB (ft):	3601.0364467527934
Distance from VEB to DA (ft):	4556.0
OCS Slope:	19.694240264543055:1
ROC PFAF for TF leg (ft):	259.4594955516328
ROC 250 for TF leg (ft):	234.36470709410463

Controlling Obstacle

Name:	KONT0109
Source:	AVNIS
Location:	N34° 03' 54.74",W117° 38' 47.97"
Height (ft) AMSL:	1167.0
Vertical Accuracy Adjustment (ft):	20
Effective Height (ft) AMSL:	1187.0
Height Adjustments (AAO or WCVH) (ft):	0.0
HATH Adjustment (ft):	484.2582537719387
Amount of Penetration (ft):	10.848485874696507
Distance (ft):	8165.222734976114
OCS Height (ft) AMSL:	1176.1515141253035

Leg LOGJM 45.14 to KONT:RW08L:AER

Leg Type:	TF
Leg Length (NM):	3.174561123110316
Leg RNP Value (NM):	0.3
Glidepath Angle (degs):	3.0

Procedure Criteria Failures

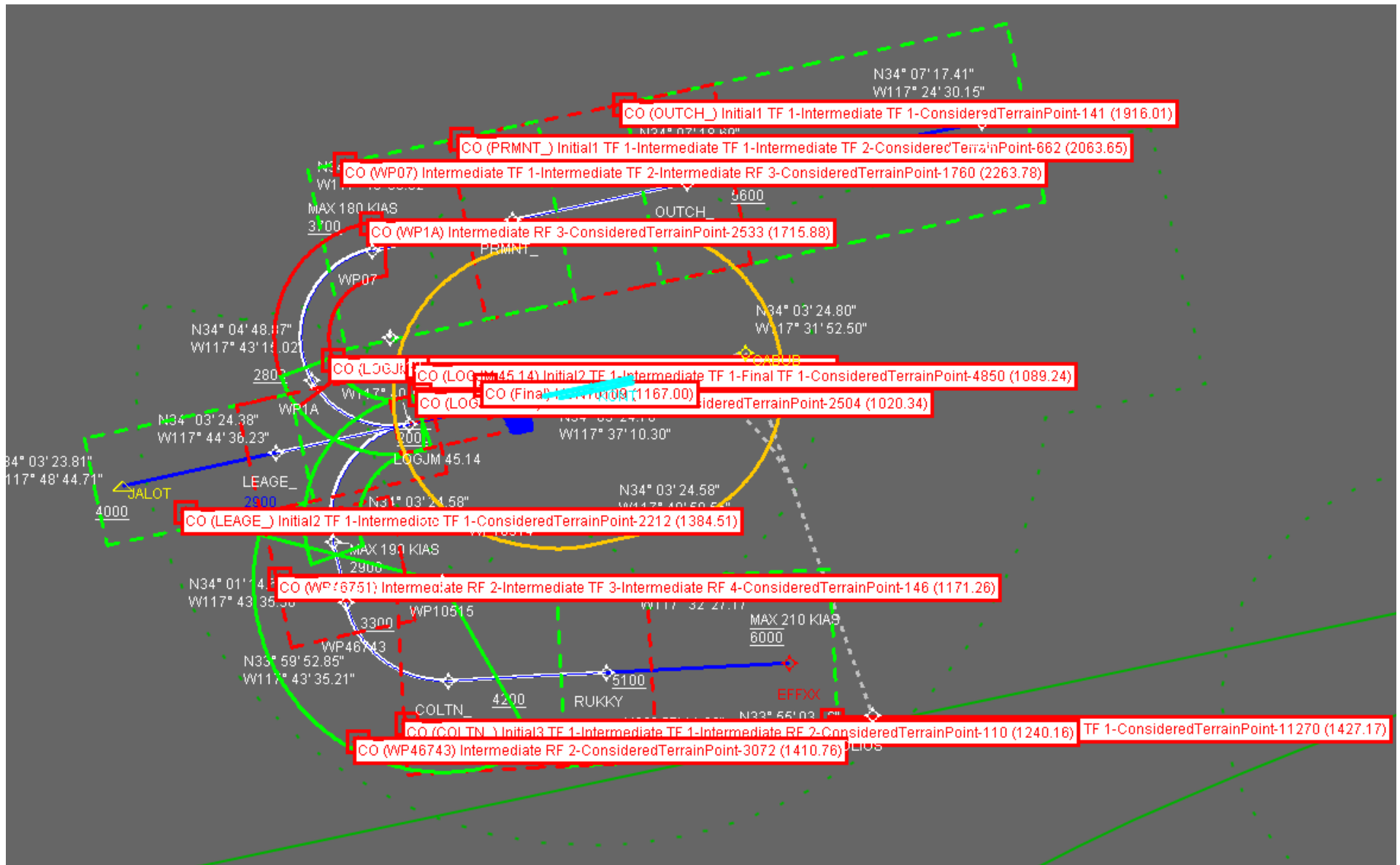
No failures.

Evaluation Notes and Warnings

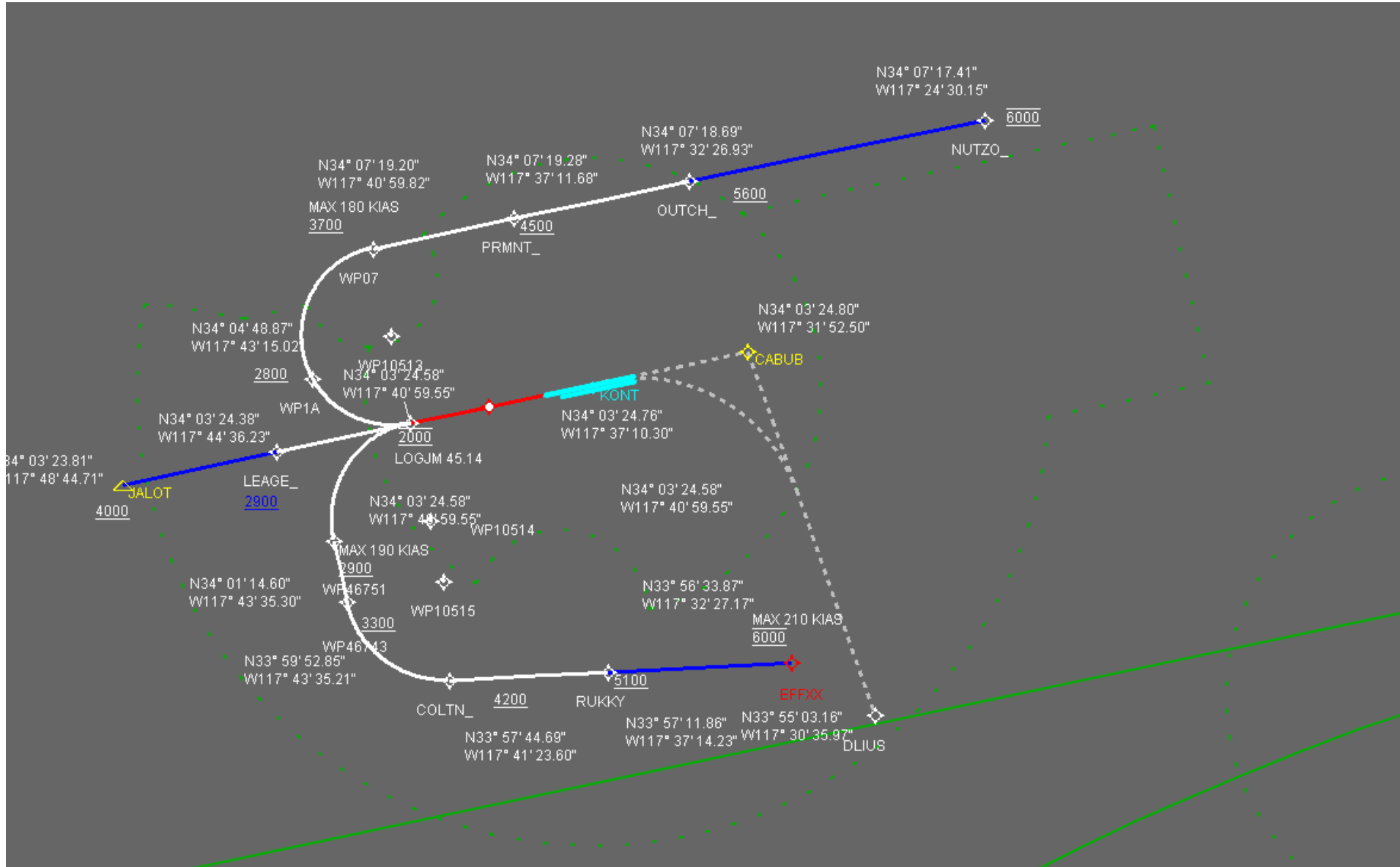
No failures.

Obstacles Requiring Accuracy Code Verification

[06-006049 [AVNIS], 06-002943 [AVNIS], 06-001030 [AVNIS], 06-006012 [AVNIS], 06-001485 [AVNIS], 06-001431 [AVNIS]]



ONT RNAV (RNP) Rwy 08L AMDT 1 5.24.16



ONT RNAV (RNP) Rwy 08L AMDT 1 5.24.16

Database Effective Dates

Database	Date
UddfObstacle	03/09/2015
Tiled AIRNAV2	N/A
OEAAA	N/A
NFDC	03/31/2016
IFP_OFFLINE	N/A
AVNIS	05/26/2016
DOF	03/31/2016
AVNII_OFFLINE	N/A
AIRNAV2	05/26/2016
CIFP	04/28/2016

Notes:

Empty rectangular box for notes.