

# GLRNO RNAV

## Point Of Contact

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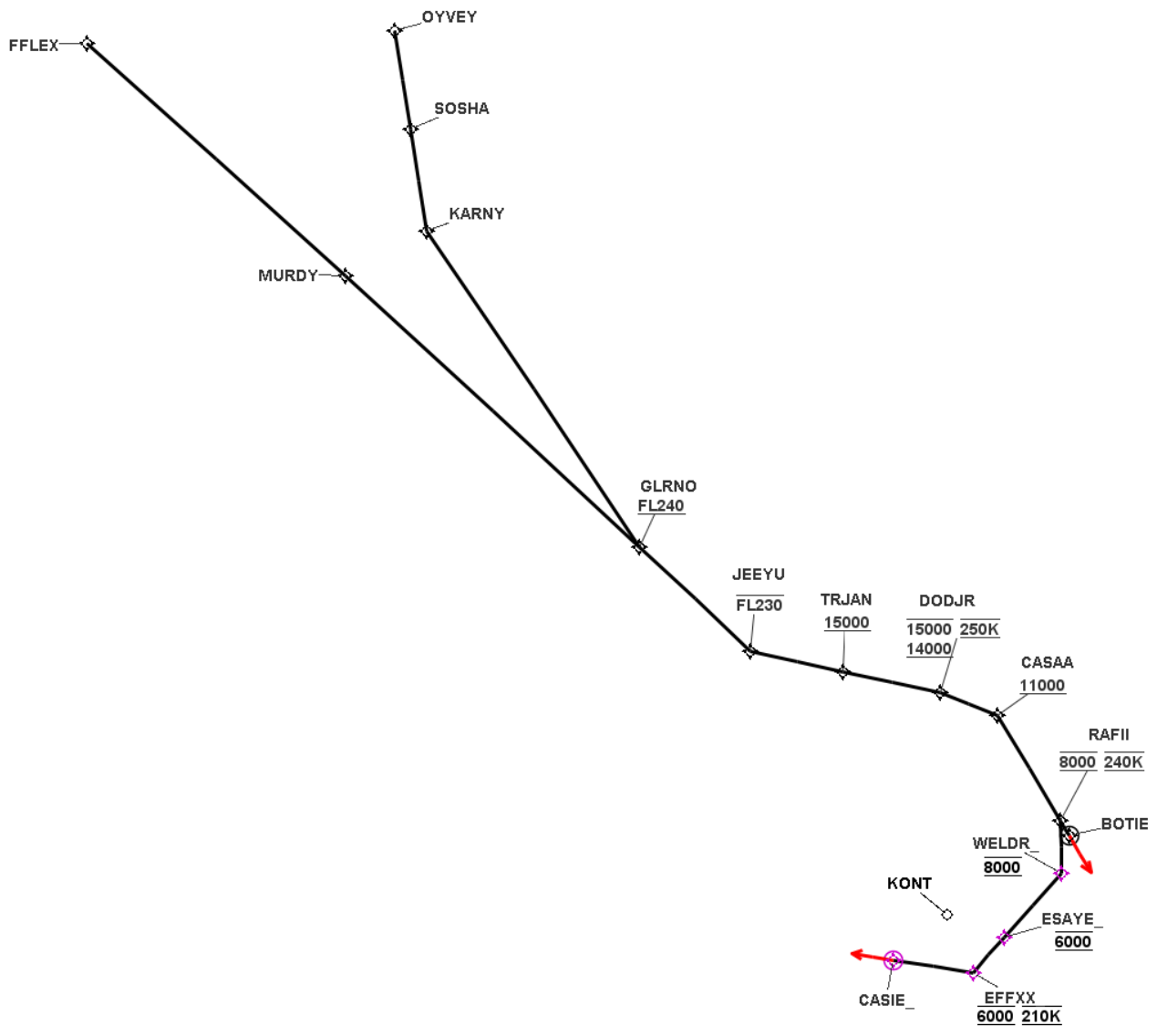
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## TARGETS Distribution Package

Version:5.0.5

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GLRNO RNAV

### En Route Transition Data - FFLEX

DB	End Point	Latitude (D° M' S.ss")	Longitude (D° M' S.ss")	FO/FB	Leg	TC	MC	Distance	Altitude	Speed	MEA	MOCA	Arc Center Lat (D° M' S.ss")	Arc Center Lon (D° M' S.ss")	Arc Radius (NM)
	FFLEX WP	N35 46 26.42	W119 39 25.08		IF										
	MURDY WP	N35 18 58.60	W119 02 24.60	FB	TF	132.06	120.06	40.79			15000	2800			
	GLRNO WP	N34 46 51.00	W118 20 11.10	FB	TF	132.57	120.57	47.23	+24000		15000	10000			

### En Route Transition Data - OYVEY

DB	End Point	Latitude (D° M' S.ss")	Longitude (D° M' S.ss")	FO/FB	Leg	TC	MC	Distance	Altitude	Speed	MEA	MOCA	Arc Center Lat (D° M' S.ss")	Arc Center Lon (D° M' S.ss")	Arc Radius (NM)
	OYVEY WP	N35 47 59.00	W118 55 21.00		IF										
	SOSHA WP	N35 36 18.00	W118 53 03.00	FB	TF	170.87	158.87	11.82			15000	5700			
	KARNY WP	N35 24 11.50	W118 50 39.00	FB	TF	170.78	158.78	12.25			15000	5800			
	GLRNO WP	N34 46 51.00	W118 20 11.10	FB	TF	146.01	134.01	44.89	+24000		15000	10200			

### Common Route Data - GLRNO CR

DB	End Point	Latitude (D° M' S.ss")	Longitude (D° M' S.ss")	FO/FB	Leg	TC	MC	Distance	Altitude	Speed	MEA	MOCA	Arc Center Lat (D° M' S.ss")	Arc Center Lon (D° M' S.ss")	Arc Radius (NM)
	GLRNO WP	N34 46 51.00	W118 20 11.10		IF				+24000						
	JEEYU WP	N34 34 33.50	W118 04 16.00	FB	TF	132.99	120.99	17.97	-23000		15000	6200			
	TRJAN WP	N34 32 10.67	W117 51 02.70	FB	TF	102.21	90.21	11.18	+15000		15000	6400			
	DODJR WP	N34 29 38.86	W117 37 03.96	FB	TF	102.27	90.27	11.82	+14000 -15000	250	14000	6100			
	CASAA WP	N34 26 57.28	W117 28 53.23	FB	TF	111.64	99.64	7.28	+11000		11000	6300			
	RAFII WP	N34 14 26.88	W117 19 54.42	FB	TF	149.18	137.18	14.53	8000	240	8000	7900			

### Runway Transition Data - KONT:RW08B

DB	End Point	Latitude (D° M' S.ss")	Longitude (D° M' S.ss")	FO/FB	Leg	TC	MC	Distance	Altitude	Speed	MEA	MOCA	Arc Center Lat (D° M' S.ss")	Arc Center Lon (D° M' S.ss")	Arc Radius (NM)
	RAFII WP	N34 14 26.88	W117 19 54.42		IF				8000	240					
	WELDR_ WP	N34 08 13.09	W117 19 45.27	FB	TF	178.83	166.83	6.22	8000		7900	7800			
	ESAYE_ WP	N34 00 39.63	W117 27 56.51	FB	TF	222.07	210.07	10.16	6000		4500	4500			
	EFFXX_ WP	N33 56 33.87	W117 32 27.17	FB	TF	222.56	210.56	5.55	6000	210	4000	4000			
	CASIE_ WP	N33 58 03.39	W117 43 46.12	FO	TF	279.04	267.04	9.53			3800	3800			
	CASIE_ WP	N33 58 03.39	W117 43 46.12		FM	279.04	267.04								

## Runway Transition Data - KONT:RW26B

DB	End Point	Latitude (D° M' S.ss")	Longitude (D° M' S.ss")	FO/FB	Leg	TC	MC	Distance	Altitude	Speed	MEA	MOCA	Arc Center Lat (D° M' S.ss")	Arc Center Lon (D° M' S.ss")	Arc Radius (NM)
	RAFII WP	N34 14 26.88	W117 19 54.42		IF				8000	240					
	BOTIE WP	N34 12 44.02	W117 18 40.17	FO	TF	149.05	137.05	2.00			8000	7700			
	BOTIE WP	N34 12 44.02	W117 18 40.17		FM	149.05	137.05								

## Waypoint Data

DB	Waypoint	Arc Center	Lat-Long (DMS.S)	Latitude (Deg)	Longitude (Deg)	Latitude (D°, M.mm')	Longitude (D°, M.mm')	Latitude (D° M' S.ss")	Longitude (D° M' S.ss")
	BOTIE WP		341244.02N-1171840.17W	N 34.2122287	W 117.3111589	N34 12.734	W117 18.670	N34 12 44.02	W117 18 40.17
	CASAA WP		342657.28N-1172853.23W	N 34.4492456	W 117.4814515	N34 26.955	W117 28.887	N34 26 57.28	W117 28 53.23
	CASIE_ WP		335803.39N-1174346.12W	N 33.9676085	W 117.7294772	N33 58.057	W117 43.769	N33 58 03.39	W117 43 46.12
	DODJR WP		342938.86N-1173703.96W	N 34.4941277	W 117.6177657	N34 29.648	W117 37.066	N34 29 38.86	W117 37 03.96
	EFFXX_ WP		335633.87N-1173227.17W	N 33.9427417	W 117.5408806	N33 56.564	W117 32.453	N33 56 33.87	W117 32 27.17
	ESAYE_ WP		340039.63N-1172756.51W	N 34.0110088	W 117.4656976	N34 00.661	W117 27.942	N34 00 39.63	W117 27 56.51
	FFLEX WP		354626.42N-1193925.08W	N 35.7740053	W 119.6569663	N35 46.440	W119 39.418	N35 46 26.42	W119 39 25.08
	GLRNO WP		344651.00N-1182011.10W	N 34.7808333	W 118.3364167	N34 46.850	W118 20.185	N34 46 51.00	W118 20 11.10
	JEEYU WP		343433.50N-1180416.00W	N 34.5759722	W 118.0711111	N34 34.558	W118 04.267	N34 34 33.50	W118 04 16.00
	KARNY WP		352411.50N-1185039.00W	N 35.4031944	W 118.8441667	N35 24.192	W118 50.650	N35 24 11.50	W118 50 39.00
	MURDY WP		351858.60N-1190224.60W	N 35.3162778	W 119.0401667	N35 18.977	W119 02.410	N35 18 58.60	W119 02 24.60
	OYVEY WP		354759.00N-1185521.00W	N 35.7997222	W 118.9225000	N35 47.983	W118 55.350	N35 47 59.00	W118 55 21.00
	RAFII WP		341426.88N-1171954.42W	N 34.2408000	W 117.3317833	N34 14.448	W117 19.907	N34 14 26.88	W117 19 54.42
	SOSHA WP		353618.00N-1185303.00W	N 35.6050000	W 118.8841667	N35 36.300	W118 53.050	N35 36 18.00	W118 53 03.00
AVNIS	TFD VORTAC		325309.08N-1115431.44W	N 32.8858556	W 111.9087333	N32 53.151	W111 54.524	N32 53 09.08	W111 54 31.44
	TRJAN WP		343210.67N-1175102.70W	N 34.5362970	W 117.8507500	N34 32.178	W117 51.045	N34 32 10.67	W117 51 02.70
	WELDR_ WP		340813.09N-1171945.27W	N 34.1369681	W 117.3292411	N34 08.218	W117 19.754	N34 08 13.09	W117 19 45.27

## RS Results GLRNO CR

Last Evaluation: 12-Apr-2016 11:35:08  
Reference Software Version: 1.5.3

## Route Evaluation for FFLEX:GLRNO CR:KONT:RW08B

GLRNO RNAV

## FFLEX:GLRNO CR:KONT:RW08B Evaluation Results Part 1/2

Leg Tp	End Pt	Turn Tp	Alt Restr	Alt Restr 2	Spd Restr	Turn Ang	Leg Length	Min Seg Length
IF	FFLEX						0.0	0.0
TF	MURDY	FLY_BY				0.15	40.79	1.0
TF	GLRNO	FLY_BY	+24000.0			0.02	47.23	1.0
TF	JEEYU	FLY_BY	-23000.0			30.93	17.97	10.75
TF	TRJAN	FLY_BY	+15000.0			0.07	11.18	10.75
TF	DODJR	FLY_BY	+14000.0	-15000.0	250.0	9.24	11.82	1.0
TF	CASAA	FLY_BY	+11000.0			37.46	7.28	2.07
TF	RAFII	FLY_BY	8000.0		240.0	29.57	14.53	3.77
TF	WELDR_	FLY_BY	8000.0			43.24	6.22	3.39
TF	ESAYE_	FLY_BY	6000.0			0.56	10.16	1.7
TF	EFFXX_	FLY_BY	6000.0		210.0	56.53	5.55	1.46
TF	CASIE_	FLY_OVER					9.53	1.46
FM							0.0	0.0

## FFLEX:GLRNO CR:KONT:RW08B Evaluation Results Part 2/2

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	FFLEX				0.0	0.0							0.0	0.0				
TF	MURDY	FLY_BY	0.0		41000.0	300.0	0.0	128.0	629.0	570.0	0.07	54.11	36050.21	300.0	5.0	118.0	569.0	570.0
TF	GLRNO	FLY_BY	0.07	54.11	36050.21	300.0	5.0	118.0	569.0	570.0	0.0		24242.67	300.0	0.0	95.0	456.0	528.0
TF	JEEYU	FLY_BY	0.0		24242.67	300.0	0.0	95.0	456.0	528.0	10.75	38.86	19750.08	300.0	5.0	86.0	421.0	483.0
TF	TRJAN	FLY_BY	10.75	38.86	19750.08	300.0	5.0	86.0	421.0	483.0	0.12	194.75	16956.11	300.0	1.0	81.0	402.0	483.0
TF	DODJR	FLY_BY	0.12	194.75	16956.11	300.0	1.0	81.0	402.0	483.0	2.26	27.99	14000.0	250.0	4.62	75.0	319.0	394.0
TF	CASAA	FLY_BY	2.26	27.99	14000.0	250.0	4.62	75.0	319.0	394.0	2.07	6.11	11632.92	250.0	18.73	70.0	307.0	377.0
TF	RAFII	FLY_BY	2.07	6.11	11632.92	250.0	18.73	70.0	307.0	377.0	1.69	6.42	8000.0	240.0	14.78	63.0	278.0	341.0
TF	WELDR_	FLY_BY	1.69	6.42	8000.0	240.0	14.78	63.0	278.0	341.0	1.7	4.28	8000.0	240.0	21.62	63.0	278.0	341.0
TF	ESAYE_	FLY_BY	1.7	4.28	8000.0	240.0	21.62	63.0	278.0	341.0	0.44	90.36	6000.0	240.0	1.0	59.0	270.0	329.0
TF	EFFXX_	FLY_BY	0.44	90.36	6000.0	240.0	1.0	59.0	270.0	329.0	1.46	2.72	6000.0	210.0	25.0	59.0	236.0	295.0
TF	CASIE_	FLY_OVER	1.46	2.72	6000.0	210.0	25.0	59.0	236.0	295.0	0.0		3800.0	210.0	0.0	55.0	228.0	283.0
FM			0.0		3800.0	210.0	0.0	55.0	228.0	283.0			0.0	0.0				

## FFLEX:GLRNO CR:KONT:RW08B Obstacle Evaluation

Start Pt	End Pt	Name	Source	AC (H/V (ft) AMSL)	Lat	Long	Height (ft) AMSL	Mnts Area	Pri/Sec Area	ROC (ft)	WCVH (ft)	MOCA (ft)	Min OCS Alt (ft)	Date
FFLEX	MURDY	06-002279	AIRNAV 2	3C (+- 100/+20)	N35° 31' 34.00"	W119° 18' 43.00"	728.0	true	P	2000.0		2728	2728.0	12-Apr-2016 11:35:31
MURDY	GLRNO	TerrainPt_19_FFLEX:GLRNO CR:KONT:RW08B_MURDY:GLR NO		4E (+- 250/+125)	N35° 02' 27.00"	W118° 34' 18.00"	7765.75	true	P	2000.0		9966	9965.75	12-Apr-2016 11:38:18
GLRNO	JEEYU	TerrainPt_4_FFLEX:GLRNO CR:KONT:RW08B_GLRNO:JEE YU		4E (+- 250/+125)	N34° 32' 54.00"	W118° 12' 45.00"	4990.16	true	S	1000.96		6192	6191.12	12-Apr-2016 11:38:18
JEEYU	TRJAN	TerrainPt_29_FFLEX:GLRNO CR:KONT:RW08B_JEEYU:TRJA N		4E (+- 250/+125)	N34° 28' 33.00"	W118° 03' 09.00"	5062.34	true	S	1083.26		6346	6345.6	12-Apr-2016 11:38:18
TRJAN	DODJR	TerrainPt_41_FFLEX:GLRNO CR:KONT:RW08B_TRJAN:DODJ R		4E (+- 250/+125)	N34° 27' 21.00"	W117° 36' 42.00"	3861.55	true	P	2000.0		6062	6061.55	12-Apr-2016 11:38:18
DODJR	CASAA	TerrainPt_33_FFLEX:GLRNO CR:KONT:RW08B_DODJR:CAS AA		4E (+- 250/+125)	N34° 24' 21.00"	W117° 30' 00.00"	4087.93	true	P	2000.0		6288	6287.93	12-Apr-2016 11:38:18
CASAA	RAFII	TerrainPt_18_FFLEX:GLRNO CR:KONT:RW08B_CASAA:RAFII		4E (+- 250/+125)	N34° 15' 27.00"	W117° 22' 00.00"	5695.54	true	P	2000.0		7896	7895.54	12-Apr-2016 11:38:18
RAFII	WELDR_	TerrainPt_6_FFLEX:GLRNO CR:KONT:RW08B_RAFII:WELD R_		4E (+- 250/+125)	N34° 15' 09.00"	W117° 21' 15.00"	5561.02	true	P	2000.0		7762	7761.02	12-Apr-2016 11:38:18
WELDR_	ESAYE_	TerrainPt_20_FFLEX:GLRNO CR:KONT:RW08B_WELDR_:ES AYE_		4E (+- 250/+125)	N34° 01' 54.00"	W117° 26' 36.00"	2217.85	true	P	2000.0		4418	4417.85	12-Apr-2016 11:38:18
ESAYE_	EFFXX_	TerrainPt_32_FFLEX:GLRNO CR:KONT:RW08B_ESAYE_:EFF XX_		4E (+- 250/+125)	N34° 01' 48.00"	W117° 28' 24.00"	1768.37	true	P	2000.0		3969	3968.37	12-Apr-2016 11:38:18
EFFXX_	CASIE_	TerrainPt_0_FFLEX:GLRNO CR:KONT:RW08B_EFFXX_:CAS IE_		4E (+- 250/+125)	N33° 56' 06.00"	W117° 44' 18.00"	1535.43	true	P	2000.0		3736	3735.43	12-Apr-2016 11:38:18

## FFLEX:GLRNO CR:KONT:RW08B Criteria Failures

No failures.

## Route Evaluation for FFLEX:GLRNO CR:KONT:RW26B

### FFLEX:GLRNO CR:KONT:RW26B Evaluation Results Part 1/2

Leg Tp	End Pt	Turn Tp	Alt Restr	Alt Restr 2	Spd Restr	Turn Ang	Leg Length	Min Seg Length
IF	FFLEX						0.0	0.0
TF	MURDY	FLY_BY				0.15	40.79	1.0
TF	GLRNO	FLY_BY	+24000.0			0.02	47.23	1.0
TF	JEEYU	FLY_BY	-23000.0			30.93	17.97	10.75
TF	TRJAN	FLY_BY	+15000.0			0.07	11.18	10.75
TF	DODJR	FLY_BY	+14000.0	-15000.0	250.0	9.24	11.82	1.0
TF	CASAA	FLY_BY	+11000.0			37.46	7.28	2.07
TF	RAFII	FLY_BY	8000.0		240.0	0.22	14.53	2.07
TF	BOTIE	FLY_OVER					2.0	1.0
FM							0.0	0.0

### FFLEX:GLRNO CR:KONT:RW26B Evaluation Results Part 2/2

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	FFLEX				0.0	0.0							0.0	0.0				
TF	MURDY	FLY_BY	0.0		41000.0	300.0	0.0	128.0	629.0	570.0	0.07	54.11	36050.21	300.0	5.0	118.0	569.0	570.0
TF	GLRNO	FLY_BY	0.07	54.11	36050.21	300.0	5.0	118.0	569.0	570.0	0.0		24242.67	300.0	0.0	95.0	456.0	528.0
TF	JEEYU	FLY_BY	0.0		24242.67	300.0	0.0	95.0	456.0	528.0	10.75	38.86	19750.08	300.0	5.0	86.0	421.0	483.0
TF	TRJAN	FLY_BY	10.75	38.86	19750.08	300.0	5.0	86.0	421.0	483.0	0.12	194.75	16956.11	300.0	1.0	81.0	402.0	483.0
TF	DODJR	FLY_BY	0.12	194.75	16956.11	300.0	1.0	81.0	402.0	483.0	2.26	27.99	14000.0	250.0	4.62	75.0	319.0	394.0
TF	CASAA	FLY_BY	2.26	27.99	14000.0	250.0	4.62	75.0	319.0	394.0	2.07	6.11	11632.92	250.0	18.73	70.0	307.0	377.0
TF	RAFII	FLY_BY	2.07	6.11	11632.92	250.0	18.73	70.0	307.0	377.0	0.19	97.07	8000.0	240.0	1.0	63.0	278.0	341.0
TF	BOTIE	FLY_OVER	0.19	97.07	8000.0	240.0	1.0	63.0	278.0	341.0	0.0		8000.0	240.0	0.0	63.0	278.0	341.0
FM			0.0		8000.0	240.0	0.0	63.0	278.0	341.0			0.0	0.0				

## FFLEX:GLRNO CR:KONT:RW26B Obstacle Evaluation

Start Pt	End Pt	Name	Source	AC (H/V (ft) AMSL)	Lat	Long	Height (ft) AMSL	Mnts Area	Pri/Sec Area	ROC (ft)	WCVH (ft)	MOCA (ft)	Min OCS Alt (ft)	Date
FFLEX	MURDY	06-002279	AIRNAV 2	3C (+- 100/+20)	N35° 31' 34.00"	W119° 18' 43.00"	728.0	true	P	2000.0		2728	2728.0	12-Apr-2016 11:35:31
MURDY	GLRNO	TerrainPt_19_FFLEX:GLRNO CR:KONT:RW08B_MURDY:GLR NO		4E (+- 250/+125)	N35° 02' 27.00"	W118° 34' 18.00"	7765.75	true	P	2000.0		9966	9965.75	12-Apr-2016 11:38:18
GLRNO	JEEYU	TerrainPt_4_FFLEX:GLRNO CR:KONT:RW08B_GLRNO:JEE YU		4E (+- 250/+125)	N34° 32' 54.00"	W118° 12' 45.00"	4990.16	true	S	1000.96		6192	6191.12	12-Apr-2016 11:38:18
JEEYU	TRJAN	TerrainPt_29_FFLEX:GLRNO CR:KONT:RW08B_JEEYU:TRJA N		4E (+- 250/+125)	N34° 28' 33.00"	W118° 03' 09.00"	5062.34	true	S	1083.26		6346	6345.6	12-Apr-2016 11:38:18
TRJAN	DODJR	TerrainPt_41_FFLEX:GLRNO CR:KONT:RW08B_TRJAN:DODJ R		4E (+- 250/+125)	N34° 27' 21.00"	W117° 36' 42.00"	3861.55	true	P	2000.0		6062	6061.55	12-Apr-2016 11:38:18
DODJR	CASAA	TerrainPt_33_FFLEX:GLRNO CR:KONT:RW08B_DODJR:CAS AA		4E (+- 250/+125)	N34° 24' 21.00"	W117° 30' 00.00"	4087.93	true	P	2000.0		6288	6287.93	12-Apr-2016 11:38:18
CASAA	RAFII	TerrainPt_18_FFLEX:GLRNO CR:KONT:RW08B_CASAA:RAFII		4E (+- 250/+125)	N34° 15' 27.00"	W117° 22' 00.00"	5695.54	true	P	2000.0		7896	7895.54	12-Apr-2016 11:38:18
RAFII	BOTIE	TerrainPt_50_FFLEX:GLRNO CR:KONT:RW26B_RAFII:BOTIE		4E (+- 250/+125)	N34° 13' 57.00"	W117° 16' 45.00"	5442.91	true	P	2000.0		7643	7642.91	12-Apr-2016 11:38:19

## FFLEX:GLRNO CR:KONT:RW26B Criteria Failures

No failures.



## Route Evaluation for OYVEY:GLRNO CR:KONT:RW08B

### OYVEY:GLRNO CR:KONT:RW08B Evaluation Results Part 1/2

Leg Tp	End Pt	Turn Tp	Alt Restr	Alt Restr 2	Spd Restr	Turn Ang	Leg Length	Min Seg Length
IF	OYVEY						0.0	0.0
TF	SOSHA	FLY_BY				0.11	11.82	1.0
TF	KARNY	FLY_BY				24.8	12.25	11.89
TF	GLRNO	FLY_BY	+24000.0			13.31	44.89	17.31
TF	JEEYU	FLY_BY	-23000.0			30.93	17.97	16.17
TF	TRJAN	FLY_BY	+15000.0			0.07	11.18	10.75
TF	DODJR	FLY_BY	+14000.0	-15000.0	250.0	9.24	11.82	1.0
TF	CASAA	FLY_BY	+11000.0			37.46	7.28	2.07
TF	RAFII	FLY_BY	8000.0		240.0	29.57	14.53	3.77
TF	WELDR_	FLY_BY	8000.0			43.24	6.22	3.39
TF	ESAYE_	FLY_BY	6000.0			0.56	10.16	1.7
TF	EFFXX_	FLY_BY	6000.0		210.0	56.53	5.55	1.46
TF	CASIE_	FLY_OVER					9.53	1.46
FM							0.0	0.0

### OYVEY:GLRNO CR:KONT:RW08B Evaluation Results Part 2/2

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	OYVEY				0.0	0.0							0.0	0.0				
TF	SOSHA	FLY_BY	0.0		41000.0	300.0	0.0	128.0	629.0	570.0	0.05	54.11	38526.51	300.0	5.0	123.0	598.0	570.0
TF	KARNY	FLY_BY	0.05	54.11	38526.51	300.0	5.0	123.0	598.0	570.0	11.89	54.11	35464.62	300.0	5.0	117.0	562.0	570.0
TF	GLRNO	FLY_BY	11.89	54.11	35464.62	300.0	5.0	117.0	562.0	570.0	5.42	46.43	24242.67	300.0	5.0	95.0	456.0	528.0
TF	JEEYU	FLY_BY	5.42	46.43	24242.67	300.0	5.0	95.0	456.0	528.0	10.75	38.86	19750.08	300.0	5.0	86.0	421.0	483.0
TF	TRJAN	FLY_BY	10.75	38.86	19750.08	300.0	5.0	86.0	421.0	483.0	0.12	194.75	16956.11	300.0	1.0	81.0	402.0	483.0
TF	DODJR	FLY_BY	0.12	194.75	16956.11	300.0	1.0	81.0	402.0	483.0	2.26	27.99	14000.0	250.0	4.62	75.0	319.0	394.0
TF	CASAA	FLY_BY	2.26	27.99	14000.0	250.0	4.62	75.0	319.0	394.0	2.07	6.11	11632.92	250.0	18.73	70.0	307.0	377.0
TF	RAFII	FLY_BY	2.07	6.11	11632.92	250.0	18.73	70.0	307.0	377.0	1.69	6.42	8000.0	240.0	14.78	63.0	278.0	341.0
TF	WELDR_	FLY_BY	1.69	6.42	8000.0	240.0	14.78	63.0	278.0	341.0	1.7	4.28	8000.0	240.0	21.62	63.0	278.0	341.0
TF	ESAYE_	FLY_BY	1.7	4.28	8000.0	240.0	21.62	63.0	278.0	341.0	0.44	90.36	6000.0	240.0	1.0	59.0	270.0	329.0
TF	EFFXX_	FLY_BY	0.44	90.36	6000.0	240.0	1.0	59.0	270.0	329.0	1.46	2.72	6000.0	210.0	25.0	59.0	236.0	295.0
TF	CASIE_	FLY_OVER	1.46	2.72	6000.0	210.0	25.0	59.0	236.0	295.0	0.0		3800.0	210.0	0.0	55.0	228.0	283.0
FM			0.0		3800.0	210.0	0.0	55.0	228.0	283.0			0.0	0.0				

GLRNO RNAV

## OYVEY:GLRNO CR:KONT:RW08B Obstacle Evaluation

Start Pt	End Pt	Name	Source	AC (H/V (ft) AMSL)	Lat	Long	Height (ft) AMSL	Mnts Area	Pri/Sec Area	ROC (ft)	WCVH (ft)	MOCA (ft)	Min OCS Alt (ft)	Date
OYVEY	SOSHA	TerrainPt_46_OYVEY:GLRNO CR:KONT:RW08B_OYVEY:SOS HA		4E (+- 250/+125)	N35° 45' 39.00"	W118° 47' 27.00"	4409.45	true	S	1005.31		5615	5614.76	12-Apr-2016 11:38:19
SOSHA	KARNY	TerrainPt_55_OYVEY:GLRNO CR:KONT:RW08B_SOSHA:KAR NY		4E (+- 250/+125)	N35° 26' 15.00"	W118° 44' 30.00"	3530.18	true	P	2000.0		5731	5730.18	12-Apr-2016 11:38:19
KARNY	GLRNO	TerrainPt_3_OYVEY:GLRNO CR:KONT:RW08B_KARNY:GLR NO		4E (+- 250/+125)	N35° 02' 00.00"	W118° 29' 15.00"	7979.0	true	P	2000.0		10180	10179.0	12-Apr-2016 11:38:19
GLRNO	JEEYU	TerrainPt_4_FFLEX:GLRNO CR:KONT:RW08B_GLRNO:JEE YU		4E (+- 250/+125)	N34° 32' 54.00"	W118° 12' 45.00"	4990.16	true	S	1000.96		6192	6191.12	12-Apr-2016 11:38:18
JEEYU	TRJAN	TerrainPt_29_FFLEX:GLRNO CR:KONT:RW08B_JEEYU:TRJA N		4E (+- 250/+125)	N34° 28' 33.00"	W118° 03' 09.00"	5062.34	true	S	1083.26		6346	6345.6	12-Apr-2016 11:38:18
TRJAN	DODJR	TerrainPt_41_FFLEX:GLRNO CR:KONT:RW08B_TRJAN:DODJ R		4E (+- 250/+125)	N34° 27' 21.00"	W117° 36' 42.00"	3861.55	true	P	2000.0		6062	6061.55	12-Apr-2016 11:38:18
DODJR	CASAA	TerrainPt_33_FFLEX:GLRNO CR:KONT:RW08B_DODJR:CAS AA		4E (+- 250/+125)	N34° 24' 21.00"	W117° 30' 00.00"	4087.93	true	P	2000.0		6288	6287.93	12-Apr-2016 11:38:18
CASAA	RAFII	TerrainPt_18_FFLEX:GLRNO CR:KONT:RW08B_CASAA:RAFII		4E (+- 250/+125)	N34° 15' 27.00"	W117° 22' 00.00"	5695.54	true	P	2000.0		7896	7895.54	12-Apr-2016 11:38:18
RAFII	WELDR_	TerrainPt_6_FFLEX:GLRNO CR:KONT:RW08B_RAFII:WELD R_		4E (+- 250/+125)	N34° 15' 09.00"	W117° 21' 15.00"	5561.02	true	P	2000.0		7762	7761.02	12-Apr-2016 11:38:18
WELDR_	ESAYE_	TerrainPt_20_FFLEX:GLRNO CR:KONT:RW08B_WELDR_:ES AYE_		4E (+- 250/+125)	N34° 01' 54.00"	W117° 26' 36.00"	2217.85	true	P	2000.0		4418	4417.85	12-Apr-2016 11:38:18
ESAYE_	EFFXX_	TerrainPt_32_FFLEX:GLRNO CR:KONT:RW08B_ESAYE_:EFF XX_		4E (+- 250/+125)	N34° 01' 48.00"	W117° 28' 24.00"	1768.37	true	P	2000.0		3969	3968.37	12-Apr-2016 11:38:18
EFFXX_	CASIE_	TerrainPt_0_FFLEX:GLRNO CR:KONT:RW08B_EFFXX_:CAS IE_		4E (+- 250/+125)	N33° 56' 06.00"	W117° 44' 18.00"	1535.43	true	P	2000.0		3736	3735.43	12-Apr-2016 11:38:18

## OYVEY:GLRNO CR:KONT:RW08B Criteria Failures

No failures.
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## Route Evaluation for OYVEY:GLRNO CR:KONT:RW26B

### OYVEY:GLRNO CR:KONT:RW26B Evaluation Results Part 1/2

Leg Tp	End Pt	Turn Tp	Alt Restr	Alt Restr 2	Spd Restr	Turn Ang	Leg Length	Min Seg Length
IF	OYVEY						0.0	0.0
TF	SOSHA	FLY_BY				0.11	11.82	1.0
TF	KARNY	FLY_BY				24.8	12.25	11.89
TF	GLRNO	FLY_BY	+24000.0			13.31	44.89	17.31
TF	JEEYU	FLY_BY	-23000.0			30.93	17.97	16.17
TF	TRJAN	FLY_BY	+15000.0			0.07	11.18	10.75
TF	DODJR	FLY_BY	+14000.0	-15000.0	250.0	9.24	11.82	1.0
TF	CASAA	FLY_BY	+11000.0			37.46	7.28	2.07
TF	RAFII	FLY_BY	8000.0		240.0	0.22	14.53	2.07
TF	BOTIE	FLY_OVER					2.0	1.0
FM							0.0	0.0

### OYVEY:GLRNO CR:KONT:RW26B Evaluation Results Part 2/2

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	OYVEY				0.0	0.0							0.0	0.0				
TF	SOSHA	FLY_BY	0.0		41000.0	300.0	0.0	128.0	629.0	570.0	0.05	54.11	38526.51	300.0	5.0	123.0	598.0	570.0
TF	KARNY	FLY_BY	0.05	54.11	38526.51	300.0	5.0	123.0	598.0	570.0	11.89	54.11	35464.62	300.0	5.0	117.0	562.0	570.0
TF	GLRNO	FLY_BY	11.89	54.11	35464.62	300.0	5.0	117.0	562.0	570.0	5.42	46.43	24242.67	300.0	5.0	95.0	456.0	528.0
TF	JEEYU	FLY_BY	5.42	46.43	24242.67	300.0	5.0	95.0	456.0	528.0	10.75	38.86	19750.08	300.0	5.0	86.0	421.0	483.0
TF	TRJAN	FLY_BY	10.75	38.86	19750.08	300.0	5.0	86.0	421.0	483.0	0.12	194.75	16956.11	300.0	1.0	81.0	402.0	483.0
TF	DODJR	FLY_BY	0.12	194.75	16956.11	300.0	1.0	81.0	402.0	483.0	2.26	27.99	14000.0	250.0	4.62	75.0	319.0	394.0
TF	CASAA	FLY_BY	2.26	27.99	14000.0	250.0	4.62	75.0	319.0	394.0	2.07	6.11	11632.92	250.0	18.73	70.0	307.0	377.0
TF	RAFII	FLY_BY	2.07	6.11	11632.92	250.0	18.73	70.0	307.0	377.0	0.19	97.07	8000.0	240.0	1.0	63.0	278.0	341.0
TF	BOTIE	FLY_OVER	0.19	97.07	8000.0	240.0	1.0	63.0	278.0	341.0	0.0		8000.0	240.0	0.0	63.0	278.0	341.0
FM			0.0		8000.0	240.0	0.0	63.0	278.0	341.0			0.0	0.0				

## OYVEY:GLRNO CR:KONT:RW26B Obstacle Evaluation

Start Pt	End Pt	Name	Source	AC (H/V (ft) AMSL)	Lat	Long	Height (ft) AMSL	Mnts Area	Pri/Sec Area	ROC (ft)	WCVH (ft)	MOCA (ft)	Min OCS Alt (ft)	Date
OYVEY	SOSHA	TerrainPt_46_OYVEY:GLRNO CR:KONT:RW08B_OYVEY:SOS HA		4E (+- 250/+125)	N35° 45' 39.00"	W118° 47' 27.00"	4409.45	true	S	1005.31		5615	5614.76	12-Apr-2016 11:38:19
SOSHA	KARNY	TerrainPt_55_OYVEY:GLRNO CR:KONT:RW08B_SOSHA:KAR NY		4E (+- 250/+125)	N35° 26' 15.00"	W118° 44' 30.00"	3530.18	true	P	2000.0		5731	5730.18	12-Apr-2016 11:38:19
KARNY	GLRNO	TerrainPt_3_OYVEY:GLRNO CR:KONT:RW08B_KARNY:GLR NO		4E (+- 250/+125)	N35° 02' 00.00"	W118° 29' 15.00"	7979.0	true	P	2000.0		10180	10179.0	12-Apr-2016 11:38:19
GLRNO	JEEYU	TerrainPt_4_FFLEX:GLRNO CR:KONT:RW08B_GLRNO:JEE YU		4E (+- 250/+125)	N34° 32' 54.00"	W118° 12' 45.00"	4990.16	true	S	1000.96		6192	6191.12	12-Apr-2016 11:38:18
JEEYU	TRJAN	TerrainPt_29_FFLEX:GLRNO CR:KONT:RW08B_JEEYU:TRJA N		4E (+- 250/+125)	N34° 28' 33.00"	W118° 03' 09.00"	5062.34	true	S	1083.26		6346	6345.6	12-Apr-2016 11:38:18
TRJAN	DODJR	TerrainPt_41_FFLEX:GLRNO CR:KONT:RW08B_TRJAN:DODJ R		4E (+- 250/+125)	N34° 27' 21.00"	W117° 36' 42.00"	3861.55	true	P	2000.0		6062	6061.55	12-Apr-2016 11:38:18
DODJR	CASAA	TerrainPt_33_FFLEX:GLRNO CR:KONT:RW08B_DODJR:CAS AA		4E (+- 250/+125)	N34° 24' 21.00"	W117° 30' 00.00"	4087.93	true	P	2000.0		6288	6287.93	12-Apr-2016 11:38:18
CASAA	RAFII	TerrainPt_18_FFLEX:GLRNO CR:KONT:RW08B_CASAA:RAFII		4E (+- 250/+125)	N34° 15' 27.00"	W117° 22' 00.00"	5695.54	true	P	2000.0		7896	7895.54	12-Apr-2016 11:38:18
RAFII	BOTIE	TerrainPt_50_FFLEX:GLRNO CR:KONT:RW26B_RAFII:BOTIE		4E (+- 250/+125)	N34° 13' 57.00"	W117° 16' 45.00"	5442.91	true	P	2000.0		7643	7642.91	12-Apr-2016 11:38:19

## OYVEY:GLRNO CR:KONT:RW26B Criteria Failures

No failures.

### Evaluation Input

Name:	RS Results GLRNO CR
Project:	ONT GLRNO STAR_paperwork_12E-250DODJR_20151127
Last evaluated:	12-Apr-2016 11:35:08
Evaluated obstacles?:	true
Obstacle Database:	AIRNAV2
Evaluated terrain?:	true
Worst Case Vegetation Height (ft) AGL:	0

## 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

## Procedure Criteria Failures

No failures.

## Evaluation Notes and Warnings

CEW14: In the route beginning at FFLEX and ending at CASIE\_, on the leg from JEEYU to TRJAN an alternative OEA construction method was applied.  
 CEW14: In the route beginning at FFLEX and ending at BOTIE, on the leg from JEEYU to TRJAN an alternative OEA construction method was applied.  
 CEW14: In the route beginning at OYVEY and ending at CASIE\_, on the leg from SOSHA to KARNY an alternative OEA construction method was applied.  
 CEW14: In the route beginning at OYVEY and ending at CASIE\_, on the leg from JEEYU to TRJAN an alternative OEA construction method was applied.  
 CEW14: In the route beginning at OYVEY and ending at BOTIE, on the leg from SOSHA to KARNY an alternative OEA construction method was applied.  
 CEW14: In the route beginning at OYVEY and ending at BOTIE, on the leg from JEEYU to TRJAN an alternative OEA construction method was applied.

## Obstacles Requiring Accuracy Code Verification

None.

## 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	04/12/2016
DOF	03/31/2016
AVNII_OFFLINE	N/A
AIRNAV2	04/12/2016
CIFP	03/31/2016

**Notes:**