

ONT RNAV (RNP) Rwy 08R 5.26.16

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_ | WP6942 3200 | FB | 1.0 | 3200.00 | | 3.48 | 21124.42312 | 278.99 | 8.63 | 89.64 | RIGHT |
| INTERMEDIATE | TF | WP6942 3200 | WP422 | FB | 1.0 | 2900.00 | | 1.12 | 6790.03006 | 8.63 | 8.64 | | RIGHT |
| INTERMEDIATE | RF | WP422 | STAAG_65TCH | FB | 0.8 | 2000.00 | 2000.00 | 3.18 | 19346.19222 | 8.66 | 89.93 | 81.27 | RIGHT |
| FINAL | TF | STAAG_65TCH | KONT:RW08R:AER | FB | 0.3 | | | 3.14 | 19061.00000 | 89.93 | 89.97 | 0.00 | |
| MISSED_APPROACH | TF | KONT:RW08R:AER | HOYQU [AVNIS] | FB | 1.0 | | | 4.91 | 29833.51111 | 89.97 | 90.02 | 87.29 | RIGHT |
| MISSED_APPROACH | TF | HOYQU [AVNIS] | DLIUS | FB | 1.0 | | | 8.24 | 50063.40627 | 177.31 | 177.32 | | |

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 | | | | 28.13 | | |
| INTERMEDIATE | RF | COLTN_ | WP6942 3200 | FB | | 2.2215 | | | WP424 | |
| INTERMEDIATE | TF | WP6942 3200 | WP422 | FB | -190.0 | | | 27.84 | | |
| INTERMEDIATE | RF | WP422 | STAAG_65TCH | FB | | 2.2446 | | | WP423 | |
| FINAL | TF | STAAG_65TCH | KONT:RW08R:AER | FB | | | | | | |
| MISSED_APPROACH | TF | KONT:RW08R:AER | HOYQU [AVNIS] | FB | | | | | | |
| MISSED_APPROACH | TF | HOYQU [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] | GRHRT_ | FB | 0.8 | 2900.00 | | 3.60 | 21873.78932 | 91.94 | 91.98 | 2.40 | LEFT |
| INTERMEDIATE | TF | GRHRT_ | STAAG_65TCH | FB | 0.8 | 2000.00 | 2000.00 | 3.05 | 18506.59983 | 89.58 | 89.61 | 0.32 | RIGHT |
| FINAL | TF | STAAG_65TCH | KONT:RW08R:AER | FB | 0.3 | | | 3.14 | 19061.00000 | 89.93 | 89.97 | 0.00 | |
| MISSED_APPROACH | TF | KONT:RW08R:AER | HOYQU [AVNIS] | FB | 1.0 | | | 4.91 | 29833.51111 | 89.97 | 90.02 | 87.29 | RIGHT |
| MISSED_APPROACH | TF | HOYQU [AVNIS] | DLIUS | FB | 1.0 | | | 8.24 | 50063.40627 | 177.31 | 177.32 | | |

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] | GRHRT_ | FB | | | | | | |
| INTERMEDIATE | TF | GRHRT_ | STAAG_65TCH | FB | | | | | | |
| FINAL | TF | STAAG_65TCH | KONT:RW08R:AER | FB | | | | | | |
| MISSED_APPROACH | TF | KONT:RW08R:AER | HOYQU [AVNIS] | FB | | | | | | |
| MISSED_APPROACH | TF | HOYQU [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_ | CCCC3 | FB | 1.0 | 3700.00 | | 2.95 | 17950.00024 | 270.00 | 269.97 | | LEFT |
| INTERMEDIATE | RF | CCCC3 | CCCC4 | FB | 0.3 | 2800.00 | | 3.52 | 21382.83826 | 269.97 | 169.60 | 100.37 | LEFT |
| INTERMEDIATE | RF | CCCC4 | STAAG_65TCH | FB | 0.3 | 2000.00 | 2000.00 | 2.79 | 16979.91080 | 169.60 | 89.93 | 79.66 | LEFT |
| FINAL | TF | STAAG_65TCH | KONT:RW08R:AER | FB | 0.3 | | | 3.14 | 19061.00000 | 89.93 | 89.97 | 0.00 | |
| MISSED_APPROACH | TF | KONT:RW08R:AER | HOYQU [AVNIS] | FB | 1.0 | | | 4.91 | 29833.51111 | 89.97 | 90.02 | 87.29 | RIGHT |
| MISSED_APPROACH | TF | HOYQU [AVNIS] | DLIUS | FB | 1.0 | | | 8.24 | 50063.40627 | 177.31 | 177.32 | | |

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_ | CCCC3 | FB | -180.0 | | | 29.13 | | |
| INTERMEDIATE | RF | CCCC3 | CCCC4 | FB | | 2.0093 | | | WP405 | |
| INTERMEDIATE | RF | CCCC4 | STAAG_65TCH | FB | | 2.0093 | | | WP403 | |
| FINAL | TF | STAAG_65TCH | KONT:RW08R:AER | FB | | | | | | |
| MISSED_APPROACH | TF | KONT:RW08R:AER | HOYQU [AVNIS] | FB | | | | | | |
| MISSED_APPROACH | TF | HOYQU [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") |
|-------|----------------|----------------|-----------------|-----------------------------|------------------------------|------------------------|-------------------------|
| | CCCC3 WP | N 34.12201 | W 117.67922 | N34 7.32057 | W117 40.75312 | N34 07 19.23432 | W117 40 45.18716 |
| | CCCC4 WP | N 34.08241 | W 117.71886 | N34 4.94470 | W117 43.13143 | N34 04 56.68172 | W117 43 7.88578 |
| | 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 |
| | GRHRT_ WP | N 34.05456 | W 117.74025 | N34 3.27330 | W117 44.41487 | N34 03 16.39812 | W117 44 24.89198 |
| AVNIS | HOYQU | N 34.05496 | W 117.51773 | N34 3.29767 | W117 31.06400 | N34 03 17.86000 | W117 31 3.84000 |
| AVNIS | JALOT | N 34.05661 | W 117.81242 | N34 3.39683 | W117 48.74517 | N34 03 23.81000 | W117 48 44.71000 |
| | 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 |
| | RUKEY WP | N 33.95329 | W 117.62062 | N33 57.19759 | W117 37.23716 | N33 57 11.85551 | W117 37 14.22953 |
| | STAAG_65TCH WP | N 34.05491 | W 117.67915 | N34 3.29483 | W117 40.74914 | N34 03 17.68999 | W117 40 44.94820 |
| | WP403 WP | N 34.08846 | W 117.67920 | N34 5.30769 | W117 40.75189 | N34 05 18.46128 | W117 40 45.11348 |
| | WP405 WP | N 34.08846 | W 117.67920 | N34 5.30769 | W117 40.75185 | N34 05 18.46164 | W117 40 45.11113 |
| | WP422 WP | N 34.02307 | W 117.72360 | N34 1.38435 | W117 43.41578 | N34 01 23.06099 | W117 43 24.94696 |
| | WP423 WP | N 34.01744 | W 117.67910 | N34 1.04626 | W117 40.74606 | N34 01 2.77577 | W117 40 44.76372 |
| | WP424 WP | N 33.99905 | W 117.68293 | N33 59.94301 | W117 40.97584 | N33 59 56.58080 | W117 40 58.55049 |
| | WP6942 3200 WP | N 34.00463 | W 117.72696 | N34 0.27755 | W117 43.61760 | N34 00 16.65320 | W117 43 37.05606 |

RS Results ONT RNAV (RNP) Rwy 08R 5.26.16 5.27.16

Last Evaluation: 27-May-2016 09:39:49

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 | CCCC3 | FLY_BY | +3700.0 | | -180 | | 2.95 | 1.0 |
| RF | CCCC4 | FLY_BY | +2800.0 | | | | 3.52 | 0.2 |
| RF | STAAG_65TCH | FLY_BY | 2000.0 | | | | 2.79 | 0.2 |
| TF | KONT:RW08R:AER | FLY_BY | | | | | 3.14 | 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 | 0.09 | 90.91 | 4500.0 | 250.0 | 1.0 | 56.0 | 274.0 | 330.0 |
| TF | CCCC3 | FLY_BY | 0.09 | 90.91 | 4500.0 | 250.0 | 1.0 | 56.0 | 274.0 | 330.0 | 0.0 | | 3700.0 | 180.0 | 0.0 | 29.13 | 195.0 | 224.13 |
| RF | CCCC4 | FLY_BY | 0.0 | | 3700.0 | 180.0 | 0.0 | 29.13 | 195.0 | 224.13 | 0.0 | | 2800.0 | 180.0 | 0.0 | 30.0 | 193.0 | 223.0 |
| RF | STAAG_65TCH | 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:RW08R: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 | CCCC4 | FLY_BY | 2.01 | 2.01 | 20.0 | 20.0 |
| RF | STAAG_65TCH | FLY_BY | 2.01 | 2.01 | 20.0 | 20.0 |

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 | WP6942 3200 | FLY_BY | +3200.0 | | | | 3.48 | 0.2 |
| TF | WP422 | FLY_BY | +2900.0 | | -190 | | 1.12 | 1.0 |
| RF | STAAG_65TCH | FLY_BY | 2000.0 | | | | 3.18 | 0.2 |
| TF | KONT:RW08R:AER | FLY_BY | | | | | 3.14 | 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 | 28.13 | 229.0 | 257.13 |
| RF | WP6942 3200 | FLY_BY | 0.0 | | 4200.0 | 210.0 | 0.0 | 28.13 | 229.0 | 257.13 | 0.0 | | 3200.0 | 210.0 | 0.0 | 53.0 | 226.0 | 279.0 |
| TF | WP422 | FLY_BY | 0.0 | | 3200.0 | 210.0 | 0.0 | 53.0 | 226.0 | 279.0 | 0.0 | | 2900.0 | 190.0 | 0.0 | 27.84 | 204.0 | 231.84 |
| RF | STAAG_65TCH | 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:RW08R: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 | WP6942 3200 | FLY_BY | 2.22 | 2.22 | 25.0 | 23.0 |
| RF | STAAG_65TCH | FLY_BY | 2.24 | 2.24 | 20.0 | 19.0 |

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 | GRHRT_ | FLY_BY | +2900.0 | | | 2.4 | 3.6 | 1.0 |
| TF | STAAG_65TCH | FLY_BY | 2000.0 | | | 0.32 | 3.05 | 1.0 |
| TF | KONT:RW08R:AER | FLY_BY | | | | | 3.14 | 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 | GRHRT_ | FLY_BY | 0.0 | | 4000.0 | 250.0 | 0.0 | 55.0 | 272.0 | 327.0 | 1.29 | 61.66 | 2900.0 | 250.0 | 1.2 | 30.0 | 268.0 | 298.0 |
| TF | STAAG_65TCH | FLY_BY | 1.29 | 61.66 | 2900.0 | 250.0 | 1.2 | 30.0 | 268.0 | 298.0 | 0.1 | 34.74 | 2000.0 | 165.0 | 1.0 | 30.0 | 174.0 | 204.0 |
| TF | KONT:RW08R:AER | FLY_BY | 0.1 | 34.74 | 2000.0 | 165.0 | 1.0 | 30.0 | 174.0 | 204.0 | | | 0.0 | 0.0 | | | | |

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-664 | 2063.65 | 2188.65 |
| PRMNT_ | CCCC3 | Intermediate TF 1-Intermediate TF 2-Intermediate RF 3-ConsideredTerrainPoint-1376 | 2263.78 | 2388.78 |
| CCCC3 | CCCC4 | Intermediate RF 3-ConsideredTerrainPoint-2397 | 1715.88 | 1840.88 |
| CCCC4 | STAAG_65TCH | Intermediate RF 4-ConsideredTerrainPoint-992 | 1122.05 | 1247.05 |
| 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_ | WP6942 3200 | Intermediate RF 2-ConsideredTerrainPoint-3530 | 1410.76 | 1535.76 |
| WP6942 3200 | WP422 | Intermediate RF 2-Intermediate TF 3-Intermediate RF 4-ConsideredTerrainPoint-447 | 1256.56 | 1381.56 |
| WP422 | STAAG_65TCH | Intermediate RF 4-ConsideredTerrainPoint-122 | 1171.26 | 1296.26 |
| JALOT | GRHRT_ | Initial2 TF 1-Intermediate TF 1-ConsideredTerrainPoint-3273 | 1384.51 | 1509.51 |
| GRHRT_ | STAAG_65TCH | Initial2 TF 1-Intermediate TF 1-Final TF 1-ConsideredTerrainPoint-7434 | 1128.61 | 1253.61 |
| Final | KONT:RW08R:AER | VEB OCS OEA-ConsideredTerrainPoint-1367 | 1007.22 | 1132.22 |
| MSA | | Minimum Safe Altitude Area-ConsideredTerrainPoint-105572 | 7860.89 | 7985.89 |

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 ONT RNAV (RNP) Rwy 08R 5.26.16 5.27.16 |
| Project: | SoCal RNP Master file 5.24.16 |
| Last evaluated: | 27-May-2016 09:39:49 |
| Evaluated obstacles?: | true |
| Obstacle Database: | |
| Evaluated terrain?: | true |
| Evaluated precipitous terrain?: | false |
| Worst Case Vegetation Height (ft) AGL: | 0 |
| Wind Spiral Limiting Splay Angle (deg): | - |

Approach Input

| | |
|--|-----------|
| HATh (ft): | 558.0 |
| Height Group: | 4 |
| Glidepath Angle (degs): | 3.0 |
| Threshold Crossing Height (ft): | 65.0 |
| 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: | RW08R |
| Landing Threshold Point: | N34° 03' 17.85",W117° 36' 58.41" |
| Elevation (ft): | 936.0 |
| DER Location: | N34° 03' 17.89",W117° 34' 57.19" |
| DER Elevation (ft): | 926.2 |
| Course (degs): | 89.97 |
| Width (ft): | 150 |

Reciprocal Runway

| | |
|--------------------------|----------------------------------|
| Name: | RW26L |
| Landing Threshold Point: | N34° 03' 17.89",W117° 34' 57.19" |
| Elevation (ft): | 926.2 |
| DER Location: | N34° 03' 17.85",W117° 36' 58.41" |
| DER Elevation (ft): | 936.0 |
| Course (degs): | 269.99 |
| Width (ft): | 150 |

Runways with AC 150/5300-18 Survey

| |
|-------|
| None. |
|-------|

Overall Results

| | |
|---|----------------------------------|
| Minimum Adjusted HATh (ft): | 436.06002792990165 |
| Decision Altitude (ft): | 1494.0 |
| Distance From LTP to DA (ft): | 9406.438672285334 |
| DA Point: | N34° 03' 17.78",W117° 38' 50.20" |
| DHeightloss (ft): | 954.0568343864107 |
| ab Point: | N34° 03' 17.79",W117° 38' 38.87" |
| Minimum Allowable TCH (ft): | 45.0 |
| Maximum Allowable TCH (ft): | 75.0 |
| MSA (ft) | 9200.0 |
| 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): | 40.75206052606506 |
| High Temperature Limit (degs C): | 53.0 |
| DVEB (ft): | 3221.58619731926 |
| Minimum Distance LTP to DA (for Section 1a) (ft): | 4176.0 |
| OCS Slope: | 19.694232107142213:1 |
| ROC PFAF for TF leg (ft): | 259.67976717525335 |
| ROC 250 for TF leg (ft): | 234.3393696066673 |

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 |

ONT RNAV (RNP) Rwy 08R 5.26.16

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: | 3241.010498687664 |
| 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: | 3241.010498687664 |

InitialJALOT

Leg JALOT to GRHRT_

| | |
|------------------------------------|-------------------|
| Leg Type: | TF |
| Leg Length (NM): | 3.599962734388591 |
| Leg RNP Value (NM): | 0.8 |
| Leg Minimum OCS Height (ft) AMSL: | 2709.514435695538 |
| Initial Minimum Altitude (ft): | 4000 |
| Termination Minimum Altitude (ft): | 2900 |
| Descent Gradient (ft/NM): | 306.0 |

Controlling Obstacle

| | |
|--|---|
| Name: | Initial2 TF 1-Intermediate TF 1-ConsideredTerrainPoint-3273 |
| 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 |

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: | 2888.6482939632547 |
| 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-664 |
| 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: | 2888.6482939632547 |

Leg PRMNT_ to CCCC3

| | |
|------------------------------------|-------------------|
| Leg Type: | TF |
| Leg Length (NM): | 2.954190104885718 |
| Leg RNP Value (NM): | 1.0 |
| Leg Minimum OCS Height (ft) AMSL: | 3088.779527559055 |
| Initial Minimum Altitude (ft): | 4500 |
| Termination Minimum Altitude (ft): | 3700 |
| Descent Gradient (ft/NM): | 271.0 |

Controlling Obstacle

| | |
|--|---|
| Name: | Intermediate TF 1-Intermediate TF 2-Intermediate RF 3-ConsideredTerrainPoint-1376 |
| 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: | 3088.779527559055 |

Leg CCCC3 to CCCC4

| | |
|------------------------------------|-------------------|
| Leg Type: | RF |
| Leg Length (NM): | 3.519162781800118 |
| 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): | 256.0 |

Controlling Obstacle

| | |
|--|---|
| Name: | Intermediate RF 3-ConsideredTerrainPoint-2397 |
| Source: | DTED 3 Sec |
| Location: | N34° 07' 54.00",W117° 40' 45.00" |
| 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 CCCC4 to STAAG_65TCH

| | |
|--------------------------------------|--------------------|
| Leg Type: | RF |
| Leg Length (NM): | 2.794534074628432 |
| Leg RNP Value (NM): | 0.3 |
| Leg Minimum OCS Height (ft) AMSL: | 1947.0472440944882 |
| Initial Minimum Altitude (ft): | 2800 |
| Termination Mandatory Altitude (ft): | 2000 |
| Descent Gradient (ft/NM): | 287.0 |

Controlling Obstacle

| | |
|--|--|
| Name: | Intermediate RF 4-ConsideredTerrainPoint-992 |
| Source: | DTED 3 Sec |
| Location: | N34° 05' 15.00",W117° 42' 24.00" |
| Height (ft) AMSL: | 1122.0472440944882 |
| Vertical Accuracy Adjustment (ft): | 125 |
| Effective Height (ft) AMSL: | 1247.0472440944882 |
| Height Adjustments (AAO or WCVH) (ft): | 200.0 |
| ROC (ft): | 500.0 |
| Min Obs/Terrain Height (ft) AMSL: | 1947.0472440944882 |

IntermediateGRHRT_

Leg GRHRT_ to STAAG_65TCH

| | |
|--------------------------------------|--------------------|
| Leg Type: | TF |
| Leg Length (NM): | 3.045794615311429 |
| Leg RNP Value (NM): | 0.8 |
| Leg Minimum OCS Height (ft) AMSL: | 1953.6089238845143 |
| Initial Minimum Altitude (ft): | 2900 |
| Termination Mandatory Altitude (ft): | 2000 |
| Descent Gradient (ft/NM): | 296.0 |

Controlling Obstacle

| | |
|--|--|
| Name: | Initial2 TF 1-Intermediate TF 1-Final TF 1-ConsideredTerrainPoint-7434 |
| Source: | DTED 3 Sec |
| Location: | N34° 04' 54.00",W117° 39' 48.00" |
| Height (ft) AMSL: | 1128.6089238845143 |
| Vertical Accuracy Adjustment (ft): | 125 |
| Effective Height (ft) AMSL: | 1253.6089238845143 |
| Height Adjustments (AAO or WCVH) (ft): | 200.0 |
| ROC (ft): | 500.0 |
| Min Obs/Terrain Height (ft) AMSL: | 1953.6089238845143 |

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 WP6942 3200

| | |
|------------------------------------|-------------------|
| Leg Type: | RF |
| Leg Length (NM): | 3.476633160459845 |
| Leg RNP Value (NM): | 1.0 |
| Leg Minimum OCS Height (ft) AMSL: | 2235.761154855643 |
| Initial Minimum Altitude (ft): | 4200 |
| Termination Minimum Altitude (ft): | 3200 |
| Descent Gradient (ft/NM): | 288.0 |

Controlling Obstacle

| | |
|--|---|
| Name: | Intermediate RF 2-ConsideredTerrainPoint-3530 |
| 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 WP6942 3200 to WP422

| | |
|------------------------------------|-------------------|
| Leg Type: | TF |
| Leg Length (NM): | 1.117495228733325 |
| Leg RNP Value (NM): | 1.0 |
| Leg Minimum OCS Height (ft) AMSL: | 2081.561679790026 |
| Initial Minimum Altitude (ft): | 3200 |
| Termination Minimum Altitude (ft): | 2900 |
| Descent Gradient (ft/NM): | 269.0 |

Controlling Obstacle

| | |
|--|--|
| Name: | Intermediate RF 2-Intermediate TF 3-Intermediate RF 4-ConsideredTerrainPoint-447 |
| Source: | DTED 3 Sec |
| Location: | N34° 00' 30.00",W117° 45' 36.00" |
| Height (ft) AMSL: | 1256.5616797900261 |
| Vertical Accuracy Adjustment (ft): | 125 |
| Effective Height (ft) AMSL: | 1381.5616797900261 |
| Height Adjustments (AAO or WCVH) (ft): | 200.0 |
| ROC (ft): | 500.0 |
| Min Obs/Terrain Height (ft) AMSL: | 2081.561679790026 |

Leg WP422 to STAAG_65TCH

| | |
|--------------------------------------|-------------------|
| Leg Type: | RF |
| Leg Length (NM): | 3.183973978702043 |
| Leg RNP Value (NM): | 0.8 |
| Leg Minimum OCS Height (ft) AMSL: | 1996.259842519685 |
| Initial Minimum Altitude (ft): | 2900 |
| Termination Mandatory Altitude (ft): | 2000 |
| Descent Gradient (ft/NM): | 283.0 |

Controlling Obstacle

| | |
|--|--|
| Name: | Intermediate RF 4-ConsideredTerrainPoint-122 |
| 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 |

Final Segment Results

| | |
|-------------------------------|---|
| TotalLength: | 19061.00000000891 |
| MinimumAdjustedHath: | 436.06002792990165 |
| D500: | 8300.0 |
| ControllingObstacle: | VEB OCS OEA-ConsideredTerrainPoint-1367 |
| DPFAF: | 19061.0 |
| DVEB (ft): | 3221.58619731926 |
| Distance from VEB to DA (ft): | 4176.0 |
| OCS Slope: | 19.694232107142213:1 |
| ROC PFAF for TF leg (ft): | 259.67976717525335 |
| ROC 250 for TF leg (ft): | 234.3393696066673 |

Controlling Obstacle

| | |
|--|---|
| Name: | VEB OCS OEA-ConsideredTerrainPoint-1367 |
| Source: | DTED 3 Sec |
| Location: | N34° 03' 51.00",W117° 38' 21.00" |
| Height (ft) AMSL: | 1007.2178477690288 |
| Vertical Accuracy Adjustment (ft): | 125 |
| Effective Height (ft) AMSL: | 1132.2178477690288 |
| Height Adjustments (AAO or WCVH) (ft): | 0.0 |
| HATH Adjustment (ft): | 436.06002792990165 |
| Amount of Penetration (ft): | 19.476868314811554 |
| Distance (ft): | 6696.665146970559 |
| OCS Height (ft) AMSL: | 1112.7409794542173 |

Leg STAAG_65TCH to KONT:RW08R:AER

| | |
|-------------------------|-------------------|
| Leg Type: | TF |
| Leg Length (NM): | 3.137037149029544 |
| Leg RNP Value (NM): | 0.3 |
| Glidepath Angle (degs): | 3.0 |

Procedure Criteria Failures

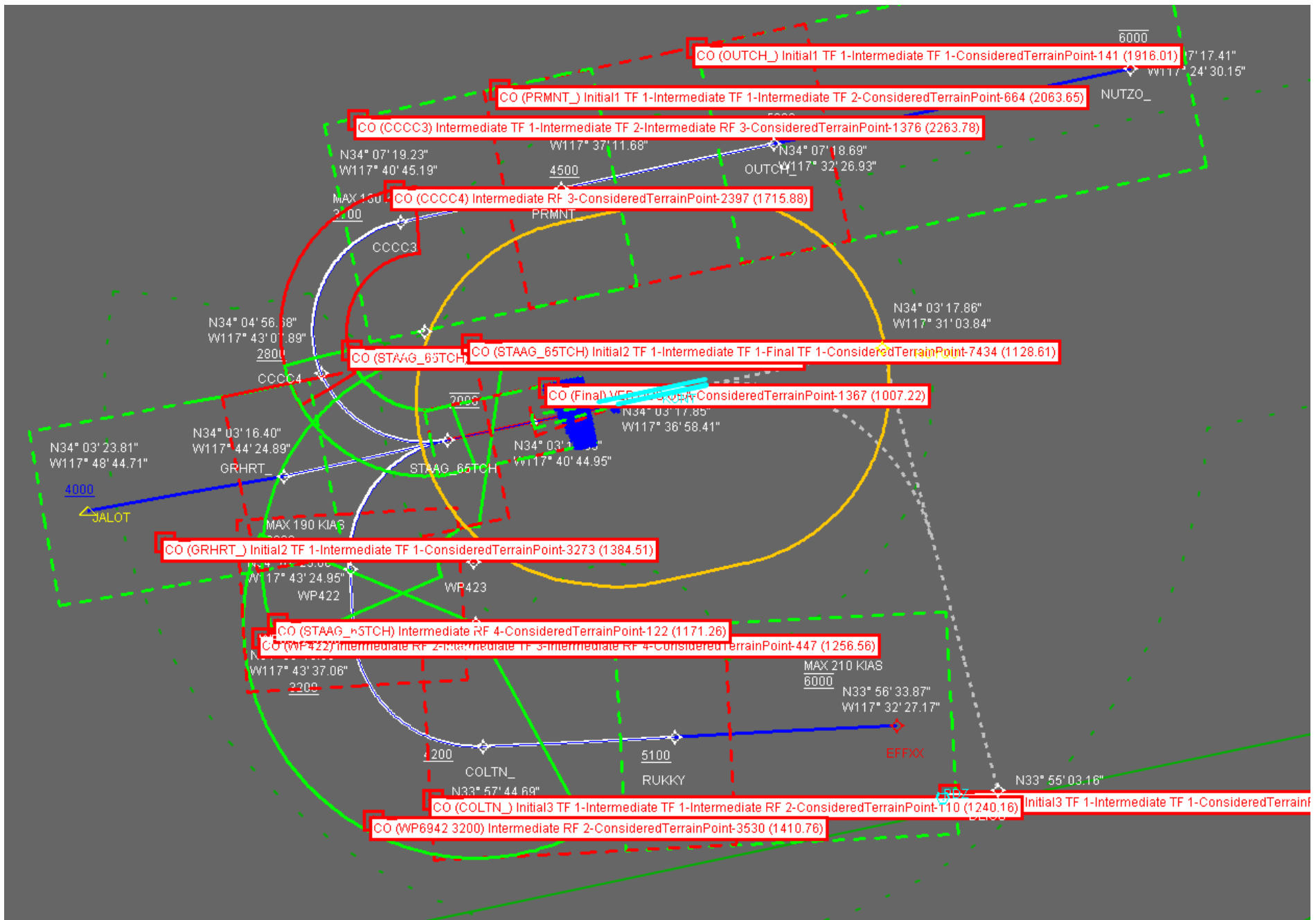
No failures.

Evaluation Notes and Warnings

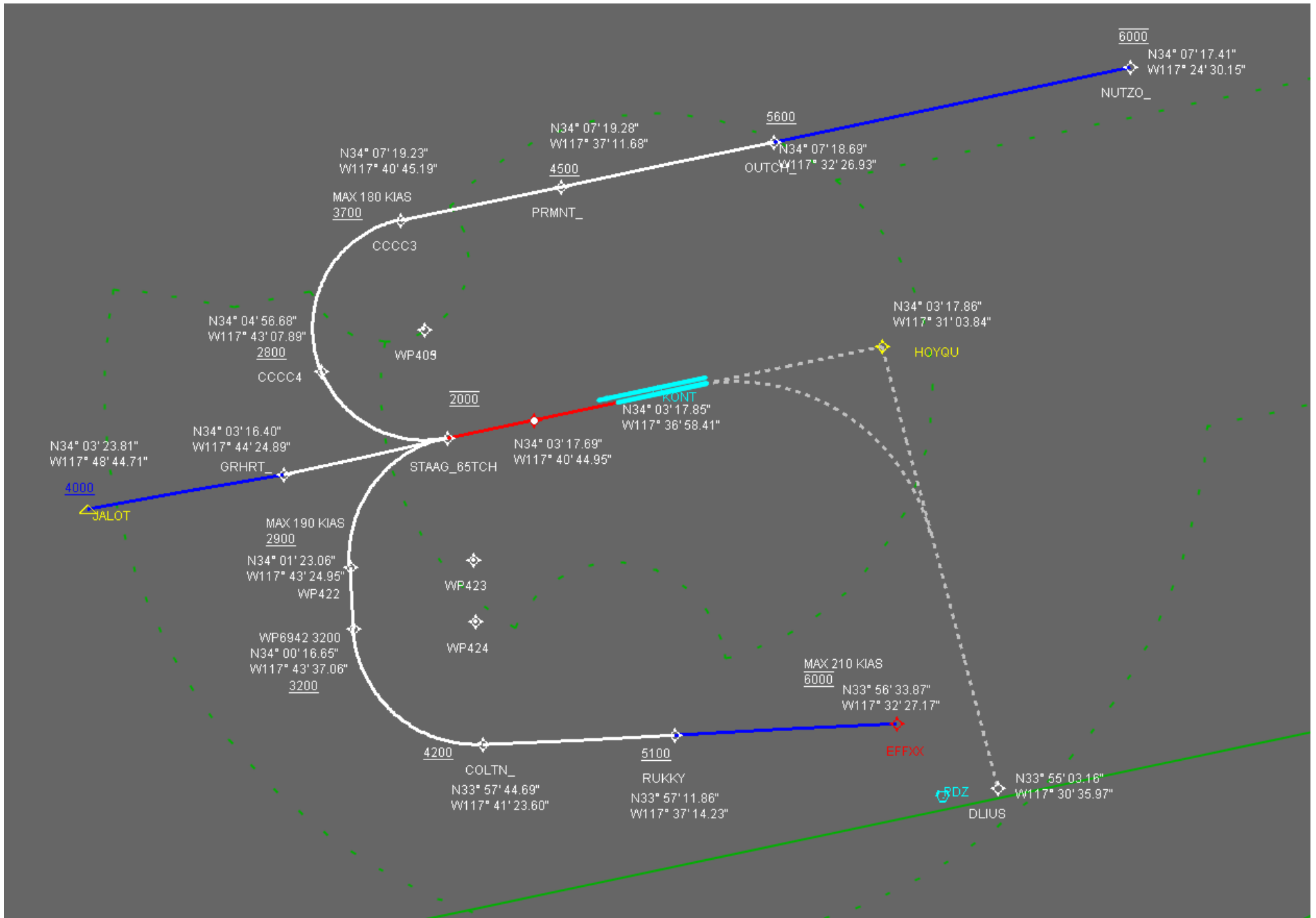
No failures.

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 08R 5.26.16



ONT RNAV (RNP) Rwy 08R 5.26.16

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 | 05/27/2016 |
| DOF | 03/31/2016 |
| AVNII_OFFLINE | N/A |
| AIRNAV2 | 05/27/2016 |
| CIFP | 04/28/2016 |

Notes: