

## DME DME Assessment Results for SCRAM6 path KDCA:RW01:DER\_GLANC

### Results Summary

|                            |                                                                                                                                                                                                             |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Flyability:                | Completed                                                                                                                                                                                                   |
| DME/DME:                   | Completed - No Critical DMEs                                                                                                                                                                                |
| Name:                      | Robert CTR Mason                                                                                                                                                                                            |
| Project File:              | C:\Users\Robert CTR Mason\Desktop\DCA SID AMENDMENTS with REVGE\DCA - SCRAM\SCRAM.tgs                                                                                                                       |
| Output File:               | C:\Users\Robert CTR Mason\Desktop\DCA SID AMENDMENTS with REVGE\DCA - SCRAM\SCRAM6 - DME\KDAA [IFPA] SCRAM6 20191113_1423 EST\KDCA-RW01-<br>DER_GLANC\KDAA SCRAM6 SID KDCA RW01 GLANC 20191113_1423 EST.pdf |
| Procedure Name:            | SCRAM6                                                                                                                                                                                                      |
| Software:<br>DmeDmePlugin: | 6.0.0                                                                                                                                                                                                       |
| Date/Time:                 | 11/13/2019 14:23 EST                                                                                                                                                                                        |
| Databases:                 | DTED.MAX                                                                                                                                                                                                    |

### Failures

No Failures

### Warnings

No Warnings

### Notes For Flight Check

None

# DME DME Assessment Results for SCRAM6 path KDCA:RW01:DER GLANC

| Flight Plan                                                      |      |                                                    |               |           |                    |           |          |
|------------------------------------------------------------------|------|----------------------------------------------------|---------------|-----------|--------------------|-----------|----------|
| Name                                                             | Type | Lat/Lon                                            | Altitude (ft) | VNAV Mode | Ground Speed (kts) | Turn Type | Leg Type |
| KDCA:RW01:DER                                                    | WP   | N38° 51' 40.293300000",<br>W077° 02' 19.405300000" | 12.1          | VNAV      | 130                | FLY_BY    | TF       |
| REVGE                                                            | WP   | N38° 53' 59.460000000",<br>W077° 04' 14.240000000" | 1500          | VNAV      | 220                | FLY_BY    | TF       |
| BEBLE                                                            | WP   | N38° 54' 55.810000000",<br>W077° 06' 26.920000000" | 1892.9        | VNAV      | 220                | FLY_BY    | TF       |
| RGIII                                                            | WP   | N38° 58' 00.539965481",<br>W077° 08' 48.382530523" | 2609.7        | VNAV      | 220                | FLY_BY    | TF       |
| CUKLI                                                            | WP   | N38° 59' 10.330000000",<br>W077° 16' 34.810000000" | 3000          | VNAV      | 220                | FLY_BY    | TF       |
| POOCH                                                            | WP   | N38° 27' 18.560000000",<br>W077° 40' 31.560000000" | 3000          | VNAV      | 220                | FLY_BY    | TF       |
| SCRAM                                                            | WP   | N38° 22' 16.200000000",<br>W077° 47' 54.770000000" | 9800          | VNAV      | 220                | FLY_BY    | TF       |
| DANOO                                                            | WP   | N38° 04' 27.240000000",<br>W078° 15' 08.960000000" | 9800          | VNAV      | 220                | FLY_BY    | TF       |
| WALCE                                                            | WP   | N37° 43' 19.430000000",<br>W078° 47' 53.200000000" | 16400         | VNAV      | 240                | FLY_BY    | TF       |
| GLANC                                                            | WP   | N37° 26' 27.010000000",<br>W079° 03' 37.650000000" | 18000         | VNAV      | 240                | FLY_BY    | TF       |
| Climb Gradient:<br>825.0 ft/NM up to 600.0 ft MSL<br>200.0 ft/NM |      |                                                    |               |           |                    |           |          |

| Flyability             |                                               |
|------------------------|-----------------------------------------------|
| Flight Type:           | SID                                           |
| Selected Airport:      | KDAA [IFPA]                                   |
| Climb Gradient:        | 825.0 ft/NM up to 600.0 ft MSL<br>200.0 ft/NM |
| Speeds:                | 130 at the Runway DER                         |
|                        | 145 at the end of the VA or VI leg            |
|                        | 200 Ground Speed to 11000 FT                  |
|                        | 240 Ground Speed to 18000 FT                  |
|                        | 260 Ground Speed to 24000 FT                  |
|                        | 340 Ground Speed above 24000 FT               |
| Descent During a Turn: | Allowed                                       |
| VNAV Mode:             | Flight Plan                                   |

## DME DME Assessment Results for SCRAM6 path KDCA:RW01:DER\_GLANC

| DME/DME                           |                      |
|-----------------------------------|----------------------|
| RNP:                              | RNP 2                |
| Flight Mode:                      | Manual               |
| Line of Sight (DTED Level 0 Max): | Evaluated            |
| Inertial Drift:                   | Enabled              |
| Initial Drift:                    | 0.558 NM             |
| INS Drift Rate:                   | 8.0 NM/Hour          |
| Range Mode:                       | OSV                  |
| RNP Edges:                        | Evaluated            |
| Min DME Range:                    | 3.0 NM               |
| DME Types:                        | DME, VOR-DME, VORTAC |
| DME Include Angles:               | 30 to 150            |
| Critical DMEs:                    | Allowed              |
| DoD Facilities:                   | Not included         |
| Foreign Facilities:               | Not included         |
| High DMEs:                        | Included             |
| Low DMEs:                         | Included             |
| Terminal DMEs:                    | Included             |
| Flight Check DMEs:                | Not selected         |
| Higher Altitudes:                 | Not Evaluated        |
| Near Maximum Altitude:            | Not Evaluated        |
| Automatic ESVs:                   | Not enabled          |
| Disabled DMEs:                    | None                 |

**DME DME Assessment Results for SCRAM6 path KDCA:RW01:DER\_GLANC**

| <b>DME/DME (Continued)</b> |      |                                                          |        |       |      |        |          |         |        |          |
|----------------------------|------|----------------------------------------------------------|--------|-------|------|--------|----------|---------|--------|----------|
| <b>DMEs Used</b>           |      |                                                          |        |       |      |        |          |         |        |          |
| #                          | Name | Lat/Lon                                                  | MAGVAR | Range | Type | Source | Critical | Status  | Time   | Distance |
| 1                          | RIC  | N37° 30'<br>08.452100000",<br>W077° 19'<br>12.994400000" | 9.0 W  | 130   | H    | IFPA   | NO       | Enabled | 44 %   | 44.9 %   |
| 2                          | FAK  | N37° 31'<br>42.634000000",<br>W077° 49'<br>41.589000000" | 6.0 W  | 130   | H    | IFPA   | NO       | Enabled | 42.5 % | 43.4 %   |
| 3                          | CSN  | N38° 38'<br>28.327700000",<br>W077° 51'<br>55.797900000" | 6.0 W  | 130   | H    | IFPA   | NO       | Enabled | 71.2 % | 71.8 %   |
| 4                          | MOL  | N37° 54'<br>03.152400000",<br>W079° 06'<br>22.252600000" | 5.0 W  | 40    | L    | IFPA   | NO       | Enabled | 26.4 % | 27.4 %   |
| 5                          | ADW  | N38° 48'<br>25.990000000",<br>W076° 51'<br>58.520000000" | 10.0 W | 40    | L    | IFPA   | NO       | Enabled | 6.2 %  | 6.1 %    |
| 6                          | GSO  | N36° 02'<br>44.491200000",<br>W079° 58'<br>34.950500000" | 3.0 W  | 130   | H    | IFPA   | NO       | Enabled | 3.1 %  | 3.4 %    |
| 7                          | MRB  | N39° 23'<br>08.060000000",<br>W077° 50'<br>54.082000000" | 7.0 W  | 40    | L    | IFPA   | NO       | Enabled | 1.3 %  | 1.3 %    |
| 8                          | LDN  | N38° 51'<br>15.810000000",<br>W078° 12'<br>20.001000000" | 6.0 W  | 40    | L    | IFPA   | NO       | Enabled | 5 %    | 4.9 %    |
| 9                          | BAL  | N39° 10'<br>15.828300000",<br>W076° 39'<br>40.522500000" | 11.0 W | 40    | L    | IFPA   | NO       | Enabled | 14.9 % | 14.7 %   |
| 10                         | BRV  | N38° 20'<br>10.526400000",<br>W077° 21'<br>10.315900000" | 9.0 W  | 40    | L    | IFPA   | NO       | Enabled | 35.6 % | 35.3 %   |
| 11                         | LYH  | N37° 15'<br>16.477300000",<br>W079° 14'<br>10.969900000" | 5.0 W  | 40    | L    | IFPA   | NO       | Enabled | 16.6 % | 17.7 %   |
| 12                         | GVE  | N38° 00'<br>48.957800000",<br>W078° 09'<br>10.895700000" | 6.0 W  | 130   | H    | IFPA   | NO       | Enabled | 51.1 % | 51.9 %   |
| 13                         | RDU  | N35° 52'<br>21.076100000",<br>W078° 47'<br>00.031600000" | 9.0 W  | 130   | H    | IFPA   | NO       | Enabled | 1.9 %  | 2.1 %    |
| 14                         | PSK  | N37° 05'<br>15.738000000",<br>W080° 42'<br>46.442000000" | 6.0 W  | 130   | H    | IFPA   | NO       | Enabled | 11.6 % | 12.5 %   |
| 15                         | AML  | N38° 56'<br>04.538000000",<br>W077° 28'<br>00.128500000" | 8.0 W  | 40    | L    | IFPA   | NO       | Enabled | 37.6 % | 37.3 %   |
| 16                         | DCA  | N38° 51'<br>34.030100000",<br>W077° 02'<br>11.170000000" | 9.0 W  | 40    | L    | IFPA   | NO       | Enabled | 17.1 % | 16.9 %   |
| 17                         | EMI  | N39° 29'<br>42.026600000",<br>W076° 58'<br>42.859100000" | 8.0 W  | 130   | H    | IFPA   | NO       | Enabled | 11.5 % | 11.4 %   |

**DME DME Assessment Results for SCRAM6 path KDCA:RW01:DER\_GLANC**

| <b>Flight Check DME Selection</b> |                      |     |     |     |     |                  |
|-----------------------------------|----------------------|-----|-----|-----|-----|------------------|
| <b>Distance [NM]</b>              | <b>Selected DMEs</b> |     |     |     |     | <b>Alternate</b> |
| 0.0                               |                      |     |     |     |     |                  |
| 1.7                               | BAL                  | ADW |     |     |     |                  |
| 2.0                               |                      |     |     |     |     |                  |
| 2.3                               | BAL                  | ADW |     |     |     |                  |
| 2.4                               |                      |     |     |     |     |                  |
| 3.3                               | BAL                  | DCA |     |     |     |                  |
| 4.4                               | BAL                  | DCA | EMI |     |     |                  |
| 4.5                               | BAL                  | EMI |     |     |     |                  |
| 4.6                               | BAL                  | DCA | EMI |     |     |                  |
| 5.0                               | BAL                  | DCA | ADW | EMI |     |                  |
| 5.2                               | ADW                  | EMI | BAL |     |     |                  |
| 5.4                               | BAL                  | DCA | EMI |     |     |                  |
| 5.5                               | BAL                  | DCA | CSN | ADW | EMI |                  |
| 5.6                               | BAL                  | DCA | ADW | EMI |     |                  |
| 5.7                               | ADW                  | EMI | BAL |     |     |                  |
| 5.8                               | BAL                  | EMI |     |     |     |                  |
| 5.8                               | BAL                  | DCA | EMI |     |     |                  |
| 6.0                               | ADW                  | EMI | BAL |     |     |                  |
| 6.2                               | BAL                  | DCA | CSN | ADW | EMI |                  |
| 6.2                               | BAL                  | EMI |     |     |     |                  |
| 6.3                               | BAL                  | DCA | EMI |     |     |                  |
| 6.5                               | BAL                  | EMI |     |     |     |                  |
| 6.6                               | BAL                  | DCA | EMI |     |     |                  |
| 6.7                               | BAL                  | DCA | ADW | EMI |     |                  |
| 6.8                               | BAL                  | DCA | EMI |     |     |                  |
| 6.9                               | BAL                  | EMI |     |     |     |                  |
| 6.9                               | BAL                  | DCA | EMI |     |     |                  |
| 7.2                               | BAL                  | DCA | CSN | ADW | EMI |                  |
| 7.2                               | BAL                  | EMI |     |     |     |                  |
| 7.4                               | BAL                  | DCA | EMI |     |     |                  |
| 7.4                               | BAL                  | EMI |     |     |     |                  |
| 7.7                               | BAL                  | DCA | EMI |     |     |                  |
| 7.9                               | BAL                  | DCA | CSN | ADW | EMI |                  |
| 8.1                               | BAL                  | DCA | AML | EMI |     |                  |
| 8.2                               | BAL                  | DCA | AML | EMI | ADW |                  |
| 8.5                               | BAL                  | DCA | AML | EMI |     |                  |
| 9.2                               | CSN                  | DCA | BAL | AML | EMI |                  |
| 9.4                               | BAL                  | DCA | AML | EMI |     |                  |
| 9.5                               | AML                  | EMI | BAL |     |     |                  |
| 9.6                               | ADW                  | EMI | AML | BAL |     |                  |
| 9.7                               | BAL                  | DCA | ADW | EMI | AML |                  |
| 9.7                               | BAL                  | DCA | AML | EMI |     |                  |
| 10.2                              | AML                  | EMI | BAL |     |     |                  |
| 10.3                              | ADW                  | EMI | AML | BAL |     |                  |
| 10.4                              | CSN                  | DCA | BAL | EMI | AML |                  |
| 10.5                              | BAL                  | DCA | EMI | AML |     |                  |
| 10.6                              | CSN                  | DCA | MRB | BAL | EMI | AML              |
| 10.8                              | CSN                  | DCA | BAL | EMI | AML |                  |
| 11.3                              | ADW                  | EMI | MRB | CSN | BAL | AML              |
| 11.4                              | MRB                  | CSN | EMI | BAL | AML |                  |
| 11.6                              | CSN                  | DCA | EMI | BAL | AML |                  |
| 11.6                              | MRB                  | CSN | EMI | BAL | AML |                  |
| 11.9                              | CSN                  | DCA | EMI | BAL | AML |                  |
| 12.0                              | ADW                  | EMI | MRB | CSN | BAL | AML              |
| 12.2                              | ADW                  | EMI | CSN | AML | BAL |                  |
| 12.3                              | MRB                  | CSN | EMI | BAL | AML |                  |

**DME DME Assessment Results for SCRAM6 path KDCA:RW01:DER\_GLANC**

| <b>Flight Check DME Selection</b> |                      |     |     |     |     |                  |
|-----------------------------------|----------------------|-----|-----|-----|-----|------------------|
| <b>Distance [NM]</b>              | <b>Selected DMEs</b> |     |     |     |     | <b>Alternate</b> |
| 12.6                              | ADW                  | EMI | CSN | AML | BAL |                  |
| 13.5                              | DCA                  | EMI | CSN | BAL | AML |                  |
| 14.1                              | DCA                  | EMI | CSN | BAL |     |                  |
| 14.6                              | ADW                  | EMI | DCA | CSN | BAL |                  |
| 14.6                              | DCA                  | EMI | CSN | BAL | AML |                  |
| 14.9                              | DCA                  | EMI | CSN | BAL |     |                  |
| 15.0                              | DCA                  | EMI | CSN | BAL | AML |                  |
| 15.2                              | DCA                  | EMI | CSN | BAL |     |                  |
| 15.4                              | DCA                  | EMI | CSN | BAL | AML |                  |
| 15.4                              | BAL                  | EMI |     |     |     |                  |
| 15.6                              | ADW                  | EMI | DCA | CSN | BAL | AML              |
| 15.7                              | BAL                  | EMI |     |     |     |                  |
| 15.8                              | ADW                  | EMI | DCA | CSN | BAL | AML              |
| 15.9                              | DCA                  | EMI | CSN | BAL |     |                  |
| 16.0                              | BAL                  | EMI |     |     |     |                  |
| 16.1                              | ADW                  | EMI | CSN | BAL |     |                  |
| 16.2                              | BAL                  | EMI |     |     |     |                  |
| 16.3                              | DCA                  | EMI | CSN | AML | BAL |                  |
| 16.3                              | DCA                  | EMI | CSN | BAL |     |                  |
| 16.4                              | ADW                  | EMI | DCA | CSN | AML | BAL              |
| 16.5                              | ADW                  | EMI | CSN | BAL |     |                  |
| 16.5                              | BAL                  | EMI |     |     |     |                  |
| 16.7                              | DCA                  | EMI | CSN | BAL |     |                  |
| 16.8                              | BAL                  | EMI |     |     |     |                  |
| 17.0                              | ADW                  | EMI | CSN | BAL |     |                  |
| 17.1                              | DCA                  | EMI | CSN | BAL |     |                  |
| 17.2                              | BAL                  | EMI |     |     |     |                  |
| 17.6                              | DCA                  | EMI | CSN | BAL |     |                  |
| 17.7                              | ADW                  | EMI | DCA | CSN | BAL |                  |
| 17.7                              | BAL                  | EMI |     |     |     |                  |
| 17.8                              | ADW                  | EMI | DCA | AML | CSN | BAL              |
| 17.9                              | DCA                  | EMI | AML | CSN | BAL |                  |
| 18.1                              | DCA                  | EMI | CSN | BAL |     |                  |
| 18.2                              | BAL                  | EMI |     |     |     |                  |
| 18.3                              | ADW                  | EMI | AML | CSN | BAL |                  |
| 18.4                              | AML                  | EMI | BAL |     |     |                  |
| 18.5                              | ADW                  | EMI | AML | CSN | BAL |                  |
| 18.7                              | AML                  | EMI | BAL |     |     |                  |
| 18.8                              | DCA                  | EMI | AML | CSN | BAL |                  |
| 18.8                              | AML                  | EMI | BAL |     |     |                  |
| 19.0                              | ADW                  | EMI | AML | CSN | BAL |                  |
| 19.2                              | AML                  | EMI | BAL |     |     |                  |
| 19.3                              | ADW                  | EMI | AML | CSN | BAL |                  |
| 19.6                              | DCA                  | EMI | CSN | BAL |     |                  |
| 19.7                              | ADW                  | EMI | DCA | CSN | BAL |                  |
| 19.8                              | ADW                  | EMI | CSN | BAL |     |                  |
| 19.8                              | ADW                  | EMI | DCA | CSN | BAL |                  |
| 19.9                              | ADW                  | EMI | CSN | BAL |     |                  |
| 20.1                              | ADW                  | EMI | DCA | CSN | BAL |                  |
| 20.2                              | ADW                  | EMI | CSN | BAL |     |                  |
| 20.2                              | ADW                  | EMI | DCA | CSN | BAL |                  |
| 20.6                              | CSN                  | ADW | BAL | DCA |     |                  |
| 21.8                              | BRV                  | DCA | ADW | BAL | CSN |                  |
| 23.9                              | BRV                  | DCA | ADW | AML | CSN |                  |
| 24.8                              | BRV                  | DCA | AML | CSN |     |                  |
| 27.9                              | AML                  | DCA | CSN |     |     |                  |

**DME DME Assessment Results for SCRAM6 path KDCA:RW01:DER\_GLANC**

| <b>Flight Check DME Selection</b> |                      |     |     |     |     |                  |
|-----------------------------------|----------------------|-----|-----|-----|-----|------------------|
| <b>Distance [NM]</b>              | <b>Selected DMEs</b> |     |     |     |     | <b>Alternate</b> |
| 28.1                              | AML                  | DCA | BRV | CSN |     |                  |
| 33.3                              | CSN                  | BRV | AML |     |     |                  |
| 33.7                              | CSN                  | BRV | DCA | AML |     |                  |
| 35.9                              | CSN                  | BRV | AML |     |     |                  |
| 37.9                              | CSN                  | BRV |     |     |     |                  |
| 44.0                              |                      |     |     |     |     |                  |
| 50.4                              | CSN                  | GVE |     |     |     |                  |
| 51.6                              | AML                  | BRV | CSN |     |     |                  |
| 51.6                              | AML                  | BRV | CSN | GVE |     |                  |
| 59.2                              | CSN                  | BRV | LDN | GVE | AML |                  |
| 60.2                              | CSN                  | BRV | LDN | GVE |     |                  |
| 66.2                              | FAK                  | BRV | CSN | RIC | GVE | AML              |
| 79.6                              | AML                  | RIC | CSN | FAK | GVE |                  |
| 81.5                              | AML                  | RIC | CSN | FAK |     |                  |
| 87.4                              | RIC                  | CSN | FAK |     |     |                  |
| 88.2                              | CSN                  | GVE | AML | RIC | FAK |                  |
| 88.4                              | CSN                  | GVE | FAK |     |     |                  |
| 88.7                              | AML                  | RIC | CSN | GVE | FAK |                  |
| 88.7                              | CSN                  | GVE | RIC | FAK |     |                  |
| 89.0                              | MOL                  | FAK | GVE |     |     |                  |
| 89.6                              |                      |     |     |     |     |                  |
| 91.1                              | RIC                  | CSN | FAK | GVE | MOL |                  |
| 91.2                              | FAK                  | MOL | RIC | GVE |     |                  |
| 96.2                              | RIC                  | CSN | FAK | GVE | MOL |                  |
| 98.4                              | FAK                  | GVE | MOL | RIC |     |                  |
| 99.4                              | CSN                  | FAK | RIC | GVE | MOL |                  |
| 101.1                             | RIC                  | GVE |     |     |     |                  |
| 102.7                             |                      |     |     |     |     |                  |
| 111.8                             | RIC                  | GVE |     |     |     |                  |
| 113.2                             | CSN                  | MOL | RIC | GVE |     |                  |
| 113.3                             | CSN                  | FAK | MOL | RIC | GVE |                  |

| <b>Inertial Drift Segments</b> |                                                 |                                                 |                    |
|--------------------------------|-------------------------------------------------|-------------------------------------------------|--------------------|
| <b>#</b>                       | <b>Start Location</b>                           | <b>End Location</b>                             | <b>Length [NM]</b> |
| 1                              | N38° 51' 42.440681147", W077° 02' 19.621507274" | N38° 53' 06.723700568", W077° 03' 17.125384515" | 1.6633             |
| 2                              | N38° 53' 21.792020018", W077° 03' 33.441451969" | N38° 53' 34.348460820", W077° 03' 47.039637734" | 0.2739             |
| 3                              | N38° 53' 39.370911863", W077° 03' 52.479284472" | N38° 54' 13.124465574", W077° 04' 46.399497472" | 0.9143             |
| 4                              | N38° 33' 47.643853677", W077° 35' 41.177359870" | N38° 28' 15.512032815", W077° 39' 49.119164067" | 6.4108             |
| 5                              | N38° 27' 18.560000000", W077° 40' 31.560000000" | N38° 27' 16.166797543", W077° 40' 35.074784095" | 0.0609             |
| 6                              | N38° 02' 50.220847291", W078° 17' 40.443990419" | N38° 01' 54.756798731", W078° 19' 06.956402118" | 1.4663             |
| 7                              | N37° 54' 37.356032913", W078° 30' 26.977178945" | N37° 48' 49.431458771", W078° 39' 25.084295743" | 9.1646             |

# DME DME Assessment Results for SCRAM6 path KDCA:RW01:DER\_GLANC

## Available DMEs by Waypoints

| Waypoint Before | Waypoint After | DME List                                    |
|-----------------|----------------|---------------------------------------------|
| KDCA:RW01:DER   | REVGE          | ADW, BAL                                    |
| REVGE           | BEBLE          | EMI, DCA, BAL                               |
| BEBLE           | RGIII          | EMI, AML, DCA, ADW, BAL, CSN                |
| RGIII           | CUKLI          | AML, EMI, DCA, ADW, MRB, BAL, CSN           |
| CUKLI           | POOCH          | AML, EMI, DCA, ADW, BRV, GVE, MRB, BAL, CSN |
| POOCH           | SCRAM          | AML, BRV, GVE, LDN, CSN                     |
| SCRAM           | DANOO          | AML, FAK, LDN, BRV, GVE, RIC, CSN           |
| DANOO           | WALCE          | AML, FAK, GVE, LYH, MOL, RIC, CSN           |
| WALCE           | GLANC          | FAK, GSO, RDU, GVE, PSK, LYH, MOL, RIC, CSN |

## User Data Files

| # | File Name |
|---|-----------|
|   | None      |

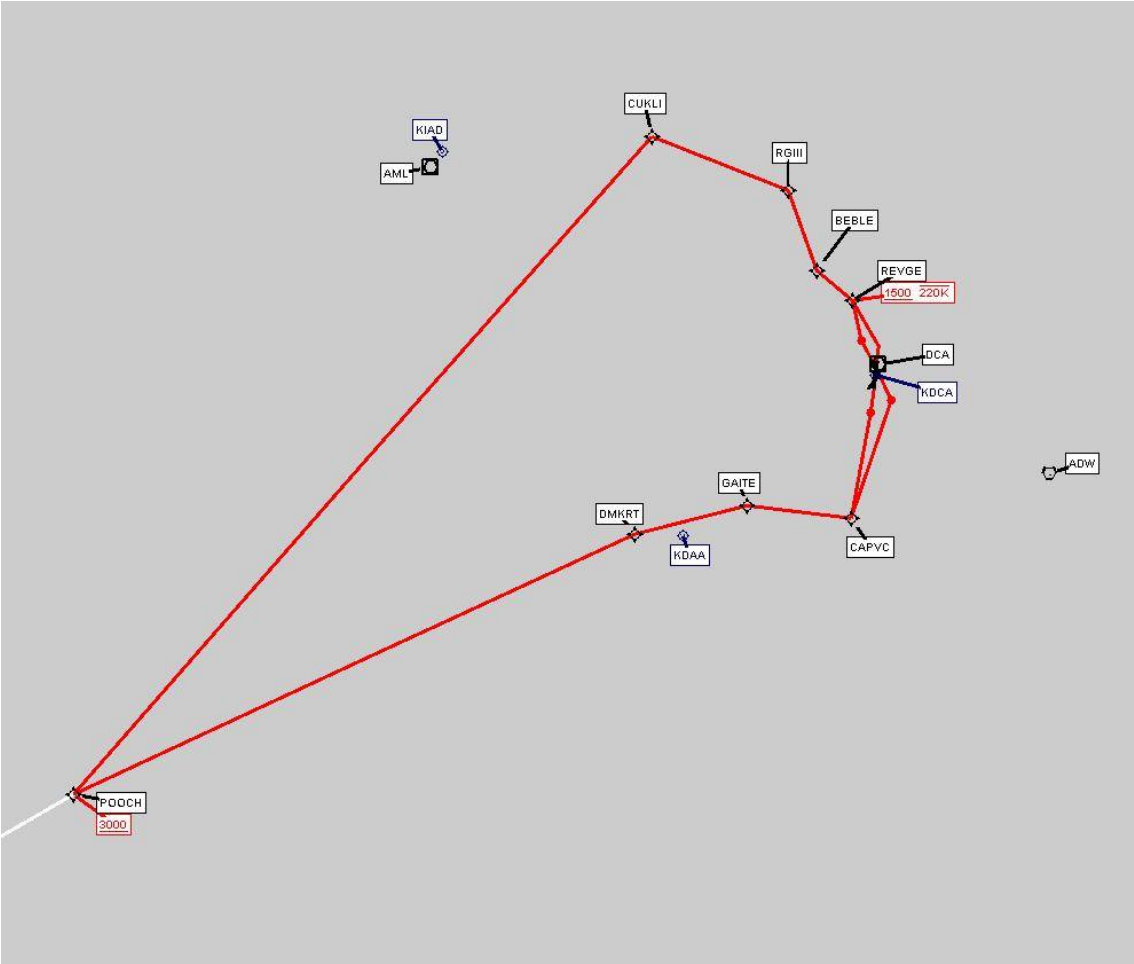
## User DMEs

| #    | Name                            | Lat/Lon                                                             | MAGVAR | Range | Elevation [ft] | Frequency                                                      | Replaces          | Status |
|------|---------------------------------|---------------------------------------------------------------------|--------|-------|----------------|----------------------------------------------------------------|-------------------|--------|
| 1    | AML FAA 732650-41<br>AML [IFPA] | N38° 56'<br>04.538000000",<br>W077° 28'<br>00.128500000"            | 8.0 W  | 40    | 298.6          | 113.5                                                          | AML FAA 732650-41 |        |
| ESV: |                                 | Bearing [True]: 172.0° to 242.0°<br>Bearing [Mag]: 180.0° to 250.0° |        |       |                | Arc Distance: Out to 65.0 NM<br>Altitude: 5000.0 to 20000.0 ft |                   |        |
| 2    | RIC FAA 704161-24<br>RIC [IFPA] | N37° 30'<br>08.452100000",<br>W077° 19'<br>12.994400000"            | 9.0 W  | 130   | 167.3          | 114.1                                                          | RIC FAA 704161-24 |        |
| ESV: |                                 | Bearing [True]: 290.0° to 339.0°<br>Bearing [Mag]: 299.0° to 348.0° |        |       |                | Arc Distance: Out to 65.0 NM<br>Altitude: 6500.0 to 16000.0 ft |                   |        |
| 3    | FAK FAA 698146-14<br>FAK [IFPA] | N37° 31'<br>42.634000000",<br>W077° 49'<br>41.589000000"            | 6.0 W  | 130   | 460            | 113.3                                                          | FAK FAA 698146-14 |        |
| ESV: |                                 | Bearing [True]: 309.0° to 3.0°<br>Bearing [Mag]: 315.0° to 9.0°     |        |       |                | Arc Distance: Out to 86.0 NM<br>Altitude: 5000.0 to 16000.0 ft |                   |        |
| 4    | CSN FAA 682017-12<br>CSN [IFPA] | N38° 38'<br>28.327700000",<br>W077° 51'<br>55.797900000"            | 6.0 W  | 130   | 441.8          | 116.3                                                          | CSN FAA 682017-12 |        |
| ESV: |                                 | Bearing [True]: 183.0° to 215.0°<br>Bearing [Mag]: 189.0° to 221.0° |        |       |                | Arc Distance: Out to 96.0 NM<br>Altitude: 7500.0 to 16000.0 ft |                   |        |
| 5    | CSN FAA 682017-14<br>CSN [IFPA] | N38° 38'<br>28.327700000",<br>W077° 51'<br>55.797900000"            | 6.0 W  | 130   | 441.8          | 116.3                                                          | CSN FAA 682017-14 |        |
| ESV: |                                 | Bearing [True]: 148.0° to 205.0°<br>Bearing [Mag]: 154.0° to 211.0° |        |       |                | Arc Distance: Out to 92.0 NM<br>Altitude: 7500.0 to 16000.0 ft |                   |        |
| 6    | RIC FAA 704161-21<br>RIC [IFPA] | N37° 30'<br>08.452100000",<br>W077° 19'<br>12.994400000"            | 9.0 W  | 130   | 167.3          | 114.1                                                          | RIC FAA 704161-21 |        |
| ESV: |                                 | Bearing [True]: 285.0° to 9.0°<br>Bearing [Mag]: 294.0° to 18.0°    |        |       |                | Arc Distance: Out to 65.0 NM<br>Altitude: 5000.0 to 16000.0 ft |                   |        |



DME DME Assessment Results for SCRAM6 path KDCA:RW01:DER\_GLANC

Graphic Depiction 1



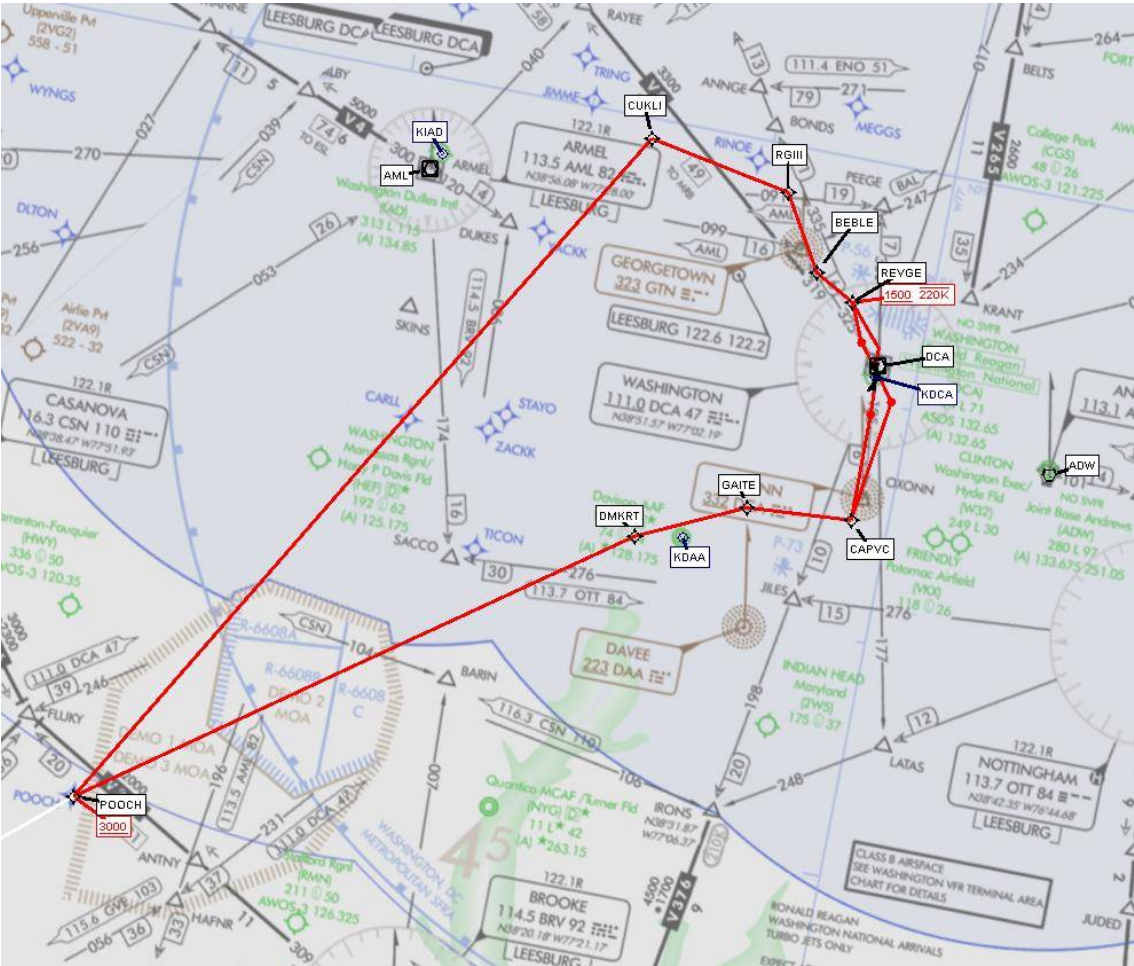
DME DME Assessment Results for SCRAM6 path KDCA:RW01:DER\_GLANC

Graphic Depiction 2



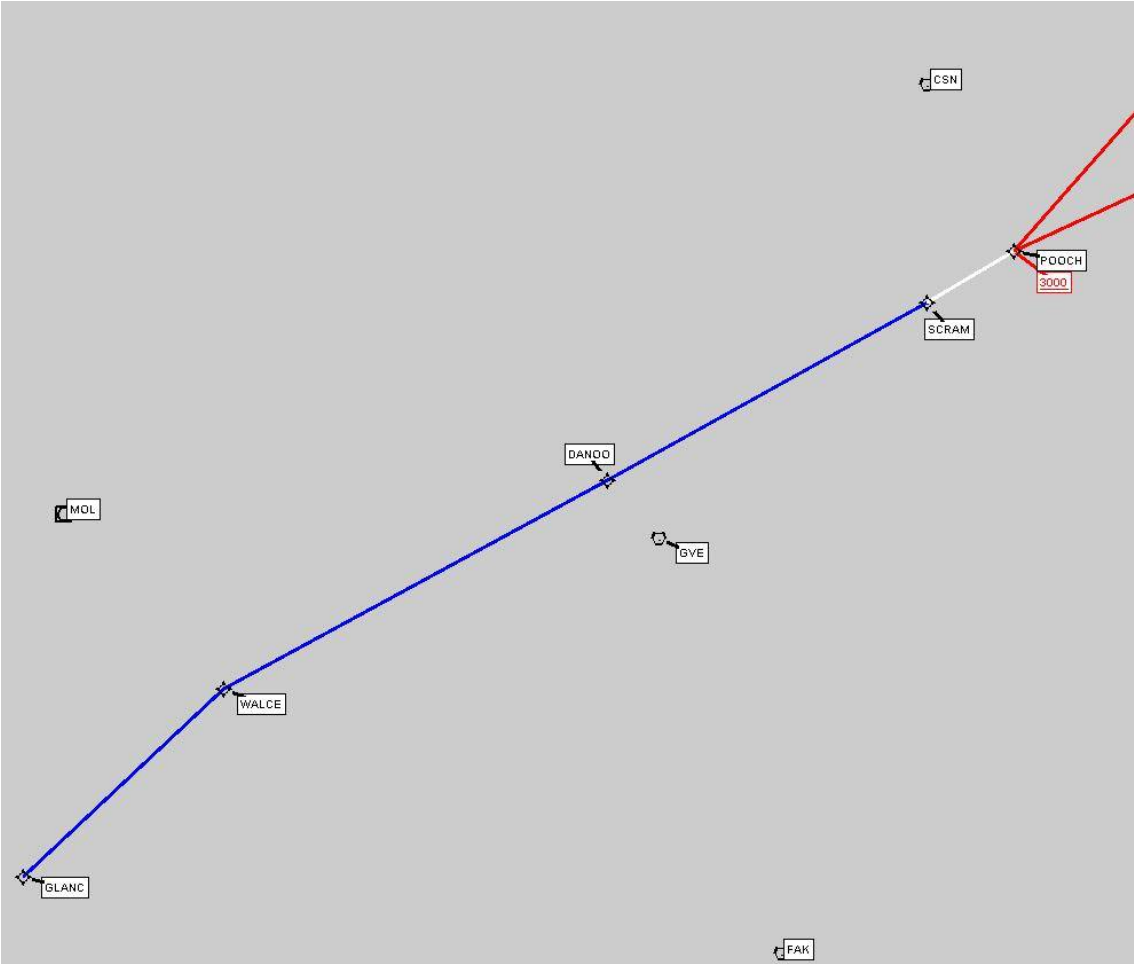
DME DME Assessment Results for SCRAM6 path KDCA:RW01:DER\_GLANC

Graphic Depiction 3



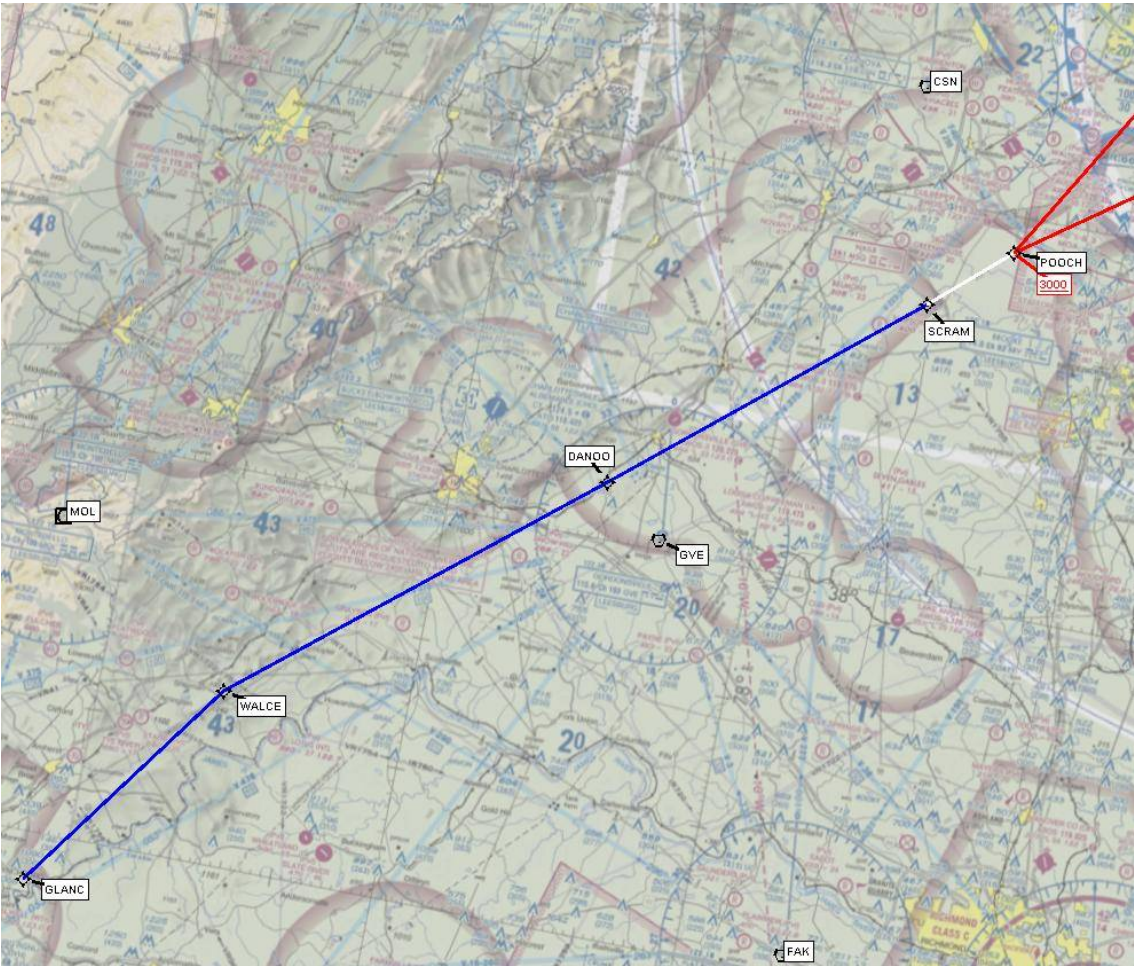
DME DME Assessment Results for SCRAM6 path KDCA:RW01:DER\_GLANC

Graphic Depiction 4



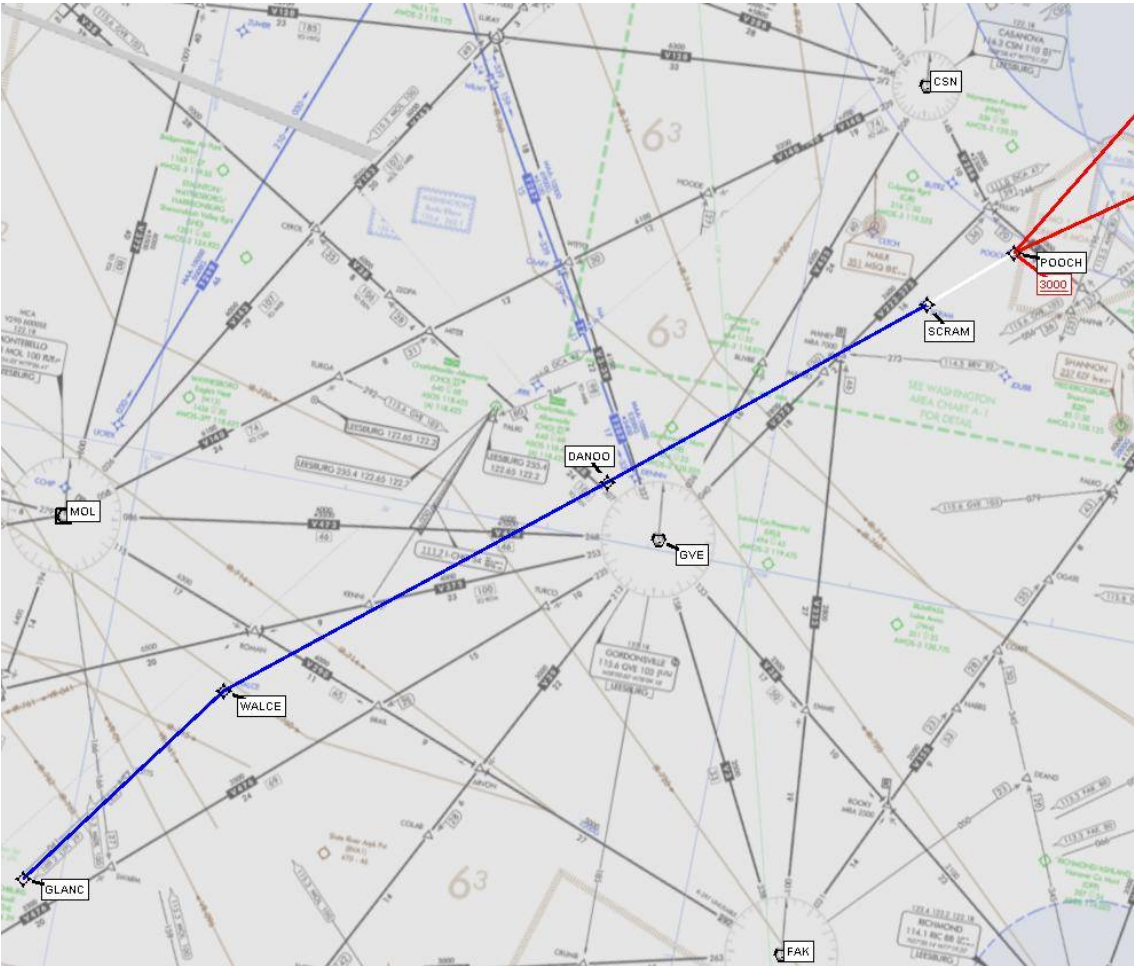
DME DME Assessment Results for SCRAM6 path KDCA:RW01:DER\_GLANC

Graphic Depiction 5



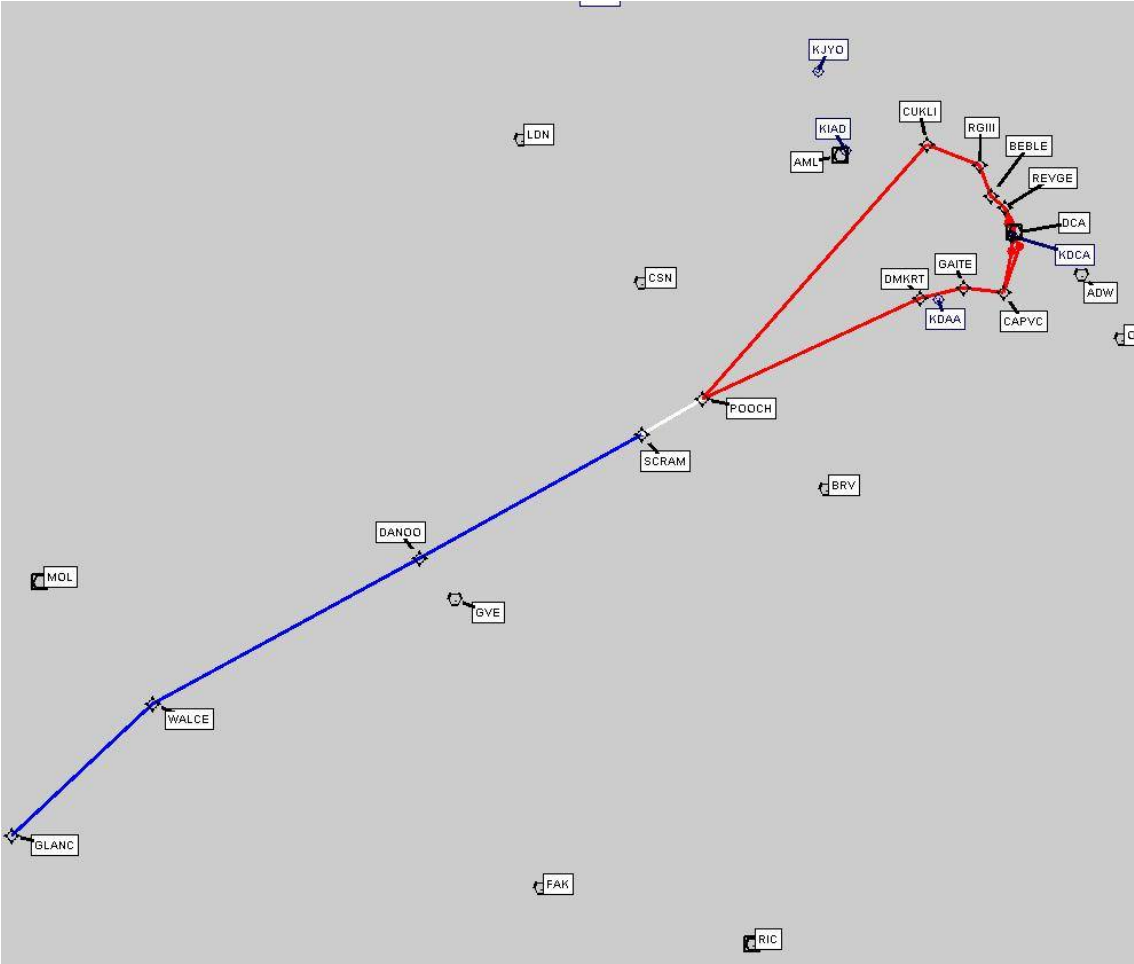
DME DME Assessment Results for SCRAM6 path KDCA:RW01:DER\_GLANC

Graphic Depiction 6



DME DME Assessment Results for SCRAM6 path KDCA:RW01:DER\_GLANC

Graphic Depiction 7



## DME DME Assessment Results for SCRAM6 path KDCA:RW15:DER\_POOCH

### Results Summary

|                            |                                                                                                                                                                                                             |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Flyability:                | Completed                                                                                                                                                                                                   |
| DME/DME:                   | Completed - No Critical DMEs                                                                                                                                                                                |
| Name:                      | Robert CTR Mason                                                                                                                                                                                            |
| Project File:              | C:\Users\Robert CTR Mason\Desktop\DCA SID AMENDMENTS with REVGE\DCA - SCRAM\SCRAM.tgs                                                                                                                       |
| Output File:               | C:\Users\Robert CTR Mason\Desktop\DCA SID AMENDMENTS with REVGE\DCA - SCRAM\SCRAM6 - DME\KDAA [IFPA] SCRAM6 20191113_1423 EST\KDCA-RW15-<br>DER_POOCH\KDAA SCRAM6 SID KDCA RW15 POOCH 20191113_1423 EST.pdf |
| Procedure Name:            | SCRAM6                                                                                                                                                                                                      |
| Software:<br>DmeDmePlugin: | 6.0.0                                                                                                                                                                                                       |
| Date/Time:                 | 11/13/2019 14:23 EST                                                                                                                                                                                        |
| Databases:                 | DTED.MAX                                                                                                                                                                                                    |

### Failures

No Failures

### Warnings

No Warnings

### Notes For Flight Check

None

### Flight Plan

| Name                                                             | Type | Lat/Lon                                                  | Altitude (ft) | VNAV Mode | Ground Speed (kts) | Turn Type | Leg Type |
|------------------------------------------------------------------|------|----------------------------------------------------------|---------------|-----------|--------------------|-----------|----------|
| KDCA:RW15:DER                                                    | WP   | N38° 50'<br>59.294600000",<br>W077° 01'<br>55.952800000" | 10.3          | VNAV      | 130                | FLY_OVER  | TF       |
| CAPVC                                                            | WP   | N38° 44'<br>58.800000000",<br>W077° 02'<br>04.960000000" | 1415.9        | VNAV      | 200                | FLY_BY    | TF       |
| GAITE                                                            | WP   | N38° 44'<br>40.120000000",<br>W077° 07'<br>44.970000000" | 2304.8        | VNAV      | 200                | FLY_BY    | TF       |
| DMKRT                                                            | WP   | N38° 42'<br>34.330000000",<br>W077° 13'<br>24.610000000" | 3000          | VNAV      | 200                | FLY_BY    | TF       |
| POOCH                                                            | WP   | N38° 27'<br>18.560000000",<br>W077° 40'<br>31.560000000" | 3000          | VNAV      | 220                | FLY_BY    | TF       |
| Climb Gradient:<br>500.0 ft/NM up to 515.0 ft MSL<br>200.0 ft/NM |      |                                                          |               |           |                    |           |          |

### Flyability

|                        |                                               |
|------------------------|-----------------------------------------------|
| Flight Type:           | SID                                           |
| Selected Airport:      | KDAA [IFPA]                                   |
| Climb Gradient:        | 500.0 ft/NM up to 515.0 ft MSL<br>200.0 ft/NM |
| Speeds:                | 130 at the Runway DER                         |
|                        | 145 at the end of the VA or VI leg            |
|                        | 200 Ground Speed to 11000 FT                  |
|                        | 240 Ground Speed to 18000 FT                  |
|                        | 260 Ground Speed to 24000 FT                  |
|                        | 340 Ground Speed above 24000 FT               |
| Descent During a Turn: | Allowed                                       |
| VNAV Mode:             | Flight Plan                                   |

## DME DME Assessment Results for SCRAM6 path KDCA:RW15:DER\_POOCH

| DME/DME                           |                      |
|-----------------------------------|----------------------|
| RNP:                              | RNP 2                |
| Flight Mode:                      | Manual               |
| Line of Sight (DTED Level 0 Max): | Evaluated            |
| Inertial Drift:                   | Enabled              |
| Initial Drift:                    | 0.558 NM             |
| INS Drift Rate:                   | 8.0 NM/Hour          |
| Range Mode:                       | OSV                  |
| RNP Edges:                        | Evaluated            |
| Min DME Range:                    | 3.0 NM               |
| DME Types:                        | DME, VOR-DME, VORTAC |
| DME Include Angles:               | 30 to 150            |
| Critical DMEs:                    | Allowed              |
| DoD Facilities:                   | Not included         |
| Foreign Facilities:               | Not included         |
| High DMEs:                        | Included             |
| Low DMEs:                         | Included             |
| Terminal DMEs:                    | Included             |
| Flight Check DMEs:                | Not selected         |
| Higher Altitudes:                 | Not Evaluated        |
| Near Maximum Altitude:            | Not Evaluated        |
| Automatic ESVs:                   | Not enabled          |
| Disabled DMEs:                    | None                 |

| DME/DME (Continued) |      |                                                          |        |       |      |        |          |         |        |          |
|---------------------|------|----------------------------------------------------------|--------|-------|------|--------|----------|---------|--------|----------|
| DMEs Used           |      |                                                          |        |       |      |        |          |         |        |          |
| #                   | Name | Lat/Lon                                                  | MAGVAR | Range | Type | Source | Critical | Status  | Time   | Distance |
| 1                   | OTT  | N38° 42'<br>21.135200000",<br>W076° 44'<br>41.085400000" | 10.0 W | 40    | L    | IFPA   | NO       | Enabled | 19.4 % | 18.6 %   |
| 2                   | BAL  | N39° 10'<br>15.828300000",<br>W076° 39'<br>40.522500000" | 11.0 W | 40    | L    | IFPA   | NO       | Enabled | 28.6 % | 28.9 %   |
| 3                   | BRV  | N38° 20'<br>10.526400000",<br>W077° 21'<br>10.315900000" | 9.0 W  | 40    | L    | IFPA   | NO       | Enabled | 83 %   | 85 %     |
| 4                   | CSN  | N38° 38'<br>28.327700000",<br>W077° 51'<br>55.797900000" | 6.0 W  | 130   | H    | IFPA   | NO       | Enabled | 73.2 % | 76.5 %   |
| 5                   | AML  | N38° 56'<br>04.538000000",<br>W077° 28'<br>00.128500000" | 8.0 W  | 40    | L    | IFPA   | NO       | Enabled | 63.8 % | 66.7 %   |
| 6                   | DCA  | N38° 51'<br>34.030100000",<br>W077° 02'<br>11.170000000" | 9.0 W  | 40    | L    | IFPA   | NO       | Enabled | 50.4 % | 52.2 %   |

# DME DME Assessment Results for SCRAM6 path KDCA:RW15:DER\_POOCH

| Flight Check DME Selection |               |     |     |     |     |           |
|----------------------------|---------------|-----|-----|-----|-----|-----------|
| Distance [NM]              | Selected DMEs |     |     |     |     | Alternate |
| 0.0                        |               |     |     |     |     |           |
| 2.9                        | OTT           | BRV |     |     |     |           |
| 3.6                        | OTT           | BRV | BAL |     |     |           |
| 4.6                        | OTT           | BRV | BAL | DCA |     |           |
| 6.3                        | OTT           | BRV | BAL |     |     |           |
| 7.4                        | OTT           | DCA | CSN | BRV | BAL |           |
| 10.8                       | CSN           | BRV |     |     |     |           |
| 11.5                       | AML           | BAL | DCA | BRV | CSN |           |
| 16.5                       | AML           | DCA | CSN | BRV |     |           |
| 19.9                       | AML           | DCA | CSN |     |     |           |
| 20.0                       | CSN           | BRV | AML | DCA |     |           |
| 22.9                       | AML           | CSN | DCA |     |     |           |
| 22.9                       | CSN           | BRV | AML | DCA |     |           |
| 28.4                       | AML           | CSN | BRV |     |     |           |
| 38.7                       | AML           | CSN |     |     |     |           |
| 39.4                       |               |     |     |     |     |           |

| Inertial Drift Segments |                                                 |                                                 |             |
|-------------------------|-------------------------------------------------|-------------------------------------------------|-------------|
| #                       | Start Location                                  | End Location                                    | Length [NM] |
| 1                       | N38° 50' 57.573559104", W077° 01' 54.272969178" | N38° 48' 16.672687539", W077° 01' 29.473335479" | 2.897       |

| Available DMEs by Waypoints |                |                         |
|-----------------------------|----------------|-------------------------|
| Waypoint Before             | Waypoint After | DME List                |
| KDCA:RW15:DER               | CAPVC          | DCA, BRV, BAL, OTT      |
| CAPVC                       | GAITE          | DCA, BRV, BAL, OTT, CSN |
| GAITE                       | DMKRT          | AML, DCA, BRV, BAL, CSN |
| DMKRT                       | POOCH          | AML, DCA, BRV, BAL, CSN |

# DME DME Assessment Results for SCRAM6 path KDCA:RW15:DER\_POOCH

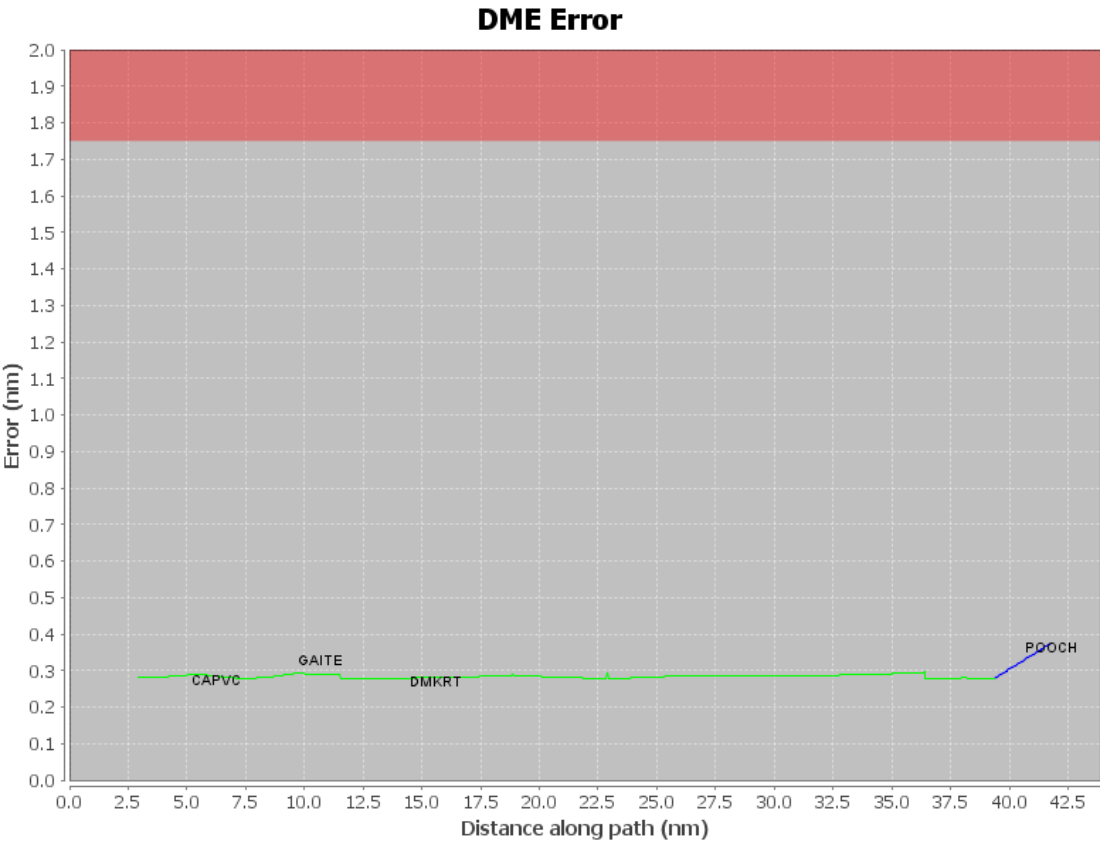
## User Data Files

# File Name

None

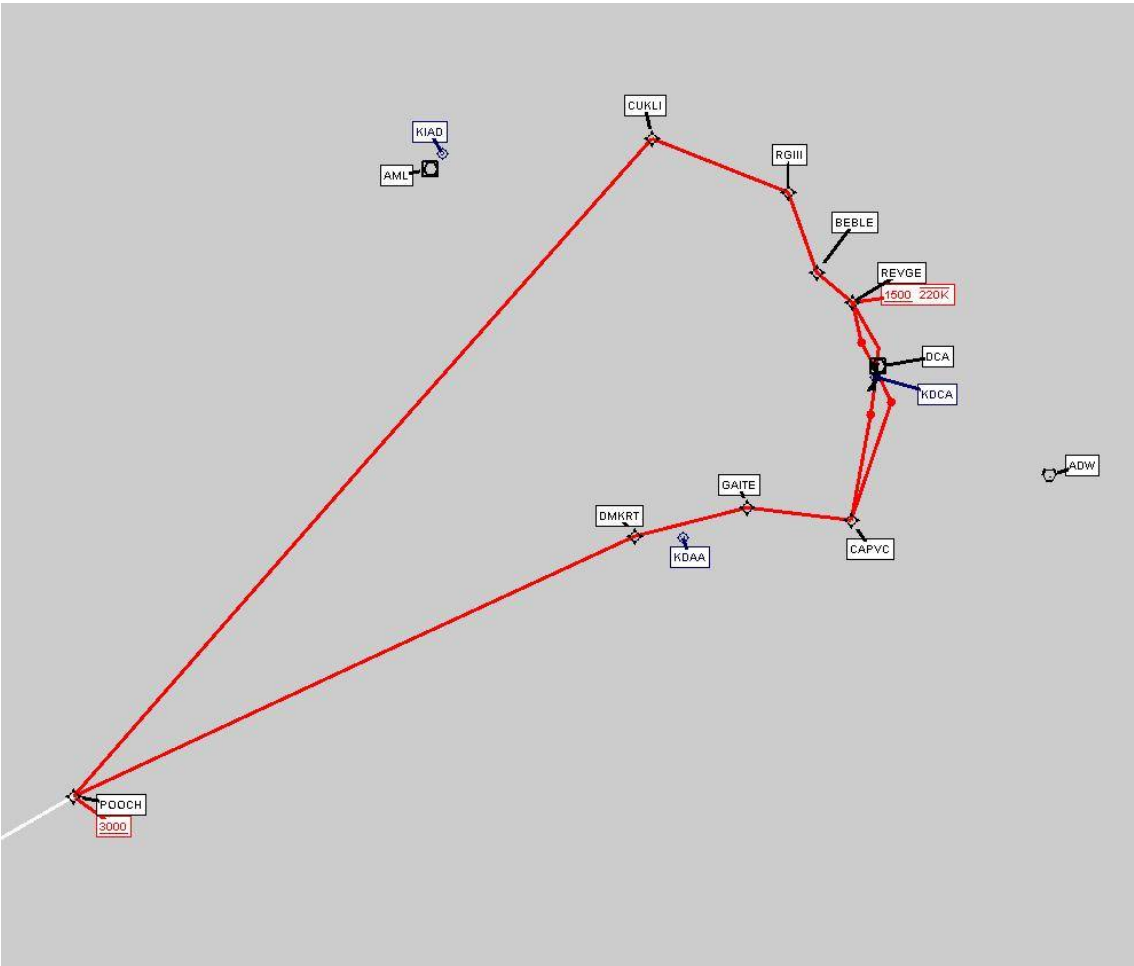
## User DMEs

| #    | Name                            | Lat/Lon                                                             | MAGVAR | Range | Elevation [ft] | Frequency                                                      | Replaces          | Status |
|------|---------------------------------|---------------------------------------------------------------------|--------|-------|----------------|----------------------------------------------------------------|-------------------|--------|
| 1    | AML FAA 732650-41<br>AML [IFPA] | N38° 56'<br>04.538000000",<br>W077° 28'<br>00.128500000"            | 8.0 W  | 40    | 298.6          | 113.5                                                          | AML FAA 732650-41 |        |
| ESV: |                                 | Bearing [True]: 172.0° to 242.0°<br>Bearing [Mag]: 180.0° to 250.0° |        |       |                | Arc Distance: Out to 65.0 NM<br>Altitude: 5000.0 to 20000.0 ft |                   |        |
| 2    | RIC FAA 704161-24<br>RIC [IFPA] | N37° 30'<br>08.452100000",<br>W077° 19'<br>12.994400000"            | 9.0 W  | 130   | 167.3          | 114.1                                                          | RIC FAA 704161-24 |        |
| ESV: |                                 | Bearing [True]: 290.0° to 339.0°<br>Bearing [Mag]: 299.0° to 348.0° |        |       |                | Arc Distance: Out to 65.0 NM<br>Altitude: 6500.0 to 16000.0 ft |                   |        |
| 3    | FAK FAA 698146-14<br>FAK [IFPA] | N37° 31'<br>42.634000000",<br>W077° 49'<br>41.589000000"            | 6.0 W  | 130   | 460            | 113.3                                                          | FAK FAA 698146-14 |        |
| ESV: |                                 | Bearing [True]: 309.0° to 3.0°<br>Bearing [Mag]: 315.0° to 9.0°     |        |       |                | Arc Distance: Out to 86.0 NM<br>Altitude: 5000.0 to 16000.0 ft |                   |        |
| 4    | CSN FAA 682017-12<br>CSN [IFPA] | N38° 38'<br>28.327700000",<br>W077° 51'<br>55.797900000"            | 6.0 W  | 130   | 441.8          | 116.3                                                          | CSN FAA 682017-12 |        |
| ESV: |                                 | Bearing [True]: 183.0° to 215.0°<br>Bearing [Mag]: 189.0° to 221.0° |        |       |                | Arc Distance: Out to 96.0 NM<br>Altitude: 7500.0 to 16000.0 ft |                   |        |
| 5    | CSN FAA 682017-14<br>CSN [IFPA] | N38° 38'<br>28.327700000",<br>W077° 51'<br>55.797900000"            | 6.0 W  | 130   | 441.8          | 116.3                                                          | CSN FAA 682017-14 |        |
| ESV: |                                 | Bearing [True]: 148.0° to 205.0°<br>Bearing [Mag]: 154.0° to 211.0° |        |       |                | Arc Distance: Out to 92.0 NM<br>Altitude: 7500.0 to 16000.0 ft |                   |        |
| 6    | RIC FAA 704161-21<br>RIC [IFPA] | N37° 30'<br>08.452100000",<br>W077° 19'<br>12.994400000"            | 9.0 W  | 130   | 167.3          | 114.1                                                          | RIC FAA 704161-21 |        |
| ESV: |                                 | Bearing [True]: 285.0° to 9.0°<br>Bearing [Mag]: 294.0° to 18.0°    |        |       |                | Arc Distance: Out to 65.0 NM<br>Altitude: 5000.0 to 16000.0 ft |                   |        |



DME DME Assessment Results for SCRAM6 path KDCA:RW15:DER\_POOCH

Graphic Depiction 1



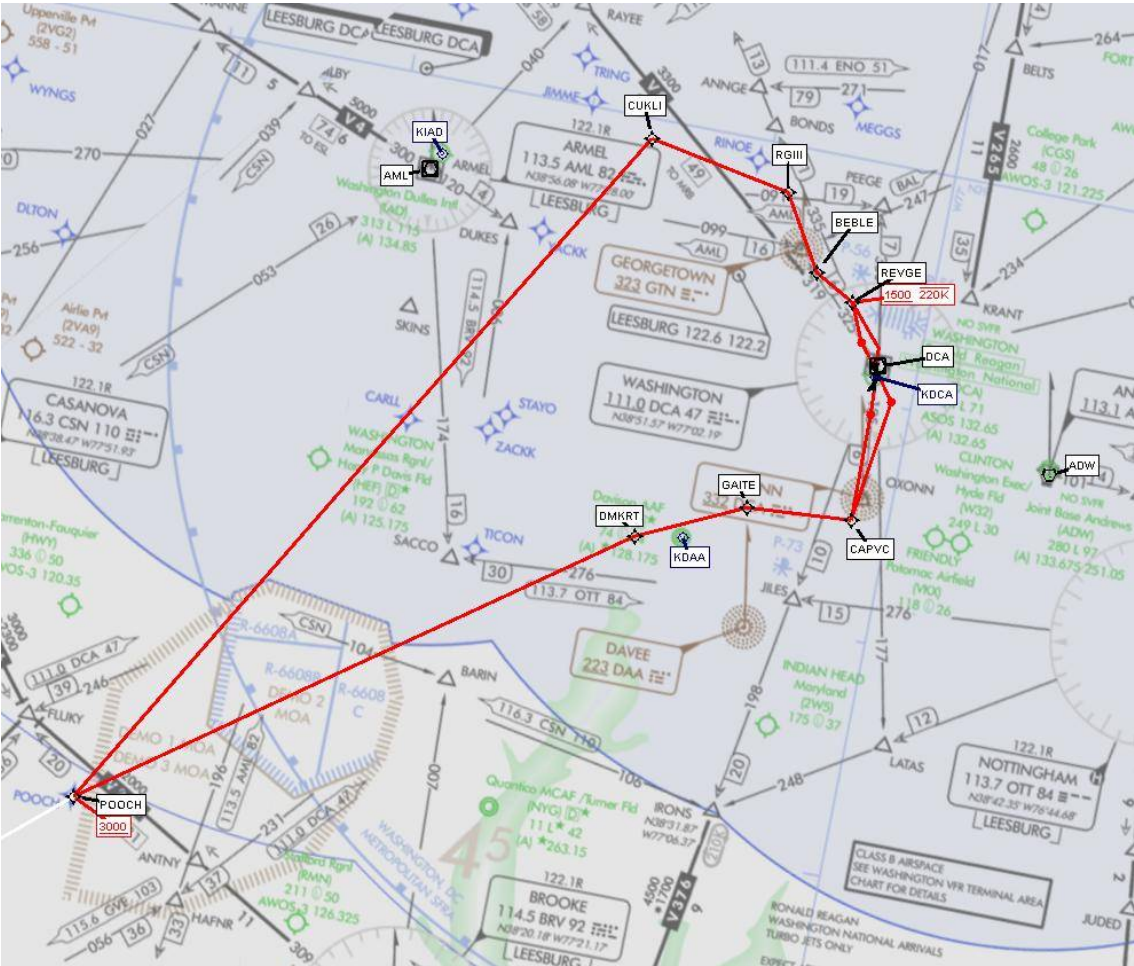
DME DME Assessment Results for SCRAM6 path KDCA:RW15:DER\_POOCH

Graphic Depiction 2



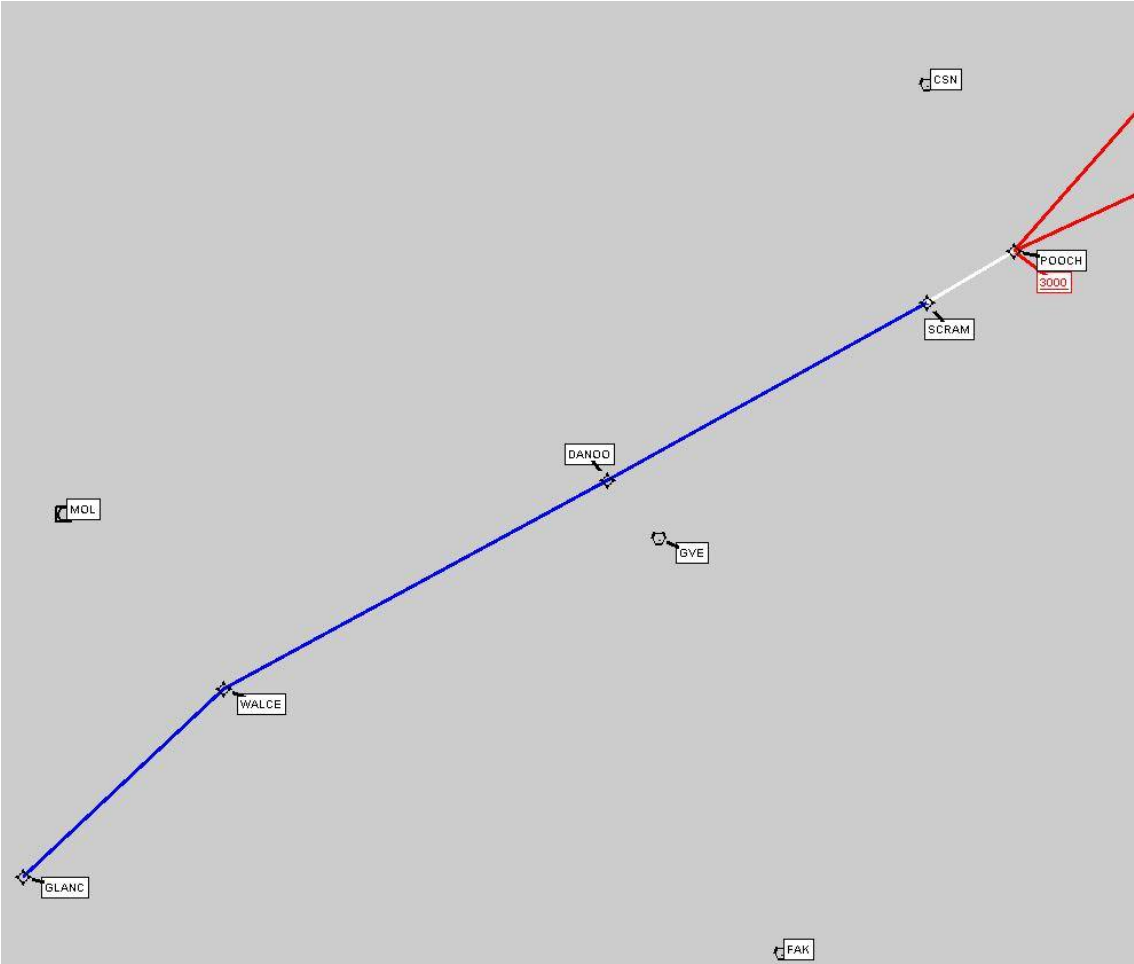
DME DME Assessment Results for SCRAM6 path KDCA:RW15:DER\_POOCH

Graphic Depiction 3



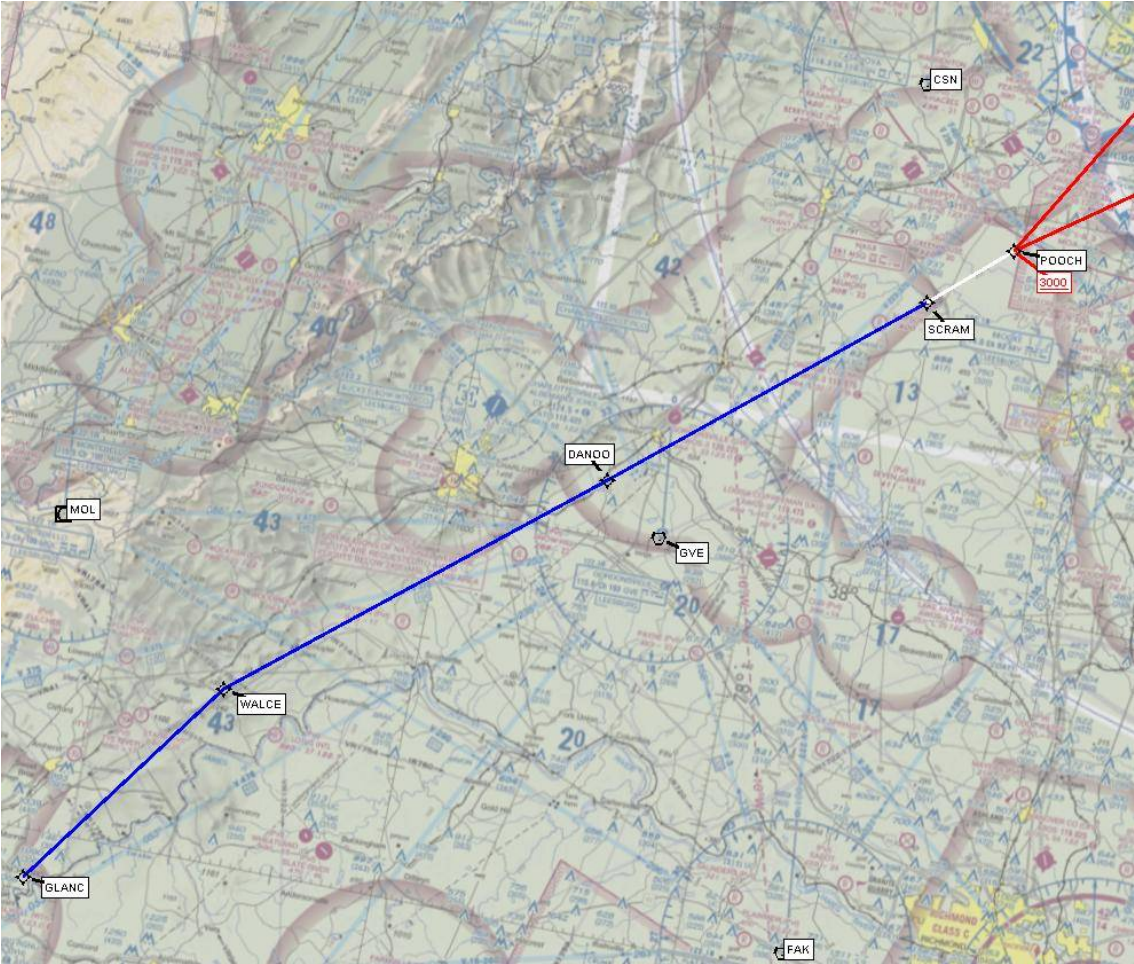
DME DME Assessment Results for SCRAM6 path KDCA:RW15:DER\_POOCH

Graphic Depiction 4



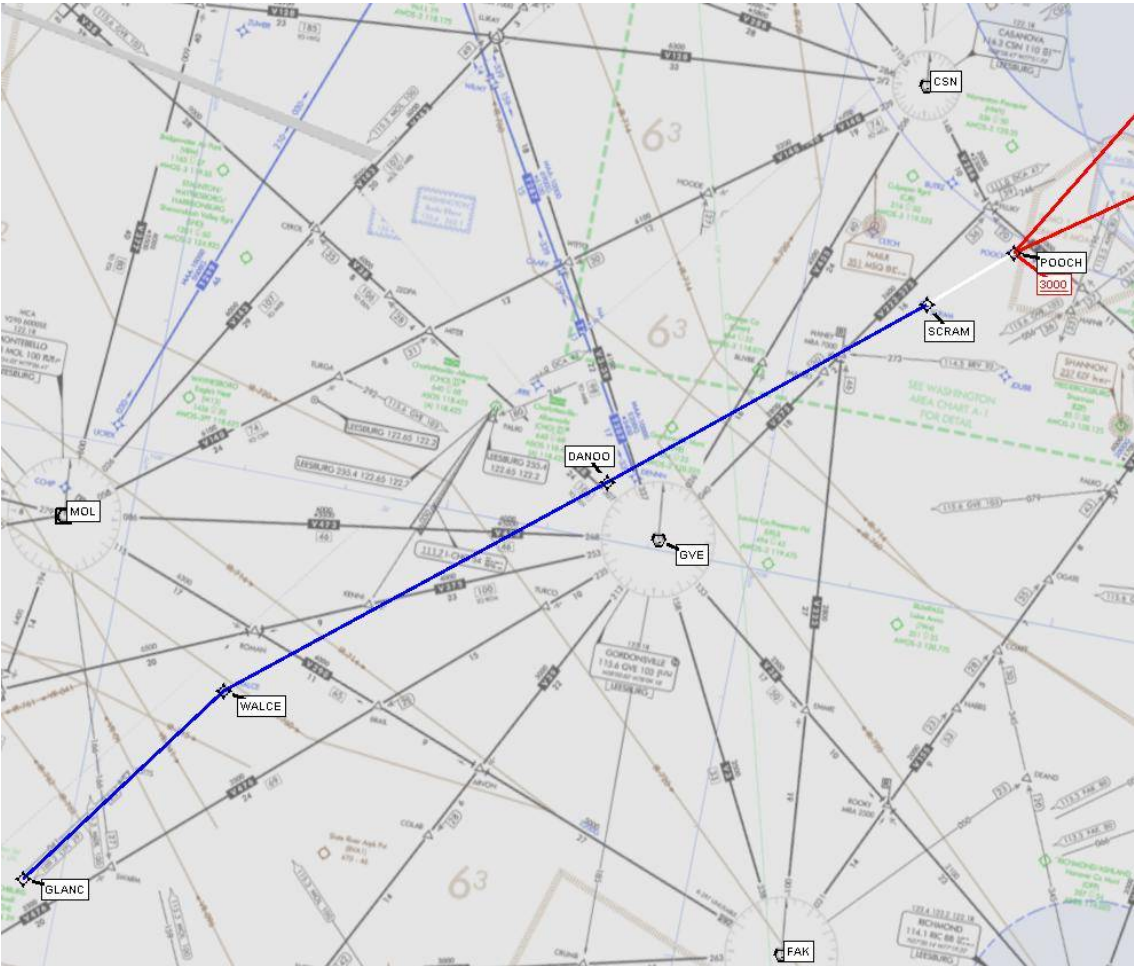
DME DME Assessment Results for SCRAM6 path KDCA:RW15:DER\_POOCH

Graphic Depiction 5



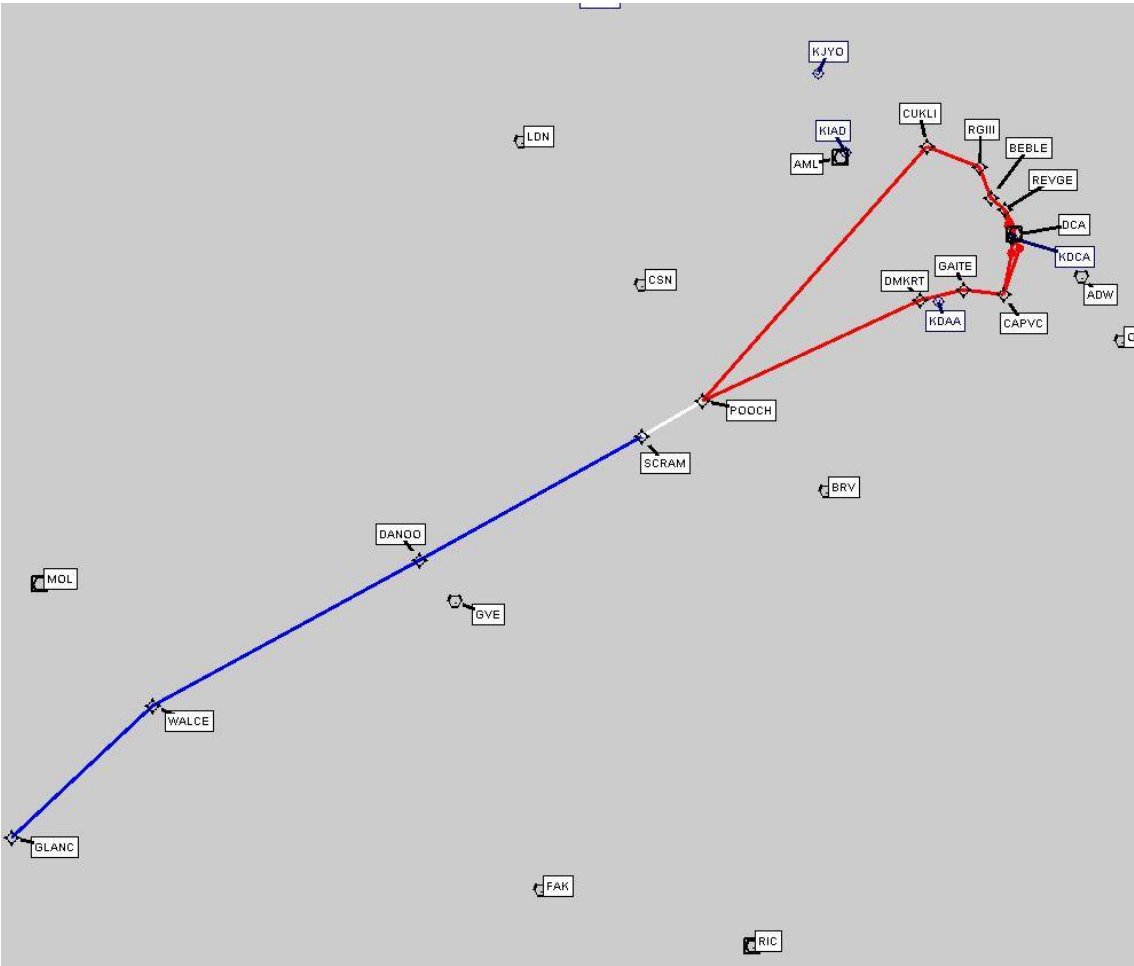
DME DME Assessment Results for SCRAM6 path KDCA:RW15:DER\_POOCH

Graphic Depiction 6



DME DME Assessment Results for SCRAM6 path KDCA:RW15:DER\_POOCH

Graphic Depiction 7



## DME DME Assessment Results for SCRAM6 path KDCA:RW19:DER\_CAPVC

### Results Summary

|                            |                                                                                                                                                                                                         |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Flyability:                | Completed                                                                                                                                                                                               |
| DME/DME:                   | Completed - No Critical DMEs                                                                                                                                                                            |
| Name:                      | Robert CTR Mason                                                                                                                                                                                        |
| Project File:              | C:\Users\Robert CTR Mason\Desktop\DCA SID AMENDMENTS with REVGE\DCA - SCRAM\SCRAM.tgs                                                                                                                   |
| Output File:               | C:\Users\Robert CTR Mason\Desktop\DCA SID AMENDMENTS with REVGE\DCA - SCRAM\SCRAM6 - DME\KDAA [IFPA] SCRAM6 20191113_1423 EST\KDCA-RW19-DER_CAPVC\KDAA SCRAM6 SID KDCA RW19 CAPVC 20191113_1423 EST.pdf |
| Procedure Name:            | SCRAM6                                                                                                                                                                                                  |
| Software:<br>DmeDmePlugin: | 6.0.0                                                                                                                                                                                                   |
| Date/Time:                 | 11/13/2019 14:23 EST                                                                                                                                                                                    |
| Databases:                 | DTED.MAX                                                                                                                                                                                                |

### Failures

No Failures

### Warnings

No Warnings

### Notes For Flight Check

None

### Flight Plan

| Name                                                             | Type | Lat/Lon                                                  | Altitude (ft) | VNAV Mode | Ground Speed (kts) | Turn Type | Leg Type |
|------------------------------------------------------------------|------|----------------------------------------------------------|---------------|-----------|--------------------|-----------|----------|
| KDCA:RW19:DER                                                    | WP   | N38° 50'<br>29.645500000",<br>W077° 02'<br>12.294400000" | 11.4          | VNAV      | 130                | FLY_OVER  | TF       |
| CAPVC                                                            | WP   | N38° 44'<br>58.800000000",<br>W077° 02'<br>04.960000000" | 1415.9        | VNAV      | 200                | FLY_BY    | TF       |
| Climb Gradient:<br>500.0 ft/NM up to 515.0 ft MSL<br>200.0 ft/NM |      |                                                          |               |           |                    |           |          |

### Flyability

|                        |                                               |
|------------------------|-----------------------------------------------|
| Flight Type:           | SID                                           |
| Selected Airport:      | KDAA [IFPA]                                   |
| Climb Gradient:        | 500.0 ft/NM up to 515.0 ft MSL<br>200.0 ft/NM |
| Speeds:                | 130 at the Runway DER                         |
|                        | 145 at the end of the VA or VI leg            |
|                        | 200 Ground Speed to 11000 FT                  |
|                        | 240 Ground Speed to 18000 FT                  |
|                        | 260 Ground Speed to 24000 FT                  |
|                        | 340 Ground Speed above 24000 FT               |
| Descent During a Turn: | Allowed                                       |
| VNAV Mode:             | Flight Plan                                   |

## DME DME Assessment Results for SCRAM6 path KDCA:RW19:DER\_CAPVC

| DME/DME                           |                      |
|-----------------------------------|----------------------|
| RNP:                              | RNP 2                |
| Flight Mode:                      | Manual               |
| Line of Sight (DTED Level 0 Max): | Evaluated            |
| Inertial Drift:                   | Enabled              |
| Initial Drift:                    | 0.558 NM             |
| INS Drift Rate:                   | 8.0 NM/Hour          |
| Range Mode:                       | OSV                  |
| RNP Edges:                        | Evaluated            |
| Min DME Range:                    | 3.0 NM               |
| DME Types:                        | DME, VOR-DME, VORTAC |
| DME Include Angles:               | 30 to 150            |
| Critical DMEs:                    | Allowed              |
| DoD Facilities:                   | Not included         |
| Foreign Facilities:               | Not included         |
| High DMEs:                        | Included             |
| Low DMEs:                         | Included             |
| Terminal DMEs:                    | Included             |
| Flight Check DMEs:                | Not selected         |
| Higher Altitudes:                 | Not Evaluated        |
| Near Maximum Altitude:            | Not Evaluated        |
| Automatic ESVs:                   | Not enabled          |
| Disabled DMEs:                    | None                 |

| DME/DME (Continued) |      |                                                    |        |       |      |        |          |         |        |          |
|---------------------|------|----------------------------------------------------|--------|-------|------|--------|----------|---------|--------|----------|
| DMEs Used           |      |                                                    |        |       |      |        |          |         |        |          |
| #                   | Name | Lat/Lon                                            | MAGVAR | Range | Type | Source | Critical | Status  | Time   | Distance |
| 1                   | OTT  | N38° 42' 21.135200000",<br>W076° 44' 41.085400000" | 10.0 W | 40    | L    | IFPA   | NO       | Enabled | 48 %   | 52.5 %   |
| 2                   | BAL  | N39° 10' 15.828300000",<br>W076° 39' 40.522500000" | 11.0 W | 40    | L    | IFPA   | NO       | Enabled | 44.9 % | 49.6 %   |
| 3                   | BRV  | N38° 20' 10.526400000",<br>W077° 21' 10.315900000" | 9.0 W  | 40    | L    | IFPA   | NO       | Enabled | 48 %   | 52.5 %   |
| 4                   | ADW  | N38° 48' 25.990000000",<br>W076° 51' 58.520000000" | 10.0 W | 40    | L    | IFPA   | NO       | Enabled | 2.3 %  | 2.2 %    |
| 5                   | DCA  | N38° 51' 34.030100000",<br>W077° 02' 11.170000000" | 9.0 W  | 40    | L    | IFPA   | NO       | Enabled | 21.7 % | 25.5 %   |

| Flight Check DME Selection |               |     |     |     |  |           |
|----------------------------|---------------|-----|-----|-----|--|-----------|
| Distance [NM]              | Selected DMEs |     |     |     |  | Alternate |
| 0.0                        |               |     |     |     |  |           |
| 1.9                        | ADW           | DCA |     |     |  |           |
| 2.1                        |               |     |     |     |  |           |
| 2.6                        | OTT           | BRV |     |     |  |           |
| 2.8                        | OTT           | BRV | BAL |     |  |           |
| 4.2                        | OTT           | BRV | DCA | BAL |  |           |

| Inertial Drift Segments |                                                 |                                                 |             |
|-------------------------|-------------------------------------------------|-------------------------------------------------|-------------|
| #                       | Start Location                                  | End Location                                    | Length [NM] |
| 1                       | N38° 50' 27.491810194", W077° 02' 12.077669869" | N38° 48' 33.784600239", W077° 02' 05.966855757" | 1.8973      |
| 2                       | N38° 48' 24.122418351", W077° 02' 05.921567749" | N38° 47' 52.720296440", W077° 02' 05.774405188" | 0.5229      |

# DME DME Assessment Results for SCRAM6 path KDCA:RW19:DER\_CAPVC

## Available DMEs by Waypoints

| Waypoint Before | Waypoint After | DME List                |
|-----------------|----------------|-------------------------|
| KDCA:RW19:DER   | CAPVC          | DCA, ADW, BRV, BAL, OTT |

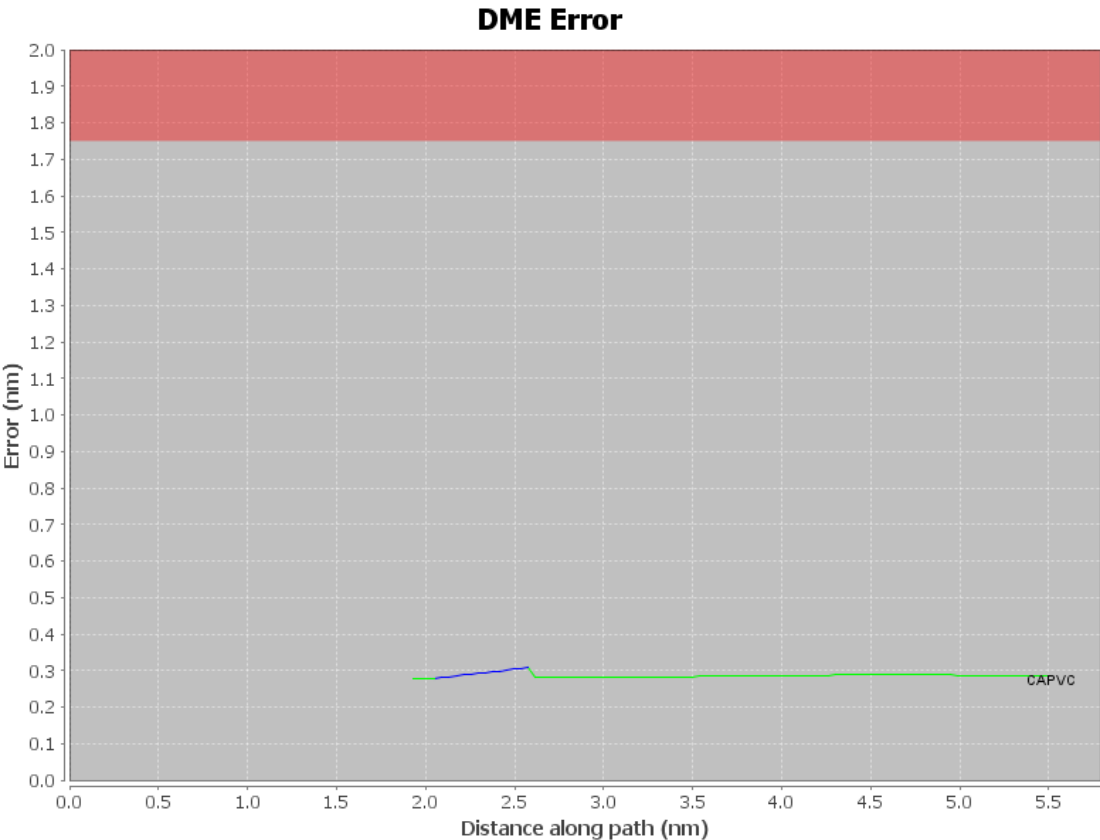
## User Data Files

# File Name

None

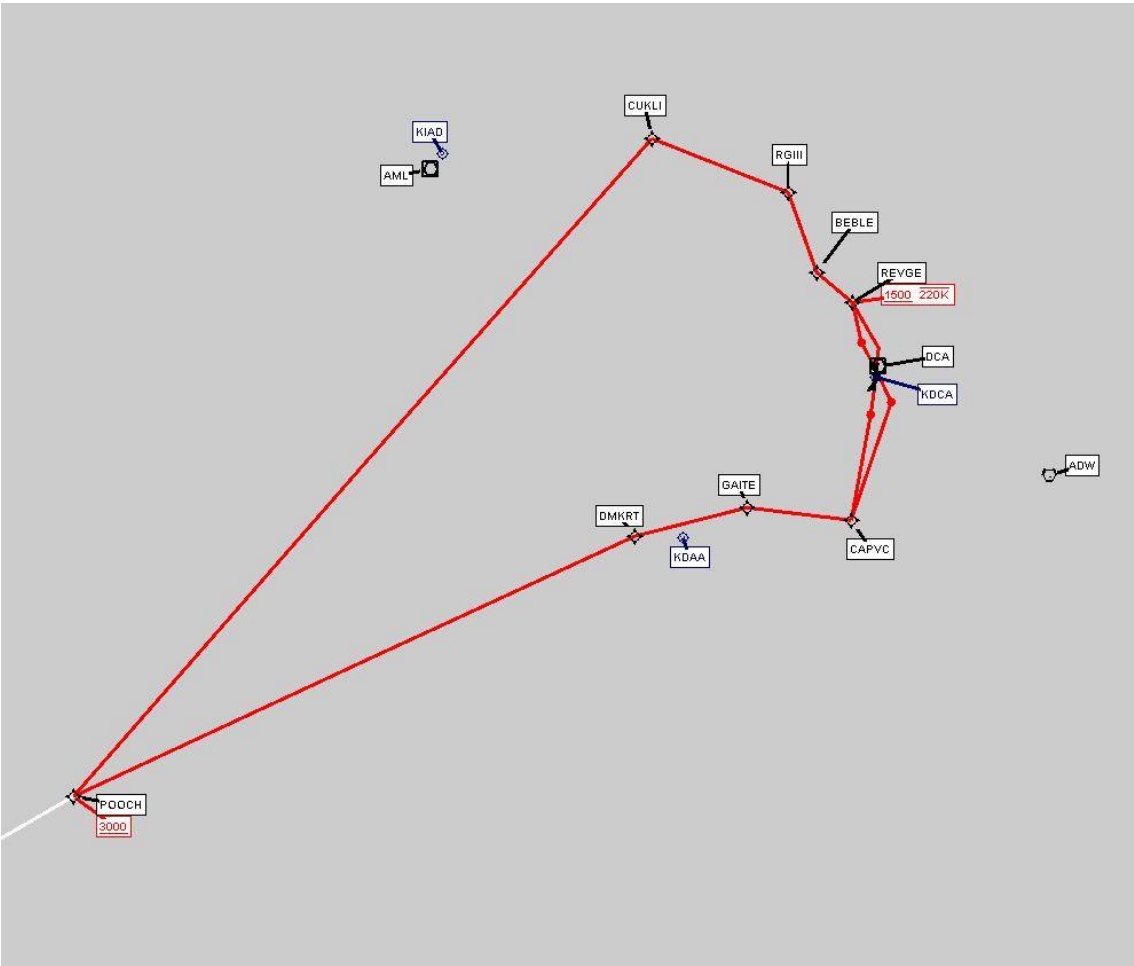
## User DMEs

| #    | Name                            | Lat/Lon                                                             | MAGVAR | Range | Elevation [ft] | Frequency                                                      | Replaces          | Status |
|------|---------------------------------|---------------------------------------------------------------------|--------|-------|----------------|----------------------------------------------------------------|-------------------|--------|
| 1    | AML FAA 732650-41<br>AML [IFPA] | N38° 56'<br>04.538000000",<br>W077° 28'<br>00.128500000"            | 8.0 W  | 40    | 298.6          | 113.5                                                          | AML FAA 732650-41 |        |
| ESV: |                                 | Bearing [True]: 172.0° to 242.0°<br>Bearing [Mag]: 180.0° to 250.0° |        |       |                | Arc Distance: Out to 65.0 NM<br>Altitude: 5000.0 to 20000.0 ft |                   |        |
| 2    | RIC FAA 704161-24<br>RIC [IFPA] | N37° 30'<br>08.452100000",<br>W077° 19'<br>12.994400000"            | 9.0 W  | 130   | 167.3          | 114.1                                                          | RIC FAA 704161-24 |        |
| ESV: |                                 | Bearing [True]: 290.0° to 339.0°<br>Bearing [Mag]: 299.0° to 348.0° |        |       |                | Arc Distance: Out to 65.0 NM<br>Altitude: 6500.0 to 16000.0 ft |                   |        |
| 3    | FAK FAA 698146-14<br>FAK [IFPA] | N37° 31'<br>42.634000000",<br>W077° 49'<br>41.589000000"            | 6.0 W  | 130   | 460            | 113.3                                                          | FAK FAA 698146-14 |        |
| ESV: |                                 | Bearing [True]: 309.0° to 3.0°<br>Bearing [Mag]: 315.0° to 9.0°     |        |       |                | Arc Distance: Out to 86.0 NM<br>Altitude: 5000.0 to 16000.0 ft |                   |        |
| 4    | CSN FAA 682017-12<br>CSN [IFPA] | N38° 38'<br>28.327700000",<br>W077° 51'<br>55.797900000"            | 6.0 W  | 130   | 441.8          | 116.3                                                          | CSN FAA 682017-12 |        |
| ESV: |                                 | Bearing [True]: 183.0° to 215.0°<br>Bearing [Mag]: 189.0° to 221.0° |        |       |                | Arc Distance: Out to 96.0 NM<br>Altitude: 7500.0 to 16000.0 ft |                   |        |
| 5    | CSN FAA 682017-14<br>CSN [IFPA] | N38° 38'<br>28.327700000",<br>W077° 51'<br>55.797900000"            | 6.0 W  | 130   | 441.8          | 116.3                                                          | CSN FAA 682017-14 |        |
| ESV: |                                 | Bearing [True]: 148.0° to 205.0°<br>Bearing [Mag]: 154.0° to 211.0° |        |       |                | Arc Distance: Out to 92.0 NM<br>Altitude: 7500.0 to 16000.0 ft |                   |        |
| 6    | RIC FAA 704161-21<br>RIC [IFPA] | N37° 30'<br>08.452100000",<br>W077° 19'<br>12.994400000"            | 9.0 W  | 130   | 167.3          | 114.1                                                          | RIC FAA 704161-21 |        |
| ESV: |                                 | Bearing [True]: 285.0° to 9.0°<br>Bearing [Mag]: 294.0° to 18.0°    |        |       |                | Arc Distance: Out to 65.0 NM<br>Altitude: 5000.0 to 16000.0 ft |                   |        |



DME DME Assessment Results for SCRAM6 path KDCA:RW19:DER\_CAPVC

Graphic Depiction 1



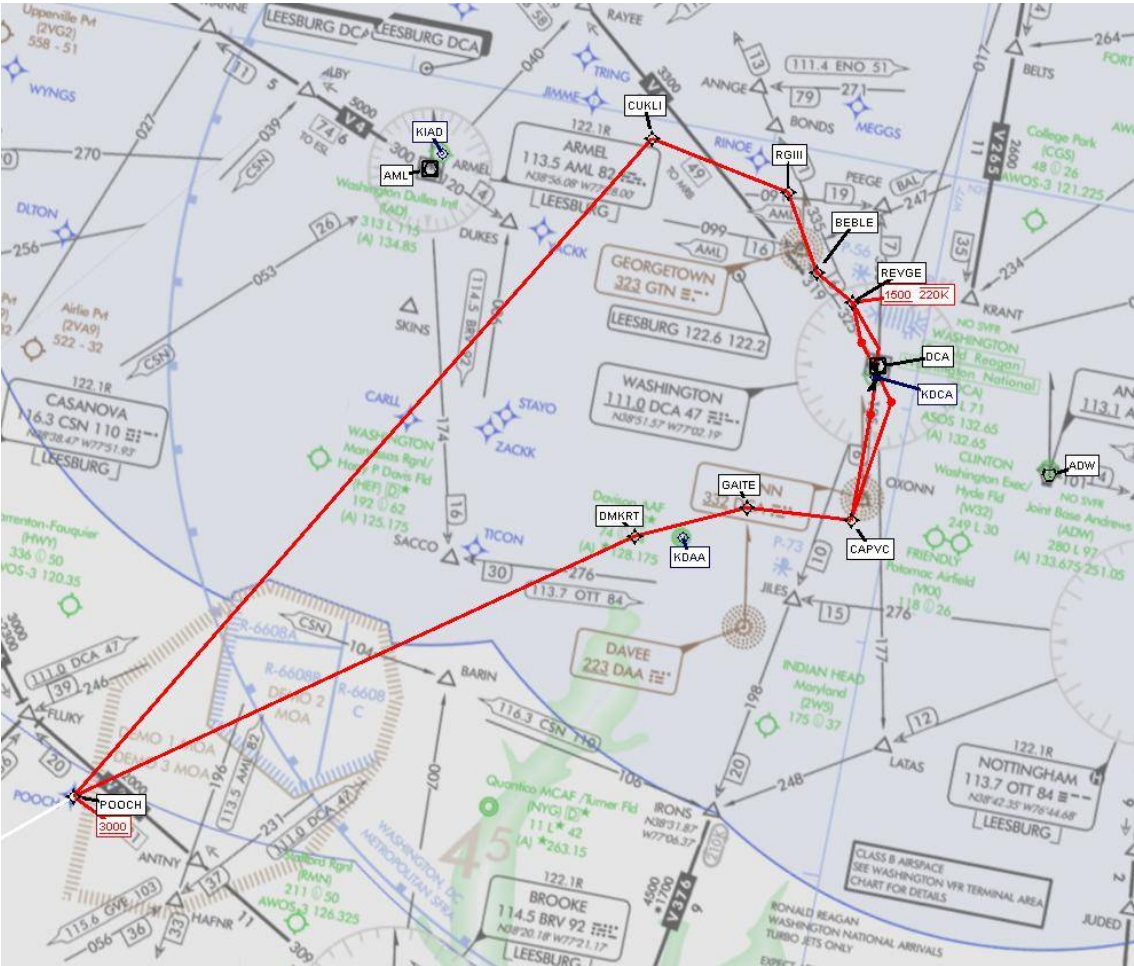
DME DME Assessment Results for SCRAM6 path KDCA:RW19:DER\_CAPVC

Graphic Depiction 2



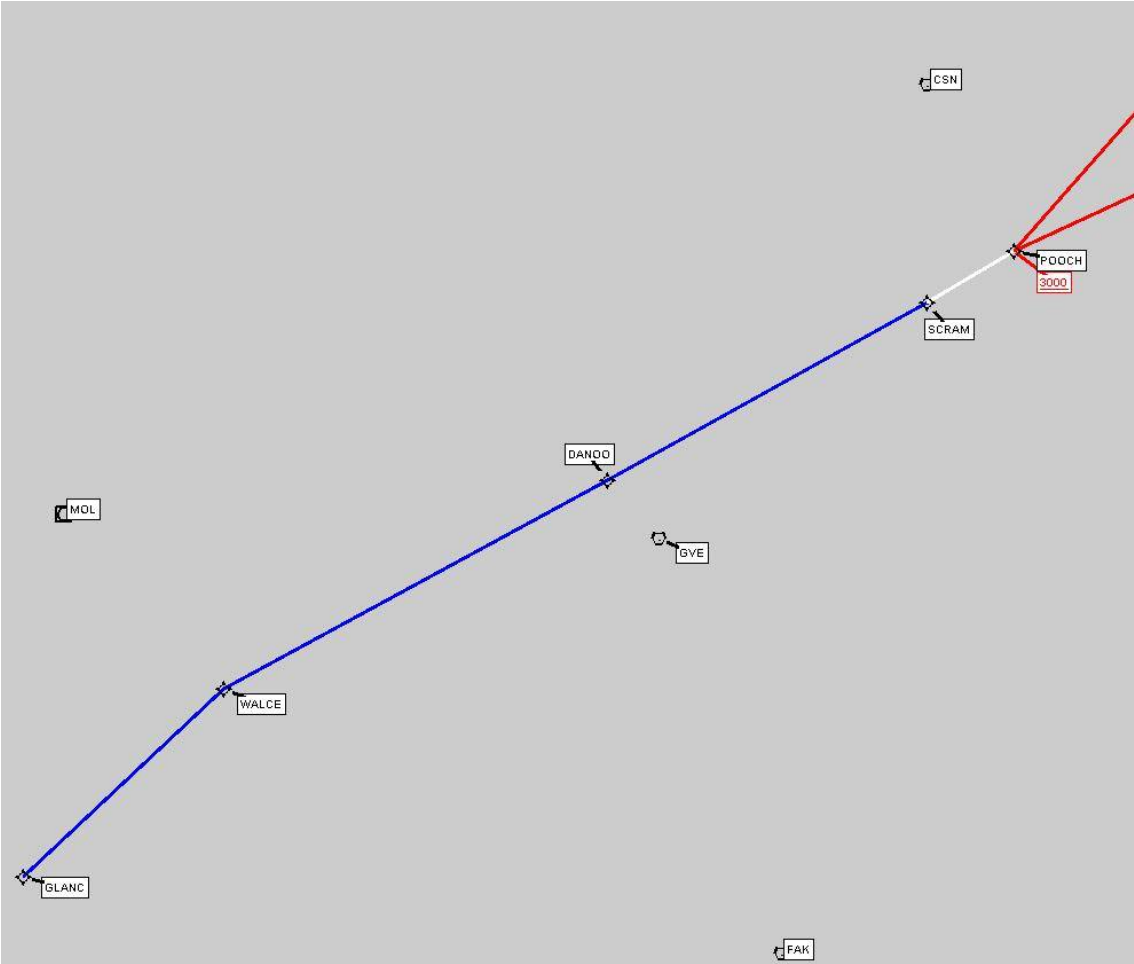
DME DME Assessment Results for SCRAM6 path KDCA:RW19:DER\_CAPVC

Graphic Depiction 3

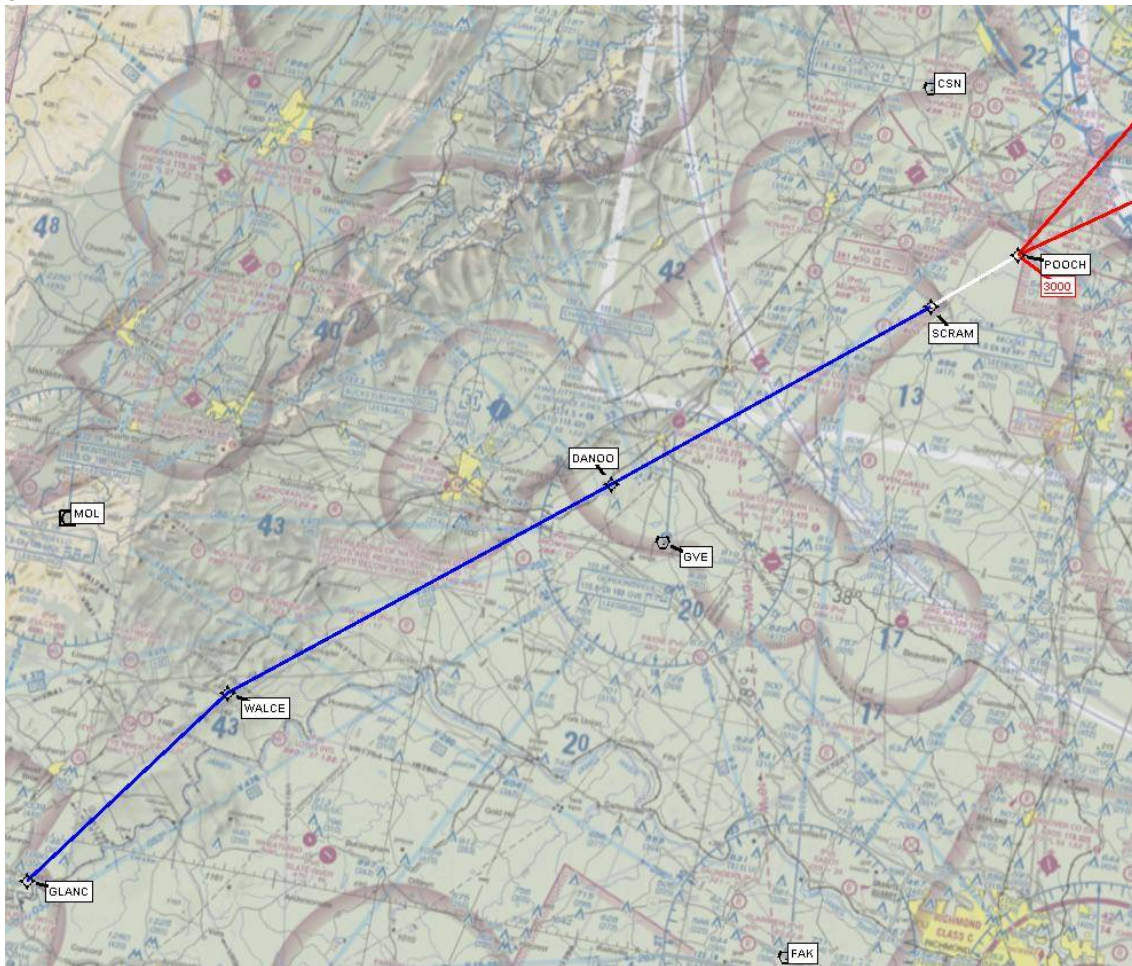


DME DME Assessment Results for SCRAM6 path KDCA:RW19:DER\_CAPVC

Graphic Depiction 4

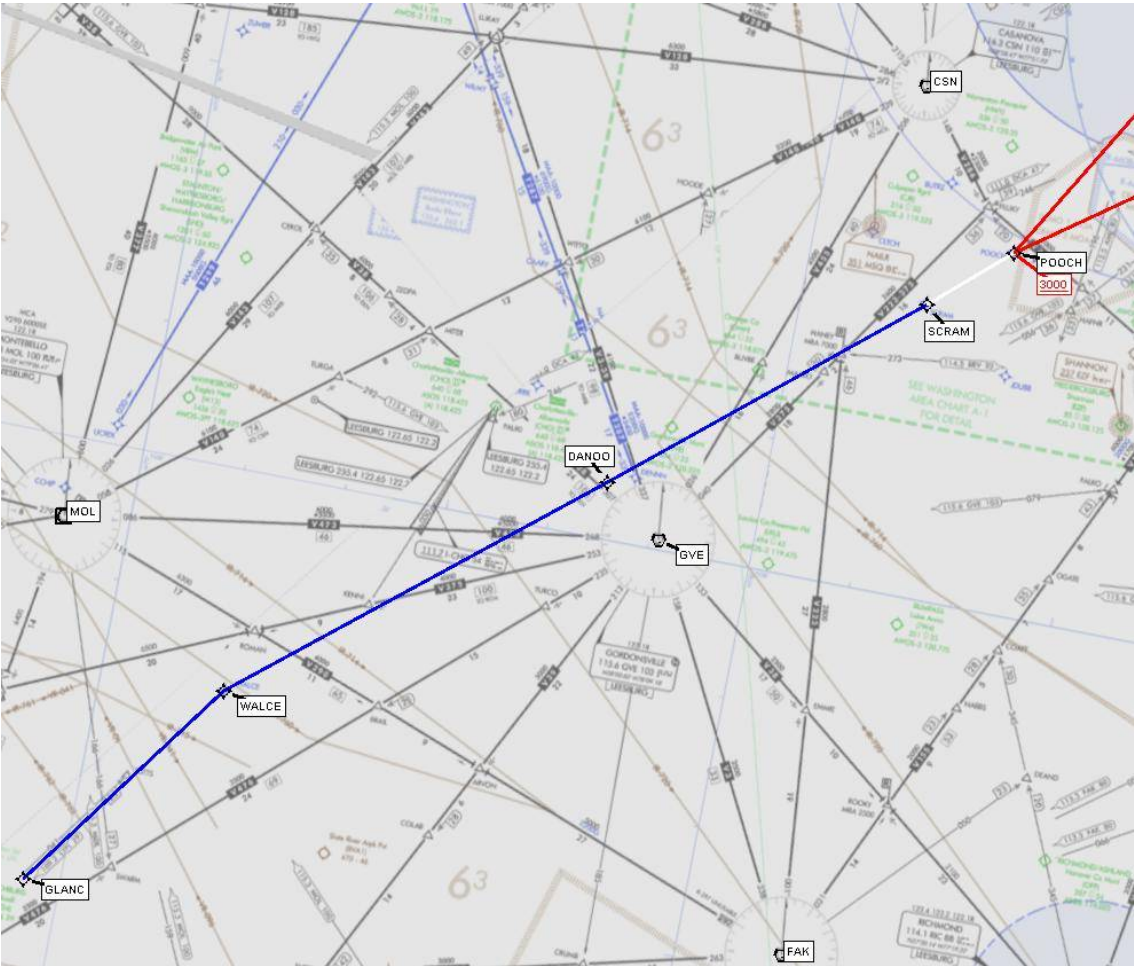


### Graphic Depiction 5



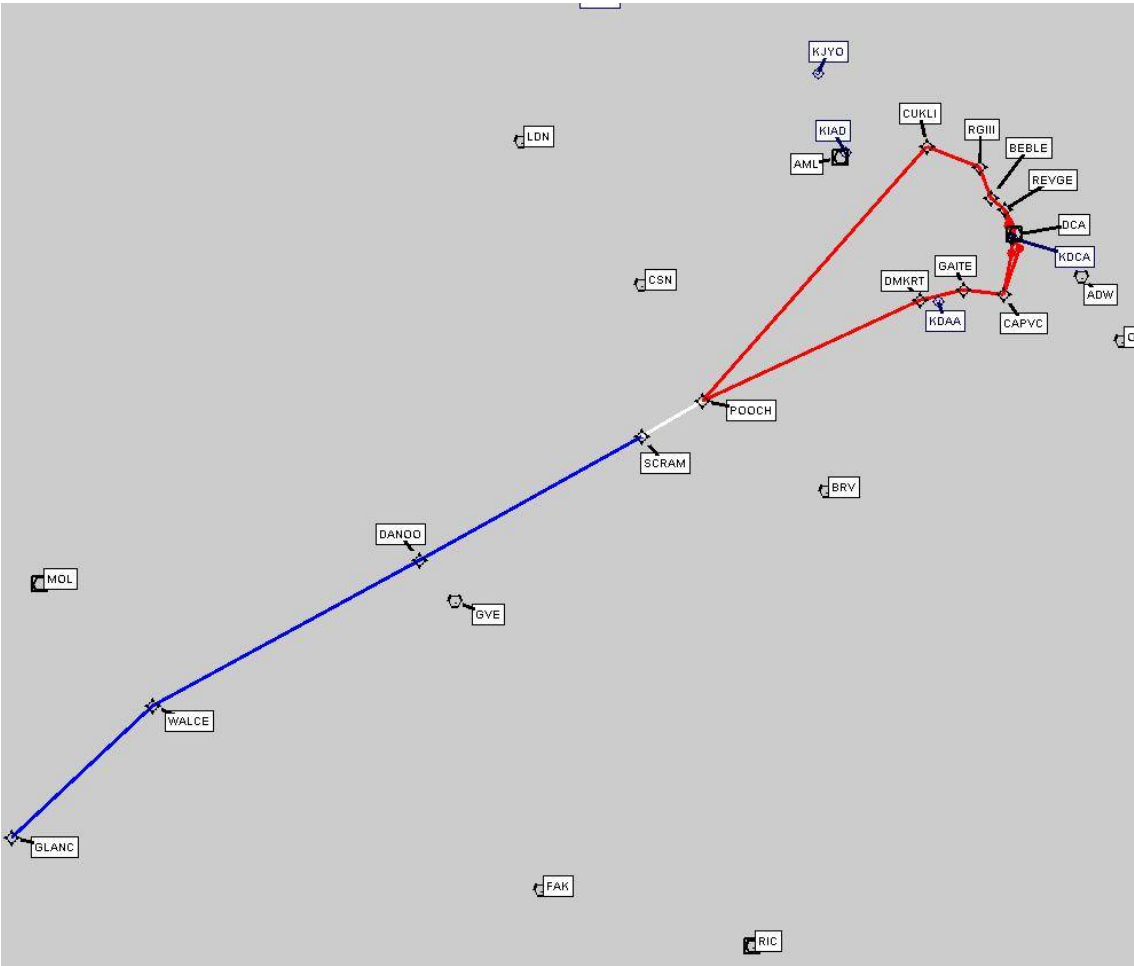
DME DME Assessment Results for SCRAM6 path KDCA:RW19:DER\_CAPVC

Graphic Depiction 6



DME DME Assessment Results for SCRAM6 path KDCA:RW19:DER\_CAPVC

Graphic Depiction 7



## DME DME Assessment Results for SCRAM6 path KDCA:RW33:DER\_REVGE

### Results Summary

|                            |                                                                                                                                                                                                             |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Flyability:                | Completed                                                                                                                                                                                                   |
| DME/DME:                   | Completed - No Critical DMEs                                                                                                                                                                                |
| Name:                      | Robert CTR Mason                                                                                                                                                                                            |
| Project File:              | C:\Users\Robert CTR Mason\Desktop\DCA SID AMENDMENTS with REVGE\DCA - SCRAM\SCRAM.tgs                                                                                                                       |
| Output File:               | C:\Users\Robert CTR Mason\Desktop\DCA SID AMENDMENTS with REVGE\DCA - SCRAM\SCRAM6 - DME\KDAA [IFPA] SCRAM6 20191113_1423 EST\KDCA-RW33-<br>DER_REVGE\KDAA SCRAM6 SID KDCA RW33 REVGE 20191113_1423 EST.pdf |
| Procedure Name:            | SCRAM6                                                                                                                                                                                                      |
| Software:<br>DmeDmePlugin: | 6.0.0                                                                                                                                                                                                       |
| Date/Time:                 | 11/13/2019 14:23 EST                                                                                                                                                                                        |
| Databases:                 | DTED.MAX                                                                                                                                                                                                    |

### Failures

No Failures

### Warnings

No Warnings

### Notes For Flight Check

None

### Flight Plan

| Name                                                             | Type | Lat/Lon                                                  | Altitude (ft) | VNAV Mode | Ground Speed (kts) | Turn Type | Leg Type |
|------------------------------------------------------------------|------|----------------------------------------------------------|---------------|-----------|--------------------|-----------|----------|
| KDCA:RW33:DER                                                    | WP   | N38° 51'<br>40.181200000",<br>W077° 02'<br>35.869100000" | 14            | VNAV      | 130                | FLY_OVER  | TF       |
| REVGE                                                            | WP   | N38° 53'<br>59.460000000",<br>W077° 04'<br>14.240000000" | 1500          | VNAV      | 220                | FLY_BY    | TF       |
| Climb Gradient:<br>540.0 ft/NM up to 640.0 ft MSL<br>200.0 ft/NM |      |                                                          |               |           |                    |           |          |

### Flyability

|                        |                                               |
|------------------------|-----------------------------------------------|
| Flight Type:           | SID                                           |
| Selected Airport:      | KDAA [IFPA]                                   |
| Climb Gradient:        | 540.0 ft/NM up to 640.0 ft MSL<br>200.0 ft/NM |
| Speeds:                | 130 at the Runway DER                         |
|                        | 145 at the end of the VA or VI leg            |
|                        | 200 Ground Speed to 11000 FT                  |
|                        | 240 Ground Speed to 18000 FT                  |
|                        | 260 Ground Speed to 24000 FT                  |
|                        | 340 Ground Speed above 24000 FT               |
| Descent During a Turn: | Allowed                                       |
| VNAV Mode:             | Flight Plan                                   |

## DME DME Assessment Results for SCRAM6 path KDCA:RW33:DER\_REVGE

| DME/DME                           |                      |
|-----------------------------------|----------------------|
| RNP:                              | RNP 2                |
| Flight Mode:                      | Manual               |
| Line of Sight (DTED Level 0 Max): | Evaluated            |
| Inertial Drift:                   | Enabled              |
| Initial Drift:                    | 0.558 NM             |
| INS Drift Rate:                   | 8.0 NM/Hour          |
| Range Mode:                       | OSV                  |
| RNP Edges:                        | Evaluated            |
| Min DME Range:                    | 3.0 NM               |
| DME Types:                        | DME, VOR-DME, VORTAC |
| DME Include Angles:               | 30 to 150            |
| Critical DMEs:                    | Allowed              |
| DoD Facilities:                   | Not included         |
| Foreign Facilities:               | Not included         |
| High DMEs:                        | Included             |
| Low DMEs:                         | Included             |
| Terminal DMEs:                    | Included             |
| Flight Check DMEs:                | Not selected         |
| Higher Altitudes:                 | Not Evaluated        |
| Near Maximum Altitude:            | Not Evaluated        |
| Automatic ESVs:                   | Not enabled          |
| Disabled DMEs:                    | None                 |

| DME/DME (Continued) |      |                                                 |        |       |      |        |          |         |      |          |
|---------------------|------|-------------------------------------------------|--------|-------|------|--------|----------|---------|------|----------|
| DMEs Used           |      |                                                 |        |       |      |        |          |         |      |          |
| #                   | Name | Lat/Lon                                         | MAGVAR | Range | Type | Source | Critical | Status  | Time | Distance |
| 1                   | BAL  | N39° 10' 15.828300000", W076° 39' 40.522500000" | 11.0 W | 40    | L    | IFPA   | NO       | Enabled | 5 %  | 6.1 %    |
| 2                   | ADW  | N38° 48' 25.990000000", W076° 51' 58.520000000" | 10.0 W | 40    | L    | IFPA   | NO       | Enabled | 5 %  | 6.1 %    |

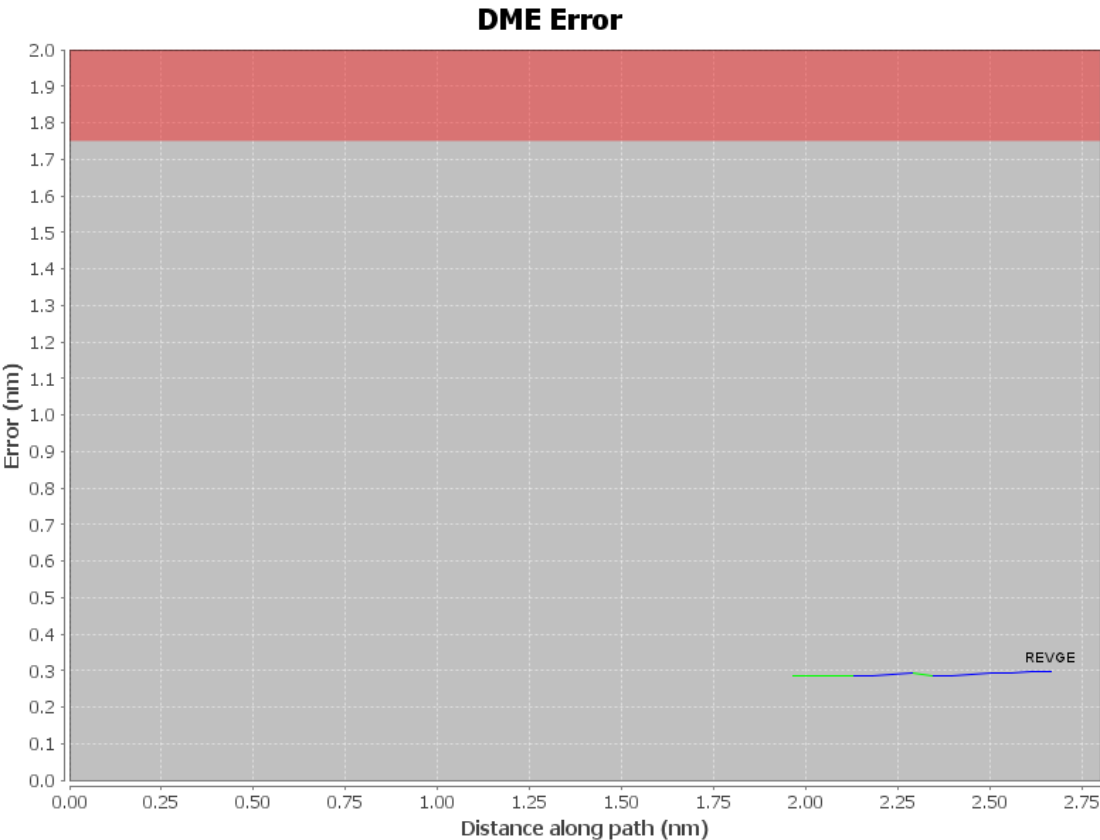
| Flight Check DME Selection |               |     |  |  |  |           |
|----------------------------|---------------|-----|--|--|--|-----------|
| Distance [NM]              | Selected DMEs |     |  |  |  | Alternate |
| 0.0                        |               |     |  |  |  |           |
| 2.0                        | BAL           | ADW |  |  |  |           |
| 2.2                        |               |     |  |  |  |           |
| 2.3                        | BAL           | ADW |  |  |  |           |
| 2.4                        |               |     |  |  |  |           |

| Inertial Drift Segments |                                                 |                                                 |             |
|-------------------------|-------------------------------------------------|-------------------------------------------------|-------------|
| #                       | Start Location                                  | End Location                                    | Length [NM] |
| 1                       | N38° 51' 41.884587399", W077° 02' 37.532417743" | N38° 53' 21.235470779", W077° 03' 52.055650586" | 1.9297      |
| 2                       | N38° 53' 32.996996501", W077° 03' 58.880900652" | N38° 53' 41.818063733", W077° 04' 04.000248593" | 0.1613      |

| Available DMEs by Waypoints |                |          |
|-----------------------------|----------------|----------|
| Waypoint Before             | Waypoint After | DME List |
| KDCA:RW33:DER               | REVGE          | ADW, BAL |

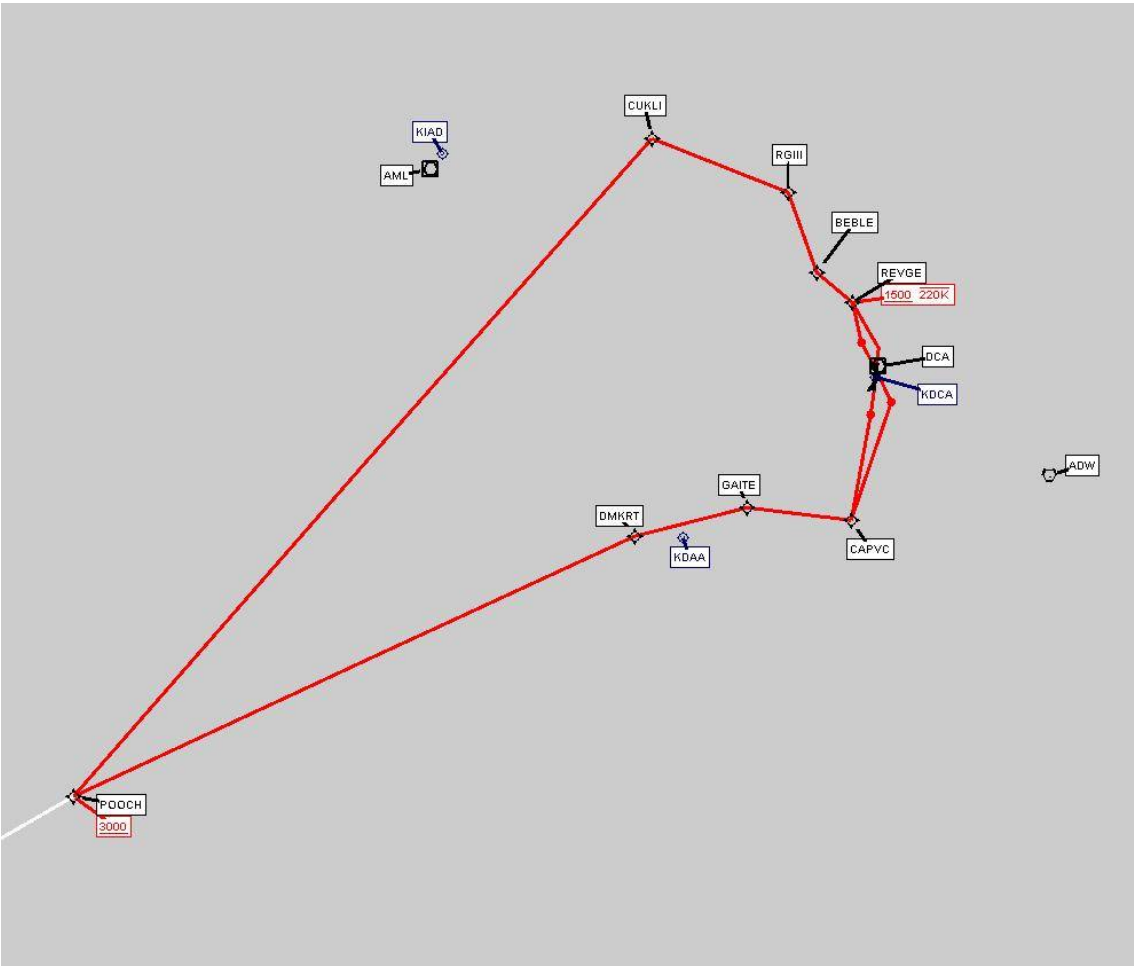
# DME DME Assessment Results for SCRAM6 path KDCA:RW33:DER\_REVGE

| User Data Files |                                 |                                                                     |        |       |                |                                                                |                   |        |
|-----------------|---------------------------------|---------------------------------------------------------------------|--------|-------|----------------|----------------------------------------------------------------|-------------------|--------|
| #               | File Name                       |                                                                     |        |       |                |                                                                |                   |        |
| None            |                                 |                                                                     |        |       |                |                                                                |                   |        |
| User DMEs       |                                 |                                                                     |        |       |                |                                                                |                   |        |
| #               | Name                            | Lat/Lon                                                             | MAGVAR | Range | Elevation [ft] | Frequency                                                      | Replaces          | Status |
| 1               | AML FAA 732650-41<br>AML [IFPA] | N38° 56'<br>04.538000000",<br>W077° 28'<br>00.128500000"            | 8.0 W  | 40    | 298.6          | 113.5                                                          | AML FAA 732650-41 |        |
| ESV:            |                                 | Bearing [True]: 172.0° to 242.0°<br>Bearing [Mag]: 180.0° to 250.0° |        |       |                | Arc Distance: Out to 65.0 NM<br>Altitude: 5000.0 to 20000.0 ft |                   |        |
| 2               | RIC FAA 704161-24<br>RIC [IFPA] | N37° 30'<br>08.452100000",<br>W077° 19'<br>12.994400000"            | 9.0 W  | 130   | 167.3          | 114.1                                                          | RIC FAA 704161-24 |        |
| ESV:            |                                 | Bearing [True]: 290.0° to 339.0°<br>Bearing [Mag]: 299.0° to 348.0° |        |       |                | Arc Distance: Out to 65.0 NM<br>Altitude: 6500.0 to 16000.0 ft |                   |        |
| 3               | FAK FAA 698146-14<br>FAK [IFPA] | N37° 31'<br>42.634000000",<br>W077° 49'<br>41.589000000"            | 6.0 W  | 130   | 460            | 113.3                                                          | FAK FAA 698146-14 |        |
| ESV:            |                                 | Bearing [True]: 309.0° to 3.0°<br>Bearing [Mag]: 315.0° to 9.0°     |        |       |                | Arc Distance: Out to 86.0 NM<br>Altitude: 5000.0 to 16000.0 ft |                   |        |
| 4               | CSN FAA 682017-12<br>CSN [IFPA] | N38° 38'<br>28.327700000",<br>W077° 51'<br>55.797900000"            | 6.0 W  | 130   | 441.8          | 116.3                                                          | CSN FAA 682017-12 |        |
| ESV:            |                                 | Bearing [True]: 183.0° to 215.0°<br>Bearing [Mag]: 189.0° to 221.0° |        |       |                | Arc Distance: Out to 96.0 NM<br>Altitude: 7500.0 to 16000.0 ft |                   |        |
| 5               | CSN FAA 682017-14<br>CSN [IFPA] | N38° 38'<br>28.327700000",<br>W077° 51'<br>55.797900000"            | 6.0 W  | 130   | 441.8          | 116.3                                                          | CSN FAA 682017-14 |        |
| ESV:            |                                 | Bearing [True]: 148.0° to 205.0°<br>Bearing [Mag]: 154.0° to 211.0° |        |       |                | Arc Distance: Out to 92.0 NM<br>Altitude: 7500.0 to 16000.0 ft |                   |        |
| 6               | RIC FAA 704161-21<br>RIC [IFPA] | N37° 30'<br>08.452100000",<br>W077° 19'<br>12.994400000"            | 9.0 W  | 130   | 167.3          | 114.1                                                          | RIC FAA 704161-21 |        |
| ESV:            |                                 | Bearing [True]: 285.0° to 9.0°<br>Bearing [Mag]: 294.0° to 18.0°    |        |       |                | Arc Distance: Out to 65.0 NM<br>Altitude: 5000.0 to 16000.0 ft |                   |        |

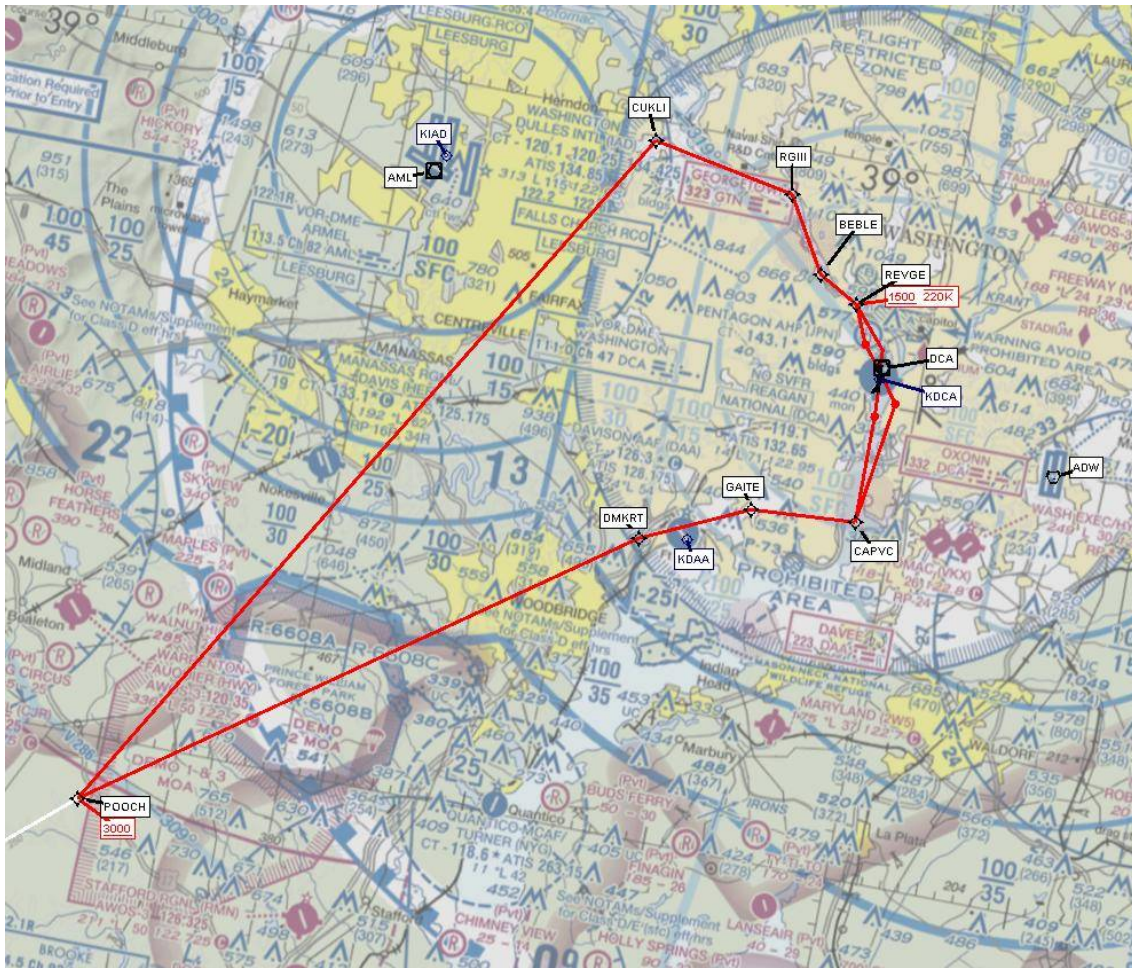


DME DME Assessment Results for SCRAM6 path KDCA:RW33:DER\_REVGE

Graphic Depiction 1

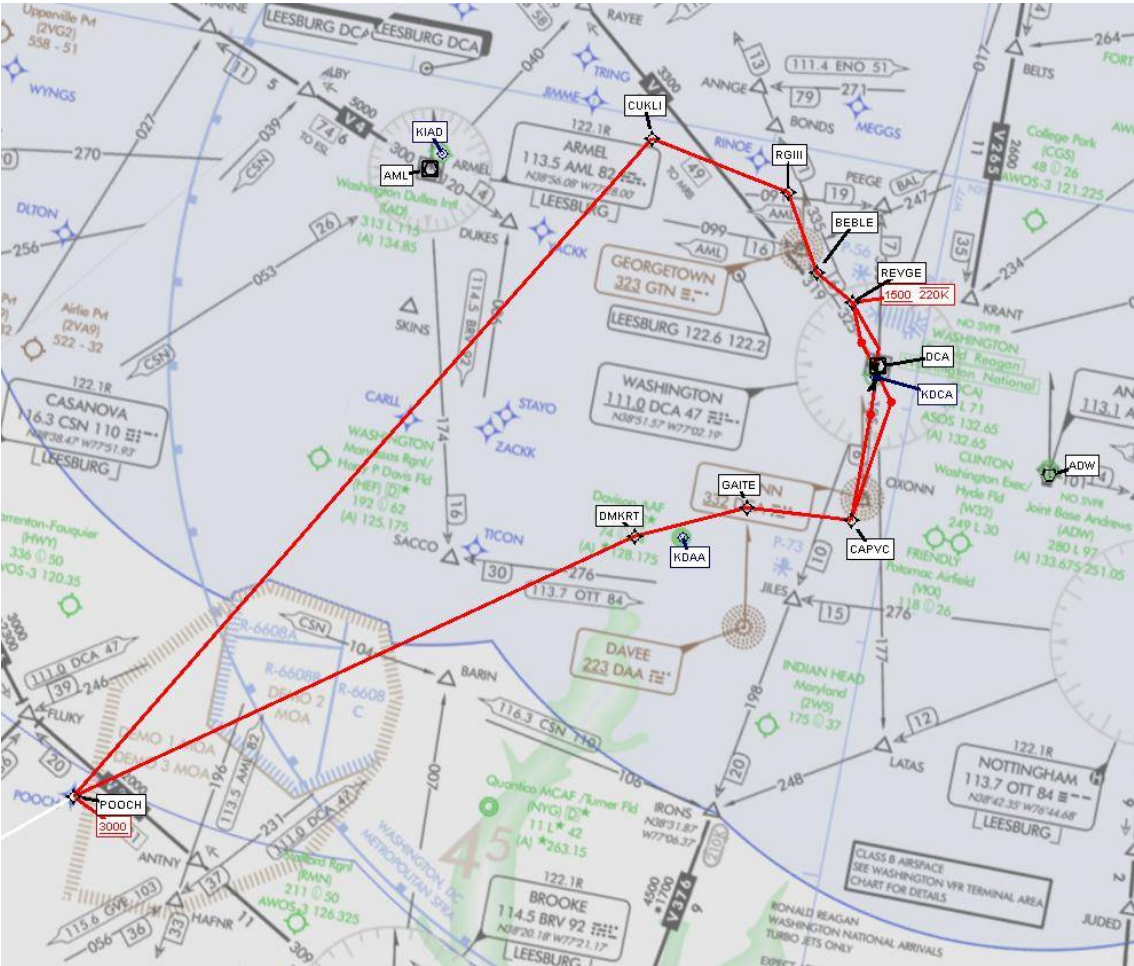


### Graphic Depiction 2



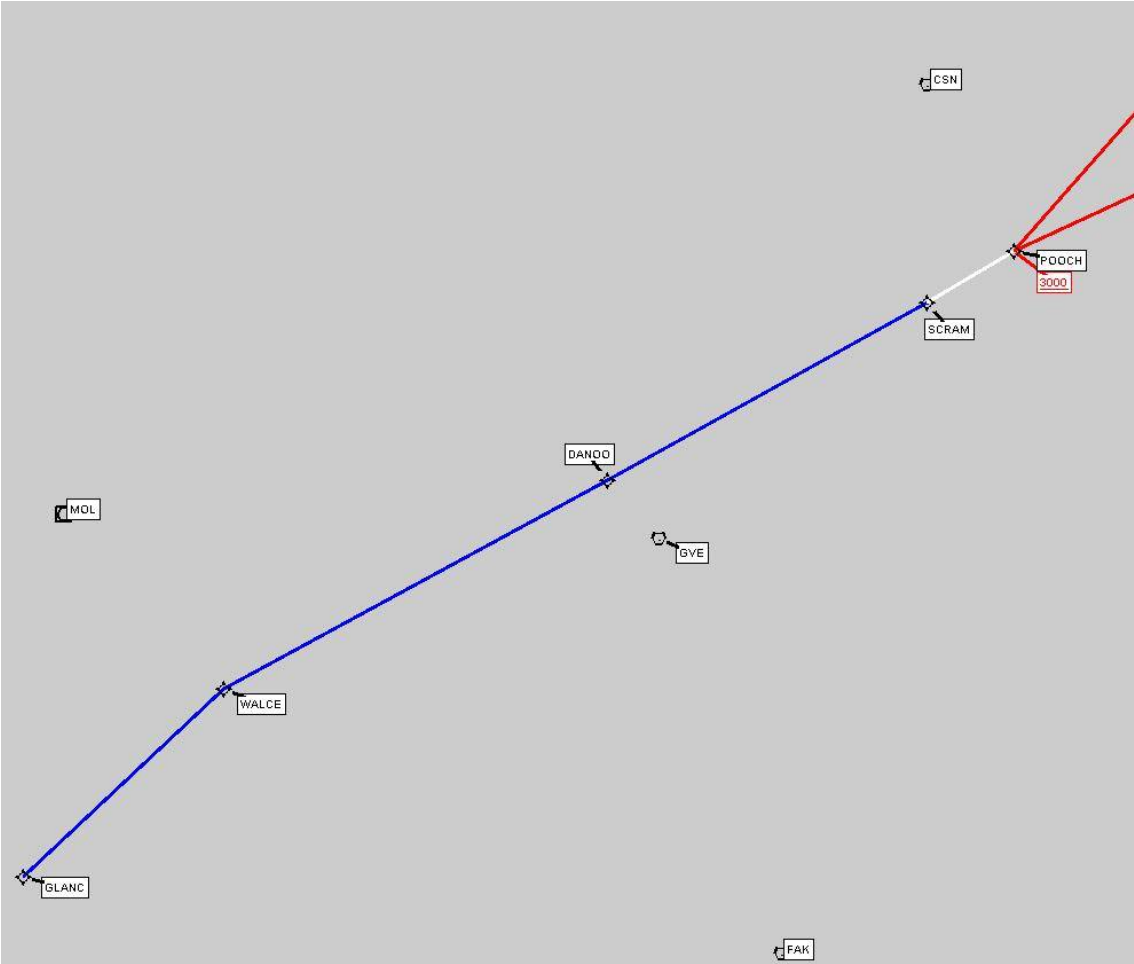
DME DME Assessment Results for SCRAM6 path KDCA:RW33:DER\_REVGE

Graphic Depiction 3



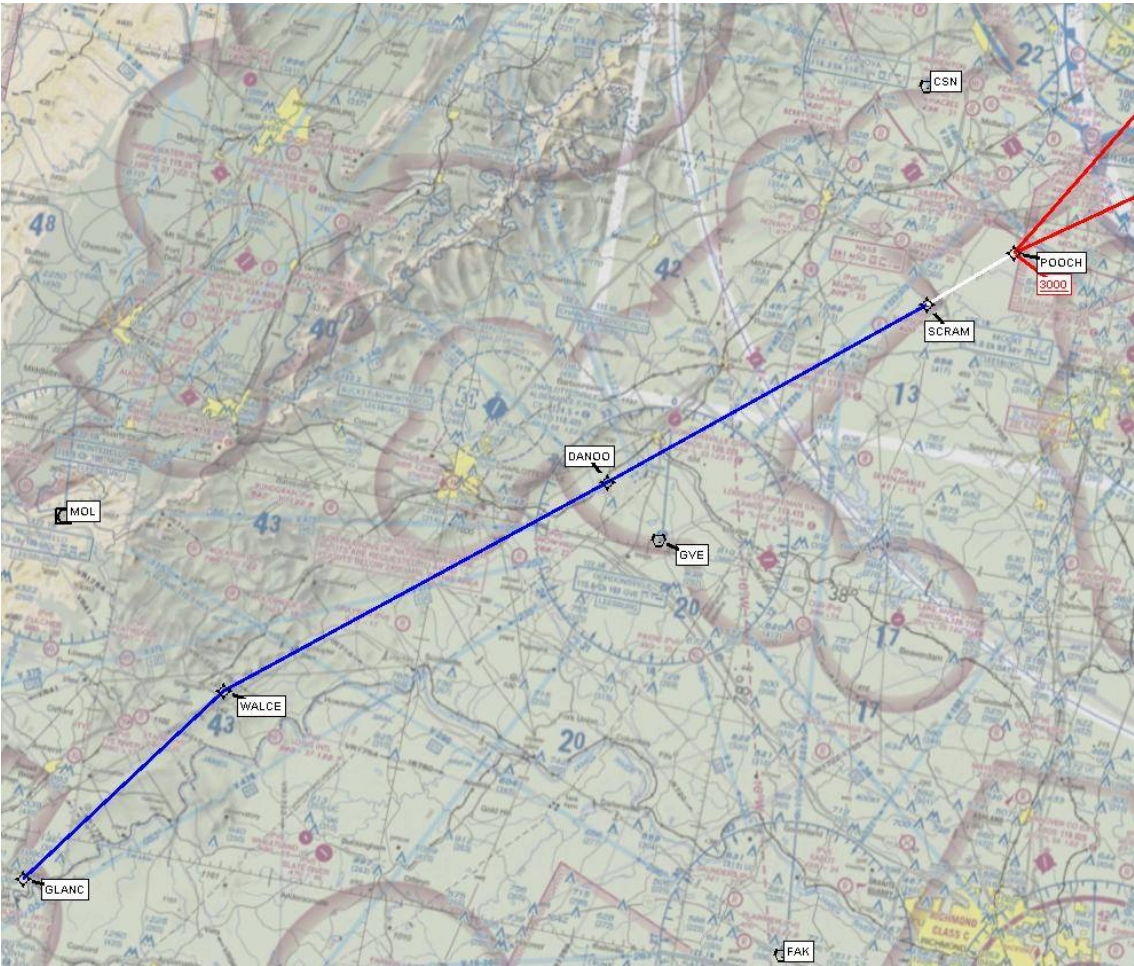
DME DME Assessment Results for SCRAM6 path KDCA:RW33:DER\_REVGE

Graphic Depiction 4



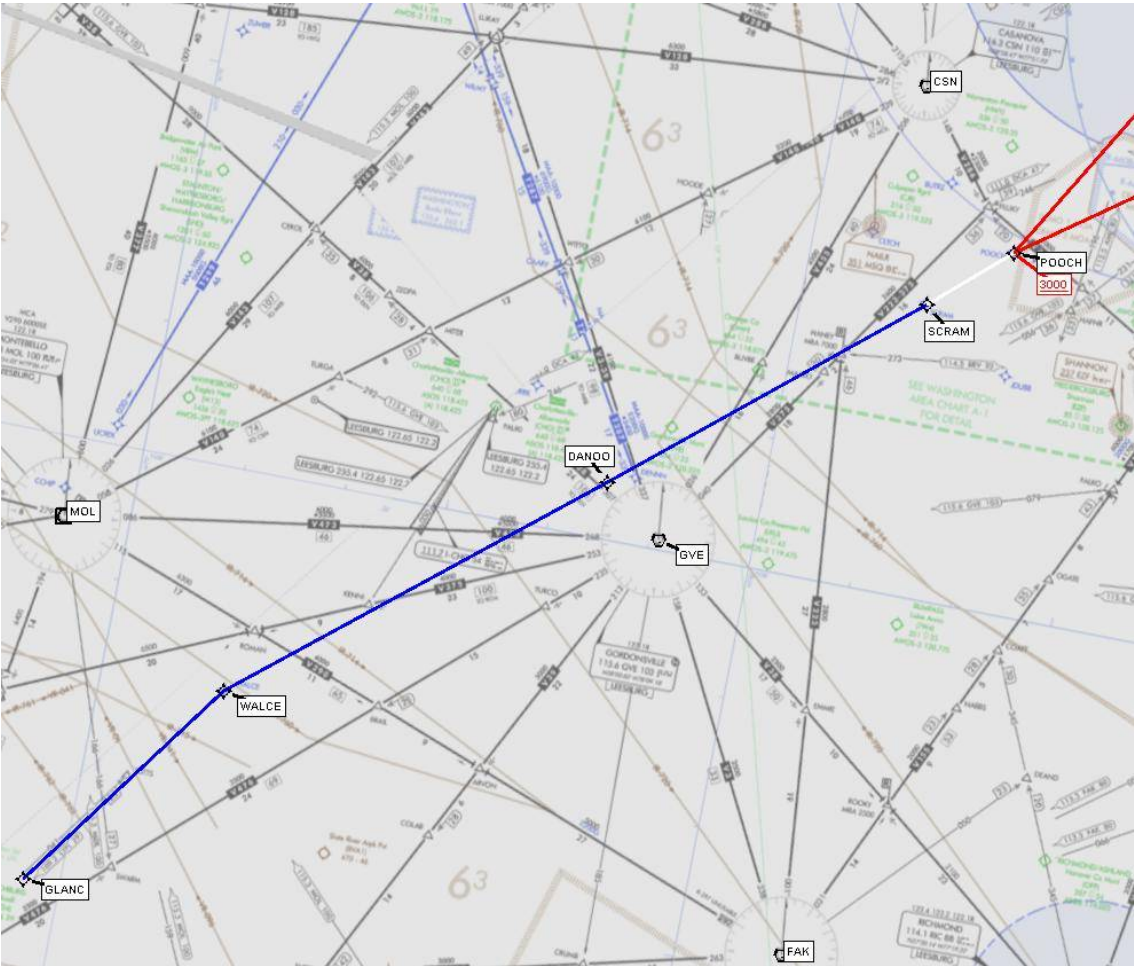
DME DME Assessment Results for SCRAM6 path KDCA:RW33:DER\_REVGE

Graphic Depiction 5



DME DME Assessment Results for SCRAM6 path KDCA:RW33:DER\_REVGE

Graphic Depiction 6



DME DME Assessment Results for SCRAM6 path KDCA:RW33:DER\_REVGE

Graphic Depiction 7

