**ARINC 424 NDB**

**Draft 1 of Supplement 23**

**Discussion/Proposal**

**Location Renton, Washington**

**July 9-11, 2019**

ADS-B Airway constraints

**V.0**

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| **SUMMARY** |
| NGA is receiving host data referencing ADS-B Airway constraints that indicate ADS-B out required on certain airways above FL290. Suggest adding a Route Qual 2 of ‘A’ for ADS-B required above FL290 |

1. **INTRODUCTION/ BACK GROUND**

NGA is receiving source from numerous countries that are publishing ADS-B restrictions on certain airways. A year ago is was just one or two countries, but we are now seeing it in many more.

1. **DISCUSSION and or ACTION**

Please see the attached .ppt below for examples from host source.



We are suggesting adding a Route Qual 2 for ADS-B required on airways.

1. **Changes as depicted (Track Changes is Helpful)**

**Updated version:**

**Table 5-3 – Route Qualifier Content**

|  |  |  |  |
| --- | --- | --- | --- |
| **Qualifier Description** | **Qualifier 1 Field Content** | **Qualifier 2 Field Content** | **Qualifier 3 Field Content** |
| **GNSS Required** | **G** |  |  |
| **GNSS or DME/DME/IRU Required** | **F** |  |  |
| **GNSS, DME/DME/IRU or DME/DME Required** | **A** |  |  |
| **Equipment requirements unspecified** | **U** |  |  |
| **ADS-B Required above FL290** |  | A |  |
| **FRT Required** |  | **R** |  |
| **Parallel Offset Required** |  | **P** |  |
| **TOAC Required** |  | **T** |  |
| **RNAV 10 PBN Nav Spec** |  |  | **W** |
| **RNAV 5 PBN Nav Spec** |  |  | **Z** |
| **RNAV 2 PBN Nav Spec** |  |  | **Y** |
| **RNAV 1 PBN Nav Spec** |  |  | **X** |
| **B RNAV** |  |  | **B** |
| **P RNAV** |  |  | **P** |
| **RNP 4 PBN Nav Spec** |  |  | **C** |
| **RNP 2 PBN Nav Spec** |  |  | **D** |
| **RNP 1 PBN Nav Spec** |  |  | **E** |
| **A-RNP (Advanced RNP) PBN Nav Spec** |  |  | **A** |
| **RNP 0.3 PBN Nav Spec** |  |  | **G** |
| **PBN Nav Spec unspecified** |  |  | **U** |
| **VOR/DME RNAV** |  |  | **V** |
| **Non RNAV/RNP segment in a RNAV/RNP airway** |  |  | **N (Note 1)** |

**Note 1: The N will be coded if an airway is coded with Route Type R but includes non PBN segments. In these cases, Qualifier 1 and 2 will be blank.**