1. **Test Dataset: AA500006**

**S‐58 Recommended ENC Validation Checks covered in this section:**

|  |  |
| --- | --- |
| **S‐58 Check** | **Description** |
| 36a | For each feature or vector update record which is DELETE AND contains further fields. |
| 36b | For each feature or vector update record which is MODIFY OR INSERT and contains no further fields. |

**Secondary Errors**

Critical – 12, 20b, 26a, 29, 540a, 24, 1010

1016, 1017,

Error – 28

Warnings – 571

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Dataset Name** | AA500006.001 | | | | **S‐58 Check** | | 36a | | | **Type** | | C |
| **S-58 Description** | For each feature or vector update record which is DELETE AND contains further fields. | | | | | | | | | | | |
| **Message** | DELETE update contains additional fields. | | | | | | | | | | | |
| **Solution** | Remove additional fields from update record. | | | | | | **Conformity** | | Part 3 (8.4.2.2) and (8.4.3.2) | | | |
| **Test Case No. 1** | VRID containing RUIN set to 2(delete) is followed by subsequent SGCC and SG2D records. | | | | | | | | | | | |
| **Location** | | **Feature** | | **Attributes** | | **FRID** | | **FOID** | | | **VRID** | |
| - | | - | | - | | - | | - | | | VE-30 | |
| **Screen Capture** |  | | | | | | | | | | | |
| **Expected Test Results** | 36a: An error “DELETE update contains additional fields” must be triggered. | | | | | | | | | | | |
| **Secondary Critical Errors** | None | | | | | | | | | | | |
| **Test Case No. 2** | FRID containing RUIN set to 2(delete) is followed by subsequent FOID and ATTF records | | | | | | | | | | | |
| **Location** | | **Feature** | **Attributes** | | | **FRID** | | **FOID** | | | **VRID** | |
| 32°29'47.43"S 60°59'11.25"E | | SLCONS | CATSLC=4; WATELC=3 | | | FE-48 | | AA 0606243655 00060 | | | - | |
| **Screen Capture** |  | | | | | | | | | | | |
| **Expected Test Results** | 36a: An error “DELETE update contains additional fields” must be triggered. | | | | | | | | | | | |
| **Secondary Critical Errors** | 20b: Orphaned geometry. | | | | | | | | | | | |
|  | | | | | | | | | | | | |
| **Dataset Name** | AA500006.002 | | | | **S‐58 Check** | | 36b | | | **Type** | | C |
| **S-58 Description** | For each feature or vector update record which is MODIFY OR INSERT and contains no further fields. | | | | | | | | | | | |
| **Message** | MODIFY or INSERT update does not contain additional fields. | | | | | | | | | | | |
| **Solution** | Add additional fields to update record. | | | | | | **Conformity** | | Part 3 (8.4.2.2) and (8.4.3.2) | | | |
| **Test Case No. 1** | VRID containing RUIN set to 1(insert) is not followed by any subsequent records. | | | | | | | | | | | |
| **Location** | | **Feature** | | **Attributes** | | **FRID** | | **FOID** | | | **VRID** | |
| - | | - | | - | | - | | - | | | VI-100 | |
| **ASCII** |  | | | | | | | | | | | |
| **Expected Test Results** | 36b: An error “MODIFY or INSERT update does not contain additional fields” must be triggered. | | | | | | | | | | | |
| **Secondary Critical Errors** | 26a: Subfield value does not conform to S-57 format specification.  29: Invalid number of records/pointers in the SGCC-CCNC: 0 (1 expected) | | | | | | | | | | | |
| **Test Case No. 2** | VRID containing RUIN set to 3(modify) is not followed by any subsequent records. | | | | | | | | | | | |
| **Location** | | **Feature** | | **Attributes** | | **FRID** | | **FOID** | | | **VRID** | |
| - | | - | | - | | - | | - | | | VI-31 | |
| **ASCII** |  | | | | | | | | | | | |
| **Expected Test Results** | 36b: An error “MODIFY or INSERT update does not contain additional fields” must be triggered. | | | | | | | | | | | |
| **Secondary Critical Errors** | None | | | | | | | | | | | |
| **Test Case No. 3** | FRID containing RUIN set to 1(insert) is **not** followed by any subsequent records. | | | | | | | | | | | |
| **Location** | | **Feature** | | **Attributes** | | **FRID** | | **FOID** | | | **VRID** | |
| - | | - | | - | | FE-100 | | - | | | - | |
| **Screen Capture** |  | | | | | | | | | | | |
| **Expected Test Results** | 36b: An error “MODIFY or INSERT update does not contain additional fields” must be triggered. | | | | | | | | | | | |
| **Secondary Critical Errors** | 12: Feature object without geometry  24: SOUNDG does not reference a SG3D field. 40a: Mandatory records, fields or subfields are not used. | | | | | | | | | | | |
| **Test Case No. 4** | FRID containing RUIN set to 3(modify) is **not** followed by any subsequent records. | | | | | | | | | | | |
| **Location** | | **Feature** | | **Attributes** | | **FRID** | | **FOID** | | | **VRID** | |
| - | | - | | - | | FE-57 | | - | | |  | |
| **Screen Capture** |  | | | | | | | | | | | |
| **Expected Test Results** | 36b: An error “MODIFY or INSERT update does not contain additional fields” must be triggered. | | | | | | | | | | | |
| **Secondary Critical Errors** | 540a: Mandatory records, fields or subfields are not used.  1010: FOID for the modified object is not identical in the EN (base) and ER (update) files. | | | | | | | | | | | |