1. **Test Dataset: AA400011**

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

|  |  |
| --- | --- |
| **S‐58 Check** | **Description** |
| 8 | For each feature object where an attribute code is repeated. |
| 1008 | For each ER (update) file where an AGEN subfield value of the DSID field or FOID field is not identical to the AGEN subfield values in the EN (base) file. |
| 1010 | For each FRID field in an ER (update) file where RUIN is Equal to 3 (modify) AND the FOID for the modified object is not identical in the EN (base) and ER (update) files. |

**Secondary Errors**

Critical – 33, 507

Error –

Warnings –

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Dataset Name** | AA400011 | | | **S‐58 Check** | | 8 | | | **Type** | | C |
| **S-58 Description** | For each feature object where an attribute code is repeated. | | | | | | | | | | |
| **Message** | Duplicate attribute code on an object. | | | | | | | | | | |
| **Solution** | Remove or amend duplicate attribute code. | | | | | **Conformity** | | Part 3 (4.4), (4.5) and (5.1.2) | | | |
| **Test Case No. 1** | LNDMRK (P) feature has been created with duplicate attribute code. | | | | | | | | | | |
| **Location** | | **Feature** | **Attributes** | | **FRID** | | **FOID** | | | **VRID** | |
| 32°30'20.86"S 60°52'54.34"E | | LNDMRK (P) | CATLMK=17; CATLMK=2 | | FE-116 | | AA 0000000157 00001 | | | VI-09 | |
| **Screen Capture/ASCII** |  | | | | | | | | | | |
| **Expected Test Results** | 8: An error “Duplicate attribute code on an object” must be triggered. | | | | | | | | | | |
| **Secondary Critical Errors** | None | | | | | | | | | | |
|  | | | | | | | | | | | |
| **Dataset Name** | AA400011 | | | **S‐58 Check** | | 1008 | | | **Type** | | C |
| **S-58 Description** | For each ER (update) file where an AGEN subfield value of the DSID field or FOID field is not identical to the AGEN subfield values in the EN (base) file. | | | | | | | | | | |
| **Message** | AGEN subfield values do not agree between ER (update) and EN (base) files. | | | | | | | | | | |
| **Solution** | Amend AGEN subfield values to agree. | | | | | **Conformity** | | Part 3 (4.3.1) and  (7.3.1.1) | | | |
| **Test Case No. 1** | Different DSID.AGEN in update file | | | | | | | | | | |
| **ASCII** | AA400011.000    AA400011.001 | | | | | | | | | | |
| **Expected Test Results** | 1008: Error “AGEN subfield values do not agree between ER (update) and EN (base) files” must be triggered. | | | | | | | | | | |
| **Secondary Critical Errors** | None | | | | | | | | | | |
| **Test Case No. 2** | RIVERS (L) feature has been created with AGEN subfield values do not agree between ER (update) and EN (base) files. | | | | | | | | | | |
| **Location** | | **Feature** | **Attributes** | | **FRID** | | **FOID** | | | **VRID** | |
| 32°31'27.78"S 60°53'18.06"E | | RIVERS (L) | STATUS=8 | | FE-99 | |  | | |  | |
| **Screen Capture** |  | | | | | | | | | | |
| **Expected Test Results** | 1008: Error “AGEN subfield values do not agree between ER (update) and EN (base) files” must be triggered. | | | | | | | | | | |
| **Secondary Critical Errors** | 1010: Additional error “FOID for the modified object is not identical in the EN (base) and ER (update) files”.  33: Additional error “Attribute update does not refer to valid record NAME and attribute label/code”. | | | | | | | | | | |
|  | | | | | | | | | | | |
| **Dataset Name** | AA400011 | | | **S‐58 Check** | | 1010 | | | **Type** | | C |
| **S-58 Description** | For each FRID field in an ER (update) file where RUIN is Equal to 3 (modify) AND the FOID for the  modified object is not identical in the EN (base) and ER (update) files. | | | | | | | | | | |
| **Message** | FOID for the modified object is not identical in the EN (base) and ER (update) files. | | | | | | | | | | |
| **Solution** | Amend FOIDs to be identical or make separate insert and  delete updates. | | | | | **Conformity** | | Part 3 (8.4.2) | | | |
| **Test Case No. 1** | LNDMRK (P) with FOID for the modified object is not identical in the EN (base) and ER (update) files. | | | | | | | | | | |
| **Location** | | **Feature** | **Attributes** | | **FRID** | | **FOID** | | | **VRID** | |
| 32°33'02.42"S 60°54'10.55"E | | LNDMRK (P) | CATLMK=17; CONVIS=2; FUNCTN=39 | | FE-110 | | AA 0000000067 00001 (Base file) | | | VI-04 | |
| 32°33'02.42"S 60°54'10.55"E | | LNDMRK (P) | CONVIS=1 | | FE-110 | | AA 0000000067 00002 (Update file) | | | - | |
| **Screen Capture/ASCII** |  | | | | | | | | | | |
| **Expected Test Results** | 1010: An error “FOID for the modified object is not identical in the EN (base) and ER (update) files” must be triggered. | | | | | | | | | | |
| **Secondary Critical Errors** | None | | | | | | | | | | |