1. **Test Dataset: AA500007**

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

|  |  |
| --- | --- |
| **S‐58 Check** | **Description** |
| 29 | For each of the following: FFPC-NFPT, FSPC-NSPT, SGCC-CCNC, and VRPC-NVPT subfields where the value is Not equal to the number of records/pointers. |
| 32 | For each record update which does not refer to a valid record NAME. |
| 33 | For each attribute update which does not refer to a valid record NAME and attribute label/code. |

**Secondary Errors**

Critical – 13c; 15, 42, 519b

1016,

Error – 1, 57a, 57b,

Warnings – 40, 45a, 1722a

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Dataset Name** | AA500007 | | | | **S‐58 Check** | | | | 29 | | | **Type** | | C |
| **S-58 Description** | For each of the following: FFPC-NFPT, FSPC-NSPT, SGCC-CCNC, and VRPC-NVPT subfields where the value is Not equal to the number of records/pointers. | | | | | | | | | | | | | |
| **Message** | Invalid number of records/pointers in the following FFPC-NFPT, FSPC-NSPT, SGCC-CCNC or  VRPC-NVPT. | | | | | | | | | | | | | |
| **Solution** | Amend subfield to equal the number of records/pointers. | | | | | | | | **Conformity** | Part 3 (7.6.5)  (7.6.7), (7.7.1.5)  and (7.7.1.3) | | | | |
| **Test Case No. 1** | FFPC-NFPT has been set to “2” instead of “1” in update AA500007.001. | | | | | | | | | | | | | |
| **Location** | | **Feature** | **Attributes** | | | **FRID** | | **FOID** | | | **VRID** | | | |
| 32°31'14.10"S 61°11'40.74"E | | LNDMRK(P) | CATLMK=17; FUNCTN=33; CONVIS=1 | | | FE-45 | | AA 4163686173 00001 | | | VI-1006380089 | | | |
| **ASCII** |  | | | | | | | | | | | | | |
| **Expected Test Results** | 29: An error “Invalid number of records/pointers in the following FFPC-NFPT” must be triggered. | | | | | | | | | | | | | |
| **Secondary Critical Errors** | None | | | | | | | | | | | | | |
| **Test Case No. 2** | FSPC-NFPT has been set to “3” instead of “2” in update AA500007.001. | | | | | | | | | | | | | |
| **Location** | | **Feature** | **Attributes** | | | **FRID** | | **FOID** | | | **VRID** | | | |
| 32°31'00.59"S 61°02'00.86"E | | DEPARE | DRVAL1=-2; DRVAL2=0 | | | FE-02 | | AA 4163686173 00001 | | | VE-1006410151;  VE-1006410135 | | | |
| **ASCII** |  | | | | | | | | | | | | | |
| **Expected Test Results** | 29: An error “Invalid number of records/pointers in the following FSPC-NSPT” must be triggered. | | | | | | | | | | | | | |
| **Secondary Critical Errors** | 13c: Edges are not referenced sequentially  15: contour is not closed  519b: Skin of the earth (Group1) objects overlap | | | | | | | | | | | | | |
| **Secondary Errors** | 1: Partially duplicated edges. | | | | | | | | | | | | | |
| **Test Case No. 3** | VRPC-NVPT has been set to “2” instead of “1” in update AA500007.001. | | | | | | | | | | | | | |
| **Location** | | **Feature** | **Attributes** | | | **FRID** | | **FOID** | | | **VRID** | | | |
| 32°30'32.15"S 61°02'15.21"E | | COALNE (L) | - | | | FE-53 | | AA 2382700586 00009 | | | VE-26 | | | |
| **ASCII** |  | | | | | | | | | | | | | |
| **Expected Test Results** | 29: An error “Invalid number of records/pointers in the following VRPC-NVPT” must be triggered. | | | | | | | | | | | | | |
| **Secondary Critical Errors** | None | | | | | | | | | | | | | |
| **Test Case No. 4** | SGCC-CNCC has been set to “11” instead of “10” in update AA500007.001. | | | | | | | | | | | | | |
| **Location** | | **Feature** | **Attributes** | | | **FRID** | | **FOID** | | | **VRID** | | | |
| 32°30'32.15"S 61°02'15.21"E | | COALNE (L) | - | | | FE-53 | | AA 2382700586 00009 | | | VE-26 | | | |
| **Screen Capture** |  | | | | | | | | | | | | | |
| **Expected Test Results** | 29: An error “Invalid number of records/pointers in the following SGCC-CCNC” must be triggered. | | | | | | | | | | | | | |
| **Secondary Critical Errors** | 42: Group 1 coverage is not correct, a hole or an overlap exists. | | | | | | | | | | | | | |
| **Secondary Errors** | 57a: COALNE object not bounding LNDARE | | | | | | | | | | | | | |
| **Secondary Warning** | 40: Linear objects with the same class, attribute values which are connected and are not chained together  45a: Coincident linear objects of the same class. | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | |
| **Dataset Name** | AA500007 | | | | **S‐58 Check** | | | | 32 | | | **Type** | | C |
| **S-58 Description** | For each record update which does not refer to a valid record NAME. | | | | | | | | | | | | | |
| **Message** | Record update does not refer to a valid record NAME. | | | | | | | | | | | | | |
| **Solution** | Amend record update to refer to a valid record NAME. | | | | | | | | **Conformity** | Part 3 (8.3.2) | | | | |
| **Test Case No. 1** | The FRID.RCNM for ISO record <0001><22> in the update file AA500007.001 is set to NULL. | | | | | | | | | | | | | |
| **Location** | | **Feature** | | **Attributes** | | | **FRID** | | **FOID** | | | | **VRID** | |
| - | | - | | - | | | -3 | | AA-3093866859 00054 | | | | - | |
| **Screen Capture** |  | | | | | | | | | | | | | |
| **Expected Test Results** | 32: An error “Record update does not refer to a valid record NAME” must be triggered. | | | | | | | | | | | | | |
| **Secondary Critical Errors** | None | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | |
| **Dataset Name** | AA500007 | | | | **S‐58 Check** | | | | 33 | | | **Type** | | C |
| **S-58 Description** | For each attribute update which does not refer to a valid record NAME and attribute label/code. | | | | | | | | | | | | | |
| **Message** | Attribute update does not refer to valid record NAME and attribute label/code. | | | | | | | | | | | | | |
| **Solution** | Amend attribute update to refer to valid values. | | | | | | | | **Conformity** | Part 3 (8.3.3) | | | | |
| **Test Case No. 1** | The update record <0001><25> contains an invalid ATTF.ATTL value. | | | | | | | | | | | | | |
| **Location** | | **Feature** | | **Attributes** | | | **FRID** | | **FOID** | | | | **VRID** | |
| - | | C\_ASSO | | - | | | FE-50 | | AA 3007887502 00006 | | | | - | |
| **Screen Capture** |  | | | | | | | | | | | | | |
| **Expected Test Results** | 33: An error “Attribute update does not refer to valid record NAME and attribute label/code” must be triggered. | | | | | | | | | | | | | |
| **Secondary Critical Errors** | None | | | | | | | | | | | | | |