1. **Test Dataset: 00400013**

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

|  |  |
| --- | --- |
| **S‐58 Check** | **Description** |
| 526 | If the COUN subfield of the DSPM field is Not equal to 1 (latitude/longitude). |
| 539 | If DSID-PROF is Not equal to 1 (EN) AND is Not Equal to 2 (ER). |
| 1013 | If volume name is not in accordance with the ENC Product Specification. |
| 1518a | If the AGEN subfield of the DSID field is not one of the values listed in S-62 sections I and II. |

**Secondary Errors**

Critical – 26a, 531, 1016, 1518a

Error –

Warnings –

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Dataset Name** | 00400013 | **S‐58 Check** | 526 | | | **Type** | C |
| **S-58 Description** | If the COUN subfield of the DSPM field is Not equal to 1 (latitude/longitude). | | | | | | |
| **Message** | COUN does not equal 1 (latitude/longitude). | | | | | | |
| **Solution** | Set the COUN subfield to 1 (latitude/longitude). | | **Conformity** | | 4.4 | | |
| **Test Case No. 1** | Revised COUN subfield of the DSPM field 1 to 2. | | | | | | |
| **ASCII** |  | | | | | | |
| **Expected Test Results** | 526: An error “COUN does not equal 1 (latitude/longitude)” must be triggered. | | | | | | |
| **Secondary Critical Errors** | None | | | | | | |
|  | | | | | | | |
| **Dataset Name** | 00400013 | **S‐58 Check** | 539 | | | **Type** | C |
| **S-58 Description** | If DSID-PROF is Not equal to 1 (EN) AND is Not Equal to 2 (ER). | | | | | | |
| **Message** | Invalid value of DSID-PROF. | | | | | | |
| **Solution** | Set DSID-PROF to either 1 (EN) or 2 (ER). | | **Conformity** | | 6.3 and 6.4 and Part 3 (7.3.1.1) | | |
| **Test Case No. 1** | DSID-PROF has been set to 4. | | | | | | |
| **ASCII** |  | | | | | | |
| **Expected Test Results** | 539: An error “Invalid value of DSID-PROF” must be triggered. | | | | | | |
| **Secondary Critical Errors** | None | | | | | | |
|  | | | | | | | |
| **Dataset Name** | AA400003 | **S‐58 Check** | 1013 | | | **Type** | C |
| **S-58 Description** | If volume name is not in accordance with the ENC Product Specification. | | | | | | |
| **Message** | Volume name is not in accordance with the ENC Product Specification. | | | | | | |
| **Solution** | Amend the volume name. | | **Conformity** | | Appendix B.1 (5.4.2) | | |
| **Test Case No. 1** | Volume name has been revised from V01X01 to W01X01 in CATLOG.031. | | | | | | |
| **ASCII** |  | | | | | | |
| **Expected Test Results** | 1013: An error “Volume name is not in accordance with the ENC Product Specification” must be triggered. | | | | | | |
| **Secondary Critical Errors** | 1016: “CRC values do not match”. | | | | | | |
|  | | | | | | | |
| **Dataset Name** | 00400013 | **S‐58 Check** | 1518a | | | **Type** | C |
| **S-58 Description** | If the AGEN subfield of the DSID field is not one of the values listed in S-62 sections I and II. | | | | | | |
| **Message** | Producing Agency code is not a valid S-62 value. | | | | | | |
| **Solution** | Amend AGEN subfield to a valid S-62 value. | | **Conformity** | 2.2.1 | | | |
| **Test Case No. 1** | DSID-AGEN has been set to ‘0\_’. | | | | | | |
| **Screen Capture** |  | | | | | | |
| **Expected Test Results** | 1518a: An error “Producing Agency code is not a valid S-62 value” must be triggered. | | | | | | |
| **Secondary Critical Errors** | 531: An error “bad cell name wrong agency”.  1518b: “Producing Agency code is not a valid S-62 value” | | | | | | |