1. **Test Dataset: 101AA00400012**

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

|  |  |  |
| --- | --- | --- |
| **S‐58 Check** | **S‐158 Check** | **Description** |
| 504 | S100\_5\_001 | For each object which is present in the dataset but not present in the S-101 Feature Catalogue. |
| 545 |
| 547 | S100\_5\_004 | For each attribute present in the dataset which is not present in the S-101 FC. |
| 551a | S100\_5\_007 | Check that all attributes conform to the format defined for the attribute value type specified in the S-XXX Feature Catalogue. |
| 553 |  | For each Group 1 feature object where any of fixedDateRange/dateStart, fixedDateRange/dateEnd, periodicDateRange/dateStart or periodicDateRange/dateEnd is Present AND notNull. |
| 1011 | S100\_4a\_003 | Check that each support file included in the SupportFileDiscovery Metadata is present in the fileLocation specified. |
| 1015 | S100\_4a\_006 | If the filename of any support file provided in the exchange set does not conform to the DPS. |
| 1023 | S101\_11\_002 | For each picture file which is not in the TIF format. |
| 1679 | S100\_5\_005 | For each attribute binding which is either not present in the S-101FC or does not conform to the multiplicity of the attribute binding. |
| 1804 | S101\_A\_021 | For each Obstruction, Underwater Rock or Wreck feature object of geometric primitive point which TOUCHES a curve segment of a Depth Area, Dredged Area or Unsurveyed Area feature object. |

**Secondary Errors**

Critical – **S100\_7\_001** (20b), **S100\_10a\_008** (26a ), **S100\_5\_005** (507), (555)

Error – **S100\_5\_007** (26b), (28), **S101\_A\_022** (46), (96), **S101\_A\_059** (568), **S101\_A\_064** (574), (1553), **S100\_10a\_105** (2000)

Warnings – (90b), **S101\_A\_183** (571), **S101\_A\_230** (1781)

Nb:

**XXX**: S-100/S-101 associated to the S-1158 check specified in the S-1158 documentation

(*XXX*): No S-100/S-101 check found for the corresponding S-1158 check in S-101\_Validation\_Checks or check not applicable for S-101

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Dataset Name** | 101AA00400012 | | | **S‐58 Check** | | S100\_5\_001 | | | **Type** | C |
| **S-58 Description** | For each CANBNK, LAKSHR, RIVBNK SQUARE, M\_HDAT, M\_PROD, M\_UNIT, C\_STAC, $AREAS, $LINES, $CSYMB, $COMPS, or $TEXTS feature object. | | | | | | | | | |
| **Message** | Prohibited objects exist within the dataset. | | | | | | | | | |
| **Solution** | Remove prohibited objects. | | | | | **Conformity** | | 3.2 | | |
| **Test Case No. 1** | Prohibited objects have been created. | | | | | | | | | |
| **Location** | | **Feature** | **Attributes** | | **FRID** | | **FOID** | | | **VRID** |
| 32°30'35.67"S 60°57'48.16"E | | SQUARE (S) | - | | FE-19 | | 1810\_3402\_1 | | | (S)21 |
| 32°30'42.14"S 60°1158'13.26"E | | M\_UNIT (S) | - | | FE-20 | | 1810\_3403\_1 | | | (S)22 |
| 32°30'42.28"S 60°1158'28.40"E | | M\_PROD (S) | - | | FE-21 | | 1810\_3403\_1 | | | (S)21 |
| 32°30'32.29"S 60°1158'14.08"E | | $AREAS (S) | - | | FE-23 | | 1810\_3406\_1 | | | (S)23 |
| 32°30'10.18"S 60°1158'02.77"E | | RIVBNK (C) | - | | FE-157 | | 1810\_3550\_1 | | | (C)01 |
| 32°30'21.50"S 60°57'53.66"E | | LAKSHR (C) | - | | FE-158 | | 1810\_3550\_1 | | | (C)202 |
| 32°30'16.48"S 60°1158'03.77"E | | CANBNK (C) | - | | FE-159 | | 1810\_3552\_1 | | | (C)203 |
| 32°30'28.93"S 60°57'53.53"E | | $LINES (C) | - | | FE-160 | | 1810\_3553\_1 | | | (C)204 |
| 32°30'34.19"S 60°1158'06.23"E | | $CSYMB (P) | - | | FE-175 | | 1810\_3568\_1 | | | (P)-29 |
| 32°30'34.24"S 60°1158'01.38"E | | $TEXTS (P) | - | | FE-176 | | 1810\_3569\_1 | | | (P)-30 |
| 32°30'33.85"S 60°57'56.67"E | | $COMPS (P) | - | | FE-177 | | 1810\_3570\_1 | | | (P)-31 |
| 32°30'32.77"S 60°1158'24.51"E | | M\_HDAT(S) |  | | FE-339 | | 1810\_3723\_1 | | | (S)-339 |
| **Screen Capture** |  | | | | | | | | | |
| **Expected Test Results** | S100\_5\_001: 12 errors “prohibited object” must be triggered. | | | | | | | | | |
| **Secondary Critical Errors** | None | | | | | | | | | |
|  | | | | | | | | | | |
| **Dataset Name** | 101AA00400012 | | | **S‐158 Check** | | S100\_5\_001 | | | **Type** | C |
| **S-58 Description** | For each feature object which does not have a valid feature object class label/code as defined by the Object Catalogue and S-57 Supplement No.3. | | | | | | | | | |
| **Message** | Object has invalid object class code. | | | | | | | | | |
| **Solution** | Amend object class code. | | | | | **Conformity** | | 3.2 and  Supplement No.3  Ch.2 | | |
| **Test Case No. 1** | New object feature class created achare. | | | | | | | | | |
| **Location** | | **Feature** | **Attributes** | | **FRID** | | **FOID** | | | **VRID** |
| 32°33'23.11"S 60°56'59.84"E | | achare |  | | FE-500 | | AA 0000004095 00001 | | | VE-170 |
| **Location** |  | | | **S57 Encoding** | | achare | |  | | |
| **FOID or VRID** | FE-0000000500/VE-0000000170 | | |  | |  | |  | | |
| **ASCII** |  | | | | | | | | | |
| **Expected Test Results** | S100\_5\_001: Error “Object has invalid object class label” must be triggered. | | | | | | | | | |
| **Secondary Critical Errors** | S100\_7\_001: Additional error “orphaned geometry” may be triggered. | | | | | | | | | |
|  | | | | | | | | | | |
| |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | **Dataset Name** | 101AA00400012 | | | **S‐158 Check** | | S100\_5\_007 | | | **Type** | C | | **S-58 Description** | If text attribute values use (C0) characters (C0 as defined in S-57 Part 3, Annex B). | | | | | | | | | | | **Message** | C0 characters used in text attribute values. | | | | | | | | | | | **Solution** | Correct text attribute values. | | | | | **Conformity** | | 3.5.5 and Part 3 Annex B | | | | **Test Case No. 1** | Objects with text attributes containing control characters. | | | | | | | | | | | **Location** | | **Feature** | **Attributes** | | **FRID** | | **FOID** | | | **VRID** | | 32°30'27.60"S 60°56'00.01"E | | LandMark(P) | INFORM contains backspace & carriage return | | FE-322 | | AA 0000003488 00001 | | | (P)-42 | | **Screen Capture/ASCII** | 0001: <883>  FRID: <100><322><1><2><74><1><1>  FOID: <1810><3488><1>  ATTF: <35>7!  <83>2!  <94>31!  <102>3RadioMasts!  <120>AABRIDGE.TIF!  FSPT: <<110><42>><255><255><255> | | | | | | | | | | | **Expected Test Results** | S100\_5\_007: Error “C0 characters used in text attribute values”. | | | | | | | | | | | **Secondary Critical Errors** | None | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | |
| **Dataset Name** | 101AA00400012 | | | **S‐158 Check** | | S100\_5\_004 | | | **Type** | C |
| **S-58 Description** | For each feature object which contains attributes outside the list of permissible attributes for the feature object as defined in the Object Catalogue and S-57 Supplement No.3. | | | | | | | | | |
| **Message** | Attribute not permitted on feature object class. | | | | | | | | | |
| **Solution** | Remove attribute. | | | | | **Conformity** | | 3.2 and  Supplement No.3  Ch.2 | | |
| **Test Case No. 1** | HarbourArea encoded with non-list of permissible attributes for the object. | | | | | | | | | |
| **Location** | | **Feature** | **Attributes** | | **FRID** | | **FOID** | | | **VRID** |
| 32°32'14.1158"S 60°1158'30.84"E | | HarbourArea(S) | fixedDateRange/dateEnd & fixedDateRange/dateStart | | FE-77 | | AA 0000003467 00001 | | | (P)-169 |
| 32°30'05.28"S 60°55'33.29"E | | DepthArea(S) | periodicDateRange/dateStart, periodicDateRange/dateEnd, fixedDateRange/dateStart & fixedDateRange/dateEnd | | FE-333 | | AA 0000003464 00001 | | | - |
| 32°30'12.40"S 60°55'54.37"E | | DredgedArea(S) | periodicDateRange/dateStart, periodicDateRange/dateEnd, fixedDateRange/dateStart & fixedDateRange/dateEnd | | FE-332 | | AA 0000003460 00001 | | | - |
| 32°30'14.35"S 60°55'23.85"E | | FloatingDock(S) | periodicDateRange/dateStart, periodicDateRange/dateEnd, fixedDateRange/dateStart & fixedDateRange/dateEnd | | FE-330 | | AA 0000003463 00001 | | | - |
| 32°30'14.35"S 60°55'26.44"E | | Hulks(S) | periodicDateRange/dateStart, periodicDateRange/dateEnd, fixedDateRange/dateStart & fixedDateRange/dateEnd | | FE-329 | | AA 0000003462 00001 | | | - |
| 32°30'29.78"S 60°56'06.05"E | | LandArea(S) | periodicDateRange/dateStart, periodicDateRange/dateEnd, fixedDateRange/dateStart & fixedDateRange/dateEnd | | FE-331 | | AA 0000003461 00001 | | | - |
| 32°30'02.53"S 60°55'17.54"E | | Pontoon(S) | periodicDateRange/dateStart, periodicDateRange/dateEnd, fixedDateRange/dateStart & fixedDateRange/dateEnd | | FE-326 | | AA 0000003466 00001 | | | - |
| 32°30'04.94"S 60°55'09.47"E | | UnsurveyedArea(S) | periodicDateRange/dateStart, periodicDateRange/dateEnd, fixedDateRange/dateStart & fixedDateRange/dateEnd | | FE-328 | | AA 0000003465 00001 | | | - |
| **Screen Capture/ASCII** | - | | | | | | | | | |
| **Expected Test Results** | S100\_5\_004: Error “Attribute not permitted on feature object class”. | | | | | | | | | |
| **Secondary Critical Errors** | 553: additional errors “Attributes fixedDateRange/dateStart, fixedDateRange/dateEnd, periodicDateRange/dateStart or periodicDateRange/dateEnd are encoded on Group 1 objects.” | | | | | | | | | |
|  | | | | | | | | | | |
| **Dataset Name** | 101AA00400012 | | | **S‐58 Check** | | 553 | | | **Type** | C |
| **S-58 Description** | For each Group 1 feature object where any of fixedDateRange/dateStart, fixedDateRange/dateEnd, periodicDateRange/dateStart or periodicDateRange/dateEnd is Present AND notNull. | | | | | | | | | |
| **Message** | Attributes fixedDateRange/dateStart, fixedDateRange/dateEnd, periodicDateRange/dateStart or periodicDateRange/dateEnd are encoded on Group 1 objects. | | | | | | | | | |
| **Solution** | Remove these attributes from Group 1 objects. | | | | | **Conformity** | | 3.10.1 and Logical  consistency | | |
| **Test Case No. 1** | Group 1 objects created with attributes fixedDateRange/dateStart, fixedDateRange/dateEnd, periodicDateRange/dateStart or periodicDateRange/dateEnd. | | | | | | | | | |
| **Location** | | **Feature** | **Attributes** | | **FRID** | | **FOID** | | | **VRID** |
| 32°30'05.28"S 60°55'33.29"E | | DepthArea(S) | periodicDateRange/dateStart:20171229;  periodicDateRange/dateEnd:20171229;  fixedDateRange/dateStart:20171229;  fixedDateRange/dateEnd:20171229; | | FE-333 | | AA 0000003464 00001 | | | - |
| 32°30'12.40"S 60°55'54.37"E | | DredgedArea(S) | periodicDateRange/dateStart:20171229;  periodicDateRange/dateEnd:20171229;  fixedDateRange/dateStart:20171229;  fixedDateRange/dateEnd:20171229; | | FE-332 | | AA 0000003460 00001 | | | - |
| 32°30'14.35"S 60°55'23.85"E | | FloatingDock(S) | periodicDateRange/dateStart:20171229;  periodicDateRange/dateEnd:20171229;  fixedDateRange/dateStart:20171229;  fixedDateRange/dateEnd:20171229;  STATUS=5 | | FE-330 | | AA 0000003463 00001 | | | - |
| 32°30'14.35"S 60°55'26.44"E | | Hulks(S) | periodicDateRange/dateStart:20171229;  periodicDateRange/dateEnd:20171229;  fixedDateRange/dateStart:20171229;  fixedDateRange/dateEnd:20171229; | | FE-329 | | AA 0000003462 00001 | | | - |
| 32°30'29.78"S 60°56'06.05"E | | LandArea(S) | periodicDateRange/dateStart:20171229;  periodicDateRange/dateEnd:20171229;  fixedDateRange/dateStart:20171229;  fixedDateRange/dateEnd:20171229;  STATUS=5 | | FE-331 | | AA 0000003461 00001 | | | - |
| 32°30'02.53"S 60°55'17.54"E | | Pontoon(S) | periodicDateRange/dateStart:20171229;  periodicDateRange/dateEnd:20171229;  fixedDateRange/dateStart:20171229;  fixedDateRange/dateEnd:20171229;  STATUS=5 | | FE-326 | | AA 0000003466 00001 | | | - |
| 32°30'04.94"S 60°55'09.47"E | | UnsurveyedArea(S) | periodicDateRange/dateStart:20171229;  periodicDateRange/dateEnd:20171229;  fixedDateRange/dateStart:20171229;  fixedDateRange/dateEnd:20171229; | | FE-328 | | AA 0000003465 00001 | | | - |
| **Screen Capture** | - | | | | | | | | | |
| **Expected Test Results** | 553: An error “Attributes fixedDateRange/dateStart, fixedDateRange/dateEnd, periodicDateRange/dateStart or periodicDateRange/dateEnd are encoded on Group 1 objects.” must be triggered. | | | | | | | | | |
| **Secondary Critical Errors** | 547: An error “Attribute not permitted on feature object class” must be triggered. | | | | | | | | | |
|  | | | | | | | | | | |
| **Dataset Name** | 101AA00400012 | | | **S‐58 Check** | | S100\_4a\_003 | | | **Type** | C |
| **S-58 Description** | For each feature object where information/fileReference, pictorialRepresentation is ‘notNull’ and references a file that is Not present in the exchange set OR their names do not conform to the ENC Product Specification. | | | | | | | | | |
| **Message** | Text or picture file referenced by a feature object is not present in the exchange set or its  name is non-conformant. | | | | | | | | | |
| **Solution** | Ensure referenced files exist and are named correctly. | | | | | **Conformity** | | Appendix B.1  (5.4.1 and 5.6.4) | | |
| **Test Case No. 1** | CableArea, DumpingGround and LandMark features created with information/fileReference, and pictorialRepresentation ‘notNull’ ensure referenced file is not existing. | | | | | | | | | |
| **Location** | | **Feature** | **Attributes** | | **FRID** | | **FOID** | | | **VRID** |
| 32°30'1722"S 60°57'06.53"E | | CableArea (S) | NTXTDS= “AA4E0012.TXT“ | | FE-327 | | AA 0000003725 00001 | | | - |
| 32°31'21.73"S 60°55'55.86"E | | DumpingGround (S) | information/fileReference= “101AA00400012.TXT“ | | FE-324 | | AA 0000003728 00001 | | | - |
| 32°30'26.96"S 60°56'00.02"E | | LandMark (P) | pictorialRepresentation= “AABRIDGE.TIF“ | | FE-322 | | AA 0000003488 00001 | | | (P)-42 |
| **Screen Capture** |  | | | | | | | | | |
| **Expected Test Results** | S100\_4a\_003: AN error “Check for each feature object where information/fileReference is notNull and references a file that is not present in the exchange set” must be triggered. | | | | | | | | | |
| **Secondary Critical Errors** | None | | | | | | | | | |
| **Test Case No. 2** | AnchorageArea, DredgedArea and BuoySpecialPurposeGeneral features created with information/fileReference, and pictorialRepresentation ‘notNull’ their names do not conform to the ENC Product Specification. | | | | | | | | | |
| **Location** | | **Feature** | **Attributes** | | **FRID** | | **FOID** | | | **VRID** |
| 32°31'29.72"S 60°56'55.92"E | | AnchorageArea (S) | = “AA400E.TXT” | | FE-52 | | AA 0000003717 00001 | | | **-** |
| 32°31'41.27"S 60°55'29.59"E | | BuoySpecialPurposeGeneral (P) | pictorialRepresentation = “AA400B.TIF“ | | FE-321 | | AA 0000003593 00001 | | | (P)-41 |
| 32°31'39.67"S 60°57'13.66"E | | DredgedArea (S) | information/fileReference=“AA400D.TXT“ | | FE-320 | | AA 0000003435 00001 | | | - |
| **Screen Capture** |  | | | | | | | | | |
| **Expected Test Results** | S100\_4a\_003: Error “Text or picture file referenced by a feature object is not present in the exchange set or its name is non-conformant” must be triggered. | | | | | | | | | |
| **Secondary Critical Errors** | None | | | | | | | | | |
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| **Dataset Name** | 101AA00400012 | | | **S‐58 Check** | | S100\_4a\_006 | | | **Type** | C |
| **S-58 Description** | If the text and picture file names are in accordance with the ENC product Specification. | | | | | | | | | |
| **Message** | Text and picture file names have incorrect format/name. | | | | | | | | | |
| **Solution** | Use correctly formatted and named text and picture files. | | | | | **Conformity** | | Appendix B.1 (5.6.4) | | |
| **Test Case No. 1** | Bridgefeature created with information/fileReference and pictorialRepresentation file names have incorrect format. | | | | | | | | | |
| **Location** | | **Feature** | **Attributes** | | **FRID** | | **FOID** | | | **VRID** |
| 32°30'51.80"S 60°56'34.84"E | | Bridge(C) | information/fileReference=“AABRIDGE“;  pictorialRepresentation=“12BRIDGE“; | | FE-325 | | AA 0000003730 00001 | | | VE-215 |
| **Screen Capture** |  | | | | | | | | | |
| **Expected Test Results** | S100\_4a\_006: An error “Text and picture file names have incorrect format/name” must be triggered. | | | | | | | | | |
| **Secondary Critical Errors** | S100\_4a\_003: additional error “Text or picture file referenced by a feature object is not present in the exchange set or its name is non-conformant” must be triggered.  S101\_11\_002: additional error “picture file not in the TIF format” must be triggered. | | | | | | | | | |
|  | | | | | | | | | | |
| **Dataset Name** | 101AA00400012 | | | **S‐58 Check** | | S101\_11\_002 | | | **Type** | C |
| **S-58 Description** | For each picture file which is not in the TIF format. | | | | | | | | | |
| **Message** | Picture file not in TIF format. | | | | | | | | | |
| **Solution** | Replace picture file with TIF format version. | | | | | **Conformity** | | Appendix B.1,  Annex A (4.8.20) | | |
| **Test Case No. 1** | Building feature created with pictorialRepresentation file in PNG format. | | | | | | | | | |
| **Location** | | **Feature** | **Attributes** | | **FRID** | | **FOID** | | | **VRID** |
| 32°30'46.03"S 60°57'44.82"E | | Building (P) | pictorialRepresentation=“AABRIDGE.PNG“ | | FE-323 | | AA 0000003547 0001 | | | (P)-43 |
| **Screen Capture** |  | | | | | | | | | |
| **Expected Test Results** | S101\_11\_002: An error “picture file not in the TIF format” must be triggered. | | | | | | | | | |
| **Secondary Critical Errors** | None | | | | | | | | | |
|  | | | | | | | | | | |
| **Dataset Name** | 101AA00400012 | | | **S‐58 Check** | | S100\_5\_005 | | | **Type** | C |
| **S-58 Description** | For each feature object where attributes of types enumerated ('E'), float ('F'), integer ('I') or code string ('A') have more than one value. | | | | | | | | | |
| **Message** | More than one value present for attributes of the following types; enumerated ('E'), float ('F'), integer ('I') or code string ('A'). | | | | | | | | | |
| **Solution** | Remove unnecessary attribute values. | | | | | **Conformity** | | Appendix A, Ch.2  (2.1) | | |
| **Test Case No. 1** | Wreckfeature object created by encoding the categoryOfWreck with more than one value. | | | | | | | | | |
| **Location** | | **Feature** | **Attributes** | | **FRID** | | **FOID** | | | **VRID** |
| 32°32'27.10"S 60°57'06.83"E | | Wreck(P) | categoryOfWreck = 5,4 | | FE-294 | | AA 0000003688 00001 | | | (P)-40 |
| **ASCII** |  | | | | | | | | | |
| **Expected Test Results** | S100\_5\_005: error “More than one value present for attributes of the following types; enumerated ('E'), float ('F'), integer ('I') or code string ('A').” must be triggered. | | | | | | | | | |
| **Secondary Critical Errors** | S100\_5\_007 : subfield value outside of the permitted range for an attribute value | | | | | | | | | |
| **Test Case No. 2** | LandMark (P) feature object created by encoding the elecation with more than one value. | | | | | | | | | |
| **Location** | | **Feature** | **Attributes** | | **FRID** | | **FOID** | | | **VRID** |
| 32°31'01.89"S 60°56'19.96"E | | LandMark (P) | elecation = 30,10 | | FE-335 | | AA 0000000205 00001 | | | (P)-44 |
| **ASCII** |  | | | | | | | | | |
| **Expected Test Results** | S100\_5\_005: An error “attribute elecation must have only one value” must be triggered. | | | | | | | | | |
| **Secondary Critical Errors** | -None- | | | | | | | | | |
| **Test Case No. 3** | SeabedArea (P) feature object created by encoding the scaleMinimum with more than one value. | | | | | | | | | |
| **Location** | | **Feature** | **Attributes** | | **FRID** | | **FOID** | | | **VRID** |
| 32°31'02.28"S 60°56'50.91"E | | SeabedArea (P) | scaleMinimum=4000,5000 | | FE-336 | | AA 0000000207 00001 | | | (P)-45 |
| **ASCII** |  | | | | | | | | | |
| **Expected Test Results** | S100\_5\_005: An error “attribute scaleMinimum must have only one value” must be triggered. | | | | | | | | | |
| **Secondary Critical Errors** | None | | | | | | | | | |
|  | | | | | | | | | | |
| **Dataset Name** | 101AA00400012 | | | **S‐158 Check** | | S101\_A\_021 | | | **Type** | C |
| **S-58 Description** | For each Obstruction, UnderwaterRock or Wreck feature object of geometric primitive point which TOUCHES an edge of a DepthArea, DredgedArea or UnsurveyedArea feature object. | | | | | | | | | |
| **Message** | Point object touches an edge between Group 1 objects. | | | | | | | | | |
| **Solution** | Amend Group 1 object geometry so that it does not touch the point object. | | | | | **Conformity** | | 6.1 | | |
| **Test Case No. 1** | Obstruction, UnderwaterRock and Wreck (P) features created which touches an edge between group 1 objects. | | | | | | | | | |
| **Location** | | **Feature** | **Attributes** | | **FRID** | | **FOID** | | | **VRID** |
| 32°32'20.87"S 60°57'21.47"E | | Obstruction (P) | QualityOfSounding=2; valueOfSounding=””;  waterlevelEffect=3; | | FE-293 | | AA 0000003687 00001 | | | (P)-39 |
| 32°32'20.87"S 60°57'21.47"E | | UnderwaterRock (P) | NatureOfSurface=9; QualityOfSounding=2;  valueOfSounding=””; waterlevelEffect=3 | | FE-292 | | AA 0000003686 00001 | | | (P)-38 |
| 32°32'20.87"S 60°57'21.47"E | | Wreck (P) | categoryOfWreck=1; QualityOfSounding=2; valueOfSounding=””; waterlevelEffect=3 | | FE-291 | | AA 0000003685 00001 | | | (P)-37 |
| **Screen Capture** |  | | | | | | | | | |
| **Expected Test Results** | S101\_A\_021: An error “Point object touches an edge between Group 1 objects” must be triggered. | | | | | | | | | |
| **Secondary Critical Errors** | None | | | | | | | | | |