

2.1 Checks relating to S-57 Data Structure

No	Check description	Check message	Check solution	Conformity to:	Cat
1	If any parts of two edges are COINCIDENT.	Partially duplicated edges.	Remove duplication, add nodes and edit edges as required.	Part 2 (2.2.1.2)	E
2	For all VE edges which do not have a beginning or end node	VE edge missing beginning or end node	Add nodes as required.	Part 2 (2.2.1.2)	Deleted: (RCNM Deleted: -2 Deleted: For each file with an invalid CRC Deleted: Part 3 (3..4) Deleted: E Formatted: Font: Italic, Not Strikethrough Formatted: Font: Italic Deleted: CRC is invalid Deleted: Amend CRC Deleted: line Deleted: n Deleted: [Deleted:] Deleted: or Deleted: [Deleted:] Deleted: line Deleted: n Deleted: [Deleted:] Deleted: [Deleted:] Deleted: type Deleted: does Deleted: n Deleted: [Deleted:] Deleted: type Deleted: does not equal Deleted: [Deleted:]
3	For each record where the record identifier NAME is not unique within the file	Record identifier NAME is not unique.	Amend Record identifier NAME to be unique.	Part 3 (2.2)	
4	For each RCNM (Record Name) where the value is not in table 2.2 S-57	Invalid value of Record Name (RCNM)	Amend value of Record Name (RCNM)	Part 3 (2.2.1)	
5	For each Record Identification Number (RCID) which is less than 1 and greater than 2 ³² (4294967294).	Record Identification Number (RCID) is out of range.	Amend Record Identification Number (RCID) value.	Part 3 (2.2.2)	
6	Check removed				
7	For each feature object with illegal AGEN(producing agency), FIDN(feature identification number) or FIDS(feature identification subdivision) values.	Illegal values of AGEN, FIDN or FIDS	Amend values of AGEN, FIND or FIDS.	Part 3 (4.3.1) and (4.3.2)	
8	For each feature object where an attribute code is repeated.	Duplicate attribute code on an object.	Remove or amend duplicate attribute code.	Part 3 (4.4), (4.5) and (5.1.2)	
9a	For each feature object of geometric primitive line where ORNT is Not equal to 1 (forward) OR 2 (reverse)	ORNT not set to 'forward' or 'reverse'.	Set value of ORNT to 'forward' or 'reverse'.	Part 3 (4.7.2) and Appendix B.1 (3.8)	
9b	For each feature object of geometric primitive line where USAG is Not equal to 255 (null)	USAG not set to 'null'.	Set value of USAG to 'null'.	Part 3 (4.7.2) and Appendix B.1 (3.8)	
9c	For each feature object of geometric primitive line where MASK is Not equal to 1 (mask) OR 2 (show) OR 255 (masking is not relevant)	MASK not set to 'mask', 'show' or 'masking is not relevant'.	Set MASK to 'mask', 'show' or 'masking is not relevant'.	Part 3 (4.7.2) and Appendix B.1 (3.8)	
10a	For each feature object of geometric primitive point where ORNT is Not equal to 255 (direction is not relevant)	ORNT not set to 'direction is not relevant'.	Set ORNT to 'direction is not relevant'.	Part 3 (4.7.1)	
10b	For each feature object of geometric primitive point where USAG is Not equal to 255 (null)	USAG not set to 'null'.	Set USAG to 'null'.	Part 3 (4.7.1)	

10c	For each <u>feature</u> object of <u>geometric primitive</u> point where MASK <u>is Not equal to 255</u> (masking is not relevant).	MASK not set to 'masking is not relevant'.	Set MASK to 'masking is not relevant'.	Part 3 (4.7.1)	C	Deleted: type Deleted: does not equal Deleted: [
11	For each edge where USAG <u>is Equal to 3</u> (exterior boundary truncated by the data limit) not referencing an M_COVR <u>meta</u> object.	Edge with USAG = 3 (exterior boundary truncated by the data limit) does not reference an M_COVR object.	Set USAG to 1 or 2.	Part 3 (4.7.3.3)		Deleted:] Deleted: = Deleted: [Deleted: [Deleted:]
12	For each feature object which is not a C_(collection) object AND which does not have an FSPT.	Missing FSPT (Feature Record to Spatial Record pointer field).	Add FSPT (Feature Record to Spatial Record pointer field).	Part 3 (4.7)		Deleted:] Deleted: [Deleted: [Deleted:]
13a	For each feature <u>object</u> of <u>geometric primitive</u> line which references multiple edges where the vector records are not referenced sequentially.	Edges are not referenced sequentially.	Amend records to reference edges sequentially.	Part 3 (4.7.2)		Deleted:] Deleted: type
13b	For each feature <u>object</u> of <u>geometric primitive</u> line which references multiple edges where the end node of a vector record is not identical to the start node of the following vector record.	Sequential edges do not have the same <u>end</u> and <u>start</u> nodes.	Ensure <u>end</u> and <u>start</u> nodes of sequential edges match.	Part 3 (4.7.2)		Deleted: start Deleted: end Deleted: type Deleted: start Deleted: end
13c	For each feature <u>object</u> of <u>geometric primitive</u> area where a polygon ring references multiple edges where the vector records are not referenced sequentially.	Edges are not referenced sequentially.	Amend records to reference edges sequentially.	Part 3 (4.7.2)	C	Deleted: type Deleted:
13d	For each feature <u>object</u> of <u>geometric primitive</u> area which references multiple edges where the end node of a vector record is not identical to the start node of the following vector record.	Sequential edges do not have the same <u>end</u> and <u>start</u> nodes.	Ensure <u>end</u> and <u>start</u> nodes of sequential edges match.	Part 3 (4.7.2)		Deleted: start Deleted: end Deleted: type Deleted: start Deleted: end
14	For each <u>feature</u> object of <u>geometric primitive area</u> where outer or inner boundaries share more than one node.	Outer or inner boundaries share more than one node.	Amend boundaries so that they share at most one node.	Part 3 (4.7.3)		Deleted: area

15	For each area outer or inner boundary which is not closed (i.e. the first and last edges bounding the area do not meet at a common connected node).	First and last edge of an area boundary, do not meet at a common connected node.	Amend edges bounding the area to meet at a common connected node.	Part 3 (4.7.3.1)	C
16	For each area outer boundary which is not encoded clockwise.	Area outer boundary not encoded clockwise.	Ensure area outer boundary is encoded clockwise.	Part 3 (4.7.3.2)	C
17	For each area inner boundary which is not encoded counter-clockwise.	Area inner boundary not encoded counter-clockwise.	Ensure area inner boundary is encoded counter-clockwise.	Part 3 (4.7.3.2)	C
18a	For each feature object of geometric primitive area which does not have an outer boundary OR has more than one outer boundary.	Area object without an outer boundary or with several outer boundaries.	Amend geometry so that area object has one outer boundary.	Part 3 (4.7.3.2) and (4.7.3.3)	Deleted: area
18b	For each feature object of geometric primitive area which has one outer boundary, that it is not referenced first.	Area object with one outer boundary which is not referenced first.	Amend geometry so that the outer boundary is referenced first.	Part 3 (4.7.3.2) and (4.7.3.3)	Deleted: area Deleted: ve
18c	For each feature object of geometric primitive area with one or more inner boundaries where any boundary is not sequential OR includes invalid use of USAG.	Inner boundary is not closed or is not sequential or use of USAG is invalid.	Ensure inner boundary is closed and sequential. Ensure valid use of USAG.	Part 3 (4.7.3.2) and (4.7.3.3)	Deleted: area
19	For each edge which is COINCIDENT with the data limit borders (i.e. limits of M_COVR with CATCOV is Equal to 1 (coverage available) where USAG is Not equal to 3 (Exterior boundary truncated by the data limit).	Edge coincides with the data limit and USAG does not equal 3 (Exterior boundary truncated by the data limit) .	Amend edge to USAG = 3 (Exterior boundary truncated by the data limit) .	Part 3 (4.7.3.3)	E Deleted: edge of Deleted: [Deleted: { Deleted:] Deleted: = Deleted: [
20	For each feature object where a geometric primitive is not one of those permitted.	Geometric primitive of this type is not permitted on this object class.	Use alternative geometric primitive or alternative object class as required.	Appendix B.1 (3.3), Part 3 (5.1.1) and Supplement No2 Ch.4 (3.3.1)	Deleted:] Deleted:] Deleted: does not equal Deleted: [
21	For each vector record pointer (VRPT) field which is not pointed to by an edge vector record.	Vector record pointer field (VRPT) not referenced by an edge vector record.	Ensure Vector record pointer field (VRPT) is referenced by an edge vector record or delete.	Appendix B.1 (3.3), Part 3 (5.1.1) and Supplement No2 Ch.4 (3.3.1)	Deleted:] Deleted: s Deleted: are
22	For each edge where the sequence of begin/end nodes is incorrect.	Begin/end nodes are not in the correct sequence.	Amend sequence of begin/end nodes.	Part 3 (5.1.3.2)	C

23	For each coordinate which is not of type SG2D or SG3D.	Coordinate is not SG2D or SG3D.	Amend coordinate to valid type.	Part 3 (5.1.4)	C
24	For each SOUNDG feature object which is not of coordinate type SG3D with X, Y and Z values.	SOUNDG is not of coordinate type SG3D with X, Y and Z values.	Amend coordinate type or values for SOUNDG.	Part 3 (5.1.4.1)	C
25a	For each edge where the beginning and end are not encoded as connected nodes.	Beginning or end nodes of an edge are not encoded as connected nodes.	Amend beginning or end nodes to be connected nodes.	Part 3 (5.1.4.4)	C
25b	For each connected node where the geometry is not part of an edge.	Connected node which is not part of an edge.	Complete edge or make node isolated.	Part 3 (5.1.4.4)	C
25c	For each edge where the beginning or end nodes are not referenced using the vector record pointer.	Beginning or end nodes not referenced by the vector record pointer.	Amend edge to ensure beginning and end nodes are referenced.	Part 3 (5.1.4.4)	C
26a	For each subfield where the value is not within the range defined in the S-57 format description.	Subfield value does not conform to S-57 format specification.	Correct subfield value.	Part 3 (7.2.2.1), (7.3) and Appendix A, Chapter 2.	C
26b	For each subfield value which is not within the legal range for attribute values, (for attribute values of type "float", the resolution given in the format statement by the integer part (e.g. XX.X) must not be checked).	Subfield value outside of the permitted range for an attribute value.	Amend subfield value to permitted attribute value.	Part 3 (7.2.2.1), (7.3) and Appendix A, Chapter 2.	C
27	For each subfield which is not formatted in accordance with S-57.	Subfield not formatted in accordance with S-57.	Amend formatting of subfield value.	Part 3 (7.2.2.2)	C
28	If the count of records in the DSSI field is Not equal to the total number of records.	DSSI field record count incorrect.	Correct the DSSI field record count.	Part 3 (7.3.1.2)	E
29	For each of the following: FFPC-NFPT, FSPC-NSPT, SGCC-CCNC, and VRPC-NVPT where the index position for updating is invalid.	Invalid index position for updating in the following FFPC-NFPT, FSPC-NSPT, SGCC-CCNC or VRPC-NVPT.	Amend to valid index position for updating.	Part 3 (7.6.5) (7.6.7), (7.7.1.5) and (7.7.1.3)	C
30	For each of the following: FFPC-FFIX, FSPC-FSIX, SGCC-CCIX, and VRPC-VPIX subfields where the index position for updating is invalid.	Invalid index position for updating in the following FFPC-FFIX, FSPC-FSIX, SGCC-CCIX or VRPC.	Amend to valid index position for updating.	Part 3 (7.7.1.5), (7.6.5), (7.6.7) and (7.7.1.3)	C

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31	For each edge where SG2D coordinates are identical to the start and end node coordinates.	Edge where start and end node coordinates are the same as the SG2D coordinates.	Amend SG2D coordinates to differ from start and end node coordinates.	Part 3 (7.7.1.6)	C	
32	For each record update which does not refer to a valid record NAME.	Record update does not refer to a valid record NAME.	Amend record update to refer to a valid record NAME.	Part 3 (8.3.2)	C	
33	For each attribute update which does not refer to a valid record NAME and attribute label/code.	Attribute update does not refer to valid record NAME and attribute label/code.	Amend attribute update to refer to valid values.	Part 3 (8.3.3)	C	
34	For each of the following fields FFPT, FSPT and VRPT where the update pointer index does not refer to a valid record NAME and index.	Update pointer index does not refer to a valid record NAME and index for FFPT, FSPT or VRPT.	Ensure update pointer index refers to a valid record NAME and index.	Part 3 (8.3.4)	C	
35	For each feature object where RVER is out of sequence.	RVER is out of sequence.	Ensure RVER is sequential.	Part 3 (8.4.2.1) and (8.4.3.1)	C	
36a	For each feature or vector update record which is DELETE and contains further fields.	DELETE update contains additional fields.	Remove additional fields from update record.	Part 3 (8.4.2.2) and (8.4.3.1)	C	Deleted: of type feature or vector
36b	For each feature of vector update record which is MODIFY/INSERT and contains no further fields.	MODIFY/INSERT update does not contain additional fields.	Add additional fields to update record.	Part 3 (8.4.2.2) and (8.4.3.1)	C	Deleted: of type feature or vector
37	Check renumbered 1006					
38	For each update record which contains more than one of the following fields : FFPC , VRPC , FSPC or SGCC .	Update record contains more than one of the following fields: FFPC, VRPC, FSPC, SGCC.	Remove additional fields from update record.	Part 3 (8.4.2.3), (8.4.3.2b), (8.4.2.4) and (8.4.3.3)		Deleted: See references in the column to the left. Deleted: FFPC field [8.4.2.3] VRPC field [8.4.3.2b] FSPC field [8.4.2.4] SGCC field [8.4.3.3]
39	Check removed.					Deleted: For all edges where line segments are not complete. Deleted: Line segments are not complete within edge. Deleted: Complete line segments. Deleted: Part 3 (8.4.3.3) Formatted: Font: Italic, Not Strikethrough Formatted: Font: Italic

40	For any pair feature objects of geometric primitive line where class and attribute values are identical AND all referenced edges have the same spatial attribute values AND which have one or two common connected nodes which is (are) a beginning node or an end node of each linear feature AND each common connected node is not shared by more than two objects which are not chained together.	Linear objects with the same class, attribute values and spatial attribute values which are connected are not chained together.	Chain linear objects together.	Logical consistency	W	Deleted: objects
44	Check removed.					Deleted: Area is not closed.
42	For VE edges which are referenced by Group 1 objects and are not linked to feature objects M_COVR with CATCOV is Equal to 1 (coverage available) which do not appear twice with different ORNT values.	GROUP 1 is not correct, a hole or an overlap exists.	Correct GROUP 1, to remove hole or overlap.	Logical consistency		Formatted Table Deleted: For all geometric objects where type is area AND are not complete. Deleted: Complete geometry to close area. Deleted: Logical consistency Deleted: C
43	For each DEPCNT feature object which is not COINCIDENT with two group 1 feature objects AND is not WITHIN an UNSARE or DRGARE.	DEPCNT does not coincide with two group 1 objects.	Amend DEPCNT or Group 1 objects as required.	Logical consistency		Deleted: = Deleted: [Deleted:]
44	For each values of DRVAL1 or DRVAL2 (except the shallowest and the deepest found in the ENC) of DEPCNT feature objects of geometric primitive area which is not Equal to a value of VALDCO on DEPCNT feature objects found in the ENC.	The value of DRVAL1 (or DRVAL2) is different of one of the values of VALDCO found in the ENC.	Amend value of DRVAL1(or DRVAL2) so that it equals a value of VALDCO.	Logical consistency	W	Deleted: type Deleted: are Deleted: e Deleted: s

45a	For each <u>feature</u> object of <u>geometric primitive</u> line which shares an edge with another <u>feature</u> object of the same class of <u>geometric primitive</u> line where the <u>feature</u> object is not one of the following BERTHS, CBLOHD, CBLSUB, CONVYR, DWRTCL, FERYRT, MARCUL, MORFAC, NAVLNE, PIPSOL, RCRTCL, RECTRC.	Coincident line objects of the same class.	Delete coincident object.	Logical consistency	W	Deleted: type
45b	For each <u>feature</u> object of <u>geometric primitive</u> line which shares an edge with another <u>feature</u> object of the same class and attribute values of type line where the object is one of the following BERTHS, CBLOHD, CBLSUB, CONVYR, DWRTCL, FERYRT, MARCUL, MORFAC, NAVLNE, PIPSOL, RCRTCL, RECTRC.	Coincident line objects of the same class and attribute values.	Delete coincident object.	Logical consistency	W	Deleted: type
46	For each <u>feature</u> object where DATEND and DATSTA are notNull <u>AND</u> DATEND is <u>Less</u> than or equal to DATSTA.	DATEND less than DATSTA.	Amend values of DATEND or DATSTA accordingly.	Logical consistency	E	Deleted: less
47a	For each LIGHTS or RTPBCN <u>feature</u> object where SECTR1 is notNull and SECTR2 is <u>Null</u> <u>OR</u> is <u>Equal</u> to SECTR1. (0 and 360 must be treated as the same value.)	SECTR2 not populated with a valid value, must not be the same as SECTR1.	Populate SECTR2 with a valid value.	Logical consistency	E	Deleted: n Deleted: or Deleted: e
47b	For each LIGHTS, RTPBCN <u>feature</u> object where SECTR2 is notNull and SECTR1 is <u>Null</u> <u>OR</u> <u>Equal</u> to SECTR2. (0 and 360 must be treated as the same value.)	SECTR1 not populated with a valid value, must not be the same as SECTR2.	Populate SECTR1 with a valid value.	Logical consistency	E	Deleted: or Deleted: Deleted: n Deleted: or Deleted: e
48	For each M_SREL <u>meta</u> object where SCVAL1 and SCVAL2 are notNull AND SCVAL2 is less than SCVAL1.	SCVAL2 is less than SCVAL1.	Amend values of SCVAL1 <u>or</u> SCVAL2 <u>accordingly</u> . <u>The</u> value of SCVAL2 must be greater than SCVAL1.	Logical consistency	E	Deleted: /2 Deleted:

49	For each <u>feature</u> object where DRVAL1 AND DRVAL2 are notNull AND DRVAL2 is less than DRVAL1.	DRVAL2 is less than DRVAL 1, DRVAL 2 must be greater than or equal to DRVAL1.	Amend the values of DRVAL1 or DRVAL2 as required.	Logical consistency	E	
50	For each RECTRC <u>feature object of geometric primitive line</u> where CATTRK is Equal to 1 (based on a system of fixed marks) OR NAVLNE <u>feature object</u> where its nodes/vertices do not lie on a straight line.	RECTRC where CATTRK = 1 (based on a system of fixed marks) or NAVLNE is not a straight line.	Amend geometry to a straight line.	Logical consistency		Deleted: E Deleted: = Deleted: = Deleted: or
51a	For each COALNE <u>feature object</u> which is COINCIDENT with a SLCONS <u>feature object of geometric primitive line</u> .	COALNE and SLCONS objects share an edge.	Amend objects so that they do not share an edge.	Logical consistency	W	Deleted: type
51b	For each COALNE <u>feature object</u> which is COINCIDENT with a SLCONS <u>feature object of geometric primitive area</u> where WATLEV is Equal to 1 (partly submerged at high water) OR 2 (always dry) that is WITHIN an area LNDARE.	COALNE and SLCONS with illogical values of WATLEV overlap.	Amend objects so that they do not overlap or amend WATLEV values.	Logical consistency	W	Deleted: type Deleted: Deleted: is Deleted: not populated or encoded with the values (2) [Deleted:] Deleted: or (1) [partly submerged at high water] Deleted: type Deleted: type
52a	For each LNDELV <u>feature object of geometric primitive line</u> which is not WITHIN a LNDARE <u>feature object of geometric primitive area</u>	Linear LNDELV object not situated on area LNDARE	Ensure linear LNDELV object is situated on a LNDARE.	Appendix B1, Annex A (4.7.2, 4.7.4, 6.1.1 and 6.2.1).		Deleted: type
52b	For each LNDELV <u>feature object of geometric primitive point</u> which is not WITHIN a LNDARE <u>feature object of geometric primitive area</u> AND does not touch a LNDARE <u>feature object of geometric primitive line</u> or point AND is not WITHIN a WRECK object of <u>geometric primitive area</u> where WATLEV is Equal to 1 (partly submerged at high water) OR 2 (always dry).	LNDELV object not situated on LNDARE or on a drying or partially submerged WRECKS object.	Ensure LNDELV object is situated on a LNDARE or on a drying/partially submerged WRECKS object.	Appendix B1, Annex A (4.7.2, 4.7.4, 6.1.1 and 6.2.1).	E	Deleted: type Deleted: type Deleted: type Deleted: type Deleted: type Deleted: which Deleted: is always dry Deleted: = Deleted: 2
53a	For each SLOGRD <u>feature object</u> which is not WITHIN a LNDARE <u>feature object of geometric primitive area</u> .	SLOGRD not covered by LNDARE.	Amend LNDARE or SLOGRD accordingly.	Appendix B1, Annex A (4.7.4, 4.7.5, 4.8.4)		Deleted: or partially submerged WATLEV= Deleted: 1 Deleted: within Deleted: type

53b	For each SLOTOP <u>feature</u> object which is not <u>WITHIN</u> a LNDARE <u>feature</u> object of <u>geometric primitive</u> area.	SLOTOP not covered by LNDARE.	Amend LNDARE or SLOTOP accordingly.	Appendix B1, Annex A (4.7.4, 4.7.5, 4.8.4)	E	Deleted: within
						Deleted: type
54a	For each CRANES, FORSTC, LNDMRK or SILTNK <u>feature</u> object of <u>geometric primitive</u> area that is not WITHIN a LNDARE, BRIDGE, FLODOC, OFSPLF or PONTON <u>feature</u> object of <u>geometric primitive</u> area.	CRANES, FORSTC, LNDMRK or SILTNK not <u>WITHIN</u> a LNDARE, BRIDGE, FLODOC, OFSPLF or PONTON.	Amend object to ensure it is situated on a suitable object.	Logical consistency	C	Deleted: within
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54b	For each CRANES, FORSTC, LNDMRK, DAYMAR or SILTNK <u>feature</u> object of <u>geometric primitive</u> point that is not WITHIN a LNDARE, BRIDGE, FLODOC, OFSPLF or PONTON <u>feature</u> object of <u>geometric primitive</u> area OR it does not EQUAL a LNDARE, PILPNT, PYLONS, OFSPLF, SLCONS or UWTROC <u>feature object</u> of <u>geometric primitive</u> point OR it is not COINCIDENT with a COALNE, DAMCON, BRIDGE, FLODOC, LNDARE, PONTON or SLCONS <u>feature object</u> of <u>geometric primitive</u> line.	CRANES, FORSTC, LNDMRK, DAYMAR or SILTNK not situated on a suitable supporting object.	Amend object to ensure it is situated on a suitable object.	Logical consistency	C	Deleted: type
						Deleted: type
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54c	For each BUISGL feature object of geometric primitive area that is not WITHIN a LNDARE, BRIDGE, FLODOC, HRBFAC, OFSPLF, or PONTON feature object of geometric primitive area OR for each BUISGL feature object of geometric primitive point that is not WITHIN a LNDARE, BRIDGE, FLODOC, OFSPLF or PONTON feature object of geometric primitive area OR it does not EQUAL a LNDARE, PILPNT, PYLONS, OFSPLF, SLCONS or UWTROC feature object of geometric primitive point OR it is not COINCIDENT with a COALNE, DAMCON, BRIDGE, FLODOC, LNDARE, PONTON or SLCONS feature object of geometric primitive line.	BUISGL not situated on a suitable supporting object	Amend object to ensure it is situated on a suitable object.	Logical consistency	W	Deleted: type
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55	For each LNDARE feature object of geometric primitive point or line which is WITHIN a LNDARE feature object of geometric primitive area AND is not WITHIN a LAKARE, RIVERS, DOCARE, LOKBSN or CANALS feature object of geometric primitive area.	Point LNDARE lies on land.	Amend point LNDARE or area LNDARE accordingly.	Logical consistency	W	Deleted: type
						Deleted: type
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						Deleted: object
						Deleted: or
						Deleted: or
56	For each BUAARE feature object not WITHIN a LNDARE feature object of geometric primitive area OR which is COINCIDENT with a LNDARE feature object of geometric primitive point or line.	BUAARE not located on LNDARE.	Amend BUAARE so that it sits on LNDARE.	Logical consistency		Deleted: or
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57a	For each COALNE feature object which is not COINCIDENT with a LNDARE feature object AND is not WITHIN a LNDARE feature object of geometric primitive area.	COALNE object not bounding LNDARE	Ensure that COALNE coincides LNDARE boundary.	Logical consistency UOC.4.5	E	Deleted: type

57b	For each COALNE <u>feature</u> object which is WITHIN a LNDARE <u>feature</u> object of <u>geometric primitive</u> area, <u>OR</u> is COINCIDENT with LNDARE <u>feature</u> objects on both sides AND is COINCIDENT with a SLCONS or DRYDOC <u>feature</u> object where CONDTN <u>is Not equal to</u> 1 (under construction), <u>OR</u> 3 (under reclamation), <u>OR</u> 5 (planned construction).	COALNE is inside LNDARE coincident with permanent SLCONS or DRYDOC object.	Remove COALNE or amend CONDTN values.	Logical consistency. UOC.4.6.10	E
					Deleted: type
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57c	For each COALNE <u>feature</u> object which is COINCIDENT with LNDARE <u>feature</u> objects on both sides <u>where not</u> one of them has CONDTN <u>is Equal to</u> 1 (under construction), <u>OR</u> 3 (under reclamation), <u>OR</u> 5 (planned construction).	COALNE is COINCIDENT with LNDARE objects on both sides	Remove COALNE or amend CONDTN values.	Logical consistency. UOC.4.6.10	Deleted: or
					Deleted: (
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					Deleted: NOT
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58	For each SBDARE <u>feature</u> object of <u>geometric primitive</u> line which is COINCIDENT with a SBDARE <u>feature</u> object of <u>geometric primitive</u> area.	Line SBDARE bounds an area SBDARE.	Delete line SBDARE.	Logical consistency	Deleted: or
					Deleted: (
					Deleted:)
					Deleted: or
					Deleted: (
59	For each OBSTRN <u>feature</u> object of <u>geometric primitive</u> line which is COINCIDENT with an OBSTRN <u>feature</u> object of <u>geometric primitive</u> area.	Line OBSTRN bounds an area OBSTRN.	Amend or delete OBSTRN of type line.	Logical consistency	Deleted:)
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					Deleted: n
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60	For each CBLSUB <u>feature</u> object <u>that</u> INTERSECTS, <u>OR</u> <u>is WITHIN</u> a LNDARE <u>feature</u> object of <u>geometric primitive</u> area.	CBLSUB lies on land.	Amend CBLSUB object accordingly.	Logical consistency	Deleted: type
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61a	For each object of <u>geometric primitive</u> line or area where WATLEV <u>is</u> <u>Equal to</u> 3 (always underwater/submerged) which OVERLAPS, <u>OR</u> <u>is</u> WITHIN an inter-tidal area (DEPARE <u>feature</u> object <u>where</u> DRVAL2 <u>is Less than or equal to</u> 0) <u>OR</u> <u>WITHIN</u> a LNDARE <u>feature</u> object of type area.	Line or area object which is WATLEV = 3 (always underwater/submerged) lies within or overlapping an inter-tidal area (DEPARE with DRVAL2 ≤ 0) or land area.	Amend value of WATLEV.	Logical consistency	Deleted: A
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61b	For each object of <u>geometric primitive</u> point where WATLEV <u>is Equal to</u> 3 <u>(always underwater/submerged)</u> which is WITHIN an inter-tidal (DEPARE <u>feature object</u> where <u>DRVAL2 is Less than or equal to</u> 0) area OR is WITHIN a LNDARE <u>feature object</u> of <u>geometric primitive</u> area OR EQUALS a LNDARE <u>feature object</u> of <u>geometric primitive</u> point OR is situated on a LNDARE <u>feature object</u> of <u>geometric primitive</u> line.	Point object which is WATLEV = 3 <u>(always underwater/submerged)</u> lies within an inter-tidal area (DEPARE with DRVAL2 ≤ 0) or is within or coincident with a land area object.	Amend value of WATLEV.	Logical consistency	E <ul style="list-style-type: none"> Deleted: type Deleted: = Deleted: [Deleted: [Deleted:] Deleted:] Deleted: ith Deleted: ≤ Formatted: Font: (Default) Arial Deleted: type Deleted: type Deleted: or
62	For each PONTON, HULKES or FLODOC <u>feature object</u> of <u>geometric primitive</u> area where any edge shares the geometry of a COALNE or SLCONS <u>feature object</u> of <u>geometric primitive line</u> AND the edge does not also share the geometry of a LNDARE <u>feature object</u> of <u>geometric primitive</u> area.	PONTON, HULKES or FLODOC which uses an SLCONS or COALNE edge which is not on the edge of LNDARE.	Ensure all SLCONS or COALNE objects are backed by LNDARE objects.	Logical consistency	<ul style="list-style-type: none"> Deleted: type Deleted: type Deleted: line Deleted: type
63	For each RECTRC <u>feature object</u> which INTERSECTS LNDARE, PONTON, HULKES, FLODOC <u>feature objects of geometric primitive line or area</u> OR any <u>feature object</u> where WATLEV <u>is Equal to</u> 1 <u>(partly submerged at high water)</u> OR 2 <u>(always dry)</u> .	RECTRC intersects prohibited objects.	Amend RECTRC or other objects to ensure RECTRC is within navigable objects.	Logical consistency	E <ul style="list-style-type: none"> Deleted: line or area objects of the following types Deleted: = Deleted: [Deleted:]
64	For each ACHARE <u>feature object</u> of <u>geometric primitive</u> point or area where CATACH <u>is Not equal to</u> 8 <u>(small craft mooring area)</u> which OVERLAPS another <u>feature object</u> where RESTRN includes the value 1 <u>(anchoring prohibited)</u> .	ACHARE object within an area with RESTRN = 1 <u>(anchoring prohibited)</u> .	Amend ACHARE object or object carrying RESTRN <u>= 1</u> .	Logical consistency	<ul style="list-style-type: none"> Deleted: or Deleted: [Deleted:] Deleted: type Deleted: = Deleted: does not equal Deleted: [Deleted: [Deleted:] Deleted:] Deleted: [Deleted:]

65	For each LIGHTS feature object which EQUALS another LIGHTS feature object AND STATUS is Not equal to 4 (not in use) OR 6 (reserved) OR 11 (extinguished) where sectors overlap AND none of the values of the following attributes are different CATLIT, EXCLIT, LITCHR, SIGPER or SIGGRP.	Coincident lights with overlapping sectors and the same characteristics.	Modify light sectors so that they do not overlap, or delete duplicated sectors.	Logical consistency	Deleted: does not equal Deleted: [Deleted:] Deleted: , Deleted: [Deleted:] Deleted: or Deleted: [Deleted:] Formatted Table ... [1]
66	Check removed.				Deleted: For each SOL ... [2]
67	For each feature object where its object class, attribution and geometry is identical to another object.	Duplicate object exists.	Delete duplicate object.	Data structure	Deleted: Sounding out ... [3] Deleted: Amend depth ... [4] Deleted: Logical consistency Deleted: W
68	Check renumbered 100Z.				Formatted Table ... [5]
69	Check removed.				Deleted: For each obje ... [6]
70a	For each DEPRE feature object of geometric primitive line which does not EQUAL a Group 1 boundary.	Hanging' linear depth area of type line.	Delete 'hanging' linear DEPRE.	Logical consistency	Deleted: c Deleted: 1 Deleted: Text or graphi ... [7]
70b	For each DEPRE feature objects of geometric primitive line.	DEPRE of type line exit in the ENC	Delete linear DEPRE as no longer required in ENC.	Logical consistency	Deleted: Add text or gra ... [8] Deleted: - Deleted: G
71a	For each feature object of geometric primitive area where all edges have not USAG Equal to 3 (exterior boundary truncated by the data limit) AND all edges are masked (i.e. USAG is Equal to 3 OR MASK is Equal to 1 (mask)).	Area object has all of its edges masked and is not the edge of the data coverage.	Remove masking.	Logical consistency	Deleted: For each obje ... [9] Deleted: Invalid agency code. Deleted: Amend Agen ... [10] Deleted: Appendix A, ... [11] Deleted: W Deleted: type Deleted: type
71b	For each feature object of type line which has any edges masked (i.e. MASK is Equal to 1 (mask).	Line object with masked edges.	Remove masking from line object,	Logical consistency	Deleted: type Deleted: = Deleted: [Deleted:] Deleted: = Deleted: or
72	For each set of hierarchical relationships which form a loop (e.g. master object is slave of its own slave).	Relationships form a loop.	Amend relationships to remove loop.	Logical consistency	Deleted: = Deleted: [Deleted:] Deleted: = Deleted: or
73a	For each attribute value which contains a leading or trailing space.	Attribute value contains leading or trailing spaces.	Remove leading or trailing spaces.	Logical consistency	Deleted: = Deleted: [Deleted:] Deleted:] Deleted: = Deleted: [Deleted:] Deleted: no
73b	For each attribute value of type list which contains spaces.	List attribute value contains spaces.	Remove spaces.	Logical consistency	

74	For each DEPCNT <u>feature</u> object which does not share an edge with a Group 1 <u>feature</u> object AND is WITHIN a <u>DEPARE feature object of geometric primitive area where DRVAL1 AND DRVAL2 is notNull AND VALDCO is Less than DRVAL1 OR Greater than DRVAL2</u>	Floating DEPCNT within a DEPARE with VALDCO less than DRVAL1 or greater than DRVAL2.	Amend floating contour VALDCO between DRVAL1 and DRVAL2 of the underlying DEPARE.	Logical consistency	C	Deleted: n area Deleted: with Deleted: equal to Deleted: DRVAL2 <= VALDCO <= DRVAL1.
75	For each DEPCNT <u>feature</u> object which does not share an edge with a Group 1 <u>feature</u> object AND is WITHIN a <u>DRGARE feature object of geometric primitive area where DRVAL1 is notNull AND VALDCO is Less than DRVAL1</u>	Floating DEPCNT within a DRGARE with VALDCO less than DRVAL1 of the DRGARE.	Amend floating contour VALDCO to be greater than the DRVAL1 of the underlying DRGARE. Or amend DRVAL1 of the DRGARE.	Logical consistency	C	Deleted: n area Deleted: with Deleted: equal to
76	For each DEPCNT <u>feature</u> object <u>that INTERSECTS, OR is WITHIN</u> a FLODOC, HULKES, LNDARE or PONTON <u>feature</u> object of <u>geometric primitive area</u> .	DEPCNT intersects prohibited objects.	Amend DEPCNT to be WITHIN appropriate objects.	Logical consistency		Deleted: <= Deleted:
77	For each <u>DEPCNT feature</u> object which crosses another <u>DEPCNT feature</u> object.	DEPCNT objects cross.	Amend DEPCNT objects so they do not cross.	Logical consistency		Deleted: type Deleted: A Deleted: of type DEPCNT Deleted: of type DEPCNT
78	For each <u>feature</u> object of <u>geometric primitive area</u> where its boundary CROSSES itself.	Boundary of an area object crosses itself.	Amend boundary to remove part which crosses itself.	Logical consistency		Deleted: area
79	<u>For each feature object of geometric primitive line where a component edge CROSSES another component edge without a connected node at the crossing point.</u>	Component edges of a line object cross without a connected node at the crossing point.	Insert connected node at crossing point.	Topology	E	Deleted: For each line object where component edges CROSSES without a connected node at the crossing point Deleted: area Deleted: area
80a	For each <u>feature</u> object of <u>geometric primitive area</u> where an internal boundary is WITHIN an internal boundary.	Internal boundary within an internal boundary.	Amend boundaries so that internal boundary is not within another internal boundary.	Topology		
80b	For each <u>feature</u> object of <u>geometric primitive area</u> where an internal boundary is not WITHIN an external boundary.	Internal boundary outside of an external boundary.	Amend boundaries so that internal boundary is within external boundary.	Topology		

80c	For each feature <u>object of geometric primitive area</u> where an external boundary is WITHIN an internal boundary.	External boundary within an internal boundary.	Amend boundaries so that internal boundary is within external boundary.	Topology	Deleted: area
81	For each SOUNDG feature object which is COINCIDENT <u>with</u> another SOUNDG feature object. (COINCIDENT applies to the horizontal component only).	SOUNDG objects are coincident.	Delete coincident sounding .	Topology	E Deleted: SOUNDG ... [12]
82	For each feature <u>object of geometric primitive</u> line or area which references the same edge more than once.	Object references the same edge more than once.	Remove duplicate reference to the edge.	Topology	C Deleted: type
83	For each node which is COINCIDENT with another node (connected or isolated).	Nodes are coincident.	Delete or amend coincident node.	Topology	W Deleted: s
84a	For each node which is physically isolated and <u>is</u> marked as connected.	Isolated node marked as connected.	Amend to isolated.	Part 3 (2.2.1)	C
84b	For each node which is not physically isolated and <u>is</u> marked as isolated.	Connected node marked as isolated.	Amend to connected.	Part 3 (2.2.1)	C
85	Check renumbered 1008				Formatted Table
86	For each feature object of geometric primitive point which references more than one vector record.	Point feature references more than one vector record.	Delete references to additional vector records.	Part 3 (4.7.1)	Deleted: For each update (ER) file where an AGEN subfield value (In DSID and FQID fields) is not identical to the AGEN subfield values in the base (EN) file. Moved to section 2.3 a ... [13]
87	For each edge with coincident consecutive vertices.	Consecutive vertices are coincident.	Remove coincident vertices from edge.	Part 3 (4.7.2)	Deleted: record ... type ... [14]
88a	For each feature object of geometric primitive area where ORNT is <u>Not</u> equal to 1 (forward) <u>OR</u> 2 (reverse).	ORNT is not set to forward or reverse.	Amend ORNT to a valid value.	Part 3 (4.7.3)	Deleted: vertice...s ... [15] Deleted: area ...n...[...].or ... [16]
88b	For each feature object of geometric primitive area where USAG is <u>Not</u> equal to 1 (exterior) <u>OR</u> 2 (interior) <u>OR</u> 3 (exterior boundary truncated by the data limit).	USAG is not set to exterior, interior or exterior boundary truncated by the data limit.	Amend USAG to a valid value.	Part 3 (4.7.3)	Deleted: area n...[...].,...[...].or ... [17]
88c	For each feature object of geometric primitive area where MASK is <u>Not</u> equal to 1 (mask) <u>OR</u> 2 (show) <u>OR</u> 255 (masking is not relevant).	MASK is not set to mask, show or masking is not relevant.	Amend MASK to a valid value.	Part 3 (4.7.3)	Deleted: area n...[...].,...[...].or ... [18]

89a	For each master object which references the same slave more than once.	Master object references the same slave more than once.	Remove duplicate reference to slave object.	Part 3 (6.3); Appendix B.1 (3.9) & Appendix B.1 Annex A 12.1.2	Deleted: a Deleted: Invalid DDR (Data Descriptive Record) in catalogue file.
89b	For each slave object which is referenced by more than one master object.	Slave object has more than one master.	Remove incorrect master from slave object.	Part 3 (6.3); Appendix B.1 (3.9) & Appendix B.1 Annex A 12.1.2	Deleted: Correct DDR (Data Descriptive Record). Formatted Table Deleted: For a catalogue file where the DDR (Data Descriptive Record) does not contain only the descri... [19]
90a	Check renumbered 1009				Formatted ... [20] Formatted: Font: Italic Deleted: Part 3 (7.3) a ... [21] Formatted ... [22]
90b	For an EN file where the DDR (Data Descriptive Record) does not contain only the description of the base cell file structure.	Invalid DDR (Data Descriptive Record) in EN file.	Correct DDR (Data Descriptive Record).	Part 3 (7) and Part 3 (A.2)	Deleted: 3 Deleted: W Formatted Table Deleted: For each FR... [23]
90c	For an ER file where the DDR (Data Descriptive Record) does not contain only the description of the update cell file structure.	Invalid DDR (Data Descriptive Record) in ER file.	Correct DDR (Data Descriptive Record).	Part 3 (7) and Part 3 (A.2)	Deleted: c Deleted: 04 Deleted: FOIDS do not ... [24] Deleted: Correct FOI... [25] Deleted: Part 3 (8.4.2)
91	For each attribute value of type 'float' where the number of digits in the integer part is greater than the number of digits given in the format statement (e.g. XX.X).	Incorrect number of digits for value of float attribute.	Amend the value to conform to the format statement.	Part 3 (7.2.2.1); (7.3) and Appendix A, Chapter 2.	Deleted: C Deleted: = Deleted: [Deleted:] Deleted: or Deleted: [Deleted:] Deleted: of type line c... [26] Deleted: type Deleted: = Deleted: [Deleted:] Deleted: or Deleted: [Deleted:] Deleted: of type point Deleted: type Deleted: or Deleted: type Deleted: or Deleted: type
92	Check renumbered 1010				
93a	For each feature object of geometric primitive line or area where WATLEV is Equal to 4 (covers and uncovers) OR 5 (awash) AND OVERLAPS a LNDARE feature object of geometric primitive area.	Object with WATLEV 4 or 5 on a LNDARE object.	Amend LNDARE object to ensure object is within inter-tidal zone.	Logical consistency	
93b	For each feature object of geometric primitive point where WATLEV is Equal to 4 (covers and uncovers) OR 5 (awash) which OVERLAPS a LNDARE feature object of geometric primitive area OR EQUALS a LNDARE feature object of geometric primitive point OR is COINCIDENT with a LNDARE feature object of geometric primitive line.	Object with WATLEV 4 or 5 on a LNDARE object.	Amend LNDARE object to ensure object is within inter-tidal zone.	Logical consistency	

94	For each ER file which contains instructions for the FSPC (<u>Feature Record to Spatial Record Pointer Control</u>) field to modify an FSPT (<u>Feature Record to Spatial Record Pointer</u>) field of a feature object to a value it already contains.	Update (ER) file contains instructions to modify an FSPT field to a value it already contains.	Remove pointless FSPC field from update (ER) file.	Logical consistency	E	
95	If the COMT subfield of the DSID (<u>Data Set Identification</u>) and DSPM (<u>Data Set Parameter</u>) fields contains text which is not lexical level (0).	COMT subfield contains text which is not lexical level (0).	Amend text to conform to lexical level (0).	Part 3 (2.4)	E	Deleted: I
96	For each relationship which does not reference an object of type C_ASSO OR C_AGGR and the RIND (<u>Relationship Indicator</u>) subfield of the FFPT (<u>Feature Record to Feature object Pointer</u>) field set to 3 (<u>peer</u>).	Relationship indicator has an incorrect value for a master slave relationship.	Amend the relationship indicator to <u>1 (master) or 2 (master) as appropriate</u> .	Part 3 (6.2) and Appendix B.1 (3.9)	E	Deleted: (3 Deleted:) Deleted: [Deleted: peer] Deleted: [RIND] Deleted: [FFPT]
97	For each <u>feature</u> object where SUREND and SURSTA are notNull SUREND is less than SURSTA.	SUREND less than SURSTA.	Amend values of SUREND or SURSTA accordingly.	Logical consistency		Deleted: (Deleted:) Deleted: [Deleted:]
98	For each <u>feature</u> object which has a relationship AND references an object which does not exist.	Object references an object that does not exist	Remove reference to non-existent object	Logical consistency.	E	

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Page 13: [2] Deleted For each SOUNDG where EXPSON = (1) or is not populated AND the depth value is less than DRVAL1 of the underlying DEPADE or DRGARE OR the depth value is greater than or equal to the DRVAL2 of underlying DEPADE or DRGARE.	fowler	1/7/2015 11:07 AM
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Page 13: [10] Deleted Amend Agency code to valid value.	fowler	1/7/2015 11:08 AM
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Page 15: [13] Deleted For each update (ER) file where an AGEN subfield value (In DSID and FOID fields) is not identical to the AGEN subfield values in the base (EN) file. Moved to section 2.3 as	fowler	1/6/2015 12:34 PM
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For each FRID field in an update (ER) file where RUIN = 3 [modify] and the FOID for the modified object is not identical in the base (EN) and update (ER) files. Moved to section 2.3 as		
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FOIDS do not match for a modify update between update ER and base EN files.		
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Correct FOIDS to be identical or make separate insert and delete updates.		
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of type line or area which is WITHIN or		