

2.2 Checks relating to ENC Product Specification

No	Check description	Check message	Check solution	Conformity to:	Cat
500	For each feature object where its geometry is not within an M_COVR meta object where CATCOV is Equal to 1 (coverage available) .	Objects fall outside the coverage object.	Ensure objects are not outside of the limits of the cell.	2.2	C
					Deleted: ;
					Deleted: =
501	If the combined coverage of all M_COVR meta objects limits are not rectangular	Cell is not rectangular.	Amend cell limits to make them rectangular.	2.2	E
					Deleted:
					Deleted:
502	If the cell file size is greater than 5 megabytes.	The cell is larger than 5Mb in size.	Ensure that the cell is not larger than 5Mb.	2.2	E
503	For each feature object If the FOID is not unique within this dataset.	Duplicate FOIDs exist within the dataset.	Ensure that no duplicate FOIDs exist.	3.1	W
504	For each CANBNK, LAKSHR, RIVBNK SQUARE, M_HDAT, M_PROD, M_UNIT, C_STAC, \$AREAS, \$LINES, \$CSYMB,\$COMPS, \$TEXTS feature object .	Prohibited objects exist within the dataset.	Delete prohibited objects.	3.2	
					Deleted: object of type
505	If any of the following meta objects M_COVR, M_NSYS OR M_QUAL do not exist within the data set.	Mandatory feature objects are missing.	Include mandatory feature objects M_COVR, M_NSYS and M_QUAL.	3.4	
					Deleted: meta
					Deleted: of type
					Deleted: ;
					Deleted: meta
506	If mandatory subfields in EN and ER files are NULL	Mandatory subfields do not contain a value .	Populate mandatory subfields .	6.1.4	
					Deleted: subfield
					Deleted: sub field
507	If any mandatory attributes are not populated.	Mandatory attributes are not populated	Populate mandatory attributes.	3.5.2 and SuppNo2 Ch.4 (3.5.2.1)	
					Deleted: 3.5.1 and Part 3 (2.1)
					Deleted: are not populated
508a	For each feature object where more than one value of COLOUR is encoded AND COLPAT does not contain a value OR is NULL .	COLOUR has multiple values without a value for COLPAT.	Ensure COLPAT has a value where multiple COLOUR values are encoded.	3.5.2 Logical consistency	
					Deleted: sub field
					Deleted: are
					Deleted: that
					Deleted: is 'Null'
508b	For each feature object where COLPAT is 'notNull' AND COLOUR is 'Null' OR only has one value.	COLPAT is populated without multiple COLOUR values.	Ensure multiple COLOUR values are populated or delete COLPAT value.	3.5.2 Logical consistency	
					Deleted: .
					Deleted:
					Deleted: that

509	<p>For all feature objects listed below where the attribute stated is 'Null'</p> <p>ARCSLN: NATION ASLXIS: NATION CTNARE: INFORM or TXTDSC DEPARE: DRVAL1 and DRVAL2 DRGARE: DRVAL1 NEWOBJ: CLSDEF and CLSNAM SWPARE: DRVAL1 DEPCNT: VALDCO LNDELV: ELEVAT MAGVAR: VALMAG CONZNE: NATION COSARE: NATION CUSZNE: NATION EXEZNE: NATION FSHZNE: NATION STSLNE: NATION TESARE: NATION M_COVR: CATCOV M_C_SCL: CSCALE M_QUAL: CATZOC M_SDAT: VERDAT M_VDAT: VERDAT TS_PAD: TS_TSP DWRTPPT: ORIENT DWRCTL: ORIENT M_NSYS: MARSYS or ORIENT RCTLPT: ORIENT</p>	Mandatory attribute has not been populated with a value.	Populate mandatory attributes; in these cases the object is meaningless without this value.	3.5.2 and Supplement No2 Ch.4 (3.5.2.1)	E
510	Check removed				Deleted: or 'not present';
511	<p>For each feature object where any of DUNITS, HUNITS, RECDAT, RECIND, SCAMAX, PUNITS, CATQUA are null OR notNull.</p>	Prohibited attributes have been encoded.	Delete prohibited attributes.	3.5.3	<p>Deleted: For all objects except M_HOPA where HORDAT is 'notNull' OR 'Null'</p> <p>Deleted: HORDAT is encoded on objects other than M_HOPA.</p> <p>Deleted: Delete value of HORDAT encoded on object other than M_HOPA.</p>
512	<p>For each feature object with an attribute of type Float or Integer where the value contains zeroes before the first numerical digit or after the last numerical digit.</p>	<p>Values have been padded with non-significant zeroes. E.g. : For a signal period of 2.5 sec, the value of SIGPER must be 2.5 and not 02.500</p>	Remove non-significant zeroes.	3.5.4	<p>Formatted Table</p> <p>Deleted: 3.5.3</p> <p>Deleted: E-</p> <p>Deleted: or</p> <p>Deleted: E.g. : For a signal period of 2.5 sec, the value of SIGPER must be 2.5 and not 02.500.</p>

513	For each <u>feature</u> object with an attribute value identical to <u>a</u> <u>corresponding attribute on a</u> meta object WITHIN which it is situated.	An attribute value given on a meta object is duplicated on a geo object.	Delete duplicate value from geo object.	3.5.6	Deleted: geo ...a the corresponding ... [1]
514	<u>Check removed.</u>				Deleted: For each \$AREAS,\$CLOLN,\$COMPS,\$CSYMB,\$LINES,\$SHABL,\$EXTS ... [2]
515	For all edges where USAG (Usage indicator) is Equal to 3 (exterior boundary, truncated by the data limit) AND MASK does not equal Null {255}.	Exterior edges truncated by the data limit are not masked.	MASK exterior edges truncated by the data limit.	3.8	Formatted Table Deleted: = ...[...]...255 ... [3]
516a	For all master <u>feature</u> objects of <u>geometric primitive</u> point which do not share the <u>geometry of the related</u> slave objects.	Master and slave point objects do not share the same node.	Ensure master and slave point objects share the same node.	3.9 and Appendix B1, Annex A (12.1.1 & 12.1.2)	E Deleted: type ...es...EQUAL linked in the same master/slave relationship ... [4]
516b	For all master <u>feature</u> objects of <u>geometric primitive</u> line where the slave object does not OVERLAP the master object.	<u>Slave object does not overlap the master line object</u>	Ensure the Master and Slave overlap.	3.9 and Appendix B1, Annex A (12.1.1 & 12.1.2)	Deleted: Master and slave line objects do not overlap. Deleted: type
516c	For all master <u>feature</u> objects of <u>geometric type</u> area where the slave object is not WITHIN <u>OR</u> TOUCHING the master object.	Slave object does not touch or fall within the master <u>area</u> object.	Ensure the Slave object touches or lies within the Master.	3.9 and Appendix B1, Annex A (12.1.1 & 12.1.2)	Deleted: of type area Deleted: type ... or ... [5]
517a	For a collection feature <u>object</u> which does not reference at least <u>two</u> feature objects.	Collection feature record does not reference <u>at least two</u> feature objects.	<u>Delete collection feature or ensure that it</u> references at least <u>two</u> feature objects.	3.9 and Appendix B1, Annex A (15), and Part 3 (6.2).	E Deleted: record ...1 ... [6] Deleted: E...collection feature record ...1 ... [7]
517b	For a collection feature <u>object</u> which references itself.	Collection feature <u>record</u> references itself.	Remove circular reference.	3.9 and Appendix B1, Annex A (15), and Part 3 (6.2)	Deleted: any Deleted: record
517c	For a collection feature <u>object</u> where the subfield PRIM is not Equal to Null {255} (no geometry).	Invalid value of geometric primitive subfield.	Amend PRIM subfield to Null {255} (no geometry).	3.9 and Appendix B1, Annex A (15), and Part 3 (6.2)	E Deleted: record...has a ... [8] Deleted:]
517d	<u>Check removed.</u>				Formatted Table
517e	For a collection feature <u>object</u> where the <u>RIND (Relationship indicator)</u> subfield is not 3 (peer) <u>OR</u> which references features where <u>the subfield RIND</u> is not 3 (peer).	Collection feature <u>object</u> which is peer references non-peer feature <u>objects</u> .	Amend feature <u>objects</u> to peer.	3.9 and Appendix B1, Annex A (15), and Part 3 (6.2).	Deleted: For a collection feature record which references another master feature: ... [9] Deleted: s Deleted: RNID ...[...]...or RNID ...[...] ... [10] Deleted: s

518a	For all <u>feature</u> objects FLODOC, DRGARE, LNDARE, HULKES, PONTON, DEPARE, UNSARE of <u>geometric primitive</u> area where the GRUP (Group) subfield of the FRID (Feature Record Identifier) is not equal to 1 (Group 1).	Skin of the earth objects are not encoded as Group 1.	Ensure that <u>the FRID subfield GRUP is set to 1 (Group 1) for all skin of the earth feature objects.</u>	3.10.1	<div>Deleted: Skin of the earth objects are encoded with Feature Record Identifier [...]...(1) [...] ... [11]</div> <div>Deleted: type ...O...[GRUP] [FRID]...(.)...[...] ... [12]</div>
518 b	For all <u>feature</u> objects <u>(excluding FLODOC, DRGARE, LNDARE, HULKES, PONTON, DEPARE, UNSARE)</u> of <u>geometric primitive</u> area, where the GRUP (Group) subfield of the FRID (Feature Record Identifier) is not equal to 2 (Group 2).	Group 2 objects are not encoded as Group 2.	Ensure that <u>the FRID subfield GRUP is set to 2 (Group 2) for all non skin of the earth feature objects.</u>	3.10.2	<div>Deleted: Group 2 objects are encoded with Feature Record Identifier [FRID] set to (1) [Group 1...]. ... [13]</div> <div>Deleted: excepttype O...[GRUP] ...[FRID] (...)...[...] ... [14]</div> <div>Deleted: g</div>
519a	For all <u>feature</u> objects FLODOC, DRGARE, LNDARE, HULKES, PONTON, DEPARE, UNSARE that their combined coverage EQUALS the data coverage M_COVR <u>is Equal to 1 (coverage available)</u>	Skin of the earth (TG1) objects do not cover the data coverage (M_COVR=1)	Adjust TG1 object limits to match data coverage.	3.10.1	C
519b	For all <u>feature</u> objects FLODOC, DRGARE, LNDARE, HULKES, PONTON, DEPARE, UNSARE that OVERLAP.	Skin of the earth (TG1) objects overlap.	Ensure TG1 objects do not overlap.	3.10.1	C
520a	If <u>the AALL (ATTF lexical level) subfield of the DSSI (Data Set Structure Information field)</u> is not encoded with <u>0 OR 1</u> .	DSSI-AALL is not encoded correctly.	Amend AALL <u>subfield.</u>	3.11 and 3.5.5	<div>Deleted: sub field</div> <div>Deleted: -AALL...(.) or (...) ... [15]</div>
520b	If <u>the NALL (NATF lexical level) subfield of the DSSI (Data Set Structure Information field)</u> is not encoded with <u>0 OR 1 OR 2</u> .	DSSI-NALL is not encoded correctly.	Amend NALL <u>subfield.</u>	3.11 and 3.5.5	<div>Deleted: sub field</div> <div>Deleted: DSSI-NALL ...(.) (...)...or...(.) ... [16]</div>
520e	<u>Check removed.</u>				
520d	If lexical level 2_ has been used anywhere other than the NATF field.	Lexical level 2 used outside of the NATF field. (Return character sets used and the sequence found)	Correct text to remove lexical level 2.	3.11 and 3.5.5	<div>Deleted: For each attribute NINFORM, NTXTDS or NPLDST which are notNull where INFORM, TXTDSC or PILDST are Null or Not populated: ... [17]</div> <div>Deleted: [...] ... [18]</div>

520e	If any ATTF (<u>Feature record attribute</u>) or NATF (<u>Feature record national attribute</u>) field contains characters of a lexical level greater than that in the DSSI -AALL/NALL subfields correspondingly.	Lexical level of characters in the attribute or encoding of DSSI-AALL/NALL is inconsistent.	Correct characters or the subfield encoding as required.	3.11 and 3.5.5	Deleted: For all national language attributes which are not encoded in the Feature Record National Attribute ... [19] Formatted Table Deleted: 3.11 and 3.5.5 Deleted: National language ... [20]
520f	If the UT or FT are not encoded at the lexical level specified for that field.	The UT and FT are not of the correct lexical level.	Correct UT and FT to the correct lexical level.	3.11 and 3.5.5	Deleted: Encoded national language ... [21] Deleted: E Deleted: For all feature ... [22]
520g	<u>Check removed.</u>				Deleted: Feature object ... [23]
520h	<u>Check removed.</u>				Deleted: Encode feature ... [24] Deleted: 3.11 and 3.5.5 Deleted: E Deleted: and Deleted: and
521a	For all <u>feature</u> objects where OBJNAM AND NOBJNM are 'notNull' AND that they are EQUAL	Values for OBJNAM and NOBJNM are identical.	Ensure that national language attributes are populated with the correct values.	3.11.1	Deleted: and Deleted: and
521b	For all <u>feature</u> objects where INFORM AND NINFOM are 'notNull' AND that they are EQUAL	Values for INFORM and NINFOM are identical.	Ensure that national language attributes are populated with the correct values.	3.11.1	Deleted: and Deleted: Object name ... [25] Deleted: Object name
521c	For all <u>feature</u> objects where PILDST AND NPLDST are 'notNull' AND that they are EQUAL	Values for PILDST and NPLDST are identical.	Ensure that national language attributes are populated with the correct values.	3.11.1	Deleted: e Deleted: present Deleted: Ensure
521d	For all <u>feature</u> objects where TXTDSC AND NTXTDS are 'notNull' AND that they are EQUAL	Values for TXTDSC and NTXTDS are identical.	Ensure that national language attributes are populated with the correct values.	3.11.1	Deleted: equals Deleted: does not equal Deleted: [
522	For all <u>feature</u> objects where NOBJNM is 'notNull' AND OBJNAM is 'Null' OR not <u>Present</u>	<u>NOBJNM</u> is populated without <u>OBJNAM</u> .	Populate Object name.	3.11.1	Deleted:] Deleted: Ensure Deleted: [
523	Where <u>the HDAT (Horizontal geodetic datum) subfield of the DSPM (Data Set Parameter field) is Not equal to 2 (WGS 84).</u>	HDAT does not equal 2 (WGS 84).	<u>Populate the HDAT subfield with 2 (WGS 84).</u>	4.1	Deleted:] Deleted: equals Deleted: [
524	Where <u>the DUNI (Units of Depth measurement) subfield of the DSPM (Data Set Parameter field) is Not equal to 1 (metres).</u>	DUNI does not equal 1 (metres).	<u>Populate the DUNI subfield with 1 (metres).</u>	4.4	Deleted:] Deleted:] Deleted: Ensure Deleted: [
525	Where <u>the PUNI (Units of positional accuracy) subfield of the DSPM (Data Set Parameter field) is Not equal to 1 (metres).</u>	PUNI does not equal 1 (metres).	<u>Populate the PUNI subfield to 1 (metres).</u>	4.4	Deleted:] Deleted: equals Deleted: [
					Deleted:] Deleted: does not equal Deleted: [

526	Where <u>the</u> COUN (Coordinate Units) subfield of the DSPM (Data Set Parameter field is Not equal to 1 (latitude/longitude).	COUN does not equal 1 latitude/longitude.	<u>Populate the</u> COUN subfield with <u>1</u> (latitude/longitude).	4.4	Deleted: Ensure ...eq (... [26]) Deleted: does not equ (... [27]) Deleted: For all attributes TXTDSC,NTXTDS,PICREP which are 'notNull' and referenced files do not exist or their names do not conform to the ENC Product Specification. Moved to section 2.3 a (... [28])
527	<u>Check renumbered 1011</u>				Deleted: If a catalogue file does not exist- Moved to section 2.3 as ...c... (... [29])
528	<u>Check renumbered 1012</u>				Deleted: If volume name is not in accordance with the ENC Product Specification. Moved to section 2.3 a (... [30])
529	<u>Check renumbered 1013</u>				Deleted: If the directory structure for physical media is not in accordance with the ENC Product Specification. An ENC_ROOT directory must exist in the first volume. Moved to section 2.3 as c...08 (... [31])
530	<u>Check renumbered 1014</u>				Deleted: If the text and graphic file names are NOT unique, OR NOT with extension (e.g. .TXT and .TIF). for new editions and re-issues. Moved to section 2.3 a (... [32])
531	If the file names are not in accordance with the ENC Product Specification.	File names are not in accordance with the ENC Product Specification.	Correct file names.	5.6.1, 5.6.2 and 5.6.3	Formatted Table
532	<u>Check renumbered 1015</u>				Deleted: DSID-
533	If the UADT (Update application date) subfield of the DSID (Data set identification field) is used in an ER file.	DSID-UADT subfield populated in an ER file.	Remove value of DSID-UADT subfield.	5.7	Deleted: =
534	If a delete cell message contains anything other than the DSID field with EDTN Equal to 0	Incorrect delete cell message.	Remove additional information from delete cell message.	5.7	Formatted Table
535	<u>Check renumbered 1016</u>				Formatted: Strikethrough
536	If a field without a repetition factor repeats.	Field without a repetition factor repeats.	Remove repeating value.	6.1.3	Deleted: If the CRC value in the catalogue file does not equal that in the dataset. Moved to section 2.3 a (... [33])
537	<u>Check renumbered 1017</u>				Formatted Table
538	<u>Check renumbered 1018</u>				Deleted: If the format of the catalogue file is not correct. Moved to section 2.3 a (... [34])
539	If DSID-PROF is Not equal to 1 (EN) OR 2 (ER).	DSID-PROF is not set to either 1 (EN) or 2 (ER).	Correct DSID-PROF.	6.3 and 6.4, Part 3 (7.3.1.1)	Deleted: If CATD-IMPL DOES NOT EQUAL "BIN" Moved to section 2.3 a (... [35])
540a	If mandatory records fields and subfields are not Present OR are Null.	Mandatory records, fields or subfields are not used.	Add mandatory records/values.	6.3 and 6.4	Deleted: OT...either (... [36]) Deleted: [...] (... [37])
540b	If prohibited records, fields or subfields are used.	Prohibited records, fields or subfields used.	Remove prohibited records/values.	6.3 and 6.4	Deleted: included... o (... [38]) Formatted Table
541a	<u>Check removed</u>				Deleted: For all objects of type LIGHTS If CATLIT is EQUAL TO 1 [Fixed] AND SIGGRP is encoded: (... [39])
541b	<u>Check removed</u>				Deleted: For all objects of type LIGHTS If CATLIT (... [40])

542	For <u>each LIGHTS feature</u> object <u>where</u> CATLIT is <u>Not equal to 1</u> (Fixed) <u>AND</u> where SIGGRP does not start and finish with a bracket.	SIGGRP is not formatted correctly.	Correct the formatting of SIGGRP.	Appendix A Ch.2 (code 141)	Deleted: all Deleted: s of type LIGHTS If Deleted: NOT Deleted: EQUAL TO Deleted: [Deleted:]
543	If any TS_TSP attribute value does not conform to the correct structure, (i.e. values <u>not</u> separated by commas).	TS_TSP value not formatted correctly.	Correct <u>the</u> formatting of TS_TSP value.	Appendix A Ch.2 (code 159)	
544	<u>For each feature</u> object <u>that</u> OVERLAPS <u>OR</u> is WITHIN an area of M_COVR <u>where</u> CATCOV is <u>Equal to 2</u> (no coverage available).	Object within an area of no coverage.	Remove object or amend coverage.	2.2	Deleted: If an Deleted: or Deleted: where Deleted: =
545	For each <u>feature</u> object which does not have a valid <u>feature</u> object class <u>label/code</u> as defined by the Object Catalogue and S-57 Supplement No 2.	Object has invalid object class code.	Correct object class code.	3.2 and Supplement No2 Ch.2	C Deleted: s
546	For each attribute which does not have a valid attribute <u>label/code</u> as defined by the Object Catalogue and S-57 Supplements No 2.	Attribute has invalid attribute <u>label/code</u> .	Correct attribute <u>label/class</u> .	3.2 and Supplement No2 Ch.3	C Deleted: class Deleted: code Deleted: class
547	For each <u>feature</u> object which contains attributes outside the list of permissible attributes for the object's class (as defined in the Object Catalogue and S-57 Supplement No 2 for the specified object).	Attribute not permitted on object class.	Remove attribute.	3.2 and Supplement No2 Ch.2	C
548	If the combined coverage of M_COVR <u>meta</u> objects <u>is</u> <u>Not</u> equal to the cell <u>extents</u> .	Cell not entirely covered by M_COVR objects.	Correct M_COVR coverage to match cell <u>extents</u> .	3.4	C Deleted: are Deleted: n Deleted: limits Deleted: limits Deleted: s Deleted: are
549	For each DEPART or DRGARE <u>feature</u> object, which <u>is</u> not WITHIN the combined coverage of M_QUAL <u>meta</u> objects.	DEPART or DRGARE objects not covered by an M_QUAL object.	Ensure full coverage of M_QUAL objects over DEPART or DRGAREs.	3.4	

550	For each UNSARE feature object which CONTAIN OR OVERLAP the following objects DEPCNT, OBSTRN, SOUNDG, UWTRC or WRECK and which is not WITHIN the combined coverage of M_QUAL meta objects.	UNSARE containing bathymetric features not completely covered by M_QUAL.	Ensure M_QUAL objects completely cover UNSARE objects	3.4	Deleted: or Deleted: Deleted: with Deleted: = Deleted: [Deleted:] Deleted: For each object where an attribute value added in S-57 Edition 3.1 has been encoded that INFORM has not been populated containing a description of the enumerate value.
551a	If text attribute values use (C0) characters (C0 as defined in S-57 Part 3, Annex B).	C0 characters used in text attribute values.	Correct text attribute values.	3.5.5 & Part 3 Annex B	Deleted: Attribute value added in S-57 Edition 3.1 does not have a description- ... [41] Deleted: Ensure that f ... [42]
551b	If the delete character is used outside of the update mechanism, (i.e. in records where RUIN is Equal to 3 (modify)).	Delete character used outside of the update mechanism.	Only use delete within the update mechanism.	3.5.5	Deleted: 3.5.7
552	Check removed.				Deleted: E Formatted Table Deleted: present Deleted: = Deleted: [Deleted:] Deleted: For a base c ... [43] Deleted: c Deleted: 18 Deleted: Limits in cate ... [44] Deleted: Amend limits ... [45] Deleted: 5.6.3, 6.2.2 a ... [46]
553	For each Group 1 feature object where any of DATSTA, DATEND, PERSTA, PEREND are Present and notNull.	Attributes DATSTA, DATEND, PERSTA or PEREND are encoded on Group 1 objects.	Delete these attributes from Group 1 objects.	3.10.1 and logical consistency	Deleted: C Formatted Table Deleted: For an updat ... [47] Deleted: c Deleted: 18 Deleted: Update with- ... [48] Deleted: Correct limits ... [49] Deleted: 5.6.3, 6.2.2 a ... [50]
554	For each edge referenced by only one M_COVR meta object with CATCOV is Equal to 1 (coverage available), that is also shared by more than one Group 1 feature object.	Edge of M_COVR coverage available referenced by more than one Group 1 object.	Ensure edges on the edge of data coverage only reference one Group 1 object.	3.10.1	Deleted: C Formatted Table Deleted: For an updat ... [47] Deleted: c Deleted: 18 Deleted: Update with- ... [48] Deleted: Correct limits ... [49] Deleted: 5.6.3, 6.2.2 a ... [50]
555	If the order of the data in a base or update file is not correct.	Incorrect data order.	Correct data order.	6.1.1	Deleted: C Formatted Table Deleted: For an updat ... [47] Deleted: c Deleted: 18 Deleted: Update with- ... [48] Deleted: Correct limits ... [49] Deleted: 5.6.3, 6.2.2 a ... [50]
556a	Check renumbered 1024a				Deleted: C Formatted Table Deleted: For an updat ... [47] Deleted: c Deleted: 18 Deleted: Update with- ... [48] Deleted: Correct limits ... [49] Deleted: 5.6.3, 6.2.2 a ... [50]
556b	Check renumbered 1024b				Deleted: C Formatted Table Deleted: For an updat ... [47] Deleted: c Deleted: 18 Deleted: Update with- ... [48] Deleted: Correct limits ... [49] Deleted: 5.6.3, 6.2.2 a ... [50]
557	For each SIGSEQ attribute value which does not conform to the correct structure (i.e. string content is not in accordance with format specification).	SIGSEQ attribute not formatted correctly.	Correct formatting of SIGSEQ attribute value.	Appendix A Ch.2 (code 143)	Deleted: n Deleted: ' Deleted: ' Deleted: n Deleted: ' Deleted: value of
558	For each feature object where SIGSEQ is notNull, and SIGPER is Not equal to the sum of the intervals of lit and eclipse given in SIGSEQ.	SIGPER does not correspond to SIGSEQ.	Ensure SIGPER corresponds to the sum of the intervals of lit and eclipse given in SIGSEQ.	Appendix A Ch.2 (code 143) and logical consistency	

559a	For all feature objects where STATUS includes the value 1 (permanent) in combination with at least one of 2 (occasional), 5 (periodic/intermittent), 7 (temporary);	Illogical combination of STATUS values.	Amend values for STATUS.	Appendix A Ch.2 (code 149) and logical consistency	E Deleted: =...[...]...with [...]...[...]... [...] [51]
559b	For all feature objects where STATUS includes the value 3 (recommended) in combination with at least one of 4 (not in use), 11 (extinguished);	Illogical combination of STATUS values.	Amend values for STATUS.	Appendix A Ch.2 (code 149) and logical consistency	E Deleted: =...[...]... [...] [52]
559c	For all feature objects where STATUS includes the value 4 (not in use) in combination with at least one of 5 (periodic/intermittent), 9 (mandatory);	Illogical combination of STATUS values.	Amend values for STATUS.	Appendix A Ch.2 (code 149) and logical consistency	E Deleted: =...[...]... [...] [53]
559d	For all feature objects where STATUS includes the value 5 (periodic/intermittent) in combination with 11 (extinguished);	Illogical combination of STATUS values.	Amend values for STATUS.	Appendix A Ch.2 (code 149) and logical consistency	E Deleted: =...[...]... [...] [54]
559e	For all feature objects where STATUS includes the value 9 (mandatory) in combination with 11 (extinguished);	Illogical combination of STATUS values.	Amend values for STATUS.	Appendix A Ch.2 (code 149) and logical consistency	E Deleted: =...[...]... [...] [55]
559f	For all feature objects where STATUS includes the value 16 (watched) in combination with 17 (unwatched);	Illogical combination of STATUS values.	Amend values for STATUS.	Appendix A Ch.2 (code 149) and logical consistency	E Deleted: =...[...]... [...] [56]
559g	For all feature objects where STATUS includes the value 8 (private) in combination with 14 (public);	Illogical combination of STATUS values.	Amend values for STATUS.	Appendix A Ch.2 (code 149) and logical consistency	E Deleted: =...[...]... [...] [57]
560a	For all feature objects with the same FOID where the object class and attribute values are not identical.	Objects with the same FOID do not have the same feature encoding	Ensure objects with the same FOID have the same object class and attribute values.	3.1	C Deleted: are not identical.
560b	For all feature objects with the same FOID where the geometric primitives are of type Point OR are not of the same geometric primitive.	Objects with the same FOID are of type point or have geometric primitives of a different type.	Ensure point objects do not have the same FOID and that line and area objects which share FOIDs are the same geometric primitive type.	3.1	Deleted: Deleted: have
564	Check removed.				Deleted: For all objects with identical FOIDs which are part of a collection object or master/slave relationships ... [58]

562	For all <u>NEWOBJ feature</u> objects where INFORM or TXTDSC does not <u>commence</u> the CLSNAM of the <u>feature object</u> .	<u>The text in INFORM or TXTDSC does not commence with the CLSNAM of the NEWOBJ feature object.</u>	<u>Ensure that the text in INFORM or TXTDSC commences with the CLSNAM of the NEWOBJ feature object.</u>	Supplement No2 Ch.4 (3.3.1) and Appendix B1, Annex A (16)	<p>Deleted: CLSNAM not included in INFORM or TXTDSC for a NEWOBJ object.</p> <p>Deleted: Populate</p> <p>Deleted: of type NEWOBJ</p>
563	<u>Check removed.</u>	<u>Check removed.</u>	<u>Check removed.</u>	<u>Check removed.</u>	Deleted: contain
564	<u>Check removed.</u>	<u>Check removed.</u>	<u>Check removed.</u>	<u>Check removed.</u>	Deleted: feature
565	<u>Check removed.</u>	<u>Check removed.</u>	<u>Check removed.</u>	<u>Check removed.</u>	<p>Deleted: New Object.</p> <p>Deleted: For all objects of type RESARE where CATREA = 27 or 28 AND INFORM or TXTDSC do not contain the meaning of the value.</p> <p>Deleted: Attribute values of RESARE used without their meaning in INFORM or TXTDSC.</p> <p>Deleted: Populate TXTDSC or INFORM with value meaning.</p> <p>Deleted: Supplement No1 Ch.4 (3.5.7.4)</p> <p>Deleted: E</p> <p>Formatted Table</p> <p>Deleted: For all objects of type ARCSLN, ASLXIS, NEWOBJ or RESARE with CATREA = 27 [Environmentally Sensitive Sea Area (ESSA)] or 28 [Particularly Sensitive Sea Area (PSSA)]. If the DSID subfield STED does not equal (03.1) OR PRED does not equal (2.0) OR COMT does</p> <p>Deleted: DSID subfields not correctly populated for a dataset containing new attribute values.</p> <p>Deleted: Correct DSID subfields STED (03.1) and PRED (2.0) and ensure COMT contains "STED:3.1.1,".</p> <p>Deleted: Supplement No1 Ch.4 (6.3.2.1 and 6.4.2.1)</p> <p>Deleted: E</p> <p>Deleted: For all update (ER) files being applied to a (... [59])</p> <p>Deleted: Values of STED or PRED are not correct.</p> <p>Deleted: Ensure that where the COMT field contain (... [60])</p> <p>Deleted: Supplement No1 Ch.4 (6.4.2.1)</p> <p>Deleted: E</p>

566	For each feature object with the attributes CLSDEF, CLSNAM and SYMINS not populated with exactly one of the following combinations:	Invalid use of NEWOBJ	Amend to reflect TSMAD guidance.	EB 54	E Deleted: Check that any Deleted: has Deleted: New Object.
	CLSDEF	CLSNAM	SYMINS		
	A Virtual object which indicates navigable water lies northwards	Virtual AtoN, North Cardinal	SY(BRTHNO01);SY(BCNCAR01);TX('V-AIS',3,2,2,'15110',2,0,CHMGD,11)	Formatted: Left	Formatted: Left
	A Virtual object which indicates navigable water lies eastwards	Virtual AtoN, East Cardinal	SY(BRTHNO01);SY(BCNCAR02);TX('V-AIS',3,2,2,'15110',2,0,CHMGD,11)	Formatted: Left	Formatted: Left
	A Virtual object which indicates navigable water lies southwards	Virtual AtoN, South Cardinal	SY(BRTHNO01);SY(BCNCAR03);TX('V-AIS',3,2,2,'15110',2,0,CHMGD,11)	Formatted: Left	Formatted: Left
	A Virtual object which indicates navigable water lies westwards	Virtual AtoN, West Cardinal	SY(BRTHNO01);SY(BCNCAR04);TX('V-AIS',3,2,2,'15110',2,0,CHMGD,11)	Formatted: Left	Formatted: Left
	A Virtual object marking the port side of a channel	Virtual AtoN, Port Lateral	SY(BRTHNO01);SY(BOYLAT24);TX('V-AIS',3,2,2,'15110',2,0,CHMGD,11)	Formatted: Left	Formatted: Left
	A Virtual object marking the starboard side of a channel	Virtual AtoN, Starboard Lateral	SY(BRTHNO01);SY(BOYLAT13);TX('V-AIS',3,2,2,'15110',2,0,CHMGD,11)	Formatted: Left	Formatted: Left
	A Virtual object marking the port side of a channel	Virtual AtoN, Port Lateral	SY(BRTHNO01);SY(BOYLAT23);TX('V-AIS',3,2,2,'15110',2,0,CHMGD,11)	Formatted: Left	Formatted: Left
	A Virtual object marking the starboard side of a channel	Virtual AtoN, Starboard Lateral	SY(BRTHNO01);SY(BOYLAT14);TX('V-AIS',3,2,2,'15110',2,0,CHMGD,11)	Formatted: Left	Formatted: Left
	A Virtual object marking an isolated danger	Virtual AtoN, Isolated Danger	SY(BRTHNO01);SY(BCNISD21);TX('V-AIS',3,2,2,'15110',2,0,CHMGD,11)	Formatted: Left	Formatted: Left
	A Virtual object marking safe water	Virtual AtoN, Safe Water	SY(BRTHNO01);SY(BOYSAW12);TX('V-AIS',3,2,2,'15110',2,0,CHMGD,11)	Formatted: Left	Formatted: Left
	A Virtual object used to mark an area or feature referred to in nautical documents	Virtual AtoN, Special Purpose	SY(BRTHNO01);SY(BOYSPP11);TX('V-AIS',3,2,2,'15110',2,0,CHMGD,11)	Formatted: Left	Formatted: Left
	A Virtual object marking a wreck	Virtual AtoN, Wreck Marking	SY(BRTHNO01);SY(BOYSPP11);TX('V-AIS',3,2,2,'15110',2,0,CHMGD,11)	Formatted: Left	Formatted: Left
567	For each attribute of type 'list' with more than one instance of the same value AND the attribute is not COLOUR, NATQUA and NATSUR.	List attribute contains more than one of the same value.	Remove unnecessary attribute value.	Logical consistency	Formatted: Left Formatted: Left Formatted: Left Formatted: Left
568	For each feature object where PERSTA AND PEREND are notNull AND their values are identical.	Object has identical values of PERSTA and PEREND.	Ensure values of PERSTA and PEREND are logical.	Logical consistency	Formatted: Centered Deleted: where Deleted: is present
569	For each feature object where PERSTA is notNull and PEREND is Null OR not Present .	Object has PERSTA without a value of PEREND.	Populate PEREND or remove PERSTA.	Logical consistency	Deleted: n Deleted: or
570	For each feature object where PEREND is notNull and PERSTA is Null OR not Present .	Object has PEREND without a value of PERSTA.	Populate PERSTA or remove PEREND.	Logical consistency	Deleted: present Deleted: null Deleted: or Deleted: present

571	For each edge which contains vertices at a density greater than 0.3mm at compilation scale.	Vertex density too great.	Generalise edge(s).	3.8	Formatted Table
572	For all feature objects where NINFOM is 'notNull' AND INFORM is 'Null' OR not Present .	Information in national language is populated without Information.	Populate Information.	3.11.1	E
573	For all feature objects where NPLDST is 'notNull' AND PILDST is 'Null' OR not Present .	Pilot district in national language is populated without Pilot district.	Populate Pilot district.	3.11.1	E
574	For all feature objects where NTXTDS is 'notNull' AND TXTDSC is 'Null' OR not Present .	Textual description in national language is populated without Textual Description.	Populate TXTDSC and include relevant Text file	3.11.1	E

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Group 2 objects are encoded with Feature Record Identifier [FRID] set to (1) [Group 1

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Page 4: [17] Deleted NINFOM, NTXTDS or NPLDST populated without corresponding value of INFORM, TXTDSC or PILDST.	fowler	1/7/2015 11:13 AM
Page 4: [17] Deleted Populate INFORM, TXTDSC or PILDST as required.	fowler	1/7/2015 11:13 AM
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Page 5: [19] Deleted For all national language attributes which are not encoded in the Feature Record National Attribute (NATF) field.	fowler	1/7/2015 11:14 AM
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For all feature object attributes (non national) that are not encoded in the Feature Record Attribute (ATTF) field.

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Feature object attributes not encoded in the Feature Record Attribute (ATTF) field.

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Encode feature object attributes in the feature record attribute (ATTF) field.

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Object name in national language

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Ensure

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equals

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does not equal

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For all attributes TXTDSC,NTXTDS,PICREP which are 'notNull' and referenced files do not exist or their names do not conform to the ENC Product Specification. Moved to section 2.3 as

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Referenced files are missing or their names are non-conformant.

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Ensure referenced files exist and are named correctly.

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5.4.1 and 5.6.4

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If a catalogue file does not exist. Moved to section 2.3 as

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No catalogue file exists.

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Create a catalogue file.

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5.4.1

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C		
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If volume name is not in accordance with the ENC Product Specification. Moved to section 2.3 as		
Page 6: [30] Deleted	fowler	1/7/2015 11:28 AM
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07		
Page 6: [30] Deleted	fowler	1/6/2015 12:41 PM
Volume name is not in accordance with the ENC Product Specification.		
Page 6: [30] Deleted	fowler	1/6/2015 12:41 PM
Correct the volume name.		
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5.4.2

Page 6: [30] Deleted	fowler	1/6/2015 12:41 PM
C		
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If the directory structure for physical media is not in accordance with the ENC Product Specification.		
-An ENC_ROOT directory must exist in the first volume.		
Moved to section 2.3 as		
Page 6: [31] Deleted	fowler	1/7/2015 11:28 AM
C		
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Page 6: [31] Deleted	fowler	1/6/2015 12:42 PM
The directory structure for physical media is not in accordance with the ENC Product Specification.		
Page 6: [31] Deleted	fowler	1/6/2015 12:42 PM
Correct the directory structure of the physical media.		
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5.4.3

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C		
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If the text and graphic file names are NOT unique, OR NOT with extension (e.g. .TXT and .TIF). Moved to section 2.3 as		
for new editions and re-issues.		
Page 6: [32] Deleted	fowler	1/7/2015 11:29 AM
C		
Page 6: [32] Deleted	fowler	1/6/2015 12:44 PM
09		
Page 6: [32] Deleted	fowler	1/6/2015 12:44 PM
Text and graphic file names incorrect incorrect format/name.		
Page 6: [32] Deleted	fowler	1/6/2015 12:44 PM
Use correctly formatted and named text and graphic files.		

Page 6: [32] Deleted 5.6.4	fowler	1/6/2015 12:44 PM
Page 6: [32] Deleted G	fowler	1/6/2015 12:44 PM
Page 6: [33] Deleted If the CRC value in the catalogue file does not equal that in the dataset. Moved to section 2.3 as	fowler	1/6/2015 12:45 PM
Page 6: [33] Deleted C	fowler	1/7/2015 11:29 AM
Page 6: [33] Deleted 0	fowler	1/6/2015 12:46 PM
Page 6: [33] Deleted CRC values do not match.	fowler	1/6/2015 12:45 PM
Page 6: [33] Deleted Correct CRC value.	fowler	1/6/2015 12:45 PM
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Page 6: [34] Deleted Correct format of the catalogue file.	fowler	1/6/2015 12:51 PM
Page 6: [34] Deleted 6.2	fowler	1/6/2015 12:51 PM
Page 6: [34] Deleted G	fowler	1/6/2015 12:51 PM
Page 6: [35] Deleted If CADDT-IMPL DOES NOT EQUAL "BIN" Moved to section 2.3 as	fowler	1/6/2015 12:51 PM
Page 6: [35] Deleted C	fowler	1/7/2015 11:30 AM
Page 6: [35] Deleted 2	fowler	1/6/2015 12:52 PM
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or		
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included		
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or		
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For all objects of type LIGHTS If CATLIT is EQUAL TO 1 [Fixed] AND SIGGRP is encoded.		
Page 6: [39] Deleted	fowler	1/7/2015 11:31 AM
SIGGRP is encoded for a fixed light.		
Page 6: [39] Deleted	fowler	1/7/2015 11:31 AM
Delete SIGGRP from fixed light.		
Page 6: [39] Deleted	fowler	1/7/2015 11:31 AM
Appendix A Ch.2 (code 141)		
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For all objects of type LIGHTS If CATLIT is NOT EQUAL TO 1 [Fixed] where SIGGRP does not start and finish with a bracket.		
Page 6: [40] Deleted	fowler	1/7/2015 11:31 AM
SIGGRP is incorrectly formatted.		
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Ensure SIGGRP is correctly formatted with appropriate brackets.

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Appendix A Ch.2 (code 141)		
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Attribute value added in S-57 Edition 3.1 does not have a description in INFORM.		
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Ensure that for new attribute values INFORM contains a description of the enumerate value.		
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For a base cell file if the limits contained in the Catalogue Directory field (CATD) of the catalogue file (subfields SLAT, WLON, NLAT, ELON): are not equal to the furthest coordinates of the M_COVR object in the corresponding base cell file. Moved to section 2.3 as		
Page 8: [44] Deleted	fowler	1/6/2015 12:54 PM
Limits in catalogue do not correspond to M_COVR limits for a base cell file.		
Page 8: [45] Deleted	fowler	1/6/2015 12:54 PM
Amend limits in catalogue or base cell file M_COVR object to agree.		
Page 8: [46] Deleted	fowler	1/6/2015 12:54 PM
5.6.3, 6.2.2 and logical consistency		
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For an update cell file if the limits are not identical to the limits of the base cell to which they apply. _____ Moved to section 2.3 as		
Page 8: [48] Deleted	fowler	1/6/2015 12:55 PM
Update with limits different to that of the target base cell.		
Page 8: [49] Deleted	fowler	1/6/2015 12:55 PM
Correct limits of update file.		
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5.6.3, 6.2.2 and logical consistency		
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with		
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For all objects with identical FOIDs which are part of a collection object or master/slave relationship.		
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Objects with the same FOID part of a collection or master/slave relationship.		
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Ensure that objects with the same FOID are not part of collections or master slave relationships.		
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For all update (ER) files being applied to a base (EN) file where the COMT subfield of the DSID field contains "STED:3.1.1;" If STED is not equal to (03.1) AND PRED is not equal to (2.0).		
Page 10: [60] Deleted	fowler	1/7/2015 11:35 AM
Ensure that where the COMT field contains "STED:3.1.1;" STED equals (03.1) and PRED equals (2.0).		