

## 2.4 Checks relating to Use of the Object Catalogue for ENC

No	Check description	Check message	Check solution	Conformity to:	Cat
1500	For each LNDARE <b>feature object</b> of <b>geometric primitive</b> area which OVERLAPS a CBLARE <b>OR</b> SBDARE <b>feature object</b> of <b>geometric primitive</b> area.	SBDARE or CBLARE <b>overlaps</b> a LNDARE object.	<b>Ensure</b> CBLARE or SBDARE objects <b>do not overlap</b> LNDARE objects	Logical consistency	Deleted: Amend Deleted: sit on Deleted: these objects should not sit on land. Deleted: type Deleted: or
1501	<b>Check removed.</b>				Deleted: type
1502	For each spatial object which contains the attribute HORDAT	HORDAT used in a spatial object.	Remove HORDAT.	2.1.1	Deleted: For each object of type M_HDAT. Deleted: M_HDAT object present.
1503	For each <b>feature object</b> (excluding M_VDAT and M_SDAT) where VERDAT is notNull AND <b>all</b> of the following <b>attributes are Null</b> ELEVAT, HEIGHT, VERCCL, VERCLR, VERCOP or VERCSEA.	Value of VERDAT without corresponding vertical distance value.	Remove VERDAT or populate vertical distance attribute.	2.1.2	Deleted: Remove M_HDAT object. Deleted: 2.1.1 Deleted: E Deleted: object not of type Deleted: none
1504	If the value of VDAT (Vertical Datum subfield) of the DPSM (Data set Parameter field) is <b>Null</b> .	<b>VDAT is</b> not populated.	Populate <b>the</b> VDAT <b>subfield</b> with the vertical datum of the cell.	2.1.2	Deleted: are notNull Deleted: Vertical Datum subfield (VDAT) Deleted: within DPSM field.
1505	For each M_VDAT <b>meta</b> object where VERDAT is notNull AND <b>is E</b> equal to the value of VERDAT in the Vertical Datum subfield (VDAT) of the Data Set Parameter field (DPSM).	Value of VERDAT matches that in the VDAT subfield of the DPSM field.	Remove unnecessary value of VERDAT.	2.1.2	Deleted: ULL Deleted: meta Deleted: e
1506	For each <b>feature</b> object where any of ELEVAT, HEIGHT, VERCCL, VERCLR, VERCOP or VERCSEA is notNull AND which OVERLAPS more than one M_VDAT <b>meta</b> object.	Object with height value not split at boundary of M_VDAT object.	Split object at boundary of M_VDAT object.	2.1.2	E
1507	For each <b>M_VDAT meta</b> object which OVERLAPS another <b>M_VDAT meta</b> object.	M_VDAT objects overlap.	Edit M_VDAT objects so that they do not overlap.	2.1.2	E Deleted: of type M_VDAT Deleted: object of type M_VDAT.
1508	For each <b>M_SDAT meta</b> object which OVERLAPS another <b>M_SDAT meta</b> object.	M_SDAT objects overlap.	Edit M_SDAT objects so that they do not overlap.	2.1.3	Deleted: of type M_SDAT Deleted: of type M_SDAT.

1509	<del>Check removed.</del>					Deleted: For each object of type DEPART, DEPCNT, DRGARE, OBSTRN, SOUNDG, UWTROC, or WRECKs where VERDAT is present: ... [1]
1510	If the SDAT (Sounding Datum subfield) of the DSPM (Data Set Parameter field) is <del>Null</del> .	SDAT is not populated.	Populate <del>the</del> SDAT subfield with the <del>sounding datum of the cell</del> .	2.1.3		Deleted: (Sounding Datum subfield) Deleted: n Deleted: (Sounding Datum subfield). Deleted: e
1511	For each M_SDAT <del>meta</del> object where VERDAT is <del>Equal</del> to the value of SDAT (Sounding Datum subfield) of the DSPM (Data Set Parameter field).	M_SDAT object has the same VERDAT as in the SDAT subfield of the DSPM.	Delete M_SDAT object or amend value of VERDAT.	2.1.3		
1512a	For each <del>SOUNDG feature</del> object which OVERLAPS more than one M_SDAT <del>meta</del> object.	SOUNDG object overlaps multiple M_SDAT objects.	Split SOUNDG object at boundary of M_SDAT objects.	2.1.3	E	Deleted: of type SOUNDG
1512b	For each <del>feature</del> object where any of VALSOU, VALDCO, WATLEV, EXPSON, DRVAL1 or DRVAL2 is notNull AND which OVERLAPS more than one M_SDAT <del>meta</del> object.	Object with depth information overlaps multiple M_SDAT objects.	Split object at boundary of M_SDAT objects.	2.1.3		Deleted: of
1513	If the value of the HUNI (Units of Height measurement subfield) of the DSPM (Data Set Parameter field) is <del>Not equal to 1 (metres)</del> .	<del>HUNI</del> subfield is not <del>equal to 1 (metres)</del> .	<del>Populate the HUNI</del> subfield with <del>1 (metres)</del> .	2.1.4		Deleted: Units of Height measurement ...set ... [2] Deleted: measurement to (...)...[...] Deleted: ...n...(...)...[...] Deleted: ... [3] Deleted: ... [4]
1514	<del>Check removed.</del>					Deleted: For each object of type M_UNIT ... [5]
1515a	For each <del>feature</del> object where a value of DATEND, DATSTA, PEREND, PERSTA, does not conform to the formatting defined in ISO 8601:1988.	Date attribute not formatted according to ISO 8601:1988.	Amend formatting to conform to ISO 8601:1988.	2.1.5	C	
1515b	For each <del>feature</del> object where a value of SORDAT, <del>CPDATE</del> , SUREND or SURSTA does not conform to the formatting defined in ISO 8601:1988.	Date attribute not formatted according to ISO 8601:1988.	Amend formatting to conform to ISO 8601:1988.	2.1.5	E	
1516	For each Group 2 <del>feature</del> object <del>with allowable attributes</del> STATUS, PERSTA <del>and</del> PEREND, where STATUS <del>is Equal to 5 (periodic/intermittent)</del> AND PERSTA <del>or</del> PEREND are <del>Null OR not Present</del> .	PERSTA or PEREND not populated where STATUS <del>= 5</del> .	Populate PERSTA or PEREND with values or remove STATUS <del>= 5 (periodic/intermittent)</del> .	2.1.5.1	W	Deleted: having...and allowable e...s...(...)...[...].or...n... or present ... [6] Deleted: (...)...[...] Deleted: equals ... [7]

1517	For each <u>feature</u> object where TIMSTA <u>or</u> TIMEND is notNull AND their values do not conform to the format defined in Chapter 2 of S-57 Appendix A.	TIMEND or TIMSTA are not formatted correctly.	Correct the formatting of TIMEND or TIMSTA.	2.1.6	Deleted: OR Deleted: Deleted: value as defined in Deleted: For each object of type M_PROD: Deleted: M_PROD-object present in cell: Deleted: Delete M_PROD object: Deleted: 2.2.1
1518a	If the AGEN (Producing Agency subfield) of the DSID (Data Set Identification field) is not one of the values listed in S-62 sections I and II.	Producing Agency code <u>is</u> not a valid S-62 <u>value</u> .	Amend AGEN subfield to a valid S-62 value.	2.2.1	Deleted: E Deleted: If the value of the EDTN (Edition Number) ... [8] Deleted: c Deleted: 14 Deleted: Incorrect value ... [9] Deleted: Correct Edit ... [10] Deleted: 2.2.2 Deleted: G Deleted: If the data set ... [11] Deleted: c
1518b	If the first 2 characters of the data set file name do not correspond to the value of the AGEN (Producing agency subfield) of the DSID (Data Set Identification field).	Data set file name does not begin with the agency code corresponding to that set in the AGEN subfield of the DSID field.	Correct the first 2 characters of the data set file name.	2.2.1	Deleted: 15 Deleted: Update num ... [12] Deleted: Amend Upda ... [13] Deleted: 2.2.2 Deleted: G Deleted: If the data set ... [14] Deleted: c Deleted: 15 Deleted: Reissue data ... [15] Deleted: Amend Upda ... [16] Deleted: 2.2.2 Deleted: G Deleted: If the file exte ... [17] Deleted: Incorrect val ... [18] Deleted: Amend Upda ... [19] Deleted: 2.2.2 Deleted: G Formatted: Font: 10 pt
4519	<u>Check removed.</u>				Deleted: If the value of ... [20] Deleted: Issue date is ... [21] Deleted: Amend Issue date: Deleted: 2.2.2 Deleted: G
4520	<u>Check renumbered 1020</u>				
4521a	<u>Check renumbered 1021a</u>				
4521b	<u>Check renumbered 1021b</u>				
4522a	<u>Check removed.</u>				
1522b	If the file extension is not ".000" AND the UADT (Update application date) subfield of the DSID (Data Set Identification) field is notNull.	Update application date is not NULL for an update.	Make Update application date NULL.	2.2.2 & Appendix B.1 (5.7)	
4523a	<u>Check removed.</u>				

1523b	If the data set file name extension <u>is Equal to</u> “.000” AND the ISDT (Issue date) subfield of the DSID (Data Set Identification) field is <u>Less than</u> the value of the UADT (Update application date) subfield.	<u>The ISDT (Issue date) of a base cell file precedes the UADT (Update application date)</u>	Amend update application date or issue date accordingly.	2.2.2 & Appendix B.1 (5.7)	<p><b>Deleted:</b> For a base data set the update application date falls before the issue date.</p> <p><b>Formatted:</b> Font: 10 pt</p> <p><b>Deleted:</b> e</p> <p><b>Deleted:</b> s</p> <p><b>Deleted:</b> less than</p>
1524	For each M_QUAL <u>meta</u> object which is not completely WITHIN a SWPARE object AND where DRVAL1 is notNull.	M_QUAL which is not covered by a SWPARE object contains DRVAL1.	Remove value of DRVAL1.	2.2.3.1 & 5.6	<p><b>Comment:</b> Review required – this check is not consistent with the instructions given in UOC 5.6</p> <p><b>Deleted:</b> where</p> <p><b>Deleted:</b> Amend attribute values accordingly.</p>
1525	For each M_QUAL <u>meta</u> object where POSACC is notNull AND DRVAL1 is notNull.	M_QUAL object <u>with both</u> DRVAL1 and POSACC populated.	<u>Remove POSACC from M_QUAL object.</u>	2.2.3.1	<p><b>Deleted:</b> are</p> <p><b>Deleted:</b> For each M_QUAL object where POSACC is notNull AND DRVAL1 is NULL.</p>
1526	<u>Check removed.</u>	<u>Check removed.</u>	<u>Check removed.</u>	<u>Check removed.</u>	<p><b>Deleted:</b> M_QUAL object where POSACC is pop ... [22]</p> <p><b>Deleted:</b> Populate DRVAL1 o</p> <p><b>Deleted:</b> 2.2.3.1</p>
1527	<u>Check removed.</u>				<p><b>Deleted:</b> E</p> <p><b>Deleted:</b> For each M- ... [23]</p>
1528	<u>Check removed.</u>				<p><b>Deleted:</b> 2.2.3.1</p> <p><b>Deleted:</b> E</p> <p><b>Deleted:</b> For each M- ... [24]</p>
1529	For each <u>feature</u> object <u>WITHIN</u> a M_QUAL <u>meta</u> object where TECSOU is notNull AND the value of TECSOU is equivalent to the TECSOU of the M_QUAL <u>meta</u> object.	TECSOU value <u>of a</u> <u>feature</u> object is equivalent to value <u>for</u> the M_QUAL it lies within.	Remove unnecessary value of TECSOU.	2.2.3.1 and 2.2.3.5	<p><b>Deleted:</b> TECSOU val ... [25]</p> <p><b>Deleted:</b> Amend or re ... [26]</p> <p><b>Deleted:</b> 2.2.3.1</p> <p><b>Deleted:</b> E</p> <p><b>Deleted:</b> on</p> <p><b>Deleted:</b> within</p>
1530	For each <u>feature</u> object <u>WITHIN</u> a M_QUAL <u>meta</u> object where SOUACC is notNull AND the value of SOUACC is equivalent to the SOUACC or CATZOC values of the M_QUAL <u>meta</u> object.	SOUACC value <u>of a</u> <u>feature</u> object is equivalent to value used <u>for</u> the M_QUAL it lies within.	Remove unnecessary value of SOUACC.	2.2.3.1 and 2.2.3.4	<p><b>Deleted:</b> n</p> <p><b>Deleted:</b> used on</p> <p><b>Deleted:</b> n</p> <p><b>Deleted:</b> on</p> <p><b>Deleted:</b> within</p> <p><b>Deleted:</b> n</p>
1531	For each <u>feature</u> object <u>WITHIN</u> an M_QUAL <u>meta</u> object where POSACC, SOUACC, or TECSOU is notNull AND the value of SOUACC is equivalent to or degrades the accuracy of the <u>CATZOC</u> value of the M_QUAL <u>meta</u> object.	Value of POSACC, SOUACC, QUASOU or TECSOU <u>of a</u> <u>feature</u> object is equivalent to or degrades the accuracy of CATZOC on the M_QUAL it lies within.	Remove inappropriate value of POSACC, SOUACC, QUASOU or TECSOU.	2.2.3.1	<p><b>Deleted:</b> on</p> <p><b>Deleted:</b> n</p> <p><b>Deleted:</b> within</p> <p><b>Deleted:</b> on</p> <p><b>Deleted:</b> , QUASOU</p> <p><b>Formatted:</b> Not</p> <p><b>Strikethrough Deleted:</b></p> <p><b>Deleted:</b> CATZOC on</p>

1532	For each M_QUAL <u>meta</u> object where SURSTA is <u>Not</u> equal to the smallest (oldest) value of SURSTA of any M_SREL <u>meta</u> objects <u>WITHIN</u> the M_QUAL <u>meta</u> object.	SURSTA <u>of a</u> M_QUAL object does not relate to the oldest survey within the M_QUAL object.	Amend value of SURSTA of M_QUAL to reflect the oldest survey within it.	2.2.3.1	Deleted: on Deleted: n Deleted: n Deleted: n Deleted: within
1533	For each DRGARE <u>feature</u> object where SOUACC is notNull AND it is equivalent to or degrades the CATZOC value of the M_QUAL <u>meta</u> object it is WITHIN.	SOUACC <u>of a</u> DRGARE is equivalent to or degrades the CATZOC value of the underlying M_QUAL object.	Amend CATZOC of M_QUAL.	2.2.3.1	Deleted: on Deleted: n Deleted: of CATZOC on Deleted: CATZOC on
1534	For each UWTROC <u>feature</u> object where SOUACC is notNull AND is equivalent to or degrades the CATZOC value of the M_QUAL <u>meta</u> object it is WITHIN.	SOUACC <u>of an</u> UWTROC <u>is equivalent to or</u> degrades the CATZOC value of the underlying M_QUAL object.	Amend CATZOC of M_QUAL.	2.2.3.1	Deleted: on Deleted: on Deleted: of CATZOC Deleted: n
1535	For each UWTROC <u>feature</u> object where SOUACC is notNull AND it is <u>Equal</u> to or degrades the SOUACC value of the M_QUAL <u>meta</u> object it is WITHIN.	SOUACC <u>of an</u> UWTROC <u>is equal to</u> or degrades that of the underlying M_QUAL object.	Delete or amend SOUACC of M_QUAL.	2.2.3.1	Deleted: of CATZOC Deleted: on Deleted: n Deleted: matches Deleted: n Deleted: on
1536	For each WRECKS <u>feature</u> object where SOUACC is notNull AND is equivalent to or degrades the CATZOC value of the M_QUAL <u>meta</u> object it is WITHIN.	SOUACC <u>of a</u> WRECKS <u>is equivalent to or</u> degrades the CATZOC value of the underlying M_QUAL object.	Amend CATZOC of M_QUAL.	2.2.3.1	Deleted: identical Deleted: SOUACC on Deleted: on Deleted: n Deleted: CATZOC on
1537	For each WRECKS <u>feature</u> object where SOUACC is notNull AND is equivalent to or degrades the SOUACC value of the M_QUAL <u>meta</u> object it is WITHIN.	SOUACC <u>of a</u> WRECKS is equivalent to or degrades the SOUACC value of the underlying M_QUAL object.	Amend SOUACC of M_QUAL or WRECKS as appropriate.	2.2.3.1	Deleted: CATZOC on Deleted: on Deleted: n Deleted: SOUACC on Deleted: SOUACC on
1538	For each OBSTRN <u>feature</u> object where SOUACC is notNull AND is equivalent to or degrades the CATZOC value of the M_QUAL <u>meta</u> object it is WITHIN.	SOUACC <u>of a</u> OBSTRN is equivalent to or degrades the CATZOC value of the underlying M_QUAL object.	Amend SOUACC of M_QUAL or OBSTRN as appropriate.	2.2.3.1	Deleted: on Deleted: n Deleted: CATZOC on Deleted: CATZOC on Deleted: on
1539	For each OBSTRN <u>feature</u> object where SOUACC is notNull AND it is <u>Equal</u> to or degrades the SOUACC value of the M_QUAL <u>meta</u> object it is WITHIN.	SOUACC <u>of a</u> OBSTRN <u>is equal to</u> or degrades the SOUACC value of the underlying M_QUAL object.	Delete or amend SOUACC of M_QUAL.	2.2.3.1	Deleted: object Deleted: matches Deleted: n Deleted: e Deleted: that on Deleted: SOUACC on

1540	<del>Check removed.</del>				Deleted: For each object where SORIND is encoded with a value of SURATH.
1541	For each single sounding where the value of QUASOU of the SOUNDG object is <u>Equal</u> to the <u>QUASOU</u> value of the M_SREL <u>meta</u> object it lies WITHIN.	QUASOU <u>of a</u> SOUNDG <u>is equal to</u> the <u>QUASOU</u> value <u>of the</u> underlying M_SREL object.	Remove unnecessary value.	2.2.3.3	Deleted: SORIND is encoded with a values of SURATH. Deleted: Remove invalid value of SORIND and populate in SURATH. Deleted: 2.2.3.2 and 2.2.5.1 Deleted: E
1542	For each <u>feature</u> object where the value of POSACC is <u>Equal</u> to the <u>POSACC</u> value of the M_ACCY object it lies WITHIN.	POSACC <u>of a</u> <u>feature</u> object <u>is equal</u> to that on the underlying M_ACCY object.	Remove unnecessary value.	2.2.4.1	Deleted: on Deleted: WITHIN an M_SREL object Deleted: that on Deleted: identical
1543	<del>Check removed.</del>				Deleted: QUASOU on Deleted: WITHIN an ... [27] Deleted: on
1544	For each M_ACCY <u>meta</u> object where HORACC, SOUACC or VERACC are <u>Present</u> .	M_ACCY object includes HORACC, SOUACC or VERACC.	Remove attribute values.	2.2.4.1	Deleted: (on the asso ... [28] Deleted: equivalent Deleted: equivalent
1545	For each <u>feature</u> object where HORACC is notNull AND HORCLR is <u>Null</u> <u>OR</u> not <u>Present</u> .	Value for HORACC without a value of HORCLR.	Add HORCLR value or remove HORACC.	2.2.4.2	Deleted: POSACC on Deleted: For each obj ... [29] Deleted: QUAPOS on ... [30]
1546	For each <u>feature</u> object where VERACC is notNull AND VERCLR, VERCOP, VERCSA VERCCL are all <u>Null</u> <u>OR</u> not <u>Present</u> .	Value for VERACC without value of VERCLR, VERCOP, VERCSA or VERCCL.	Remove VERACC or, populate vertical clearance value.	2.2.4.3	Deleted: Remove ... [31] Deleted: 2.2.4.1 Deleted: E Deleted: present
1547	<del>Check removed.</del>				Deleted: ULL or Deleted: present Deleted: f
1548	For each <u>feature</u> object ( <u>excluding</u> SOUNDG, DEPCNT, DEPART, DRGARE, OBSTRN) where SORIND is notNull and SORDAT is <u>Null</u> <u>OR</u> not <u>Present</u> .	Value of SORIND without a value of SORDAT <u>for a</u> non-bathymetric object.	Populate SORDAT with an appropriate value.	2.2.5.2	Deleted: U Deleted: LL or Deleted: present Deleted: For each obj ... [32] Deleted: SORIND and ... [33] Deleted: Delete unnec ... [34]
1549	If the value of CSCL (Compilation Scale of data) subfield of the DPSM (Data Set Parameter field) is <u>Null</u> .	CSCL is not populated with a value.	Populate CSCL with an appropriate value.	2.2.6	Deleted: 2.2.5.1 Deleted: W Deleted: which is not of type Deleted: on Deleted: ULL or Deleted: present Deleted: ) Deleted: ULL



1550	For each M_CSCL <b>meta</b> object where CSCALE is <b>Equal</b> to the value of CSCL (Compilation scale of data) subfield in the DPSM (Data Set Parameter) field.	CSCALE of M_CSCL is identical to the value given as the Compilation scale of the dataset.	Remove unnecessary M_CSCL object.	2.2.6	E	Deleted: e
1551	For each M_CSCL <b>meta</b> object which OVERLAPS another M_CSCL <b>meta</b> object.	M_CSCL objects <b>s</b> overlap.	Amend M_CSCL objects so that they do not overlap.	2.2.6	E	
1552	<b>Check removed.</b>					Deleted: For each object where SCAMAX is pres ... [35]
1553	For each value of SCAMIN which is <b>Less</b> than or equal to the compilation scale of the data for the area.	SCAMIN value less than <b>or equal to</b> compilation scale.	Amend SCAMIN value accordingly.	2.2.6 and 2.2.7		Formatted Table Deleted: l
1554a	For each Group 1 <b>feature</b> object where SCAMIN is <b>Present</b> .	SCAMIN present <b>for</b> a Group 1 object.	Remove SCAMIN.	2.2.7		Deleted: on Deleted: present
1554b	For each meta object where SCAMIN is <b>Present</b> .	SCAMIN present <b>for</b> a meta object.	Remove SCAMIN.	2.2.7		Deleted: on Deleted: present
1555	<b>Check removed.</b>					Formatted Table
1556	<b>Check renumbered 1022.</b>					
1557	For each T_HMON <b>feature</b> object where T_MTOID is <b>Not equal to 1</b> (simplified harmonic method of tidal prediction) <b>OR 2</b> (full harmonic method of tidal prediction).	T_HMON object where the value of T_MTOID is <b>Not equal to 1 or 2</b> .	Amend T_MTOID to valid value.	3.2.2		Deleted: For each object where INFORM or NINFORM contain formatting characters (C0 as defined in S-57 Part 3, Annex B): ... [36]
1558	For each T_NHNM <b>feature</b> object where T_MTOID is <b>Not equal to 3</b> (time and height difference non-harmonic method).	T_NHNM object where the value of T_MTOID is <b>Not equal to 3</b> .	Amend T_MTOID to a valid value.	3.2.3		Deleted: For each text file forming part of the dataset which is not an ASCII file AND is not referenced by the attribute NTXTDS. — Moved to section 2.3 as ... c... 16 ... [37] Deleted: does not equal... (...)... [...]... or... (...)... [ ] ... [38]
1559	For each T_NHNM <b>feature</b> object which is not associated (using the C ASSO collection object) with a T_TIMS or T_HMON object.	T_NHNM which is not associated with <b>a T_TIMS or a T_HMON object</b> .	Associate T_NHNM with a T_TIMS or T_HMON object.	3.2.3		Deleted: not ... (...)... ( ... [39] Deleted: does not equal... (...)... [...] ... [40] Deleted: not ... (...) ... [41]
1560	For each TS_PRH <b>feature</b> object where T_MTOID is <b>Not equal to 1</b> (simplified harmonic method of tidal prediction) <b>OR 2</b> (full harmonic method of tidal prediction).	TS_PRH object has a value other than <b>1 or 2</b> for T_MTOID.	Amend T_MTOID to a valid value.	3.3.3		Deleted: an appropriate object. Deleted: ) Deleted: (...)... (...) ... [42] Deleted: n... (...)... [...]... (...) [...] ... [43]
1561	For each TS_PNH <b>feature</b> object where T_MTOID is <b>Not equal to 3</b> (time and height difference non-harmonic method).	For TS_PNH T_MTOID is <b>not equal to 3</b> .	Amend T_MTOID to <b>3</b> .	3.3.4		Deleted: (...) ... [44] Deleted: (...) (time and height difference non-harmonic method) ... [45]

1562	For each TS_PNH <b>feature</b> object which is not associated (using the collection object C ASSO) <b>with</b> a TS_TIS OR TS_PRH object.	TS_PNH not associated to a TS_TIS or TS_PRH object.	Associate TS_PNH to a TS_TIS or TS_PRH object using C ASSO.	3.3.4	E	Deleted: with
1563	For each RIVERS, CANALS, LAKARE, DOCARE or LOKBSN <b>feature</b> object which is not WITHIN a LNDARE or UNSARE <b>feature</b> object of <b>geometric primitive</b> area.	Non navigable water objects not covered by UNSARE or LNDARE.	Amend LNDARE <b>or</b> UNSARE to cover these <b>feature</b> objects.	4.1		Deleted: O Deleted: types Deleted: type
1564	For each CTRPNT <b>feature</b> object where VERDAT or VERACC are <b>Present</b> .	<b>Prohibited attribute</b> VERDAT or VERACC <b>populated</b> for a CTRPNT.	Remove VERDAT or VERACC.	4.3	E	Deleted: present Deleted: resent
1565	For each edge of a LNDARE <b>feature</b> object of type area which is not COINCIDENT with one of the following <b>feature</b> objects; a) COALNE, SLCONS, GATCON, DAMCON of <b>geometric primitive</b> line. OR b) M_COVR, GATCON, DAMCON, RIVERS, TUNNEL, DRYDOC, CANALS, LAKARE, LOKBSN, DOCARE, LNDARE of <b>geometric primitive</b> area. OR c) CAUSWY, SLCONS, MORFAC, WRECKS, OBSTRN, PYLONS where WATLEV <b>is Equal to</b> 1 (partly submerged at high water) <b>OR</b> 2 (always dry) <b>OR</b> 6 (subject to inundation or flooding).	LNDARE not enclosed by appropriate linear or area object.	Ensure LNDARE is enclosed by an appropriate object.	4.5		Deleted: on Deleted: object. Formatted: Centered Deleted: type Deleted: type Deleted: = Deleted: [ Deleted: ] Deleted: , Deleted: [ Deleted: ] Deleted: or Deleted: [ Deleted: ]



1566	For each edge of a COALNE <del>OR</del> SLCONS <del>feature</del> object of <del>geometric primitive</del> line which is COINCIDENT with a RIVERS, CANALS, LAKARE, DOCARE, DRYDOC or LOKBSN <del>feature</del> object AND is not COINCIDENT with a DEPARE, DRGARE, UNSARE, PONTON, FLODOC or HULKES <del>feature</del> object.	COALNE or SLCONS used as the boundary of objects on LAND.	Not required therefore remove COALNE or SLCONS object.	4.5, 4.6.6.1, 4.6.6.3	Formatted: Centered Deleted: object Deleted: type  Deleted: or Deleted: COALNE object includes Deleted: are Deleted: present Deleted: type Deleted: type Deleted: type Deleted: = Deleted: [ Deleted: ] Deleted: , Deleted: [ Deleted: ] Deleted: or Deleted: [ Deleted: ] Deleted: SLCONS object includes Deleted: or Deleted: are Deleted: present Deleted: present Deleted: includes VERDAT Deleted: present Deleted: includes VERDAT Deleted: type Formatted Table Deleted: For each edge of a DRYDOC object which does not TOUCH a GATCON object AND TOUCHES an SLCONS or COALNE object. Deleted: DRYDOC object is bounded by an SLCONS or COALNE object. Deleted: Amend or delete SLCONS or COALNE objects. Deleted: 4.6.6.1 Deleted: E
1567	For each COALNE <del>feature</del> object where VERDAT <del>OR</del> VERACC <del>is Present</del> .	Prohibited attribute VERACC or VERDAT <del>populated for a COALNE object</del> .	Remove values of VERACC or VERDAT.	4.5.1	
1568	For each SLCONS <del>feature</del> object of <del>geometric primitive</del> area which is not WITHIN a LNDARE, DEPARE or UNSARE of <del>geometric primitive</del> area.	Area SLCONS not covered by a appropriate TG1 object.	Amend appropriate TG1 object to cover SLCONS object.	4.5.2	
1569	For each SLCONS <del>feature</del> object of <del>geometric primitive</del> area where WATLEV <del>is Equal to</del> 3 (always under water/submerged) <del>OR</del> 4 (covers and uncovers) <del>OR</del> 5 (awash) AND which is not WITHIN a DEPARE and/or UNSARE of type area.	Area SLCONS not covered by a appropriate TG1 object.	Amend appropriate TG1 object to cover SLCONS object.	4.5.2	
1570	For each SLCONS <del>feature</del> object where VERDAT <del>OR</del> VERACC <del>is Present</del> .	Prohibited attribute VERACC or VERDAT <del>populated for a SLCONS object</del> .	Remove values of VERACC or VERDAT.	4.5.2	
1571	For each BERTHS <del>feature</del> object where VERDAT is <del>Present</del> .	Prohibited attribute VERDAT <del>populated for a BERTHS object</del> .	Remove value of VERDAT.	4.6.2	
1572	For each DRYDOC <del>feature</del> object where VERDAT is <del>Present</del> .	Prohibited attribute VERDAT <del>populated for a DRYDOC object</del> .	Remove value of VERDAT.	4.6.6.1	
1573	For each DRYDOC <del>feature</del> object which is not WITHIN a LNDARE object of <del>geometric primitive</del> area.	DRYDOC not covered by LNDARE.	Amend LNDARE or DRYDOC as required.	4.6.6.1	
1574	<del>Check removed</del> .				

1575	For each FLODOC <u>feature object</u> where VERDAT <u>OR</u> VERACC <u>is Present</u> .	<u>Prohibited attribute</u> VERACC or VERDAT <u>populated for a FLODOC object</u> .	Remove values of VERACC or VERDAT.	4.6.6.2	Deleted: FLODOC object includes Deleted: or ...are ...p( ... [46]
1576	<u>Check removed</u> .				Deleted: For each edge of a DOCARE object which does not TOUCH a GATCON object AND TOUCHES an SLCONS or COALNE object. ... [47]
1577	For each DOCARE <u>feature object</u> where its geometric primitive EQUALS a SEAARE object.	DOCARE overlaps SEAARE.	Amend or delete SEAARE as required.	4.6.6.3	Formatted Table Deleted: OVERLAPS
1578	For each GATCON object where VERDAT is notNull AND VERCLR is not <u>Present</u> .	VERDAT populated without VERCLR being present.	Remove VERDAT or populate VERCLR.	4.6.6.4	Deleted: present
1579	<u>Check removed</u> .				Deleted: For each GATCON object where VERACC is notNull AND VERCLR is not present. ... [48]
1580	For each GATCON <u>feature object</u> which is not WITHIN a DEPARE, DRGARE, UNSARE or LNDARE of <u>geometric primitive</u> area.	GATCON not covered by DEPARE, DRGARE, UNSARE or LNDARE.	Amend objects to ensure GATCON is covered by DEPARE, DRGARE, UNSARE or LNDARE.	4.6.6.4	Formatted Table Formatted: Centered
1581	For each LOKBSN <u>feature object</u> where its geometric primitive EQUALS a SEAARE object.	LOKBSN overlaps SEAARE.	Amend or delete SEAARE as required.	4.6.6.5	Deleted: type Deleted: OVERLAPS
1582	For each GRIDRN <u>feature object</u> where HORACC <u>OR</u> VERACC <u>is Present</u> .	<u>Prohibited attribute</u> VERACC or HORACC <u>populated for a GRIDRN object</u> .	Remove values of VERACC or HORDAT.	4.6.6.6	E Deleted: GRIDRN object includes Deleted: or ...are ...p( ... [49]
1583	For each MORFAC <u>feature object</u> where VERDAT <u>OR</u> VERACC <u>is Present</u> .	<u>Prohibited attribute</u> VERACC or VERDAT <u>populated for a MORFAC object</u> .	Remove values of VERACC or VERDAT.	4.6.7.1	Deleted: MORFAC object includes Deleted: or ...are ...p( ... [50]
1584	For each MORFAC <u>feature object</u> where WATLEV <u>is Equal to 1</u> (partly submerged at high water) OR 2 (always dry) OR 6 (subject to inundation or flooding) which is not WITHIN a LNDARE object of <u>geometric primitive</u> area.	MORFAC with WATLEV=1, 2 or 6 not covered by LNDARE.	Amend MORFAC or LNDARE as required.	4.6.7.1	E Deleted: = ... [51]
1585	For each PILPNT <u>feature object</u> where VERDAT <u>OR</u> VERACC <u>is Present</u> .	<u>Prohibited attribute</u> VERACC or VERDAT <u>populated for a PILPNT object</u> .	Remove values of VERACC or VERDAT.	4.6.7.2	E Deleted: or ...are ... [52]
1586	For each PONTON <u>feature object</u> where VERACC is <u>Present</u> .	<u>Prohibited attribute</u> populated for a PONTON object.	Remove value of VERACC.	4.6.7.3	E Deleted: PONTON object includes VERACC Deleted: present

1587	For each HULKES object where HORACC OR VERACC <del>is Present.</del>	<del>Prohibited attribute</del> HORACC or VERACC <del>populated</del> <del>for a HULKES object.</del>	Remove value of VERACC or HORACC.	4.6.8	Deleted: HULKES object includes Deleted: are ...presen ... [53]
1588	<del>Check removed.</del>				Formatted Table
1589	For each <del>feature</del> object where CONDTN <del>is Equal to 1 (under construction), OR 3 (under reclamation), OR 5 (planned construction) AND SORDAT is Null OR not Present.</del>	Object <del>with</del> CONDTN <del>=</del> 1,3 or 5 without a value for SORDAT.	Populate SORDAT.	4.6.10	Deleted: For each CRANES object where VERACC is not Null AND VERCLR is not present: ... [54] Deleted: has a value of equal to ... [55] Deleted: e...s...( )...[...]( )...[...].or...( )...[...].n... or present ... [56]
1590	For each LNDGRN <del>feature</del> object which is not OVERLAPPED by a LNDARE <del>feature</del> object.	LNDGRN not covered by LNDARE object.	Ensure LNDGRN is covered by or contains a LNDARE object.	4.7.1	
1591	For each LNDELV <del>feature</del> object where VERDAT <del>OR</del> VERACC <del>is Present.</del>	<del>Prohibited attribute</del> VERACC or VERDAT <del>populated</del> <del>for a LNDELV object.</del>	Remove values of VERACC or VERDAT.	4.7.2	Deleted: or ...are ... [57]
1592	For each COALNE <del>feature</del> object which is COINCIDENT with a LNDGRN <del>feature</del> object where CATLND <del>is Equal to 2 (marsh) AND CATCOA for the COALNE feature object is Not equal to 8 (marshy shore) OR QUAPOS is Not equal to 4 (approximate).</del>	Invalid value of QUAPOS or CATCOA for a COALNE object adjacent to a LNDGRN where CATLND <del>=</del> 2.	Amend value of QUAPOS or CATCOA as required.	4.7.3	Deleted: e...s...( )...[...].o n ...does not equa...l...( )...[...].does not equal ( )...[...] Deleted: equals ( )... [58] Deleted: equals ( )... [59]
1593	For each SLOGRD <del>feature</del> object where NATCON OR NATQUA <del>is Present.</del>	<del>Prohibited attribute</del> NATCON or NATQUA <del>populated</del> <del>for a SLOGRD object.</del>	Remove values of NATCON or NATQUA.	4.7.4	Deleted: SLOGRD object includes Deleted: are ...presen ... [60]
1594	For each SLOTOP <del>feature</del> object where NATCON, NATQUA, VERACC OR VERDAT <del>is Present.</del>	<del>Prohibited attribute</del> NATCON, NATQUA, VERACC or VERDAT <del>populated</del> <del>for a SLOTOP object.</del>	Remove unnecessary values of NATCON, NATQUA, VERACC or VERDAT.	4.7.5	Deleted: SLOTOP contains values for Deleted: are ...presen ... [61]
1595	For each SLOTOP <del>feature</del> object where CATSLO <del>is Equal to 6 (cliff) AND the object is COINCIDENT with a COALNE object.</del>	SLOTOP object where CATSLO <del>=</del> 6, coincides with a COALNE object.	Delete SLOTOP object only COALNE with CATCOA=(1) should be encoded.	4.7.5	Deleted: =(6) Deleted: e...s...( )...[...] Deleted: For each SLOGRD object where CATSLO equals (6) [cliff] AND the object TOUCHES a COALNE ... [62]
1596	<del>Check removed.</del>				Formatted Table

1597	For each RIVERS <u>feature</u> object where its geometric primitive EQUALS <del>OVERLAPS</del> a SEAARE object.	RIVERS object overlaps a SEAARE object.	Amend SEAARE object.	4.7.6	E	
1598	For each RAPIDS <u>feature</u> object where VERACC is <u>Present</u> .	<u>Prohibited attribute VERACC populated for a RAPIDS object</u> .	Remove value of VERACC.	4.7.7.1	E	Deleted: present
1599a	For each RAPIDS or WATFAL <u>feature</u> object which is not WITHIN <u>OR</u> COINCIDENT with a RIVERS object.	RAPIDS or WATFAL not within or touching a RIVERS object.	Ensure within or touching RIVERS.	4.7.7.1 and 4.7.7.2		Deleted: includes value of VERACC Deleted: or
1599b	For each RAPIDS or WATFAL <u>feature</u> object which is not WITHIN a LNDARE or UNSARE object.	RAPIDS or WATFAL not within LNDARE or UNSARE.	Ensure covered by LNDARE or UNSARE.	4.7.7.1 and 4.7.7.2	W	Deleted: present Deleted: includes value of VERACC
1600	For each WATFAL <u>feature</u> object where VERACC is <u>Present</u> .	<u>Prohibited attribute VERACC populated for a WATFAL object</u> .	Remove value of VERACC.	4.7.7.2		Deleted: or Deleted: present
1601	For each LAKARE <u>feature</u> object where VERDAT <u>OR</u> VERACC is <u>Present</u> .	<u>Prohibited attribute VERACC or VERDAT populated for a LAKARE object</u> .	Remove values of VERACC and VERDAT.	4.7.8		Deleted: includes value of VERACC or VERDAT Deleted: For each LAKSHR object: Deleted: LAKSHR object present.
1602	For each LAKARE <u>feature object</u> where its geometric primitive EQUALS <del>OVERLAPS</del> a SEAARE <u>feature</u> object.	LAKARE overlaps SEAARE object.	Amend objects to remove overlap.	4.7.8		Deleted: Delete prohibited object LAKSHR: Deleted: 4.7.8 Deleted: E
1603	<u>Check removed</u> .					Deleted: on
1604	For each COALNE <u>feature</u> object which is COINCIDENT with a LNDGRN <u>feature</u> object where CATLND <u>is Equal to</u> 15 (salt pan) AND CATCOA <u>for</u> the COALNE object <u>is Not equal to</u> 2 (flat coast).	COALNE object adjacent to LNDGRN with CATLND = <u>15</u> does not have CATCOA = <u>2</u> .	Amend CATCOA <u>for</u> COALNE object to (2) <u>(flat coast)</u> .	4.7.9		Deleted: [ Deleted: ] Deleted: salt pans Deleted: e Deleted: s Deleted: ( Deleted: )
1605	For each ICEARE <u>feature</u> object which is not WITHIN a LNDARE or UNSARE or DEPAARE object of <u>geometric primitive</u> area.	ICEARE not covered by appropriate TG1 objects.	Amend objects to ensure TG1 objects cover.	4.7.10		Deleted: [ Deleted: ] Deleted: flat coast. Deleted: on Deleted: does Deleted: n Deleted: ( Deleted: ) Deleted: [ Deleted: type

1606	For each COALNE <u>feature</u> object where CATCOA <u>is Not equal to 6</u> (glacier (seaward end)) AND which is COINCIDENT with an ICEARE object where CATICE <u>is Equal to 5</u> (glacier).	COALNE without CATCOA = 6 touching an ICEARE with CATICE = 5.	Populate CATCOA = 6 (glacier (seaward end)) for the COALNE object.	4.7.10	Deleted: (...)...[...] Deleted: is ...n...to Deleted: (...)...[glacie
1607a	For each COALNE <u>feature</u> object where CATCOA <u>is Not equal to 7</u> (mangrove) AND is COINCIDENT with a VEGATN object where CATVEG <u>is Equal to 7</u> (mangroves).	Value of CATCOA is not equal to 7 where a VEGATN object with CATVEG = 7 is coincident.	Populate CATCOA = 7 (mangrove) for the COALNE object.	4.7.11	Deleted: (...)...[...] Deleted: is not...(...)...[...] Deleted: (...)...[mangr
1607b	For each VEGATN <u>feature</u> object where CATVEG <u>is Equal to 7</u> (mangroves) AND the QUAPOS of the spatial object <u>is Not equal to 4</u> (approximate).	VEGATN object where CATVEG = 7 without QUAPOS = 4.	Populate QUAPOS = 4 (approximate).	4.7.11	Deleted: (...)...[...] Deleted: (...)...[mangroves] Deleted: (...)...[approximate] Deleted: =...(...)...[...]
1608	For each VEGATN <u>feature</u> object where VERDAT OR VERACC <u>is Present</u> .	<u>Prohibited attribute</u> VERDAT or VERACC <u>populated for a VEGATN object</u> .	Remove values of VERDAT or VERACC.	4.7.11	E Deleted: VEGATN object includes Deleted: are ...presen
1609	For each CANALS <u>feature</u> object where its geometric primitive EQUALS a SEAARE object.	CANALS overlaps SEAARE object.	Amend objects to remove overlap.	4.8.1	W Formatted: Not Deleted: OVERLAPS
1610	For each RAILWY object where VERACC is <u>Present</u> .	<u>Prohibited attribute</u> VERACC <u>populated for a RAILWY object</u> .	Remove value of VERACC.	4.8.2	L
1611	For each TUNNELS object where BURDEP is <u>Present</u> .	<u>Prohibited attribute</u> BURDEP <u>populated for a TUNNELS object</u> .	Remove value of BURDEP.	4.8.3	E Deleted: present Deleted: includes value of BURDEP
1612	<u>Check removed</u> .				
1613	For each TUNNEL <u>feature</u> object which CONTAINS a CANALS object AND where any of HORCLR, VERACC or VERCLR are notNull.	TUNNEL which covers a CANALS object has values of HORCLR, VERACC or VERCLR.	Remove unnecessary attribute values.	4.8.3	Formatted Table Deleted: For each TUNNEL object which is not WITHIN a LNDARE, DEPAARE, UNSARE or DRGARE object: ... [74]
1614	For <u>TUNNEL feature object</u> which CONTAINS any non-hydrographic object. (for this check hydrographic objects are DEPAARE, DEPCNT, DRGARE, LNDARE)	TUNNEL contains non Hydrographic object.	Delete objects within TUNNEL which are unnecessary.	4.8.3	Deleted: each object of type
1615	<u>Check removed</u> .				Formatted Table Deleted: For each TUNNEL object where VERACC is notNull AND VERCLR is null or not present: ... [75]

1616	For each DAMCON <del>feature</del> object where VERDAT OR VERACC <del>is Present</del> .	<del>Prohibited attribute</del> VERDAT or VERACC <del>populated for DAMCON object</del> .	Remove values of VERDAT or VERACC.	4.8.5	Deleted: DAMCON object includes Deleted: are ...presen ... [76]
1617	For each DAMCON <del>feature</del> object of <del>geometric primitive</del> area which is not WITHIN a LNDARE object of <del>geometric primitive</del> area.	DAMCON not covered by LNDARE.	Ensure DAMCON is covered by LNDARE.	4.8.5	C Deleted: type ...type ... [77]
1618	For each DYKCON <del>feature</del> object where VERDAT OR VERACC <del>is Present</del> .	<del>Prohibited attribute</del> VERDAT or VERACC <del>populated for DYKCON object</del> .	Remove values of VERDAT or VERACC.	4.8.7	Deleted: DYKCON object includes Deleted: are ...presen ... [78]
1619	For each DYKCON <del>feature</del> object of <del>geometric primitive</del> area which is not WITHIN a LNDARE object of <del>geometric primitive</del> area.	DYKCON not covered by LNDARE.	Ensure DYKCON is covered by LNDARE.	4.8.7	E Deleted: type ...type ... [79]
1620	For each edge of a DYKCON <del>feature</del> object which is COINCIDENT with both a LNDARE object AND a DEPARE <del>OR</del> DRGARE <del>OR</del> UNSARE object of <del>geometric primitive area</del> AND is not COINCIDENT with an SLCONS of <del>geometric primitive line</del> where CATSLC is not <del>Present</del> .	DYKCON not enclosed by SLCONS object where it forms the boundary between water and land.	Add SLCONS to ensure boundary between land and water is shown.	4.8.7	E Deleted: or ...or ... [80] Deleted: type area...type present ... [81]
1624	<del>Check removed</del>				Formatted Table
1622	<del>Check removed</del>				Deleted: For each ROADWAY object where CATROD equals (7): ... [82]
1623	<del>For each BRIDGE feature</del> object which OVERLAPS a DEPARE or DRGARE object AND its supports are not encoded with PYLONS objects where CATPYL is Equal to 4, (bridge pylon/tower) <del>OR</del> 5, (bridge pier).	BRIDGE over navigable water with supports not encoded using a valid PYLONS object/attribute combination.	Ensure bridge supports are encoded using PYLONS with CATPYL equals (4) (bridge pylon/tower) or (5) (bridge pier).	4.8.10	Deleted: For each BRIDGE object where VERACC is notNull AND none of VERCLR, VERCCL or VERCOP are notNull: ... [83] Deleted: ...e...s...(...)...[...] or...(...)...[...] ... [84] Deleted: [...]...[...] ... [85]
1624	<del>Check removed</del>				Formatted Table
1625	For each AIRARE or RUNWAY <del>feature</del> object encoded using a collection object which is not C_ASSO.	RUNWAY or AIRARE associated using C_AGGR.	Encode association using C_ASSO not C_AGGR.	4.8.12	Deleted: For each CONVYR object where VERACC is notNull AND VERCLR is not present: ... [86] Deleted:
1626	For each AIRARE <del>feature</del> object where CONVIS is <del>Present</del> .	<del>Prohibited attribute</del> CONVIS <del>populated for AIRARE object</del> .	Remove value of CONVIS.	4.8.12	L



1627	For each RUNWAY <del>feature</del> object where CONVIS is <del>Present</del> .	<del>Prohibited attribute CONVIS populated for RUNWAY object.</del>	Remove value of CONVIS.	4.8.12	E	
1628	For each PRDARE <del>feature</del> object where VERDAT OR VERACC <del>is Present</del> .	<del>Prohibited attribute VERDAT or VERACC populated for PRDARE object.</del>	Remove values of VERDAT or VERACC.	4.8.13	E	<del>Deleted: are ...presen ... [87]</del>
1629	For each BUAARE <del>feature</del> object where VERDAT OR VERACC <del>is Present</del> .	<del>Prohibited attribute VERDAT or VERACC populated for BUAARE object.</del>	Remove values of VERDAT or VERACC.	4.8.14		<del>Deleted: includes VERDAT or VERACC</del> <del>Deleted: BUAARE object includes</del> <del>Deleted: are ...presen ... [88]</del>
1630	For each RIVERS, LOKBSN, DOCARE, LAKARE or CANALS <del>feature</del> object of <del>geometric primitive</del> area which OVERLAPS a BUAARE object.	BUAARE object overlaps a RIVERS, LOKBSN, DOCARE, LAKARE or CANALS object of type area.	Amend BUAARE object to remove overlap.	4.8.14		<del>Deleted: type</del>
1631	For each BUISGL <del>feature</del> object where VERDAT OR VERACC <del>is Present</del> .	<del>Prohibited attribute VERDAT or VERACC populated for BUISGL object.</del>	Remove values of VERDAT or VERACC.	4.8.15		<del>Deleted: BUISGL object includes</del> <del>Deleted: are ...presen ... [89]</del>
1632	For each SILTNK <del>feature</del> object where VERDAT OR VERACC <del>is Present</del> .	<del>Prohibited attribute VERDAT or VERACC populated for SILTNK object.</del>	Remove values of VERDAT or VERACC.	4.8.15		<del>Deleted: SILTNK object includes</del> <del>Deleted: are ...presen ... [90]</del>
1633	For each LNDMRK <del>feature</del> object where VERDAT OR VERACC <del>is Present</del> .	<del>Prohibited attribute VERDAT or VERACC populated for LNDMRK object.</del>	Remove values of VERDAT or VERACC.	4.8.15		<del>Deleted: LNDMRK object includes</del> <del>Deleted: are ...presen ... [91]</del>
1634	For each FNCLNE <del>feature</del> object where VERDAT OR VERACC <del>is Present</del> .	<del>Prohibited attribute VERDAT or VERACC populated for FNCLNE object.</del>	Remove values of VERDAT or VERACC.	4.8.16		<del>Deleted: FNCLNE object includes</del> <del>Deleted: are ...presen ... [92]</del>
1635	For each FORSTC <del>feature</del> object where VERDAT OR VERACC <del>is Present</del> .	<del>Prohibited attribute VERDAT or VERACC populated for FORSTC object.</del>	Remove values of VERDAT or VERACC.	4.8.17		<del>Deleted: FORSTC object includes</del> <del>Deleted: are ...presen ... [93]</del>
1636	For each PYLONS <del>feature</del> object where VERDAT OR VERACC are <del>Present</del> .	<del>Prohibited attribute VERDAT or VERACC populated for PYLONS object.</del>	Remove values of VERDAT or VERACC.	4.8.18		<del>Deleted: PYLONS object includes</del> <del>Deleted: present</del>
1637	For each PYLONS <del>feature</del> object of type area where WATLEV is <del>Equal to 1</del> (partly submerged at high water) <del>OR 2</del> (always dry) <del>OR 6</del> (subject to inundation or flooding) which is not WITHIN a LNDARE <del>feature</del> object of <del>geometric primitive</del> area.	PYLONS object with WATLEV 1,2 or 6 not <del>covered by a</del> LNDARE object.	Ensure PYLONS object is <del>covered by</del> LNDARE of <del>geometric primitive</del> area.	4.8.18	E	<del>Deleted: situated on... [94]</del> <del>Deleted: e...s...[...][...] ... [95]</del>
1638	<del>Check renumbered to 1023</del>					<b>Formatted Table</b> <del>Deleted: For each picture file which is not in the TIFF format. Moved to section 2.3 a ... [96]</del>

1639	For each DEPCNT <u>feature</u> object where VERDAT is <u>Present</u> .	<u>Prohibited attribute</u> VERDAT <u>populated</u> for DEPCNT object.	Remove VERDAT.	5.2	E	Deleted: present on
1640	For each SOUNDG <u>feature</u> object where VERDAT is <u>Present</u> .	<u>Prohibited attribute</u> VERDAT <u>populated</u> for SOUNDG object.	Remove VERDAT.	5.3	L	Deleted: present
1641	For each UWTROC <u>feature</u> object which is COINCIDENT with a SOUNDG <u>feature</u> object. (COINCIDENT applies to the horizontal component only).	UWTROC object coincident with SOUNDG object.	Remove object which is not required.	5.3		Deleted: present Deleted: includes VERDAT
1642	For each DEPARE <u>feature</u> object where VERDAT OR SOUACC <u>is Present</u> .	<u>Prohibited attribute</u> VERDAT or SOUACC <u>populated</u> for DEPARE object.	Remove VERDAT or SOUACC.	5.4.1		Deleted: are Deleted: present Deleted: present on a
1643	<u>Check removed</u> .					Formatted Table
1644	For each edge bounding a DEPARE <u>feature</u> object which is COINCIDENT with an M_COVR <u>meta</u> object AND is COINCIDENT with a geo object of type line.	DEPARE object on the edge of data coverage not bounded by line spatial objects without geo objects.	Ensure DEPARE objects at the edge of dataset only have spatial objects without geo objects as their outer boundary.	5.4.2 (Fig.5)		Deleted: Check that where depth contours merge, a DEPAR (type Line) object is created, and that the value for VALDCO on the DEPCNT object is equal to the value for DRVAL1 On the DEPARE object. Deleted: W Deleted: s
1645	<u>Check removed</u> .					Formatted Table
1646	For each DRGARE <u>feature</u> object where DRVAL2 is notNull and it is <u>Equal</u> to the value of DRVAL1	DRVAL1 and DRVAL2 have the same value for a DRGARE object.	Amend values or remove value of DRVAL2.	5.5		Deleted: Check that the overall succession of DRVAL1 and DRVAL2 in the whole maritime area is continuous. Deleted: 5.4.3
1647	For each DRGARE <u>feature</u> object where VERDAT is <u>Present</u> .	<u>Prohibited attribute</u> VERDAT <u>populated</u> for DRGARE object.	Remove VERDAT.	5.5		Deleted: W Deleted: e Deleted: present
1648	For each DRGARE <u>feature</u> object where QUASOU is notNull AND its value <u>is Not equal to 10</u> , (maintained depth) <u>OR 11</u> , (not regularly maintained).	Invalid value of QUASOU on DRGARE.	Remove invalid value of QUASOU.	5.5		Deleted: includes VERDAT Deleted: is Deleted: NOT Deleted: (
1649	For each DRGARE <u>feature</u> object where SOUACC is notNull AND the M_QUAL <u>meta</u> object it lies WITHIN has an <u>Equal OR Less than</u> value of SOUACC.	Value of SOUACC on DRGARE is equivalent to or degrades the value on the underlying M_QUAL.	Amend or remove value of SOUACC as appropriate.	5.5 and 2.2.3.1		Deleted: ) Deleted: [ Deleted: ] Deleted: or Deleted: (
1650	For each SWPARE <u>feature</u> object where VERDAT is <u>Present</u> .	<u>Prohibited attribute</u> VERDAT <u>populated</u> for SWPARE object.	Remove VERDAT.	5.6		Deleted: ) Deleted: [ Deleted: ]
1651	For each SWPARE <u>feature</u> object which is not WITHIN DEPARE and/or DRGARE objects of type area.	SWPARE not covered by DRGARE or DEPARE objects.	Amend limits of SWPARE or edit DEPARE and/or DRGARE objects.	5.6		Deleted: equivalent Deleted: or Deleted: lesser Deleted: present Deleted: includes VERDAT

1652	For each SWPARE <u>feature</u> object which EQUALS an M_QUAL <u>meta</u> object AND the DRVAL1 values of the two objects are <u>Not equal</u> .	SWPARE object sharing the position and geometry of M_QUAL object but DRVAL1 Values are not equal.	Amend values of DRVAL1.	5.6	F	Deleted: n
1653	For each SWPARE <u>feature</u> object where SOUACC is notNull WITHIN an M_QUAL <u>meta</u> object where SOUACC is notNull AND the value of SOUACC for the M_QUAL <u>meta</u> object is <u>Not equal</u> to the value of SOUACC of the SWPARE object .	SOUACC on M_QUAL object does not apply to all <u>soundings</u> it covers.	Amend or remove the SOUACC value from one of the objects.	5.6		Deleted: SOUNDINGS
1654	For each SWPARE <u>feature</u> object where TECSOU is notNull AND <u>is Not equal to 6</u> (swept by wire-drag) <u>OR</u> 8 (swept by vertical acoustic system) <u>OR</u> 13 (swept by side-scan sonar).	<u>Prohibited value of TECSOU for a SWPARE object</u> .	Ensure value of TECSOU is an allowable value.	5.6		Deleted: not EQUAL
1655	For each SWPARE <u>feature</u> object which EQUALS an M_QUAL <u>meta</u> object where POSACC AND SOUACC <u>are</u> encoded.	POSACC and SOUACC encoded on M_QUAL object which covers SWPARE object.	Remove POSACC.	5.6		Deleted: TECSOU on SWPARE object not an allowable v
1656	For each UWTRROC <u>feature</u> object where VERDAT is <u>Present</u> .	<u>Prohibited attribute VERDAT populated for UWTRROC object</u> .	Remove VERDAT.	6.1.2		Deleted: is not
1657	For each UWTRROC <u>feature</u> object where the values of VALSOU, QUASOU, WATLEV, TECSOU <u>and</u> SOUACC are not as defined in the table below (additional values may be encoded).	Illogical attribute values for UWTRROC object.	Amend to logical combination.	6.1.2		Deleted: alue.
	VALSOU	QUASOU	WATLEV	TECSOU SOUACC		Deleted: (
	unknown	2 <u>OR</u> not <u>Present</u>	3, 4 <u>OR</u> 5	Not <u>Present</u>		Deleted: )
		2 <u>OR</u> not <u>Present</u>	unknown	Not <u>Present</u>		Deleted: [
		1, 3, 4, 6, 8, 9 <u>OR</u> not <u>Present</u>	4	notNull		Deleted: ]
	< 0	7	4	Not <u>Present</u>		Deleted: ,
		1, 3, 4, 6, 8, 9 <u>OR</u> not <u>Present</u>	5	notNull		Deleted: (
	0	7	5	Not <u>Present</u>		Deleted: )
		1, 3, 4, 6, 8 <u>OR</u> 9 <u>OR</u> not <u>Present</u>	3	notNull		Deleted: [
	> 0	7	3	Not <u>Present</u>		Deleted: ]
						Deleted: or
						Deleted: (
						Deleted: )
						Deleted: [
						Deleted: ]
						Deleted: or
						Deleted: (
						Deleted: )
						Deleted: [
						Deleted: ]
						Deleted: is
						Deleted: present on
						Deleted: present
						Deleted: AND
						Deleted: or
						Deleted: present
						Deleted: or
						Deleted: present
						Deleted: or
						Deleted: present
						Deleted: present
						Deleted: or
						Deleted: or
						Deleted: present
						Deleted: present

1658	For each WRECKS <del>feature</del> object where <del>VERDAT OR VERACC OR VERLEN</del> are <del>Present</del> .	<del>Prohibited attribute</del> VERDAT, VERACC or VERLEN <del>populated for</del> WRECKS object.	Remove VERDAT, VERACC or VERLEN.	6.2.1	E Deleted: any of Deleted: , Deleted: and
1659	For each WRECKS <del>feature</del> object where VALSOU is notNull AND EXPSOU <del>is Equal to 1 (within the range of depth of the surrounding depth area)</del> OR is not <del>Present</del> AND VALSOU is <del>Less than or equal to the DRVAL1 OR Greater than</del> DRVAL2 of the DEPARE OR DRGARE object it is WITHIN AND DRVAL1 AND DRVAL2 are notNull AND <del>Not equal</del> .	VALSOU <del>for</del> WRECKS object with EXPSOU = 1 or not present <del>is</del> outside of the range of the underlying depth area.	Populate an appropriate value of EXPSOU.	6.2.1	Deleted: present Deleted: present Deleted: on Deleted: on Deleted: is equal to Deleted: ( Deleted: and Deleted: ) or Deleted: present Deleted: I Deleted: greater than
1660	For each WRECKS <del>feature</del> object where VALSOU is notNull AND EXPSOU <del>is Equal to 2 (shoaler than the range of the depth of the surrounding depth area)</del> AND the value of VALSOU is <del>Greater than</del> the DRVAL1 of the DEPARE or DRGARE object it is WITHIN AND DRVAL1 is notNull.	WRECKS object where EXPSOU = <del>2</del> but with a VALSOU greater than the <del>DRVAL1 of the underlying DEPARE/DRGARE</del> .	Populate appropriate value of EXPSOU.	<del>6.2.1</del>	Deleted: n Deleted: . Deleted: 0 Deleted: equals ( Deleted: ) Deleted: is equal to Deleted: ( Deleted: ) Deleted: DRVAL1 Deleted: greater than
1661a	For each WRECKS <del>feature</del> object where VALSOU is notNull AND EXPSOU <del>is Equal to 3 (deeper than the range of depth of the surrounding depth area)</del> AND the VALSOU is <del>Less than or equal</del> to DRVAL2 of the DEPARE it is WITHIN where DRVAL2 is not unknown.	WRECKS with EXPSOU = <del>3</del> and a VALSOU less than DRVAL2 of the underlying DEPARE.	Amend value of EXPSOU to a logical value.	6.2.1	Deleted: ( Deleted: ) Deleted: = Deleted: ( Deleted: ) Deleted: I Deleted: equal
1661b	For each WRECKS <del>feature</del> object where EXPSOU <del>is Equal to 3 (deeper than the range of depth of the surrounding depth area)</del> AND the VALSOU is <del>Less than or equal</del> to the DRVAL2 of the DRGARE it is WITHIN where DRVAL1 AND DRVAL2 are notNull.	WRECKS with EXPSOU = <del>3</del> and a VALSOU less than DRVAL2 of the underlying DRGARE.	Amend value of EXPSOU to a logical value.	<del>6.2.1</del>	Deleted: 6.1.2 Deleted: = Deleted: ( Deleted: ) Deleted: ( Deleted: ) Deleted: I Deleted: equal

1661c	For each WRECKS <b>feature</b> object where EXSPOU <b>is Equal to 3 (deeper than the range of depth of the surrounding depth area)</b> , <b>AND</b> the VALSOU is <b>Less than or is equal</b> to the DRVAL1 of the DRGARE object it is within where DRVAL2 is not <b>P</b> resent.	WRECKS with EXPSOU= 3 but with a VALSOU less than DRVAL1 of the underlying DRGARE when only DRVAL1 is populated.	Amend value of EXPSOU to a logical value.	6.2.1	Deleted: 6.1.2 Deleted: = Deleted: ( Deleted: ) Deleted: ( Deleted: ) Deleted: where Deleted: l Deleted: equal Deleted: p Deleted: object Deleted: type Deleted: type		
1662	For each WRECKS <b>OR</b> OBSTRN <b>feature</b> object of <b>geometric primitive</b> area which is not <b>WITHIN</b> a DEPEND, LNDARE or UNSARE object of type area.	Area WRECKS or OBSTRN object not within a DEPEND, LNDARE or UNSARE <b>object</b> .	Amend to ensure appropriate group 1 object is the underlying object.	6.2.1 and 6.2.2	Deleted: s Deleted: ;		
1663	For each WRECKS <b>feature</b> object where the attribute values do not correspond to the table below.	WRECKS object with illogical attribute combination.	Amend attributes in accordance with the logical values defined in the table.	6.2.1	W Deleted: s Deleted: ;		
	VALSOU	WATLEV	CATWRK	QUASOU	HEIGHT	TECSOU SOUACC	
	Undefined	3 <b>OR</b> unknown	1, 2, 3 <b>OR</b> unknown	2 <b>OR</b> undefined	Undefined	Undefined	Deleted: or
		4 <b>OR</b> 5	Any value	2 <b>OR</b> undefined	Undefined	Undefined	Deleted: or
		1 <b>OR</b> 2	4, 5 <b>OR</b> unknown	Undefined	Any value	Undefined	Deleted: or
	Unknown	3 <b>OR</b> unknown	1, 2, 3 <b>OR</b> undefined	2 <b>OR</b> undefined	Undefined	Undefined	Deleted: or
		4 <b>OR</b> 5	Any value	2 <b>OR</b> undefined	Undefined	Undefined	Deleted: or
		1 <b>OR</b> 2		Undefined	Any value	Undefined	Deleted: or
	< 0	4	Any value	7	Undefined	Undefined	Deleted: or
		4	Any value	1, 3, 4, 6, 8, 9 <b>OR</b> undefined	Undefined	Any value	Deleted: or
	0	5	1, 2, 3 <b>OR</b> undefined	7	Undefined	Undefined	Deleted: or
		5	Any value	1, 3, 4, 6, 8, 9 <b>OR</b> undefined	Undefined	Any value	Deleted: or
	> 0	3	1, 2, 3 <b>OR</b> undefined	7	Undefined	Undefined	Deleted: or
		3	1, 2, 3 <b>OR</b> undefined	1, 3, 4, 6, 8, 9 <b>OR</b> undefined	Undefined	Any value	Deleted: or
1664	For each OBSTRN <b>feature</b> object where VERACC or VERDAT is <b>P</b> resent.	<b>Prohibited attribute</b> VERACC or VERDAT <b>populated for</b> OBSTRN object.	Remove VERACC or VERDAT.	6.2.2	Deleted: or Deleted: or Deleted: or Deleted: or Deleted: p Deleted: present on		

1665	For each OBSTRN <u>feature</u> object where VALSOU is notNull AND EXPSOU is <u>Equal to 1 (within the range of depth of the surrounding depth area)</u> OR not Present AND VALSOU is <u>Less than or equal to DRVAL1 OR Greater than</u> DRVAL2 of the DEPARE or DRGARE object it is WITHIN where DRVAL1 AND DRVAL2 are notNull.	<u>VALSOU for</u> OBSTRN object with EXPSOU = <u>1</u> or not present <u>is outside of the range of the underlying depth area</u>	Populate an appropriate value of EXPSOU.	6.2.2	E	Deleted: ( Deleted: ) Deleted: equal Deleted: ( Deleted: which Deleted: of DRVAL1 and DRVAL2. Deleted: ) or Deleted: p Deleted: l Deleted: greater than Deleted: equals ( Deleted: ) Deleted: e Deleted: ( Deleted: ) Deleted: DRVAL1 Deleted: greater than
1666	For each OBSTRN <u>feature</u> object where VALSOU is notNull AND EXPSOU is <u>Equal to 2 (shoaler than the range of depth of the surrounding depth area)</u> AND the value of VALSOU is <u>Greater than</u> the DRVAL1 of the DEPARE or DRGARE object it is WITHIN AND DRVAL1 is notNull.	OBSTRN object where EXPSOU = <u>2</u> , but with a VALSOU greater than the <u>DRVAL1 of the underlying DEPARE/DRGARE.</u>	Populate appropriate value of EXPSOU.	6.2.2	E	Deleted: ( Deleted: ) Deleted: = Deleted: ( Deleted: ) Deleted: less than Deleted: equal
1667a	For each OBSTRN <u>feature</u> object where VALSOU is notNull AND EXPSOU <u>is Equal to 3 (deeper than the range of depth of the surrounding depth area)</u> AND the VALSOU is <u>Less than or equal</u> to DRVAL2 of the DEPARE it is WITHIN where DRVAL2 is not unknown.	OBSTRN with EXPSOU = <u>3</u> and a VALSOU less than DRVAL2 of the underlying DEPARE.	Amend value of EXPSOU to a logical value.	6.2.2	E	Deleted: = Deleted: ( Deleted: ) Deleted: ( Deleted: ) Deleted: l Deleted: equal
1667b	For each OBSTRN <u>feature</u> object where EXPSOU <u>is Equal to 3 (deeper than the range of depth of the surrounding depth area)</u> AND the VALSOU is <u>Less than or equal</u> to the DRVAL2 of the DRGARE it is WITHIN where DRVAL1 AND DRVAL2 are notNull.	OBSTRN with EXPSOU = <u>3</u> and a VALSOU less than DRVAL2 of the underlying DRGARE.	Amend value of EXPSOU to a logical value.	6.2.2	E	Deleted: = Deleted: ( Deleted: ) Deleted: ( Deleted: ) Deleted: l Deleted: equal



1667c	For each OBSTRN <b>feature</b> object where EXSPOU <b>is Equal to 3 (deeper than the range of depth of the surrounding depth area)</b> , where the VALSOU is <b>Less than or equal</b> to the DRVAL1 of the DRGARE object it is within where DRVAL2 is not <b>Present</b> .	OBSTRN with EXPSOU= <b>3</b> , but with a VALSOU less than DRVAL1 of the underlying DRGARE when only DRVAL1 is populated.	Amend value of EXPSOU to a logical value.	6.2.2	E
					Deleted: =
					Deleted: (
					Deleted: )
					Deleted: (
					Deleted: )
					Deleted:
					Deleted: equal
1668	For each OBSTRN <b>feature</b> object where PRODC T is <b>Present</b> AND CATOBS <b>is Not equal to 2 (wellhead) OR 3 (diffuser)</b> .	OBSTRN object with a value for PRODC T without a logical value of CATOBS.	Remove value of PRODC T or populate logical value of CATOBS.	Logical consistency	Deleted: present
					Deleted: present
					Deleted: is not
1669	For each OBSTRN <b>feature</b> object where the attribute values do not correspond to the table below;	OBSTRN object with illogical attribute value combinations.	Populate logical attribute value combinations.	6.2.2	Deleted: (
					Deleted: )
					Deleted: [
					Deleted: ]
	VALSOU	WATLEV	QUASOU	TECSOU SOUACC	HEIGHT
	Unknown	3, 4, 5, <b>OR</b> unknown	2, <b>OR</b> undefined	Undefined	Undefined
		1, <b>OR</b> 2	Undefined	Undefined	Any value
		7	Undefined	Undefined	Undefined
	< 0	4	1, 3, 4, 6, 8, 9, <b>OR</b> undefined	Any value	Undefined
		4	7	Undefined	Undefined
	0	5	1, 3, 4, 6, 8, 9, <b>OR</b> undefined	Any value	Undefined
	> 0	3	1, 3, 4, 6, 8, 9, <b>OR</b> undefined	Any value	Undefined
		3	7	Undefined	Undefined
					Deleted: or
					Deleted: (
					Deleted: )
					Deleted: [
					Deleted: ]
					Deleted: s
					Deleted: or
					Deleted: or
					Deleted: or
					Deleted: or
					Deleted: or

1670	For each WRECKS or OBSTRN <b>feature</b> object of <b>geometric primitive</b> area which CONTAINS objects of type WRECKS or OBSTRN of <b>geometric primitive</b> point AND the values of EXPSOU, QUASOU, SOUACC, VALSOU and WATLEV of the area object are <b>Not</b> equal to the values of the shallowest point object.	Point WRECKS or OBSTRN within area WRECKS or OBSTRN have attribute values not reflected on the area object.	Ensure area object attribute values reflect the shallowest point object.	6.3.2	W	Deleted: type
						Deleted: type
						Deleted: not
1671	For each <b>feature</b> object of <b>geometric primitive</b> line which is COINCIDENT with an area object of the same object <b>class</b> and attribute values except attributes SORIND, SORDAT and SCAMIN.	Line object touching object with the same attribute values except SORIND, SORDAT and SCAMIN.	Delete unnecessary object.	Logical consistency	W	Deleted: type
						Deleted: type
1672	For each <b>feature</b> object of <b>geometric primitive</b> point which is WITHIN an object of the same class of <b>geometric primitive area</b> AND which has the same attribute values AND is not a LNDARE, OBSTRN or WRECKS <b>feature object</b> .	Object with the same attributes within an identical object.	Delete repeated object or amend attributes accordingly.	Logical consistency	E	Deleted: type
						Deleted: of type
1673a	For each SBDARE <b>feature</b> object where NATSUR values are not separated by a slash or comma (without spaces).	NATSUR values not separated by comma or slash.	Insert slash or comma as required.	7.1	E	
1673b	For each SBDARE <b>feature</b> object where NATSUR starts or ends with a comma or a slash.	NATSUR starts or ends with a comma or a slash.	Remove unnecessary comma or slash.	7.1	E	
1673c	For each SBDARE <b>feature object</b> where NATSUR contains ',,', <b>OR</b> '//'. <b>OR</b>	Consecutive comma or slash within NATSUR on SBDARE object.	Remove unnecessary comma or slash.	7.1	E	Deleted: or
1673d	For each SBDARE <b>feature object</b> where the NATQUA and NATSUR attributes do not contain an <b>E</b> qual number of commas (or slashes).	NATQUA and NATSUR have different numbers of commas (or slashes).	Ensure appropriate commas (or slashes) are used to separate values.	7.1	E	Deleted: e

1673e	For each SBDARE <del>feature</del> object where NATSUR contains '9/ '.	NATSUR contains '9/ '. (Rock is encoded as the surface layer, it should be underlying).	Remove inappropriate NATSUR contents.	7.1	E	
1674	For each SBDARE <del>feature object of geometric primitive area</del> WITHIN a DEPAARE where DRVAL1 is <del>Less than 0</del> AND WATLEV is <del>Not equal to 4</del> (covers and uncovers).	SBDARE object in drying area without WATLEV = 4.	Populate WATLEV = (4) (covers and uncovers).	7.1(e) and 7.1 (g)	W	<div>Deleted: or type...A...less than...is ...not equal to ... [97]</div> <div>Deleted: [...] ... [98]</div> <div>Deleted: (...) ... [99]</div>
1675	For each SNDWAV <del>feature</del> object where VERACC is <del>Present</del> .	<del>Prohibited attribute</del> VERACC <del>populated for</del> SNDWAV object.	Remove VERACC.	7.2.1	E	Deleted: present on
4676	<del>Check removed</del> .					Deleted: present
1677	For each MORFAC <del>feature</del> object where BOYSHP is <del>Present</del> AND CATMOR is <del>Not equal to 7</del> (mooring buoy).	MORFAC with BOYSHP without CATMOR = 7 (mooring buoy).	Populate CATMOR = (7) or remove BOYSHP.	4.6.7.1		Formatted Table
1678	For each RECTRC <del>feature</del> object where VERDAT OR DRVAL2 is <del>Present</del> .	<del>Prohibited attributes</del> VERDAT or DRVAL2 <del>populated for</del> RECTRC object.	Remove VERDAT or DRVAL2.	10.1.1		<div>Deleted: Check that any RESARE object having a value of (24) for the attribute CATREA also has a value of (13) for the attribute R ... [100]</div> <div>Deleted: d</div> <div>Deleted: present...is ... [101]</div> <div>Deleted: [...] ... [102]</div>
1679	For each <del>feature</del> object where attributes of the following types enumerated ('E'), float ('F'), integer ('I') or code string ('A') have more than one value.	More than one value present for attributes of the following types; enumerated ('E'), float ('F'), integer ('I') or code string ('A').	Remove unnecessary values.			Deleted: are ... [103]
4680	<del>Check removed</del> .					Formatted Table
1681	For each RECTRC <del>feature</del> object of <del>geometric primitive</del> line where ORIENT is notNull AND the direction of digitising is <del>more</del> than 5 degrees <del>Greater than OR Less</del> than the value of ORIENT.	RECTRC where ORIENT does not correspond to the direction of digitising.	Amend value of ORIENT.	10.1.1		<div>Deleted: Check that no RECTRC object contains a value of (3) for the attribute STATUS. ... [104]</div> <div>Deleted: type</div> <div>Formatted: English (U.K.)</div> <div>Deleted: not greater...g...than ...o ... [105]</div>
1682	For each RECTRC or NAVLNE <del>feature</del> object which is not part of a C_AGGR collection object AND is not a RECTRC object with CATTRK is <del>Equal</del> to 2 (not based on a system of fixed marks).	RECTRC or NAVLNE object is not part of a C_AGGR collection <del>object</del> .	Add to C_AGGR collection object.	10.1.2	W	<div>Deleted: (except RECTRC where CATTRK=2)</div> <div>Deleted: equal...( ) ... [106]</div>

1683	For each C_AGGR object with a single instance of both NAVLNE AND RECTRC AND their ORIENT values are <del>Not equal</del> <u>OR reciprocal</u> .	RECTRC and NAVLNE as part of a C_AGGR do not have consistent values of ORIENT.	Amend values of ORIENT to agree.	10.1.2	C	Deleted: n
1684	For each group of <u>feature</u> objects forming a measured distance where the beacons and transit lines are not aggregated into a C_AGGR collection object AND the C_AGGR collection objects are not aggregated into another C_AGGR object including the track to be followed.	Measured distance not grouped using C_AGGR collection objects.	Encode C_AGGR objects and relate as appropriate.	10.1.3	E	Deleted: or
1685	For each <u>TSSBND feature</u> object <del>that</del> is not COINCIDENT with the outer limit of a TSSRON, TSSLPT or TSSZNE.	TSSBND not on the outer limit of an appropriate TSS object.	Amend TSSBND or other TSS objects so that it forms the outer limit.	10.2.1.2	E	Deleted: of type TSSBND
1686	For each TSELNE <u>feature</u> object which is not COINCIDENT with two TSSLPT objects OR one TSSLPT object and one ISTZNE object.	TSSLNE does not separate TSSLPT objects or TSSPLT and ISTZNE objects.	Amend TSELNE to ensure it separates appropriate objects.	10.2.1.3	E	
1687	For each TSEZNE <u>feature</u> object which is not COINCIDENT with two TSSLPT objects OR one TSSLPT object and one ISTZNE object OR COINCIDENT with a TSSRON object.	TSEZNE does not separate appropriate TSS objects.	Amend TSSZNE to separate appropriate objects.	10.2.1.4	E	
1688	For each TSSCRS <u>feature</u> object which does not touch <u>Greater than</u> 3 TSSLPT or TWRTPT objects.	TSSCRS object does not encode a crossing of 4 or more lanes.	Encode all lane parts or use another object.	10.2.1.5	E	Deleted: greater than
1689	For each TSSCRS <u>feature</u> object which OVERLAPS a TSEZNE object.	TSSCRS object overlaps TSEZNE object.	Amend objects to remove overlap.	10.2.1.5	E	
1690	For each TSSRON <u>feature</u> object which OVERLAPS a TSEZNE object.	TSSRON object overlaps TSEZNE object.	Amend objects to remove overlap.	10.2.1.6	E	
1691	For each DWRTPT <u>feature</u> object where VERDAT <u>OR</u> DRVAL2 <del>is Present</del> .	<u>Prohibited attribute</u> VERDAT or DRVAL2 <u>populated for</u> <u>DWRTPT object</u> .	Remove inappropriate attribute value.	10.2.2.1	E	Deleted: DWRTPT object carries Deleted: or Deleted: are Deleted: attribute. Deleted: present

1692	For each DWRTPT <del>feature</del> object which is NOT WITHIN the combined coverage of <del>DEPARE AND DRGARE objects.</del>	DWRTPT object not covered DEPARE or DRGARE object.	Encode appropriate DEPARE or DRGARE objects.	10.2.2.1	E	Deleted: s Deleted: objects of type ... [107]
1693	For <del>each</del> DWRTPT <del>or</del> DWRTCL <del>feature object</del> where OBJNAM is notNull AND the object is aggregated in a collection object.	DWRTPT or DWRTCL object with OBJNAM form part of a collection object.	<del>Remove object from collection object.</del> Encode the name using the C_AGGR meta object or create a SEARRE. Remove it from DWRTPT or/and DWRTCL.	10.2.2.1		Deleted: each object of type and ... [108] Formatted Table Deleted: s
1694	For each DWRTCL <del>feature</del> object where ORIENT is notNull AND TRAFIC <del>is Equal to 1 (inbound) OR 2 (outbound) OR 3 (one-way)</del> AND the direction of digitising is <del>more than 5 degrees Greater than OR Less than the value of ORIENT.</del>	One way DWRTCL where ORIENT does not correspond to the direction of digitising.	Amend value of ORIENT.	10.2.2.2	C	Deleted: equals (...)(...)(...)or (...3)...not greater...g...than ...o ... [109]
1695	For each DWRTCL <del>feature</del> object where VERDAT <del>OR DRVAL2 is Present.</del>	<del>Prohibited attribute</del> VERDAT or DRVAL2 <del>populated for</del> DWRTCL object.	Remove VERDAT or DRVAL2.	10.2.2.2	E	Deleted: or ...are ... [110]
1696	For each RCRTCL <del>feature object</del> where TRAFIC <del>is Equal to 1 (inbound) OR 2 (outbound) OR 3 (one-way)</del> AND the direction of digitizing is <del>more than 5 degrees Greater than or Less than the value of ORIENT.</del>	One way RCRTCL where ORIENT does not correspond to the direction of digitising.	Amend value of ORIENT.	10.2.4	C	Deleted: e...s...(....)(....)....or (...)...not ...g...l ... [111]
1697	For each RCRTCL <del>feature</del> object where VERDAT <del>OR DRVAL2 is Present.</del>	<del>Prohibited attribute</del> VERDAT or DRVAL2 <del>populated for</del> RCRTCL object.	Remove VERDAT or DRVAL2.	10.2.4		Deleted: RCRTCL has Deleted: or ...are ... [112]
1698	For each TWRTPT <del>feature</del> object where VERDAT <del>OR DRVAL2 is Present.</del>	<del>Prohibited attribute</del> VERDAT or DRVAL2 <del>populated for</del> TWRTPT object.	Remove VERDAT or DRVAL2.	10.2.6	E	Deleted: or ...are ... [113]
1699	For each FAIRWY <del>feature</del> object where VERDAT is <del>Present.</del>	<del>Prohibited attribute</del> VERDAT <del>populated for</del> FAIRWY object.	Remove VERDAT.	10.4	E	Deleted: present on Deleted: present
1700	For each TESARE <del>feature</del> object which OVERLAPS an EXEZNE object.	TESARE object overlaps EXEZNE object.	Amend limits to remove overlap.	11.2		
1701	For each CBLSUB <del>feature</del> object where VERDAT is <del>Present.</del>	<del>Prohibited attribute</del> VERDAT <del>populated for</del> CBLSUB object.	Remove VERDAT.	11.5.1	E	Deleted: present on Deleted: present

1702	For each object of type CBLSUB where STATUS is <u>Equal to 4</u> (not in use) AND CATCBL is notNull.	CBLSUB <u>where</u> STATUS = <u>4</u> and <u>has</u> a value for CATCBL.	Amend CATCBL or STATUS.	11.5.1	Deleted: has ...(...)...[not in use] ... [114] Deleted: e...s...(...)... [115]
1703	For each CBLSUB <u>feature object</u> where CATCBL is <u>Equal to 3</u> (transmission line).	CBLSUB object where CATCBL = <u>3</u> .	Remove prohibited value of CATCBL.	11.5.1	Deleted: object of type ... = (3)...[...]... [116] Deleted: (...) [117]
1704	For each CBLOHD <u>feature object</u> where VERDAT is <u>Present</u> and VERCLR and VERCSA are not <u>Present</u> .	VERDAT populated for CBLOHD object without value of VERCLR or VERCSA.	Populate VERCLR or VERCSA otherwise remove VERDAT.	11.5.2	E Deleted: present...p (...) [118]
4705	<u>Check removed</u> .				Formatted Table
1706	For each CBLOHD, CBLSUB, PIPSOL or PIPOHD <u>feature object</u> where CONDTN is notNull AND is <u>Not equal to 1</u> (under construction) OR <u>5</u> (planned construction).	CBLOHD, CBLSUB, PIPSOL or PIPOHD object where CONDTN is <u>Not equal 1</u> or <u>5</u> .	Amend value of CONDTN accordingly.	11.5.1, 11.5.2, 11.6.1 and 11.6.3	Deleted: Check that no CBLOHD object contains an attribute value for VERACC, without an attribute value for at least one of VERCLR or VERCSA: ... [119] Deleted: not ...(...)... [120] Deleted: not (...)...[...]...or...(...)... [121] Deleted: object of type ... = (3)...[...]...or...(...)... [122] Deleted: status ...(...)... not in use ... [123]
1707	For each CBLARE <u>feature object</u> where CATCBL is <u>Equal to 3</u> (transmission line) OR <u>6</u> (mooring cable/chain).	CBLARE has an inappropriate value of CATCBL.	Amend to appropriate value of CATCBL or remove.	11.5.3	Deleted: e...s...(...)...[pr esent] ... [124] Deleted: (...) [125]
1708	For each PIPSOL <u>feature object</u> where VERDAT OR VERACC is <u>Present</u> .	<u>Prohibited attributes</u> VERDAT or VERACC <u>populated for</u> PIPSOL object.	Remove VERDAT or VERACC.	11.6.1	Formatted Table Deleted: Check that no PIPOHD object has an attribute value for VERACC without an attribute value for VERCLR: ... [126] Deleted: Check that no PIPOHD object has an attribute value for VERDAT without an attribute value for VERCLR: ... [127] Deleted: status ...(...)... not in use ...s ... [128]
1709	For each PIPSOL <u>feature object</u> where STATUS is <u>Equal to 4</u> (not in use) AND CATPIP is <u>Present</u> .	PIPSOL has <u>STATUS = 4</u> and <u>has</u> a value for CATPIP.	Remove value of CATPIP if STATUS equals <u>4</u> (not in use).	11.6.1	Deleted: e...s...(...)...[...]...or are ...present ... [129] Deleted: (...) [130]
4740	<u>Check removed</u> .				Deleted: resnet on... [131] Deleted: present Formatted Table
4744	<u>Check removed</u> .				Deleted: Check that any QBSTRN object that has a value of (2) for the attribute CATOBS also has a value of (4) for the attribute ST ... [132] Deleted: are ... [133]
1712	For each PIPOHD <u>feature object</u> where STATUS is <u>Equal to 4</u> (not in use) AND CATPIP OR <u>PRODCT is Present</u> .	PIPOHD has <u>STATUS = 4</u> and <u>has</u> a value for CATPIP or PRODCT.	Remove values of CATPIP or PRODCT if STATUS equals <u>4</u> (not in use).	11.6.3	
1713	For each PIPARE <u>feature object</u> where CONDTN is <u>Present</u> .	<u>Prohibited attribute</u> CONDTN <u>populated for</u> PIPARE object.	Remove CONDTN.	11.6.4	
4744	<u>Check removed</u> .				
1715	For each OFSPLF <u>feature object</u> where VERDAT OR VERACC is <u>Present</u> .	<u>Prohibited attributes</u> VERDAT or VERACC <u>populated for</u> OFSPLF object.	Remove VERDAT or VERACC.	11.7.2	
1716	For each OSPARE <u>feature object</u> where VERACC is <u>Present</u> .	<u>Prohibited attribute</u> VERACC <u>populated for</u> OSPARE object.	Remove VERACC	11.7.4	



1717	For each FSHFAC <u>feature</u> object where VERACC is <u>Present</u> .	<u>Prohibited attribute VERACC populated for FSHFAC object.</u>	Remove VERACC	11.9.1	E	Deleted: present
1718	For each MARCUL <u>feature</u> object where VERDAT is <u>Present</u> .	<u>Prohibited attribute VERDAT for MARCUL object.</u>	Remove VERDAT.	11.9.2		Deleted: MARCUL carries VERACC attribute
1719	For each MARCUL <u>feature</u> object where the attribute values do not correspond to the table below. For each specific case, when QUASOU (attribute of type List) is encoded, it should contain one or more values selected from the list of allowed values given in the table. In addition, other attributes which do not appear in the table may be encoded.	Illogical attribute combination for MARCUL.	Amend <u>attribute</u> values to reflect a logical scenario.	11.9.2		Deleted: present
						Deleted: carries VERDAT attribute
						Deleted: attribtue
						Deleted: ;
	WATLEV	VALSOU	QUASOU			Deleted: or
	1, 2, 5, <u>OR</u> 7	Undefined	Undefined			Deleted: or
	4	< 0	1, 3, 4, 6, 7, 8, 9, <u>OR</u> undefined			Deleted: or
		Undefined, <u>OR</u> unknown	2, <u>OR</u> undefined			Deleted: or
	5	0	1, 3, 4, 6, 8, 9, <u>OR</u> undefined			Deleted: or
		Undefined, <u>OR</u> unknown	2, <u>OR</u> undefined			Deleted: or
	3	> 0	1, 3, 4, 6, 7, 8, 9, <u>OR</u> undefined			Deleted: or
		Unknown	2, <u>OR</u> undefined			Deleted: or
	Unknown	Unknown	2, <u>OR</u> undefined			Deleted: or
1720	For each ICEARE <u>feature</u> object where VERDAT OR VERACC <u>is Present</u> .	<u>Prohibited attribute VERDAT or VERACC populated for ICEARE object.</u>	Remove VERDAT or VERACC.	11.13.1		Deleted: or
						Deleted: or
						Deleted: are
1721	For each RADRFL <u>feature</u> object which is associated with a navigational aid (BCNXXX, BOYXXX, LITFLT, LITVES <u>feature</u> objects).	RADRFL encoded on a navigational aid.	<u>Populate</u> CONRAD = 3, (radar conspicuous has radar reflector), <u>for</u> the navigational aid object.	12.1.1		Deleted: present
						Deleted: present on
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1722a	For each navigational aid equipment <b>feature</b> object which is not a slave to a navigational aid structure object OR another navigational aid equipment object. NOTE: CRANES, FLODOC, FORSTC, FSHFAC, HULKES, PONTON, OBSTRN, PYLONS, SILTNK and WRECKS objects must be considered as possible structure objects, in addition to the list given in Annex A (12.1.1).	Equipment <b>feature</b> object which is not a slave of a structure or another equipment object.	Amend equipment object to slave.	12.1.2 and 12.1.1	W
1722b	For each DAYMAR <b>feature</b> object <b>that</b> EQUALS another structure object and is not marked as an equipment object NOTE: CRANES, FLODOC, FORSTC, FSHFAC, HULKES, PONTON, OBSTRN, PYLONS, SILTNK and WRECKS objects must be considered as possible structure objects, in addition to the list given in Annex A (12.1.1).	DAYMAR marked as structure object where another exists.	Amend DAYMAR to slave.	12.1.2 and 12.1.1	W
1723	For each point <b>feature</b> object forming the same navigational aid which does not <b>reference</b> the same spatial object.	Object forming a navigational aid does not point to the same spatial object.	Ensure all components point to the same spatial object.	12.1.2	C
1724	For each navigational aid equipment <b>feature</b> object where OBJNAM <b>is Equal to</b> the OBJNAM of the master object.	OBJNAM on navigational aid equipment object repeats that of the master object.	Remove repeated OBJNAM value.	12.1.2	W

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1725	For each master/slave relationship where all component <b>feature</b> objects (master and slaves) are of the classes DAYMAR, FOGSIG, LIGHTS, RADSTA, RDOSTA, RETRFL, RTPBCN, SISTAT, SISTAW and/or TOPMAR AND where at least one object DAYMAR or LIGHTS is in the list AND where a DAYMAR or a LIGHTS is not the master object.	Equipment object does not have coincident DAYMAR or LIGHTS object as a master.	Amend relationship so that the equipment object is slave to the LIGHTS or DAYMAR object.	12.1.2	W	
1726	If the M_COVR <b>meta</b> object where CATCOV <b>is Equal to 1 AND is Not equal to</b> the combined coverage of M_NSYS <b>meta</b> objects where MARSYS is notNull.	Data coverage not completely covered by M_NSYS objects with a value for MARSYS.	Ensure complete coverage of M_NSYS objects with MARSYS populated.	12.2	C	<div>Deleted: =</div> <div>Deleted: does</div> <div>Deleted: n</div> <div>Deleted: EQUAL</div>
1727	For each M_NSYS <b>meta</b> object where MARSYS is notNull which OVERLAPS an <b>other meta</b> M_NSYS object where MARSYS is notNull.	M_NSYS objects with MARSYS values overlap.	Amend limits of M_NSYS objects to remove overlap.	12.2	C	
1728	For each M_NSYS <b>meta</b> object where ORIENT is notNull which OVERLAPS an <b>other meta</b> M_NSYS object where ORIENT is notNull.	M_NSYS objects with ORIENT values overlap.	Amend limits of M_NSYS objects to remove overlap.	12.2	E	
1729	For each <b>feature</b> object forming part of a BCNXX or BOYXX object AND MARSYS is <b>Not equal to, 9 (no system) OR, 10 (other system)</b> , where the attributes for structure, topmark and lights do not conform to the value of MARSYS <b>of</b> the <b>feature</b> object or the M_NSYS object it is within.	Component of an aid to navigation does not conform to the IALA system defined on the object or in M_NSYS.	Ensure attributes conform to the IALA system encoded in MARSYS.	12.2 and 12.4.1.1		<div>Deleted: geo</div> <div>Deleted: n</div> <div>Deleted: (</div> <div>Deleted: )</div> <div>Deleted: or</div> <div>Deleted: (</div> <div>Deleted: )</div> <div>Deleted: n</div>
1730	For each BCNCAR <b>feature</b> object where VERDAT OR VERACC <b>is Present</b> .	<b>Prohibited attribute</b> VERDAT or VERACC <b>populated for</b> BCNCAR object.	Remove VERDAT or VERACC.	12.3.1		<div>Deleted: geo</div> <div>Deleted: are</div>
1731	For each BCNISD <b>feature</b> object where VERDAT OR VERACC <b>is Present</b> .	<b>Prohibited attribute</b> VERDAT or VERACC <b>populated for</b> BCNISD object.	Remove VERDAT or VERACC.	12.3.1		<div>Deleted: are present on</div> <div>Deleted: present</div> <div>Deleted: are</div> <div>Deleted: present</div> <div>Deleted: are present on</div>

1732	For each BCNLAT <u>feature</u> object where VERDAT OR VERACC <u>is Present</u> .	<u>Prohibited attribute</u> VERDAT or VERACC <u>populated for</u> BCNLAT object.	Remove VERDAT or VERACC.	12.3.1	Deleted: are Deleted: present Deleted: are present on
1733	For each BCNSAW <u>feature</u> object where VERDAT OR VERACC <u>is Present</u> .	<u>Prohibited attribute</u> VERDAT or VERACC <u>populated for</u> BCNSAW object.	Remove VERDAT or VERACC.	12.3.1	Deleted: are Deleted: are present on Deleted: present
1734	For each BCNSPP <u>feature</u> object where VERDAT OR VERACC <u>is Present</u> .	<u>Prohibited attribute</u> VERDAT or VERACC <u>populated for</u> BCNSPP object.	Remove VERDAT or VERACC.	12.3.1	Deleted: are Deleted: present Deleted: are present on
1735	For each BCNXXX or BOYXXX <u>feature</u> object where MARSYS is <u>Present AND is Equal</u> to the value of MARSYS on the M_NSYS <u>meta</u> object it is WITHIN.	Value of MARSYS on Beacon object is the same as the value on M_NSYS object.	Remove duplicate value.	12.3.1	Deleted: present Deleted: and Deleted: e Deleted: are Deleted: are present on
1736	For each DAYMAR <u>feature</u> object where VERDAT OR VERACC <u>is Present</u> .	<u>Prohibited attribute</u> VERDAT or VERACC <u>populated for</u> DAYMAR object.	Remove VERDAT or VERACC.	12.3.3	Deleted: present Deleted: is present on Deleted: present
1737	For each BOYCAR <u>feature</u> object where VERACC <u>is Present</u> .	<u>Prohibited attribute</u> VERACC <u>populated for</u> BOYCAR object.	Remove VERACC.	12.4.1	Deleted: is present on Deleted: present Deleted: is present on
1738	For each BOYINB <u>feature</u> object where VERACC <u>is Present</u> .	<u>Prohibited attribute</u> VERACC <u>populated for</u> BOYINB object.	Remove VERACC.	12.4.1	Deleted: present Deleted: is present on
1739	For each BOYISD <u>feature</u> object where VERACC <u>is Present</u> .	<u>Prohibited attribute</u> VERACC <u>populated for</u> BOYISD object.	Remove VERACC.	12.4.1	Deleted: present Deleted: is present on
1740	For each BOYLAT <u>feature</u> object where VERACC <u>is Present</u> .	<u>Prohibited attribute</u> VERACC <u>populated for</u> BOYLAT object.	Remove VERACC.	12.4.1	Deleted: present Deleted: is present on Deleted: present
1741	For each BOYSPP <u>feature</u> object where VERACC <u>is Present</u> .	<u>Prohibited attribute</u> VERACC <u>populated for</u> BOYSPP object.	Remove VERACC.	12.4.1	Formatted Table Deleted: For each BOYXXX object where MARSYS is present and not equal to the value of MARSYS on ... [134]
1742	For each BOYSAW <u>feature</u> object where VERACC <u>is Present</u> .	<u>Prohibited attribute</u> VERACC <u>populated for</u> BOYSAW object.	Remove VERACC.	12.4.1	Deleted: Value of M ... [135]
1743	<u>Check removed</u> .				Deleted: Ensure val ... [136]
1744	For each LITVES <u>feature</u> object where HORACC OR VERACC <u>is Present</u> .	<u>Prohibited attribute</u> HORACC or VERACC <u>populated for</u> LITVES object.	Remove HORACC or VERACC.	12.4.2	Deleted: 12.4.4 Deleted: W Deleted: are
1745	For each LITFLT <u>feature</u> object where HORACC OR VERACC are <u>Present</u> .	<u>Prohibited attribute</u> HORACC or VERACC <u>populated for</u> LITFLT object.	Remove HORACC or VERACC.	12.4.2	Deleted: present Deleted: are present on Deleted: present
1746	For each TOPMAR <u>feature</u> object where VERACC, VERDAT, VERLEN, HEIGHT OR MARSYS <u>is Present</u> .	<u>Prohibited attribute</u> VERACC, VERDAT, VERLEN, HEIGHT or MARSYS <u>populated for</u> TOPMAR object.	Remove VERACC, VERDAT, VERLEN, HEIGHT or MARSYS.	12.6	Deleted: are present on Deleted: are present on Deleted: are Deleted: present

1747	For each RETRFL <u>feature</u> object where MARSYS, VERDAT OR VERACC <u>is Present</u> .	<u>Prohibited attribute</u> MARSYS, VERDAT or VERACC <u>populated for</u> RETRFL object.	Remove MARSYS, VERDAT or VERACC.	12.7	E	Deleted: are ...prese ... [137] Deleted: are present on
1748	<u>Check removed</u> .					Formatted Table
1749	For each LIGHTS <u>feature</u> object where VERACC is <u>Present</u> .	<u>Prohibited attribute</u> VERACC <u>populated for</u> LIGHTS object.	Remove VERACC.	12.8.1		Deleted: For each RETRFL object where VERDAT is present: ... [138]
1750	For each LIGHTS <u>feature</u> object which is a slave to a BOYXXX object where HEIGHT is <u>Present</u> .	HEIGHT <u>populated for</u> a LIGHTS object which is slave to a BOYXXX object.	Remove HEIGHT.	12.8.1		Deleted: resent on... ... [139] Deleted: present Deleted: resent on Deleted: present
1751	For each LIGHTS <u>feature</u> object where ORIENT is <u>Present</u> AND CATLIT is <u>Not equal to 1</u> (directional function) OR <u>16</u> (moiré effect).	ORIENT populated without CATLIT = <u>1</u> or <u>16</u> .	Populate appropriate value of CATLIT or remove ORIENT.	12.8.1 and Appendix B.1 (3.5.2)		Deleted: (...)... (...) ... [140] Deleted: present...not (...)... [...]... [...] ... [141]
1752	For each LIGHTS <u>feature</u> object where LITCHR is <u>Equal to 1</u> (fixed) AND SIGGRP, SIGPER OR SIGSEQ <u>is Present</u> .	SIGGRP, SIGPER or SIGSEQ present for LIGHTS object where LITCHR = <u>1</u> .	Remove SIGGRP, SIGPER or SEGSEQ, not applicable to fixed lights.	12.8.1	E	Deleted: e... (...)... [...]...are present ... [142] Deleted: (...) [fixed] ... [143]
1753	<u>Check removed</u> .					Formatted Table
1754	For each LIGHTS <u>feature</u> object where VERDAT is notNull AND <u>is Equal to</u> the value of VERDAT on the M_VDAT <u>meta</u> object it is WITHIN.	LIGHTS object with VERDAT which is identical to that on the underlying M_VDAT object.	Remove unnecessary value of VERDAT from the LIGHTS object.	12.8.1		Deleted: For each LIGHTS object where VERDAT is notNull AND HEIGHT is not present: ... [144] Deleted: e
1755	For each LIGHTS <u>feature</u> object where VERDAT is notNull AND <u>is Equal to</u> the value of VERDAT in the <u>VDAT</u> (Vertical Datum) subfield of the <u>DPSM</u> (Data Set Parameter) field.	LIGHTS object with VERDAT which is identical to that in the VDAT subfield of the DPSM field.	Remove unnecessary value of VERDAT.	12.8.1	E	Deleted: e... (VDAT)... (DPSM). ... [145]
1756	For each LIGHTS <u>feature</u> object where CATLIT <u>is Equal to 4</u> (leading light) AND without CATLIT <u>is Equal to 1</u> (directional function) AND ORIENT is <u>Present</u> .	ORIENT present for non-directional leading light LIGHTS object.	Remove value of ORIENT.	12.8.6.4 and 12.8.6.5	E	Deleted: e...s... (...)... [...]...e s... (...)... [...]...preser ... [146]
1757	For each LIGHTS <u>feature</u> object where CATLIT <u>is Equal to 19</u> (horizontally disposed) OR <u>20</u> (vertically disposed) AND MLTYLT does not contain a value <u>Greater than 1</u> .	LIGHTS object where CATLIT = <u>19</u> or <u>20</u> without a value of MLTYLT.	Populate the value of MLTYLT.	12.8.7	E	Deleted: (...)... (...) ... [147] Deleted: e...s... (...)... [...]...or (...)... [...]...g ... [148]

1758	For each LIGHTS <del>feature</del> object where CATLIT <del>is Equal to 17 (emergency)</del> AND it is not COINCIDENT with another LIGHTS object.	LIGHTS object isolated and with CATLIT <del>= 17 (emergency)</del> .	Encode primary LIGHTS object.	12.8.7	E	Deleted: [...] ... [149]
1759	For each RDOSTA <del>feature</del> object where ORIENT is notNull AND CATROS is <del>Not equal to 2 (directional radiobeacon)</del> .	RDOSTA with ORIENT but without CATROS = <del>2</del> .	Populate CATROS = (2	12.9.1	E	Deleted: ) Deleted: (...) ... [150] Deleted: n...( )...[. ... [151]
1760	For each RADSTA <del>feature</del> object where VERDAT OR VERACC <del>is Present</del> .	<del>Prohibited attribute</del> VERDAT or VERACC <del>populated for</del> RADSTA object.	Remove VERDAT or VERACC.	12.11.3	E	Deleted: are ... [152]
1761	For each RADRFL <del>feature</del> object where VERDAT OR VERACC <del>is Present</del> .	<del>Prohibited attribute</del> VERDAT or VERACC <del>populated for</del> RADRFL object.	Remove VERDAT or VERACC.	12.12	E	Deleted: are ... [153]
1762	For each RADRFL <del>feature</del> object which TOUCHES an object of <del>geometric primitive</del> area or point having CONRAD as an allowable attribute.	Unnecessary RADRFL encoded.	Remove unnecessary RADRFL and encode CONRAD = 3 on the associated object.	12.12	E	Deleted: type
1763	<del>Check removed</del> .					Formatted Table
1764	For each <del>feature</del> object where STATUS is <del>Equal to 1 (permanent)</del> and PERSTA <del>OR</del> PEREND <del>is Present</del> .	PERSTA <del>or</del> PEREND are <del>populated</del> for an object with STATUS = <del>1</del> .	Remove PERSTA/PEREND if value of STATUS is valid.	2.1.5.1 and logical consistency		Deleted: For each C_ASSO or C_AGGR object where the Relationship Indicator [RIND] subfield of the Feature Record to Feature object Pointer [FFPT] field is not (3) ... [154]
1765a	If the cell contains both M_QUAL and M_ACCY <del>meta</del> objects and their combined coverage <del>is Not equal to</del> the M_COVR objects where CATCOV <del>is Equal to 1 (coverage available)</del> .	M_QUAL or M_ACCY do not provide full coverage.	Amend objects to provide complete coverage.	2.2.3.1		Deleted: and/or...present permanent ... [155] Deleted: equal...( )...[. ]...a nd/or...are ...present ... [156] Deleted: does ...n...EQUAL equal...s...( )...[. ] ... [157]
1765b	If <del>meta objects</del> M_QUAL and M_ACCY OVERLAP.	M_QUAL and M_ACCY objects overlap.	Amend objects to remove overlap.	2.2.4.1		Deleted: objects of type
1766	For each <del>PICREP OR</del> <del>TXTDSC OR</del> <del>NTXTDS</del> <del>attribute that</del> contains more than one file name.	PICREP, TSTDSC or NTXTDS contain more that one file name.	Amend value to only contain a single file name.	2.3 and 4.8.20		Deleted: attribute of type ..., and ...where the attribute value ... [158]



1767	For each edge which is COINCIDENT with a SBDARE <b>feature</b> object of <b>geometric primitive</b> area where WATLEV <b>is Equal to 4</b> (covers and uncovers) AND is COINCIDENT with a DEPARE or DRGARE <b>feature</b> object of <b>geometric primitive area</b> where DRVAL2 <b>is Less than or equal to 0</b> AND is COINCIDENT with a DEPARE or DRGARE object of <b>geometric primitive area</b> where DRVAL1 <b>Greater than or equal to 0</b> OR an UNSARE object AND is not COINCIDENT with a DAMCON, GATCON, SLCONS or LNDARE object AND is not COINCIDENT with a DEPCNT object where VALDCO <b>is Equal to 0</b> .	Missing zero metre depth contour	Capture an appropriate zero metre DEPCNT.	5.2	W	Deleted: type
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						Deleted: >=0
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1768	For each SOUNDG <b>feature</b> object where the depth value is <b>Less than or equal to the DRVAL1</b> of the DEPARE or DRGARE it lies WITHIN AND DRVAL1 of that object is notNull.	SOUNDG object with depth less than or equal to the <b>DRVAL1</b> value of <b>the underlying DEPARE</b> .	Amend DRVAL1 value of depth objects accordingly.	5.3	E	Deleted: I
						Deleted: underlying
						Deleted: DRVAL1
1769	For each SOUNDG <b>feature</b> object where EXPSOU is <b>Not equal to 3</b> (deeper than the range of the depth of the surrounding depth area) AND the depth value is <b>Greater than the DRVAL2</b> of the overlying DEPARE object AND DRVAL2 of this object is notNull.	SOUNDG object deeper than <b>the DRVAL2</b> value of <b>the underlying DEPARE</b> without EXPSOU <b>= 3</b> .	Populate appropriate value of EXPSOU.	5.3	E	Deleted: n
						Deleted: (
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						Deleted: equal to (
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						Deleted: ]
						Deleted: g
						Deleted: (
						Deleted: )
						Deleted: = (
						Deleted: )
						Deleted: I
1770a	For each SOUNDG object where EXPSOU <b>is Equal to 3</b> AND the depth value is <b>Less than or equal to DRVAL2</b> of the DEPARE it is WITHIN where DRVAL2 is not unknown.	SOUNDG with EXPSOU <b>= 3</b> and a depth value less than DRVAL2 of the underlying DEPARE.	Amend value of EXPSOU to a logical value.	5.3		

1770b	For each SOUNDG <u>feature</u> object where EXPSOU <u>is Equal to 3</u> <u>(deeper than the range of depth of the surrounding depth area)</u> AND the depth value is <u>Less</u> than or equal to the DRVAL2 of the DRGARE it is WITHIN where DRVAL1 AND DRVAL2 are notNull.	SOUNDG with EXPSOU = <u>3</u> and a depth value less than DRVAL2 of the underlying DRGARE.	Amend value of EXPSOU to a logical value.	5.3	W	Deleted: ( Deleted: ) Deleted: = Deleted: ( Deleted: ) Deleted: that Deleted: I
1770c	For each SOUNDG <u>feature</u> object where EXPSOU <u>is Equal to 3</u> <u>(deeper than the range of depth of the surrounding depth area)</u> where the depth value is <u>Less</u> than or equal to the DRVAL1 of the DRGARE object it is <u>WITHIN</u> where DRVAL2 is not <u>Present</u> .	SOUNDG with EXPSOU = <u>3</u> but with a depth value less than DRVAL1 of the underlying DRGARE when only DRVAL1 is populated.	Amend value of EXPSOU to a logical value.	5.3	W	Deleted: ( Deleted: ) Deleted: = Deleted: ( Deleted: ) Deleted: I Deleted: within Deleted: present
1771	For each edge which is COINCIDENT with a DEPCNT <u>feature</u> object AND DEPARE <u>feature</u> objects <u>of geometric primitive area</u> AND maximum DRVAL2 <= VALDCO < minimum DRVAL1 AND minimum DRVAL2 = VALDCO AND the edge is COINCIDENT with a DEPARE object of <u>geometric primitive</u> line.	VALDCO on DEPCNT between two DEPARE objects has illogical value.	Amend VALDCO to a logical value.	5.4.3		
1772	For each UWTROC <u>feature</u> object where VALSOU is notNull AND EXPSOU is not <u>Present</u> OR <u>is Equal to 1</u> (within the range of depth of the surrounding depth area) AND VALSOU is <u>Greater than</u> the DRVAL2 OR <u>Less</u> than or equal to DRVAL1 of the overlying DEPARE OR DRGARE <u>feature</u> object AND DRVAL1 AND DRVAL2 of this <u>feature</u> object are notNull.	UWTROC with EXPSOU = <u>1</u> or not present has a VALSOU outside the range of DRVAL1 and DRVAL2 the group 1 object.	Populate appropriate value of EXPSOU.	6.1.2	W	Deleted: type Deleted: ( Deleted: ) Deleted: present Deleted: ( Deleted: ) Deleted: [ Deleted: ] Deleted: greater than Deleted: I

1773	For each UWTROC <b>feature</b> object where VALSOU is notNull AND EXPSOU <b>is Equal to 2</b> AND VALSOU is <b>Greater than</b> the value of DRVAL1 of the DEPARE or DRGARE <b>feature</b> object it is WITHIN AND DRVAL1 is not 'unknown'.	UWTROC with EXPSOU = <b>2</b> within a DEPARE or DRGARE where the VALSOU is not shoaler than the range of the surrounding depth area.	Amend EXPSOU to a logical value.	6.1.2	W	Deleted: ( Deleted: ) Deleted: = ( Deleted: ) Deleted: greater than
1774a	For each UWTROC <b>feature</b> object where VALSOU is notNull AND EXPSOU <b>is Equal to 3</b> AND the VALSOU is <b>Less</b> than or equal to DRVAL2 of the DEPARE it is WITHIN where DRVAL2 is not unknown.	UWTROC with EXPSOU = <b>3</b> and a VALSOU less than DRVAL2 of the underlying DEPARE.	Amend value of EXPSOU to a logical value.	6.1.2	E	Deleted: ( Deleted: ) Deleted: = ( Deleted: ) Deleted: I
1774b	For each UWTROC object where EXPSOU <b>is Equal to 3</b> that the depth value is <b>Less</b> than or equal to the DRVAL2 of the DRGARE it is WITHIN where DRVAL1 AND DRVAL2 are notNull.	UWTROC with EXPSOU = <b>3</b> and a VALSOU less than DRVAL2 of the underlying DRGARE.	Amend value of EXPSOU to a logical value.	6.1.2	E	Deleted: = ( Deleted: ( Deleted: ) Deleted: ) Deleted: I
1774c	For each UWTROC <b>feature</b> object where EXPSOU <b>is Equal to 3</b> where VALSOU is <b>Less</b> than or equal to the DRVAL1 of the DRGARE <b>feature</b> object it is within where DRVAL2 is not <b>Present</b> .	UWTROC with EXPSOU = <b>3</b> but with a VALSOU less than DRVAL1 of the underlying DRGARE when only DRVAL1 is populated.	Amend value of EXPSOU to a logical value.	6.1.2	E	Deleted: ( Deleted: ) Deleted: = ( Deleted: ) Deleted: I Deleted: present

1775	For each equipment <b>feature</b> object (UOC 12.1.1) which is WITHIN a DEPARE, DRGARE or UNSARE AND does not have a navigational aid structure as a master OR does not TOUCH a HULKES, LNDARE or PYLONS <b>feature object of geometric primitive</b> point, OR does not TOUCH a CBLOHD, CONVYR, COALNE, DAMCON (with CATDAM <b>Equal to</b> 3 (flood barrage)), BRIDGE, FLODOC, LNDARE, MORFAC, PIPOHD, PONTON or SLCONS <b>feature object of geometric primitive line</b> OR is not WITHIN a CONVYR or BRIDGE <b>feature object of geometric primitive line</b> .	Equipment object within DEPARE, DRGARE or UNSARE without an appropriate supporting structure object or underlying object.	Ensure equipment object is encoded with an appropriate structure object or underlying object.	12.1.1 and 12.8.8	C	<div>Deleted: object</div> <div>Deleted: line</div> <div>Deleted: =</div> <div>Deleted: [</div> <div>Deleted: ]</div> <div>Deleted: area</div>														
1776	For each LIGHTS <b>feature</b> object where the value of LITCHR AND SIGGRP <b>are not Null and the combination of values</b> is not as listed in the table below. <table><tr><td>LITCHR</td><td>SIGGRP</td></tr><tr><td>6</td><td>(1)</td></tr><tr><td>7</td><td>(1)</td></tr><tr><td>9</td><td>()</td></tr><tr><td>10</td><td>()</td></tr><tr><td>11</td><td>()</td></tr><tr><td>28</td><td>()</td></tr></table>	LITCHR	SIGGRP	6	(1)	7	(1)	9	()	10	()	11	()	28	()	Values of LITCHR and SIGGRP are not consistent.	Amend values to be consistent.	12.8.3	W	<div>Deleted: is as listed in the table below</div>
LITCHR	SIGGRP																			
6	(1)																			
7	(1)																			
9	()																			
10	()																			
11	()																			
28	()																			
1777	For each collection object which references <b>feature</b> objects which do not exist in the cell.	Collection object references objects which do not exist within the cell.	Remove invalid references.	15	E															
1778	For each LIGHTS <b>feature</b> object where CATLIT <b>is Equal to</b> 1 (directional function) AND SECTR1 – SECTR2 is <b>Greater than</b> 10.	LIGHTS object with CATLIT = (1) with a sector arc greater than 10 degrees.	Check SECTR1/2 values, or remove CATLIT = (1).	12.8.6.5 and Appendix A Ch.2 (code 37)	E	<div>Deleted: =</div> <div>Deleted: [</div> <div>Deleted: ]</div> <div>Deleted: g</div>														
1779	For each DEPARE <b>feature</b> object where DRVAL1 is <b>Equal</b> to DRVAL2.	DRVAL1 is equal to DRVAL2 on a DEPARE object.	Amend DRVAL1 or DRVAL2 to logical values.	5.4 and logical consistency		<div>Formatted: Not</div> <div>Deleted: or equal to</div> <div>Deleted: equal</div>														

1780	For each SBDARE <u>feature</u> object where NATSUR AND NATQUA are notNull AND the combination of values of NATSUR AND NATQUA are not as listed in the table below;	Illogical combination of NATSUR and NATQUA.	Amend NATSUR and NATQUA to logical combinations.	logical consistency	W						
	NATQUA	1	2	3	4	5	6	7	8	9	10
	NATSUR										
	1					x	x	x	x	x	x
	2					x	x	x			x
	3	x	x	x		x	x	x			x
	4	x	x	x			x		x	x	x
	5	x	x	x					x	x	
	6	x	x	x					x	x	
	7	x	x	x					x	x	
	8								x	x	
	9								x	x	
	11								x		
	14				x						
	17	x	x	x	x					x	
	18								x	x	

1781	For each BUISGL or LNDMRK <u>feature</u> object which is part of a master slave relationship AND references a LIGHTS <u>feature</u> object where CATLIT is <u>Not equal to</u> 6 (air obstruction light) OR 8 (flood light) OR 9 (strip light) as slave AND FUNCTN does not contain value 33 (light support).	BUISGL or LNDMRK object with a slave LIGHTS object without FUNCTN = 33 (light support).		12.3.2 and S-52	W
1782	For each SWPARE <u>feature</u> object which OVERLAPS another SWPARE object.	SWPARE objects overlap.	Amend objects so that there is no overlap.	logical consistency	
1783a	For each <u>feature</u> object of <u>geometric primitive</u> area where WATLEV <u>is Equal to</u> 4 (covers and uncovers) OVERLAPS a DEPARE object where DRVAL1 <u>is Greater than or equal to</u> 0.	Illogical value of WATLEV given the DRVAL1 of the underlying object.	Populate appropriate value of WATLEV.	logical consistency	
1783b	For each <u>feature</u> object of <u>geometric primitive</u> area where WATLEV <u>is Equal to</u> 5 (awash) <u>that</u> OVERLAPS a DEPARE object where DRVAL1 <u>is Greater than</u> 0.	Illogical value of WATLEV given the DRVAL1 of the underlying object.	Populate appropriate value of WATLEV.	logical consistency	

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1784	For each spatial object where the value of HORDAT, POSACC or QUAPOS is Null.	POSACC, HORDAT or QUAPOS populated with an unknown value.	Remove unknown value or populate with a known value.	Logical consistency	W
1785	For each <del>feature</del> object where <del>COND TN is Equal to 4 (wingless) AND CATLMK is Not equal to 18 (windmill) OR 19 (windmotor)</del>	Object other than windmill or windmotor with COND TN = 4 (wingless).	Remove value of COND TN or use LNDMRK object.	Logical consistency.	Formatted: Font: Not Bold Deleted: populated with an unknown value. Deleted: ith Deleted: = Deleted: [ Deleted: ] Deleted: that does NOT have Deleted: [ Deleted: ] Deleted: CATLMK =
1786	For each <del>feature</del> object of <del>geometric primitive</del> area where WATLEV is Equal to 2 (always dry) AND is not WITHIN a LNDARE <del>feature</del> object of <del>geometric primitive</del> area.	Area object with WATLEV = 2, not covered by a LNDARE object.	Amend WATLEV value or ensure object is on land.	Logical consistency	Deleted: [ Deleted: ] Deleted: [ Deleted: ] Deleted: type A Deleted: ( Deleted: ) Deleted: but not on an area Deleted: e
1787	For each NAVLNE and RECTRC <del>feature</del> objects which are COINCIDENT AND have values of ORIENT which are Not equal OR reciprocal.	ORIENT values for NAVLNE and RECTRC objects sharing an edge are not equal or reciprocal.	Ensure values of ORIENT agree or are reciprocal.	Logical consistency	Deleted: s Deleted: ( Deleted: ) Deleted: [ Deleted: ] Deleted: type Deleted: n Deleted: or Deleted: are Deleted: object of type Deleted: type Deleted: g
1788	For each NAVLNE <del>feature</del> object which is COINCIDENT with a RECTRC <del>feature</del> object AND is not part of the same C_AGGR object.	NAVLNE and RECTRC share an edge but are not aggregated using C_AGGR.	Aggregate objects using C_AGGR object.	10.1.2	Deleted: l Deleted: are
1789	For each DWRTCL, NAVLNE, RECTRC and RCRTCL <del>feature</del> object of <del>geometric primitive</del> line where ORIENT is notNull AND the orientation of the spatial geometry is more than 5 degrees Greater than or Less than the value (or reciprocal) of the value of ORIENT.	DWRTCL, NAVLNE, RECTRC or RCRTCL where the orientation of the geometry is not consistent with the value of ORIENT.	Populate an appropriate value of ORIENT consistent with the geometry of the object.	Logical consistency	
1790a	For each LIGHTS <del>feature</del> object where ORIENT is notNull AND SECTR1 OR SECTR2 is notNull.	LIGHTS object where ORIENT and SECTR1/SECTR2 are populated.	Remove values of SECTR1/SECTR2 or ORIENT.	12.8.6.5 and 12.8.6.6	
1790b	For each LIGHTS <del>feature</del> object where ORIENT is notNull AND it is aggregated to a RECTRC or NAVLNE within a collection object C_AGGR.	LIGHTS object where ORIENT and is aggregated within a C_AGGR collection object.	Set Orient to NULL	12.8.6.5 and 12.8.6.6	



1790c	For each LIGHTS <b>feature</b> object where ORIENT is notNull AND the structure <b>feature</b> object of this LIGHTS <b>feature</b> object is aggregated to a RECTRC or NAVLNE within a collection object C_AGGR.	LIGHTS object where ORIENT and the master structure object is aggregated within a C_AGGR collection object.	Remove the LIGHTS structure master object from C_AGGR collection object aggregation.	12.8.6.5 and 12.8.6.6	E	
1791	For each NAVLNE <b>feature</b> object where CATNAV <b>is Equal to</b> 3 which is not COINCIDENT with a RECTRC where CATTRK <b>is Equal to</b> 1.	NAVLNE with CATNAV =3 but does not share the line geometry of a RECTRC with CATTRK = 1.	Ensure NAVLNE with CATNAV = 3 has a coincident RECTRC with CATTRK = 1.	logical consistency	E	Formatted Table Deleted: = Deleted: =
1792	If the cell OVERLAPS the 180° meridian.	Cell overlaps 180° meridian.	Amend cell limits accordingly.	2.1.8.2	C	
1793	For each master/slave relationship which references more than one LIGHTS <b>feature</b> object AND all of the LIGHTS <b>feature</b> objects are encoded with LITVIS <b>is Equal to</b> 6 (visibility deliberately restricted) OR 7 (obscured).	Group of LIGHTS where all are LITVES = 6 or 7.	Confirm values of LITVES or encode primary light.	logical consistency	E	Deleted: = Deleted: or
1794	For each LIGHTS <b>feature</b> object where CATLIT <b>is equal to</b> 1 (directional function) AND is a slave in a master/slave relationship AND the master <b>feature</b> object is any of BOYXXX, LITVES or LITFLT.	Directional light a slave to a master object of type BOYXXX, LITVES or LITFLT.	Amend master to a logical object or remove value of CATLIT.	logical consistency	E	Deleted: = Deleted: (
1795	For each <b>feature</b> object which is a master in a master/slave relationship AND where DATEND, DATSTA, PEREND or PERSTA <b>attributes</b> are notNull AND the values of DATEND, DATSTA, PEREND or PERSTA are not identical to those on the slave objects.	Temporal attributes on a master object do not match those on slave objects.	Populate appropriate temporal attributes on slave objects.	logical consistency	C	
1796	<b>Check removed.</b>					Formatted Table Deleted: For each SOUNDG object where EXPSOU equals (2) [shoaler than the range of depth of the surrounding depth area]. Deleted: SOUNDG object where EXPSOU = (2). Deleted: See EB 27. UOC? Deleted: 5.3 and 5.5 Deleted: W

1797	For each of the object class, geometry and attribute combinations in the table below;	Object, geometry and attribute combination which do not display in ECDIS present.	Delete objects which do not display in ECDIS or use alternative encoding.	Clauses 2.5; 4.6.6.6; 4.7.4; 4.7.7.1; 4.7.7.2; 4.7.11; 4.8.3; 4.8.5; 4.8.8; 4.8.10; 4.8.12; 4.8.13 and 11.6.1	E Deleted: type
	Object	Geom	Attributes		
	BRIDGE	P			
	DAMCON	P	CATDAM # 3		
	GRIDRN	P			
	PIPSOL	P			
	PRDARE	P	CATPRA = not Present		Deleted: present
	RAPIDS	P			
	ROADWY	P			
	RUNWAY	P			
	SLOGRD	A	CATSLO = 1,2,3,4,5,7 AND CONRAD # 1 OR CATSLO = not Present		Deleted: or ...prese (... [159]
	TUNNEL	P			
	VEGATN	P,A	CATVEG = 1, 10, 11, 12, OR not Present		Deleted: or ...prese (... [160]
	WATFAL	P			
1798	For each value of INFORM OR NINFOM which contains Greater than 300 characters.	INFORM or NINFOM contains more than 300 characters.	Amend value of INFORM or NINFOM. Use TXTDSC or NTXTDS if appropriate.	UOC 2.3	Formatted Table Deleted: greater than
1799	For each BRIDGE feature object where VERCCL or VERCOP are notNull AND CATBRG is Not equal to 2 (opening bridge) OR 3 (swing bridge) OR 4 (lifting bridge) OR 5 (bascule bridge) OR 7 (draw bridge) OR 8 (transporter bridge).	BRIDGE object has values of VERCCL or VERCOP without appropriate value of CATBRG.	Ensure appropriate value of CATBRG is populated.	Logical consistency	W Deleted: does n...(...)...[...].(...)...[...], (...)...[...].(...)...[...].(...)...[...].of...(...)...[...] [161]
1800	For each BRIDGE feature object where VERCLR is notNull AND CATBRG is Equal to 2 (opening bridge) OR 3 (swing bridge) OR 4 (lifting bridge) OR 5 (bascule bridge) OR 7 (draw bridge) OR 8 (transporter bridge).	VERCLR populated without an appropriate value of CATBRG.	Ensure appropriate value of CATBRG is populated.	Logical consistency	W Deleted: e...s...(...)...[...], (...)...[...].(...)...[...].of...(...)...[...] [162]
1801	For each L (List) type attribute, (excluding COLOUR, NATQUA or NATSUR) that contains more than one instance of the same value.	Value repeated for a list attribute where not permitted.	Remove duplicate value.	Logical consistency	W Deleted: value of type "list"...which is not of [...] [163]
4802	Check removed.				Deleted: For each M_VDAT meta object where VERDAT is notNull AND equal to the value of VERDAT in the Vertical Datum subfield (VDAT) of the Data Set Parameter field (DSPM). [164]

1803	For each Master/Slave relationship where referenced <b>feature</b> objects have been populated with different values for SCAMIN.	Different values of SCAMIN on objects which are in a master slave relationship.	Amend values of SCAMIN to agree.	Logical consistency	W
1804	For each OBSTRN, UWTROC or WRECKS <b>feature</b> object of <b>geometric primitive</b> point which is coincident with the geometry of an DEPARE, DRGARE or UNSARE .	Object is on the edge between group 1 objects.	Amend group 1 object geometry so that it is not coincident with the point object.	6.1	C
1805	For each SMCFAC <b>feature</b> object of <b>geometric primitive</b> area which overlaps a DEPARE, DRGARE or UNSARE of <b>geometric primitive</b> area.	Area SMCFAC falls within a water feature.	Clip object to clear all water features.	4.6.5	W
1806	For each CTNARE <b>feature</b> object of <b>geometric primitive</b> area which is coincident with a DEPCNT object.	CTNARE object shares geometry with DEPCNT.	Offset the CTNARE limits clear of the DEPCNT.	6.6	W

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VERDAT on object which cannot have a height or elevation value.		
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Remove VERDAT from inappropriate object.		
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For each object of type M\_UNIT

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Page 2: [7] Deleted ]	fowler	12/11/2014 12:03 PM
Page 3: [8] Deleted If the value of the EDTN (Edition Number) subfield of the DSID (Data Set Identification) field is incorrect.	fowler	1/6/2015 12:58 PM

Moved to section 2.3 as

Page 3: [9] Deleted	fowler	1/6/2015 12:58 PM
Incorrect value of Edition Number.		
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Correct Edition Number.		
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If the data set is not a reissue AND UPDN (Update Number) subfield of the DSID (data Set Identification) field is incorrect OR it is not equivalent to the extension of the data set file name. Moved to section 2.3 as		
Page 3: [12] Deleted	fowler	1/6/2015 12:59 PM
Update number is incorrect or not equivalent to the data set file name extension.		
Page 3: [13] Deleted	fowler	1/6/2015 12:59 PM
Amend Update number.		
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If the data set is a reissue AND UPDN (Update Number) subfield of the DSID (data Set Identification) field is not equal to the last update number. Moved to section 2.3 as		
Page 3: [15] Deleted	fowler	1/6/2015 1:00 PM
Reissue data set where Update number is not equal to the last update number.		
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Amend Update number to the value of the last update number.		
Page 3: [17] Deleted	fowler	1/7/2015 11:39 AM
If the file extension is ".000" AND the value of the UADT (Update application date) subfield of the DSID (Data Set Identification) field is incorrect.		
Page 3: [18] Deleted	fowler	1/7/2015 11:39 AM
Incorrect value of Update application date for a base cell.		
Page 3: [19] Deleted	fowler	1/7/2015 11:39 AM
Amend Update application date.		
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If the value of the ISDT (Issue date) subfield of the DSID (Data Set Identification) field is incorrect.		
Page 3: [21] Deleted	fowler	1/7/2015 11:39 AM
Issue date is incorrect.		
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M_QUAL object where SQUACC is populated without a value for DRVAL1.		
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For each M_QUAL object where DRVAL2 is less than the maximum depth value WITHIN the CATZOC category for that M_QUAL object indicates.		
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For each M_QUAL object where TECSOU is notNull AND any object WITHIN the object contains a different value of TECSOU.		
Page 4: [25] Deleted	fowler	1/7/2015 11:40 AM
TECSOU value of M_QUAL differs from a value used within that M_QUAL.		
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Amend or remove TECSOU from M_QUAL.		
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WITHIN an M_ACCY object		
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(on the associated spatial object)		



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For each object WITHIN an M_ACCY object where the value of QUAPOS is equivalent to the value of QUAPOS on the M_ACCY object it lies WITHIN		
Page 6: [30] Deleted	fowler	1/7/2015 11:41 AM
QUAPOS on object equivalent to that on the underlying M_ACCY object.		
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Remove unnecessary value.		
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For each object where SORIND is notNull and SORDAT is notNul AND the values are not identical to those on the M_SREL object the object is within.		
Page 6: [33] Deleted	fowler	1/7/2015 11:41 AM
SORIND and SORDAT are identical to those on M_SREL.		
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Delete unnecessary values of SORIND and SORDAT.		
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For each object where SCAMAX is present.		
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SCAMAX encoded on an object.		
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Remove SCAMAX.		
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For each object where INFORM or NINFOM contain formatting characters (C0 as defined in S-57 Part 3, Annex B).		
Page 7: [36] Deleted	fowler	1/7/2015 11:42 AM
INFORM or NINFOM contain formatting characters.		
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Remove formatting characters from attribute values.		
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For each text file forming part of the dataset which is not an ASCII file AND is not referenced by the attribute NTXTDS. —Moved to section 2.3 as		
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Non-ASCII text file included in the dataset.		
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include as an ASCII file or ensure referenced by NTXTDS when NATF lexical level subfield [NALL] of the Data Set Structure Information field [DSSI] is set to (2).

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For each edge of a DOCARE object which does not TOUCH a GATCON object AND TOUCHES an SLCONS or COALNE object.

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DOCARE object is bounded by an SLCONS or COALNE object.

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Amend or delete SLCONS or COALNE objects.

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For each GATCON object where VERACC is not Null AND VERCLR is not present.

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VERACC populated without VERCLR being present.

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Remove VERACC or populate VERCLR.

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SLOGRD object where CATSLO=(6) touches a COALNE object.

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Delete SLOGRD object only COALNE with CATCOA=(1) should be encoded.

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For each TUNNEL object which is not WITHIN a LNDARE, DEPAARE, UNSARE or DRGARE object.

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TUNNEL not within a LNDARE, DEPAARE, UNSARE or DRGARE object.

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Ensure TUNNEL is within an appropriate object.

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4.8.3

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For each TUNNEL object where VERACC is not Null AND VERCLR is null or not present.

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VERACC is populated without value for VERCLR.

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Remove VERACC or populate VERCLR.

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4.8.3

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type

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or

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Page 14: [82] Deleted 4.8.8	fowler	1/7/2015 11:44 AM
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Page 14: [83] Deleted For each BRIDGE object where VERACC is notNull AND none of VERCLR, VERCCL or VERCOP are notNull.	fowler	1/7/2015 11:44 AM
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For each CONVYR object where VERACC is notNull AND VERCLR is not present.		
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CONVYR object with value of VERACC without a value of VERCLR.		
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Remove value of VERACC or populate VERCLR.		
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Check that no RECTRC object contains a value of (3) for the attribute STATUS.

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Check that no CBLOHD object contains an attribute value for VERACC, without an attribute value for at least one of VERCLR or VERCSA.			
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Check that no PIPOLD object has an attribute value for VERACC without an attribute value for VERCLR.		
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Check that no PIPOLD object has an attribute value for VERDAT without an attribute value for VERCLR.		
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Check that any OBSTRN object that has a value of (2) for the attribute CATOBS also has a value of (4) for the attribute STATUS.

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11.7.1 and 6.2.2

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For each BOYXXX object where MARSYS is present and not equal to the value of MARSYS on the M\_NSYS object the BCNXXX is WITHIN.

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Value of MARSYS on Buoy object differs from value on M\_NSYS object.

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Ensure values of MARSYS agree.

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For each RETRFL object where VERDAT is present.

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VERDAT is present on RETRFL object.

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Remove VERDAT.

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) [fixed]		
Page 31: [144] Deleted	fowler	1/7/2015 11:47 AM
For each LIGHTS object where VERDAT is notNull AND HEIGHT is not present.		
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LIGHTS object has a value of VERDAT without a value for HEIGHT.		
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Populate HEIGHT or remove VERDAT.		
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12.8.4		
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E		
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Page 31: [145] Deleted	fowler	1/12/2015 12:33 PM
(VDAT)		
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(DSPM).		
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For each C_ASSO or C_AGGR object where the Relationship Indicator [RIND] subfield of the Feature Record to Feature object Pointer [FFPT] field is not (3) [peer].		
Page 32: [154] Deleted	fowler	1/7/2015 11:47 AM
Relationship Indicator field value for C_ASSO or C_AGGR not (3) [peer] Unnecessary RADRFLE encoded.		
Page 32: [154] Deleted	fowler	1/7/2015 11:47 AM
Amend RIND subfield to (3) [peer].		

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where the attribute value		
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Page 40: [163] Deleted which is not of type	fowler	1/8/2015 10:42 AM
Page 40: [164] Deleted For each M_VDAT meta-object where VERDAT is not Null AND equal to the value of VERDAT in the Vertical Datum subfield (VDAT) of the Data Set Parameter field (DSPM).	fowler	1/7/2015 11:47 AM
Page 40: [164] Deleted M_VDAT object has the same value as the VDAT subfield of the dataset header.	fowler	1/7/2015 11:47 AM
Page 40: [164] Deleted Delete unnecessary M_VDAT object	fowler	1/7/2015 11:47 AM
Page 40: [164] Deleted Logical consistency	fowler	1/7/2015 11:47 AM
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