

2.5 Checks relating to allowable attribute values for particular object classes

No	Check description	Check message	Check solution	Conformity to:	Cat
2000	For each object that attributes of type "L" (list) and "E" (enumerated) that contains an attribute value not listed in the following table for the given object class. - x-y-z allowable values (alone or in a list); * all the pre-defined attribute values as listed in S-57 3.1 Appendix A, Chapter 2 are allowed.; # the attribute is mandatory, and the missing value (Unknown) is allowed. (#) the attribute is mandatory, but the missing value (Unknown) is prohibited (no logical sense).	Attribute value which is not allowed use on an object.	Remove disallowed attribute value.	Logical consistency	

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Attribute		code	Allowable attribute values
BCNSHP		2	
	BCNCAR	5	* #
	BCNISD	6	* #
	BCNLAT	7	* #
	BCNSAW	8	* #
	BCNSPP	9	* #

BUIHP		3	
	BUISGL	12	*
	SILTNN	125	*

BOYSHP		4	
	BOYCAR	14	* #
	BOYINB	15	* #
	BOYISD	16	* #
	BOYLAT	17	* #
	BOYSAW	18	* #
	BOYSPP	19	* #
	MORFAC	84	*

CATAIR		7	
	AIRARE	2	*

CATACH		8	
	ACHBRT	3	*
	ACHARE	4	*

CATBRG		9	
	BRIDGE	11	* #

CATBUA		10	
	BUAARE	13	*

CATCBL		11	
	CBLARE	20	1-4-5 (see check 1707)
	CBLOHD	21	1-3-4-5
	CBLSUB	22	1-4-5-6 (see check 1703)

CATCAN		12	
	CANALS	23	*

CATCAM		13	
	BCNCAR	5	* #
	BOYCAR	14	* #

CATCHP		14	
	CHKPNT	28	*

CATCOA		15	
	COALNE	30	*

CATCTR		16	
	CTRPNT	33	*

CATCON		17	
	CONVYR	34	*

CATCOV		18	
	M_COVR	302	* (#)

CATCRN		19	
	CRANES	35	*

CATDAM		20	
	DAMCON	38	*

CATDIS		21	
	DISMAR	44	*

CATDOC		22	
	DOCARE	45	*

CATDPG		23	
	DMPGRD	48	*

CATFNC		24	
	FNCLNE	52	*

CATFRY		25	
	FERYRT	53	* #

CATFIF		26	
	FSHFAC	55	*

CATFOG		27	
	FOGSIG	58	* #

CATFOR		28	
	FORSTC	59	*

CATGAT		29	
	GATCON	61	*

CATHAF		30	
	HRBFAC	64	* #

CATHLK		31	
	HULKES	65	*

CATICE		32	
	ICEARE	66	* #

CATINB		33	
	BOYINB	15	*

CATLND		34	
	LNDRGN	73	* #

CATLMK		35	
	LNDMRK	74	* #

CATLAM		36	
	BCNLAT	7	* #
	BOYLAT	17	* #

CATLIT		37	
	LIGHTS	75	* #

CATMFA		38	
	MARCUL	82	*

CATMPA		39	
	MIPARE	83	*

CATMOR		40	
	MORFAC	84	* #

CATNAV		41	
	NAVLNE	85	* #

CATOBS		42	
	OBSTRN	86	*

CATOFP		43	
	OFSPLF	87	*

CATOLB		44	
	OILBAR	89	*

CATPLE		45	
	PILPNT	90	*

CATPIL		46	
	PILBOP	91	*

CATPIP		47	
	PIPARE	92	*
	PIPOHD	93	2-3-4-6
	PIPSOL	94	*

CATPRA		48	
	OSPARE	88	1-2-5-8-9
	PRDARE	97	* #

CATPYL		49	
	PYLONS	98	* #

CATRAS		51	
	RADSTA	102	*

CATRTB		52	
	RTPBCN	103	* #

CATROS		53	
	RDOSTA	105	*

CATTRK		54	
	DWRTCL	40	* #
	RCRTCL	108	* #
	RECTRC	109	* #
	TWRTPT	152	*

CATRSC		55	
	RSCSTA	111	*

CATREA		56	
	RESARE	112	* #

CATROD		57	
	ROADWY	116	1-2-3-4-5-6 (replaces check 1621)

CATRUN		58	
	RUNWAY	117	*

CATSEA		59	
	SEAARE	119	* #

CATSLC		60	
	SLCONS	122	*

CATSIT		61	
	SISTAT	123	* #

CATSIW		62	
	SISTAW	124	* #

CATSIL		63	
	SILTNN	125	*

CATSLO		64	
	SLOTOP	126	*
	SLOGRD	127	*

CATSCF		65	
	SMCFAC	128	* #

CATSPM		66	
	BCNSPP	9	* #
	BOYSPP	19	* #
	DAYMAR	39	*

CAT_TS		188	
	TS_FEB	160	* #

CATTSS		67	
	ISTZNE	68	*
	TSELNE	145	*
	TSSBND	146	*
	TSSCRS	147	*
	TSSLPT	148	*
	TSSRON	149	*
	TSEZNE	150	*

CATVEG		68	
	VEGATN	155	* #

CATWAT		69	
	WATTUR	156	* #

CATWED		70	
	WEDKLP	158	*

CATWRK		71	
	WRECKS	159	* #

CATZOC		72	
	M_QUAL	308	* (#)

COLOUR		75	
	BCNCAR	5	* #
	BCNISD	6	* #
	BCNLAT	7	* #
	BCNSAW	8	* #
	BCNSPP	9	* #
	BRIDGE	11	*
	BUISGL	12	*
	BOYCAR	14	* #
	BOYINB	15	* #
	BOYISD	16	* #
	BOYLAT	17	* #
	BOYSAW	18	* #
	BOYSPP	19	* #
	COALNE	30	*
	CONVYR	34	*
	CRANES	35	*
	DAMCON	38	*
	DAYMAR	39	* #
	FNCLNE	52	*
	FLODOC	57	*
	HULKES	65	*
	LNDMRK	74	*
	LIGHTS	75	1-3-4-5-6-9-10-11 #
	LITFLT	76	* #
	LITVES	77	* #
	MORFAC	84	*
	NEWOBJ	163	*
	OFSPLF	87	*
	PILPNT	90	*
	PYLONS	98	*
	RETRFL	113	1-3-4-5-6-7-8-9-10-11-12-13
	SBDARE	121	*

	SLCONS	122	*
	SILTNK	125	*
	SLOTOP	126	*
	SLOGRD	127	*
	TOPMAR	144	*

COLPAT		76	
	BCNCAR	5	* #
	BCNISD	6	* #
	BCNLAT	7	* #
	BCNSAW	8	* #
	BCNSPP	9	* #
	BRIDGE	11	* #
	BUISGL	12	* #
	BOYCAR	14	* #
	BOYINB	15	* #
	BOYISD	16	* #
	BOYLAT	17	* #
	BOYSAW	18	* #
	BOYSPP	19	* #
	CONVYR	34	* #
	CRANES	35	* #
	DAMCON	38	* #
	DAYMAR	39	* #
	FNCLNE	52	* #
	FLODOC	57	* #
	HULKES	65	* #
	LNDMRK	74	* #
	LITFLT	76	* #
	LITVES	77	* #
	MORFAC	84	* #
	NEWOBJ	163	* #
	OFSPLF	87	* #
	PILPNT	90	* #
	PYLONS	98	* #
	RETRFL	113	* #
	SLCONS	122	* #
	SILTNK	125	* #
	TOPMAR	144	* #

CONDTN		81	
	AIRARE	2	1-2-3-5
	BCNCAR	5	1-2-5
	BCNISD	6	1-2-5

	BCNLAT	7	1-2-5
	BCNSAW	8	1-2-5
	BCNSPP	9	1-2-5
	BRIDGE	11	1-2-5
	BUISGL	12	1-2-5
	BUAARE	13	1-2-5
	CBLOHD	21	1-5 (see check 1706)
	CBLSUB	22	1-5 (see check 1706)
	CANALS	23	1-2-3-5
	CAUSWY	26	1-2-3-5
	CONVYR	34	1-2-5
	CRANES	35	1-2-5
	DAMCON	38	1-2-3-5
	DOCARE	45	1-2-3-5
	DRYDOC	47	1-2-3-5
	DYKCON	49	1-2-3-5
	FNCLNE	52	1-2-5
	FLODOC	57	1-2-3-5
	FORSTC	59	1-2-5
	GATCON	61	1-2-5
	HRBFAC	64	1-2-3-5
	HULKES	65	1-2-5
	LNDARE	71	1-3-5
	LNDMRK	74	1-2-4-5
	MORFAC	84	1-2-5
	NEWOBJ	163	*
	OBSTRN	86	1-2-5
	OFSPLF	87	1-2-5
	OSPARE	88	1-2-3-5
	OILBAR	89	1-2-5
	PILPNT	90	1-2-5
	PIPOHD	93	1-5 (see check 1706)
	PIPSOL	94	1-5 (see check 1706)
	PONTON	95	1-2-5
	PRDARE	97	1-2-3-5
	PYLONS	98	1-2-5
	RAILWY	106	1-3-5
	ROADWY	116	1-2-3-5
	RUNWAY	117	1-2-3-5
	SLCONS	122	1-2-3-5
	SILTNN	125	1-2-5

	TUNNEL	151	1-2-3-5
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CONRAD		82	
	BCNCAR	5	*
	BCNISD	6	*
	BCNLAT	7	*
	BCNSAW	8	*
	BCNSPP	9	*
	BRIDGE	11	*
	BUISGL	12	*
	BUAARE	13	*
	BOYCAR	14	*
	BOYINB	15	*
	BOYISD	16	*
	BOYLAT	17	*
	BOYSAW	18	*
	BOYSPP	19	*
	CBLOHD	21	*
	COALNE	30	*
	CONVYR	34	*
	CRANES	35	*
	DAMCON	38	*
	DYKCON	49	*
	FNCLNE	52	*
	FLODOC	57	*
	FORSTC	59	*
	HULKES	65	*
	LNDMRK	74	*
	LITFLT	76	*
	LITVES	77	*
	MORFAC	84	*
	NEWOBJ	163	*
	OFSPLF	87	*
	OSPARE	88	*
	PIPOHD	93	*
	PONTON	95	*
	PRDARE	97	*
	PYLONS	98	*
	SLCONS	122	*
	SILTNK	125	*
	SLOTOP	126	*
	SLOGRD	127	*
	WRECKS	159	*

CONVIS		83	
	BCNCAR	5	*
	BCNISD	6	*
	BCNLAT	7	*
	BCNSAW	8	*
	BCNSPP	9	*
	BRIDGE	11	*
	BUISGL	12	*
	BUAARE	13	*
	CBLOHD	21	*
	COALNE	30	*
	CONVYR	34	*
	CRANES	35	*
	DAMCON	38	*
	FNCLNE	52	*
	FLODOC	57	*
	FORSTC	59	*
	HULKES	65	*
	ICEARE	66	*
	LNDELV	72	*
	LNDMRK	74	* #
	LITFLT	76	*
	LITVES	77	*
	MORFAC	84	*
	NEWOBJ	163	*
	OFSPLF	87	*
	OSPARE	88	*
	PILPNT	90	*
	PIPOHD	93	*
	PONTON	95	*
	PRDARE	97	*
	PYLONS	98	*
	SLCONS	122	*
	SILTNG	125	*
	SLOTOP	126	*
	SLOGRD	127	*
	VEGATN	155	*
	WATFAL	157	*
	WRECKS	159	*

EXCLIT		92	
	LIGHTS	75	*

EXPSOU		93	
	MARCUL	82	*
	OBSTRN	86	*
	SOUNDG	129	*
	UWTROC	153	*
	WRECKS	159	*

FUNCTN		94	
	BUISGL	12	*
	LNDMRK	74	*

JRSDTN		103	
	ADMARE	1	* #

LITCHR		107	
	LIGHTS	75	* #

LITVIS		108	
	LIGHTS	75	*

MARSYS		109	
	BCNCAR	5	*
	BCNISD	6	*
	BCNLAT	7	*
	BCNSAW	8	*
	BCNSPP	9	*
	BOYCAR	14	*
	BOYINB	15	*
	BOYISD	16	*
	BOYLAT	17	*
	BOYSAW	18	*
	BOYSPP	19	*
	LIGHTS	75	*
	M_NSYS	306	* #

NATCON		112	
	BCNCAR	5	1-2-6-7-8-9
	BCNISD	6	1-2-6-7-8-9
	BCNLAT	7	1-2-6-7-8-9

	BCNSAW	8	1-2-6-7-8-9
	BCNSPP	9	1-2-6-7-8-9
	BRIDGE	11	1-2-4-5-6-7-8-9
	BUISGL	12	1-2-6-7-8-9
	BOYCAR	14	6-7-8-9
	BOYINB	15	6-7-8-9
	BOYISD	16	6-7-8-9
	BOYLAT	17	6-7-8-9
	BOYSAW	18	6-7-8-9
	BOYSPP	19	6-7-8-9
	CAUSWY	26	1-2-3-4-5-6-7
	DAMCON	38	1-2-3-4-5-6-7-9
	DAYMAR	39	1-2-4-6-7-8-9
	DYKCON	49	1-2-3-4-5-6-7-9
	FNCLNE	52	1-2-3-6-7-9
	FORSTC	59	1-2-3-6-7-9
	GATCON	61	1-2-6-7-9
	GRIDRN	62	1-2-6-7-9
	HRBFAC	64	1-2-3-6-7-9
	LNDMRK	74	1-2-3-6-7-8-9
	LITFLT	76	6-7-9
	LITVES	77	6-7-9
	MORFAC	84	1-2-6-7-9
	OBSTRN	86	1-2-3-6-7-9
	OFSPLF	87	1-2-6-7-9
	PONTON	95	1-2-6-7-9
	PYLONS	98	1-2-6-7-9
	ROADWY	116	1-2-4-5-6-9
	RUNWAY	117	1-2-4-5-6-7-9
	SLCONS	122	*
	SILTNN	125	1-2-6-7-8-9

NATSUR		113	
	LNDRGN	73	*
	OBSTRN	86	*
	SBDARE	121	* #
	SLOTOP	126	*
	SLOGRD	127	*
	UWTROC	153	9-14-18

NATQUA		114	
	LNDRGN	73	*
	OBSTRN	86	*
	SBDARE	121	* #

	UWTROC	153	4-8-9-10
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PRODCT		123	
	BOYINB	15	1-2-18-19
	CONVYR	34	4-5-6-7-10-11-12-13-14-15-16-17-21-22
	OBSTRN	86	1-2-3-8
	OFSPLF	87	1-2
	OSPARE	88	1-2-4-6-10-14
	PIPARE	92	1-2-3-7-8-18-19-20
	PIPOHD	93	1-2-3-7-8-9-18-19-20-22
	PIPSOL	94	1-2-3-7-8-9-18-19-20-22
	PRDARE	97	*
	SILTNN	125	1-2-3-7-8-9-14-18-19-20-21-22

QUASOU		125	
	BERTHS	10	1-2-3-4
	DWRTCL	40	1-2-3-4
	DWRTPT	41	1-2-3-4
	DEPARE	42	1-2-3-4
	DRGARE	46	10-11 (<i>replaces check 1648</i>)
	DRYDOC	47	2-3-4-6-7-8-9
	FAIRWY	51	1-2-3-4
	GATCON	61	2-3-4-6-7
	MARCUL	82	1-2-3-4-6-7-8-9
	OBSTRN	86	1-2-3-4-6-7-8-9
	RCRTCL	108	1-2-3-4
	RECTRC	109	1-2-3-4-6
	SOUNDG	129	1-3-4-5-8-9-10-11
	SWPARE	134	1-3-4-5-8-9-10-11
	TWRTPT	152	1-2-3-4
	UWTROC	153	1-2-3-4-6-7-8-9
	WRECKS	159	1-2-3-4-6-7-8-9
	M_SREL	310	1-2-3-4-5-6-7-8-9-10-11

RESTRN		131	
	ACHARE	4	2-3-4-5-6-8-9-10-11-12-13-15-16-17-18-19-20-21-23-24-27
	CBLARE	20	1-2-3-4-5-6-7-8-9-10-11-12-13-16-17-18-19-20-21-22-23-24-25-27

	DWRTPT	41	1-2-3-4-5-6-8-9-10-11-12-13-16-17-18-19-20-21-22-23-24-25-27
	DRGARE	46	1-2-3-4-5-6-7-8-11-12-13-16-17-18-19-20-21-22-23-25-27
	DMPGRD	48	1-2-3-4-5-6-7-8-9-10-11-12-13-16-17-18-19-20-21-22-23-24-25-27
	FAIRWY	51	1-2-3-4-5-6-8-9-10-11-12-13-15-16-17-18-19-20-21-22-23-24-25-27
	ICNARE	67	1-2-3-4-5-6-7-8-9-10-11-12-13-16-17-18-19-20-21-22-23-24-25-27
	ISTZNE	68	1-2-3-4-5-6-8-9-10-11-12-13-18-19-20-21-22-23-24-25-27
	MARCUL	82	1-2-3-4-5-6-8-9-10-11-12-13-15-16-17-18-19-20-21-22-23-24-25-27
	MIPARE	83	1-2-3-4-5-6-8-9-10-11-12-13-15-16-17-18-19-20-21-22-23-24-25-27
	NEWOBJ	163	*
	OSPARE	88	1-2-3-4-5-6-7-8-9-10-11-12-13-15-16-17-18-19-20-21-22-23-24-25-27
	PIPARE	92	1-2-3-4-5-6-7-8-9-10-11-12-13-15-16-17-18-19-20-21-22-23-24-25-27
	PRCARE	96	1-2-3-4-5-6-8-9-10-11-12-13-16-17-18-19-20-21-22-23-24-25-27
	RESARE	112	*#
	SPLARE	120	1-2-3-4-5-6-7-8-9-10-11-12-13-15-16-17-18-19-20-21-22-23-24-25-27
	SUBTLN	133	1-2-3-4-5-6-7-8-9-10-11-12-13-16-17-18-19-20-21-22-23-24-25-27
	TESARE	135	1-2-3-4-5-6-7-8-9-10-11-12-13-16-17-18-19-20-21-22-23-24-25-26-27
	TSSCRS	147	1-2-3-4-5-6-8-9-10-11-12-13-16-17-18-19-20-21-22-23-24-25-27
	TSSLPT	148	1-2-3-4-5-6-8-9-10-11-12-13-16-17-18-19-20-21-22-23-24-25-27
	TSSRON	149	1-2-3-4-5-6-8-9-10-11-12-13-16-17-18-19-20-21-22-23-24-25-27

SIGGEN		140	
	FOGSIG	58	*

STATUS		149	
	AIRARE	2	1-2-4-5-6-7-8-12-14-16-17
	ACHBRT	3	1-2-3-4-5-6-7-8-9-14
	ACHARE	4	1-2-3-5-6-7-8-9-14
	BCNCAR	5	1-2-4-5-7-8-12-18
	BCNISD	6	1-2-4-5-7-8-12-18
	BCNLAT	7	1-2-4-5-7-8-12-18
	BCNSAW	8	1-2-4-5-7-8-12-18
	BCNSPP	9	1-2-4-5-7-8-12-18
	BERTHS	10	1-2-3-5-6-7-8-9-12-14
	BUISGL	12	1-4-6-7-8-12-13-14-16-17

	BOYCAR	14	1-2-5-7-8-18
	BOYINB	15	1-2-4-5-7-8-18
	BOYISD	16	1-2-5-7-8-18
	BOYLAT	17	1-2-5-7-8-18
	BOYSAW	18	1-2-5-7-8-18
	BOYSPP	19	1-2-5-7-8-18
	CBLARE	20	1-7-13
	CBLOHD	21	1-4-5-7-12
	CBLSUB	22	1-4-13
	CANALS	23	1-3-4-5-6-8-14
	CTSARE	25	1-2-3-5-6-7-9
	CAUSWY	26	1-8-12-14
	CHKPNT	28	1-2-5-7-9-12-16-17
	CGUSTA	29	1-4-5-16-17
	CONZNE	31	1
	CONVYR	34	1-4-6-12
	CRANES	35	1-4-6-12
	DAYMAR	39	1-4-5-7-8-12
	DWRTCL	40	1-3-6-9
	DWRTPT	41	1-3-6-9
	DOCARE	45	1-4-6-8-14
	DRYDOC	47	1-4-6-8-12-14
	DMPGRD	48	1-2-4-6-7
	FAIRWY	51	1-3-6-7-9
	FNCLNE	52	1-12
	FERYRT	53	1-2-4-5-6-7-8-9
	FSHZNE	54	1-5-6-7
	FSHFAC	55	1-4-5-6-7-8-12-16-17
	FSHGRD	56	1-5-6-7-8-14-16-17
	FLODOC	57	1-4-6-7-8-12
	FOGSIG	58	1-2-4-5-7-8-15
	FRPARE	60	1-6-8-14
	GATCON	61	1-4-6-16-17
	GRIDRN	62	1-4-6-8-14-16-17
	HRBARE	63	1-4-6-8-14-16-17
	HRBFAC	64	1-4-5-6-7-8-9-12-13-14-16-17
	ICEARE	66	1-2-5-16-17
	ICNARE	67	1-2-5-6-7-16-17
	ISTZNE	68	1-3-6-9-16-17
	LNDARE	71	6-7-8-12-14-16-17-18
	LNDMRK	74	1-2-4-5-7-8-12-13-14-16-17
	LIGHTS	75	1-2-4-5-6-7-8-11-14-15-16-17
	LITFLT	76	1-2-4-5-7-8-14-16-17
	LITVES	77	1-2-4-5-7-8-14-16-17
	LOKBSN	79	1-4-6-8-13-14-16-17

	LOGPON	80	1-2-4-5-6-7-8
	MARCUL	82	1-2-4-5-6-7-8-14-16-17
	MIPARE	83	1-2-5-6-7-16-17
	MORFAC	84	1-2-3-4-5-6-7-8-9-12-14-18
	NAVLNE	85	1-2-5-7-8-14
	NEWOBJ	163	*
	OBSTRN	86	1-4-5-7-8-13-18
	OFSPLF	87	1-2-4-7-8-12-16-17
	OSPARE	88	1-4-7-8-12
	OILBAR	89	1-2-4-7-8
	PILBOP	91	1-2-3-5-6-9-16-17
	PIPARE	92	1-4-7
	PIPOHD	93	1-4-7-12
	PIPSOL	94	1-4-7-12
	PONTON	95	1-2-4-5-6-7-8-12-14
	PRCARE	96	1-9
	PRDARE	97	1-4-8
	RADLNE	99	1-2-4-7
	RADRNG	100	1-2-4-7
	RADRFL	101	1-4-8
	RADSTA	102	1-2-4-7-8
	RTPBCN	103	1-2-4-5-7-8
	RDOCAL	104	1-3-4-5-6-7-9
	RDOSTA	105	1-2-4-5-7-8
	RAILWY	106	1-4-6-12
	RCRTCL	108	1-5-6-9
	RECTRC	109	1-2-5-6-8-9-14 (replaces check 1680)
	RCTLPT	110	1-6-9
	RSCSTA	111	1-2-4-5-7-8-14-16-17
	RESARE	112	1-2-3-4-5-6-7-9-18
	RETRFL	113	1-4-8
	RIVERS	114	1-2-5-8-14
	ROADWY	116	1-2-4-6-8-12-14
	RUNWAY	117	1-2-4-5-6-8-12-14
	SPLARE	120	1-2-3-4-5-6-7-8-9-14
	SLCONS	122	1-2-3-4-6-7-8-9-12-14-16-17
	SISTAT	123	1-2-4-5-7-8-12-14-15-16-17
	SISTAW	124	1-2-4-5-7-8-12-14-15-16-17
	SILTNK	125	1-4-12
	SMCFAC	128	1-2-3-4-5-6-7-8-9-12-14-16-17
	SOUNDG	129	18
	TS_PRH	136	1-2-5-7-18
	TS_PNH	137	1-2-5-7-18
	TS_TIS	139	1-2-5-7-18
	T_HMON	140	5
	T_NHMN	141	5
	T_TIMS	142	5
	TOPMAR	144	1-5-7-8-12-14
	TSELNE	145	1-3-9
	TSSBND	146	1-3-9

	TSSCRS	147	1-3-6-9
	TSSLPT	148	1-3-6-9
	TSSRON	149	1-3-6-9
	TSEZNE	150	1-3-9
	TUNNEL	151	1-3-4-6-8-14-16-17
	TWRTPT	152	1-3-6-9
	UWTROC	153	13-18
	WRECKS	159	7-13-18

SURTPP		153	
	M_SREL	310	*

TECSOU		156	
	DWRTCL	40	1-2-3-6-7-8-9-11-13
	DWRTPT	41	1-2-3-6-7-8-9-11-13
	DRGARE	46	1-2-3-6-7-8-9-11-13
	OBSTRN	86	1-2-3-4-5-6-7-8-9-10-11-12-13
	RCRTCL	108	1-2-3-6-7-8-9-11-13
	RECTRC	109	1-2-3-6-7-8-9-11-13
	SOUNDG	129	*
	SWPARE	134	6-8-13 (see check 1654)
	TWRTPT	152	1-2-3-6-7-8-9-10-11-13
	UWTROC	153	1-2-3-4-5-6-7-8-9-10-11-12-13
	WRECKS	159	1-2-3-4-5-6-7-8-9-10-11-12-13
	M_QUAL	308	*

T_ACWL		161	
	TS_TIS	139	*
	T_HMON	140	*
	T_NHMN	141	*

T_MTOB		163	
	TS_PRH	136	1-2 # (see check 1560)
	TS_PNH	137	3 (#) (see check 1561)
	T_HMON	140	1-2 # (see check 1557)
	T_NHMN	141	3 (#) (see check 1558)

TOPSHP		171	
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	DAYMAR	39	* #
	TOPMAR	144	* #

TRAFIC		172	
	DWRTCL	40	* #
	DWRTPT	41	* #
	FAIRWY	51	*
	RDOCAL	104	* #
	RCRTCL	108	*
	RECTRC	109	* #
	TWRTPT	152	* #

VERDAT		185	
	BRIDGE	11	*
	CBLOHD	21	*
	CONVYR	34	*
	CRANES	35	*
	GATCON	61	*
	LIGHTS	75	*
	PIPOHD	93	*
	M_SDAT	309	* (#)
	M_VDAT	312	* (#)

WATLEV		187	
	CAUSWY	26	1-2-3-4-5-6
	GRIDRN	62	1-2-3-4-5
	LNDRGN	73	1-2-4-6
	MARCUL	82	1-2-3-4-5-7 #
	MORFAC	84	* 1-2-3-4-5-6
	NEWOBJ	163	*
	OBSTRN	86	1-2-3-4-5-7 #
	PYLONS	98	1-2-3-4-5-6
	SBDARE	121	3-4-5
	SLCONS	122	*
	UWTROC	153	3-4-5 #
	WRECKS	159	1-2-3-4-5 #

HORDAT		400	
	M_HOPA	304	* #

QUAPOS		402	
	M_SREL	310	*