

OPERATIONS MANUAL

OPERATIONAL INSTRUCTIONS -		Issued	Withdrawn	Amended	Re Issue
1	Identification of Working Zone	04/07/1983	Dec. 1985		
2	33kv System Control	04/08/1983	Aug. 1988		
3	Reyrolle LA & LC Swgr.- Shutter Locking	18/08/1983	17/11/2010		
4	Bonar Long LV Isolating Links (Amendment No 1)	13/11/1984		01/04/1995	
5	Approach to exposed HV conductors	13/03/1985	01/12/1985		
6	English Electric OBN9G 132kv Swgr.	01/03/1985	01/05/1985		
7	Work on Single Phase live cut-outs	01/04/1985	01/12/1985		
8	HVIEC	01/07/1985	01/12/1985		
9	Lucy FRMU - Restriction on Test Bushings	05/03/1986	08/03/1993		
10	L & C GF3 fuse switches - broken casting	11/06/1986	01/08/1988		
11	L & C GA Fuse switches -door linkage	14/07/1995	07/10/1991		
12	Yorkshire Tyke - Earth sw. failed to engage	15/12/1986	01/08/1988		
13	Brush VSI - Isolating Contact Assembly	23/12/1986	04/02/1992		
14	F & P 33kV ROP Swgr - Water Ingress	11/06/1987	01/08/1988		
15	Yorkshire YSF6 units with VTs-hv fuse rotation	30/11/1987	20/11/1991		
16	Reyrolle YMV - shutter locking	15/01/1988	01/08/1988		
17	SWS Hawkgas - Slow Opening	29/01/1988	11/10/1990		
18	SWS Tiger - Detachment of Trip Bar	10/03/1988	09/02/1989		
19	F & P IB - Blade out of alignment	01/08/1988	05/08/1988		
20	Reyrolle YMV - shutter locking	05/08/1988	10/04/1989		
21	Yorkshire Tyke - Ingress of Moisture	10/08/1988	08/12/1988		
22	Yorkshire FMS-	10/10/1988	10/06/1989		
23	GEC VMX - failure of Isolating contact cluster	21/11/1988	15/02/1989		
24	Yorkshire Tyke -	08/12/1988	15/02/1989		
25	Whipp and Bourne CV- fault on busbar selector interlock	22/12/1995	28/03/1989		
26	Yorkshire IVIO - fault in CT chamber	29/12/1988	18/01/1989		
27	SWS Tiger FRMU	09/02/1989	11/10/1990		
28	Yorkshire Tyke - reverts to OI 21 restriction	15/02/1989	22/03/1989		
29	GEC VMX - OI 23 made a Restriction	15/02/1989	28/07/1989		
30	ABB Nitran LV T/F cabinets - Set screws in Isol.	16/03/1989	11/10/1990		
31	Yorkshire Tyke - permali link	22/03/1989	02/08/1989		
32	Whipp and Bourne CV - further problem with Interlock bar	28/03/1989	12/04/1989		
33	Reyrolle YMV - isolating contacts	10/04/1989	11/12/1989		
34	Whipp and Bourne CV - busbar segregation plate	12/04/1989	13/03/1990		
35	L & C T4GF3 & T3GF3 - hv fuse cover gasket	14/04/1989	26/04/1989		
36	Reyrolle SF6 HSAR - moving cont. hinge pivot	20/04/1989	24/10/1989		
37	L & C T4GF3 & T3GF3 - cracked windows	24/04/1989	09/05/1989		
38	L & C T4GF3 & T3GF3 - cracked windows	09/05/1989	14/11/1989		
39	L & C J, J2 Oil switches - Permali drive	06/07/1989	05/10/1989		
40	GEC VMX - Restr. limited to pre 1986 units	28/07/1989	11/10/1990		
41	Yorkshire Tyke -	02/08/1989	27/02/1995		
42	Lucy FRMU - possible dep. manual op.	13/10/1989	14/11/1989		
43	Brush L - failure of operating mech.	20/10/1989	19/04/1990		
44	Reyrolle SF6 HSAR - limits OI 36	24/10/1989	06/11/1991		
45	Yorkshire SO- HI	27/10/1989	09/11/1989		
46	L & C T4GF3 & T & T3GF3	07/11/1989	14/11/1989		
47	Lucy FRMU Oil SWs. - makes OI 42 a Restr.	14/11/1989	09/05/1997		
48	L & C Oil Swgr outdoors - combines 38 & 46	14/11/1989	29/05/1991		
49	Reyrolle YMV-shutter locking mech.	11/12/1989	19/12/1990		
50	Whipp and Bourne CV - busbar segregation plate	13/03/1990	20/03/1990		
51	Whipp and Bourne CV - busbar segregation plate	20/03/1990	13/07/1990		

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52	Brush L Oil Sws.	19/04/1990	25/06/1990		
53	GEC FG 132kV swgr.- damage to interrupters	10/05/1990	11/05/1990		
54	GEC FG 132kV swgr.- OI 53 modified	11/05/1990	05/06/1990		
55	Swgr in M/C not maintained in last 10yrs	08/06/1990	25/06/1990		
56	Brush L Oil sws.- OI 52 modified	25/06/1990	06/03/1990		
57	Swgr. in Norweb not maintained in last 10 yrs.	25/06/1990	15/04/1996		
58	Metropolitan Vickers LB2 33kV Oil Sws.	13/07/1990	25/09/1996		
59	Whipp and Bourne CV	13/07/1990	14/12/2000		
60	Reyrolle YMV swgr.	19/12/1990	14/02/1991		
61	L & C T4GF3 RMU - cracks in cable box bushing	03/01/1991	06/11/1991		
62	Reyrolle YMV swgr.- modifies OI 60	14/02/1991			
63	Reyrolle L45T & L42T 33kV Swgr. Fdr. spouts	26/02/1991	22/08/1991		
64	Brush L Oil Sws. - Stop pin problem	06/02/1991	10/07/1991		
65	English Electric OLF1B 33kV Oil Sws.- isolator rating	29/05/1991	13/07/1999		
66	F & P IVS 33kV Oil Sws.- no rating	29/05/1991	31/03/2004		
67	Plain Break CBs with Horizontal Bracings	04/06/1991	10/07/1991		
68	Oil filled swgr. outdoors	29/05/1991	26/10/1992		
69	Plain Break CBs with Horizontal Bracings	10/07/1991	17/11/2010		
70	Brush L oil Sws.	10/07/1991			
71	Reyrolle L45T & L42T 33kV Swgr. Fdr. spouts	22/08/1991	10/02/1992		
72	L & C GA switchfuse - ventil. of air fuse chamber	06/09/1991	07/10/1991		
73	L & C GA switchfuse - ventil. of air fuse chamber	07/10/1991	26/10/1994		
74	Bonar Long 2 Way Disconnecting cabinet	14/11/1991	05/11/1992		
75	Metropolitan Vickers 132kV GA6SW Air Blast CBs	29/11/1991	24/03/1992		
76	Brush VSI - moving of swgr. trucks	04/02/1992			
77	Single Core 11/6.6kV Dry Terminations	24/03/1992	06/10/1994		
78	Metropolitan Vickers 132kV GA6SW Air Blast CBs	24/03/1992	05/12/2000		
79	SWS D4X - extended air insul. CT chambers (Amendment No 2)	24/03/1992		07/11/2011	
80	Reyrolle L45T 33kV Swgr.	22/04/1992	17/06/1992		
81	GEC JB 424 O/D 33kV Swgr.	14/05/1992	17/06/1992		
82	GEC JB 424 & JB 426 O/D 33kV Swgr.	17/06/1992	27/02/1995		
83	Reduced Clearance in 132kV substations (Amendment 1)	29/06/1992		10/02/2011	
84	Brush 132kV SF6 Switching isolators (Amendment 1)	29/06/1992		11/02/2011	
85	S & C all RA* type oil switches	22/07/1992	28/08/1992		
86	S & C all RA* type oil switches	28/08/1992	22/01/1993		
87	Not Issued				
88	Oil Filled Swgr. Outdoors	26/10/1992			
89	SWS Tiger RMU - oil contamination	12/11/1992	24/10/1993		
90	English Electric CV 11kV	15/06/1993	15/11/1993		
91	L & C GA Fuse Switch - inadequate cont. wipe	29/09/1993	26/10/1994		
92	L & C GA switchfuse	26/10/1993			
93	SWS IF4 & IF4X - Permal drive bar	07/01/1994	15/07/1994		
94	SWS IF4 & IF4X - Permal drive bar	15/07/1994	22/12/1994		
95	Stainburn 33kv Swgr - Rating	22/09/1994	25/02/1999	05/12/1994	
96	Dry Terminations 11/6.6kv cables (Amendment No 1)	06/10/1994		26/07/1995	
97	SWS IF4 & IF4X - Permal drive bar	22/12/1994	01/12/1995		
98	132kv SF6 CBs 120 & 220 at Bolton	22/12/1994	13/05/2011		
99	GEC JB424 O/D 33kv swgr.	27/02/1995	02/04/1997		
100	Yorkshire Tyke RMUs	27/01/1995	17/11/2010		
101	Cooke Ferguson 33kv OE5 MK3 O/D CBs	06/03/1995	13/07/1999		
102	GEC FG1 132kV SF6 Swgr.	09/03/1995	24/05/1995		
103	Hawker Siddely ASD tap changers	10/05/1995	21/08/1995	15/05/1995	

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104	GEC FG1 132kV SF6 Swgr. Dew Point readings	24/05/1995				
105	EHV/HV SF6 Swgr with Depleted pressure (Issue 2)	27/06/1995		19/03/2015		
106	Hawker Siddely ASD tap changers	21/08/1995	29/02/1996			
107	English Electric Tap Changers FDA/FDB (Issue 4)	21/08/1995			17/09/2019	
108	Hawker Siddeley HG36 33kV SF6 swgr.	29/09/1995	23/01/1997			
109	S & C K3 33kV Swgr.	11/10/1995	01/12/1995			
110	132kV Capacitor VTs	17/10/1995	29/02/1996			
111	SWS IF4 & IF4X - Permal drive bar	01/12/1995	24/05/1996			
112	Metropolitan Vickers SB 33kV OCBs Lancaster Grid	06/12/1995	02/01/1996			
113	Hawker Siddeley 11/6.6kV Falcon Beta RMU	27/12/1995	02/04/1997			
114	Crompton Parkinson 11/6.6kV ULA1 & ULB1 CB	16/01/1996	09/03/2005			
115	SWS IF4X 11/6.6kV	29/02/1996	04/04/1996			
116	Swgr.not maintained within 11 mths of due date (Issue 3)	15/04/1996		23/08/2018		
117	SWS IF4 & IF4X - Permal drive bar	24/05/1996				
118	GEC VMX 11/6.6kv Vacuum Circuit Breaker	26/06/1996	30/07/1996			
119	GEC Withdrawable VTs	01/07/1996	05/07/1996			
120	GEC Withdrawable VTs	05/05/1996	15/07/1997			
121	GEC VMX 11/6.6kv Vacuum Circuit Breaker	30/07/1996	15/07/1997			
122	Heyrod 33kV switchgear - rating (Issue 2)	20/08/1996		24/02/2015		
123	L & C GF3D Fuse Switch - interlock mech.	02/09/1996	01/11/1996			
124	Metropolitan Vickers LB2 33kV Oil Switch	25/09/1996	23/01/1997			
125	L & C GF3D Fuse Switch - interlock mech.	01/11/1996				
126	SWS IF4 & IF4X - Disruptive failure busbar chamber	03/01/1997	12/02/1997			
127	ABB LTB145D1 132kV GCB	17/01/1997	20/06/2008			
128	Metropolitan Vickers LB2 33kV Oil Switch	23/01/1997				
129	Hawker Siddeley HG36 33kV SF6 swgr.	23/01/1997	25/02/1999			
130	Yorkshire IVIO 11 kV Circuit Breaker	23/01/1997	09/03/2005			
131	Reyrolle 33 kV 36 SMS Switchgear	19/03/1997	24/11/1997			
132	Reyrolle 11 kV ROKSS/ROSSS Switchgear	16/04/1997	22/04/1997			
133	Reyrolle 11 kV ROKSS/ROSSS/ROK/ROS Switchgear	22/04/1997	06/05/1997			
134	Reyrolle 11 kV OKSS/RMS/RMK Switchgear	22/04/1997	06/05/1997			
135	Reyrolle 11 kV ROKSS/ROSSS/ROK/ROS/RMK/RMS/OKSS Switchgear	06/05/1997	01/12/1997			
136	Lucy FRMU 11 kV Ring Main Unit	09/05/1997	09/06/1997			
137	GEC OX36 and HMX36 33 kV Circuit Breakers (Amendment No 1)	20/05/1997	17/11/2010	28/07/1998		
138	Lucy FRMU 11 kV Ring Main Unit (Amendment No 1)	09/06/1997	17/11/2010	14/12/2000		
139	GEC VMX 11/6.6kv Vacuum Circuit Breaker	15/07/1997	18/07/1997			

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140	GEC Withdrawable VT's fitted to 6.6/11 kV type BV Housings (Amendment No 1)	15/07/1997		01/07/1998		
141	GEC VMX 11/6.6kV Vacuum Circuit Breaker	18/07/1997	06/08/1997			
142	GEC VMX 11/6.6kV Vacuum Circuit Breaker GEC BVP 17 11/6.6 kV Circuit Breakers 1988 Onwards	06/08/1997	03/09/1997			
143	GEC VMX and BVP 17 11/6.6 kV Circuit Breaker Housings from 1988 to 1995 inclusive.	03/09/1997	23/09/1997			
144	GEC withdrawable VTs fitted to 6.6/11 kV type VMX housings (Amendment No 2)	03/09/1997		01/07/1998		
145	English Electric OBN9G Air Blast Circuit Breaker	12/09/1997	19/04/1999			
146	GEC VMX Vacuum Circuit Breaker	15/09/1997	14/12/2000			
147	GEC VMX and BVP17 11/6.6kV Circuit Breaker Housings from 1988 to 1995 inclusive (Amendment No 1)	23/09/1997	06/02/2004	01/07/1998		
148	GEC MX type Cast Resin 11000/110V and 6600/110V Voltage Transformers (Amendment No.2)	23/09/1997	28/12/2006	29/11/2006		
149	Whipp and Bourne 11/6.6kV CV Vacuum Circuit Breaker	13/10/1997	28/10/1997			
150	Reyrolle 33 kV 36 SMS Switchgear	24/11/1997	17/11/2010			
151	Reyrolle 11 kV ROKSS/ROSSS/ROK/ROKS/ROS/RMK/RMS Switchgear	01/12/1997	08/06/2001			
152	Reyrolle 11 kV ROKSS/ROSSS/ROK/ROKS/ROS/RMK/RMS/OK SS Switchgear	01/12/1997	08/06/2001			
153	Low Voltage Fuseboards, Fusecabinets, Feeder Pillars and Associated MDI and Auxiliary Panels with Uninsulated LV Busbars	23/01/1998	13/03/2003			
154	Reyrolle Type ROKSS, ROSSS, ROK, ROS, RMS and RMK 11/6.6 kV Switchgear (Amendment No 1)	19/02/1998		14/12/2000		
155	Yorkshire Switchgear SO-HI 11/6.6 kV Switchgear (Amendment No 3)	19/02/1998	14/12/2000	22/11/1999		
156	Crompton Parkinson UID/UIDE 11/6.6 kV Switchgear	04/03/1998	14/12/2000			
157	Hawker Siddeley/Brush PMR3 Pole Mounted Auto Recloser (Amendment No 1)	23/06/1998		17/05/1999		
158	GEC VMX 6.6/11kV Circuit Breaker (Amendment No. 1)	16/07/1998		09/07/2002		
159	Reyrolle Type LM23T & LM36T 6.6/11kV OCBs	30/07/1998	25/11/1998			
160	Long and Crawford T3GF3 and T4GF3 11/6.6kV Ring Main Units	08/09/1998	18/09/1998			
161	English Electric OBN9G 132kV Air Blast Circuit Breaker (Amendment No 1)	19/04/1999		13/07/1999		
162	Brush HFN-OLN, HFE, OLE, HFU, OLU 6.6/11KV Switchgear situated outdoors	18/08/1999				
163	English Electric OBN9G 132kV Air Blast Circuit Breaker	28/10/1999				
164	FERGIUSON PAILIN BVRP3 6.6/11kV Circuit Breaker	26/11/1999	06/12/1999			

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OPERATIONAL INSTRUCTIONS -		Issued	Withdrawn	Amended	Re Issue	
165	LUCY FRMU, FRMUE and EFS 6.6/11kV Fuse Switches (Amendment No 1)	23/12/1999	17/11/2010	26/01/2000		
166	Sieman 8DA10 33kv Vacuum Circuit Breaker (Amendment No 2)	14/04/2000	17/11/2010	14/12/2000		
167	Site Specific Operational Instruction					
168	LV Wall Box	14/11/2000				
169	Underground Link Boxes With Extended Neutral Stalk	14/12/2000				
170	FERGIUSON PAILIN BVRP3 6.6/11kV Circuit Breaker Replaces OI 164)	14/12/2000				
171	Reyrolle RETVAC 6.6/11kV VCB retrofitted in C Gear Housing	23/03/2001	06/06/2003			
172	Alstom Saturn RT 11/6.6kV RMU (20kA Rating) (Amendment No 1)	18/05/2001	17/11/2010	24/07/2001		
173	Reyrolle OKSS 11/6.6kV Switchgear (Amendment No. 1)	08/05/2001	17/11/2010	25/10/2007		
174	GEC ALSTOM 33kV & 11kV OX Circuit Breaker	26/09/2001	06/12/2005			
175	Metropolitan Vickers/AEI 33kV SB12 Circuit Breaker	23/01/2002	25/07/2013			
176	Yorkshire Switchgear 11/6.6 kV Switchfuses Types FSA, FSOA, FSAT, TYKE II & TYKE IIA	28/10/2002				
177	Reyrolle OKSS 11/6.6kV Switchgear Amendment No.1	21/11/2002	17/11/2010	25/10/2007		
178	6.6/11kV ABS's with unsatisfactory earthing (Amendment No. 3)	10/02/2003		16/05/2003		
179	SWS Tiger RMU	24/07/2003	17/11/2010			
180	L & C R3, R3X, R4, R4X	04/08/2003	26/10/2004			
181	Access Restriction various primaries due to fault level (Issue 4)	15/12/2003		04/07/2018		
182	Operation restriction various primaries due to fault level (Issue 14)	15/12/2003		11/07/2018	30/07/2019	16/06/2020
183	S & C RA50, RAO50, RA51, RA71	23/01/2004	03/07/2007			
184	Whipp and Bourne GVR (Amendment 10)	17/08/2004	03/06/2016	29/02/2012		
185	Areva (Alstom) WSA 33kV switchgear	16/08/2004	14/03/2005			
186	Brush "R" type OCB's	21/09/2004	27/10/2004			
187	AEI IB5 oil switches	15/10/2004				
188	Brush/Hawker Siddeley/FKI "VSI/VMV" type housings	27/10/2004				
189	ABB 7 way LV cabinets	25/07/2005				
190	Pole Mounted Cast Resin VT's (Amendment No.3)	28/10/2005		25/08/2011		
191	Power Isolators Type DSB 132kV Motorised Isolators	15/05/2006	17/11/2010	Site list updated 22.06.06		
192	33kV Switchgear Rating (Issue 12)	04/09/2006		17/04/2019	18/06/2020	
193	VPIS Phasing facility on Lucy RMU's	15/01/2007				
194	SPE Retrofit circuit breakers (Issue 2)	15/12/2008		29/07/2015		

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		195	Operation of fuse switches in T4GF3/T3GF3 ring main units and GF3 type fuse switches (Issue 2)	20/03/2009	28/04/2010
196	Operation of 6.6/11kV ABS with actuator (Issue 4)	07/01/2010		23/05/2014	
197	GEC FMJL 132kV CT's (Issue 5)	28/09/2009	06/02/2014		
198	132kV Tap Changer-AMD-ATL (Amendment No. 3)	24/03/2010		29/11/2011	
199	Schneider Electric-Genie Evo Switchgear (Issue 2)	09/09/2011	12/11/2015	23/05/2014	
200	Reyrolle ROKSS & RMS Switchgear (Amendment No.3)	31/10/2011		24/07/2012	
201	Schneider Electric RN2C, RN6C, RE2C (Issue 2)	25/11/2011		19/11/2013	
202	ABB LV Boards/Cabinets (Issue 02)	23/01/2012		02/08/2019	02/08/2019
203	ABB IMB 145kV CT's	15/06/2012	23/05/2013		
204	Brush OLU oil switch	10/09/2012	24/10/2012		
205	Under Development	Not Issued			
206	L&C GF3; GF3B; GF3D; GF3F; GF3M; GF3T; T4GF3; T3GF3 etc (Issue 6)	04/01/2013		19/09/2016	
207	MR Vacutap Tap Changers (Issue 8)	02/05/2013	29/07/2015	08/07/2014	
208	Schneider RN2C & RN6C remote control actuators connected to a Remsdaq RTU	23/05/2013			
209	Fuller HS319 Tapchangers fitted to Grid Transformers (Issue 4)	06/09/2013		06/05/2016	
210	Mid Central Electric 11kV VTs (Issue 3)	20/01/2015		16/01/2019	
211	Long Controls 11kV ABS Disconnecter Actuator Operating Mechanism/Operating Arm (Issue 3)	13/03/2015		05/10/2015	
212	Metropolitan Vickers SPE Retrofit Vacuum Circuit Breakers (Issue 2)	27/07/2015		29/07/2015	
213	All Variants of SPE Retrofit Vacuum Circuit Breakers (Excluding Metropolitan Vickers Units Covered by OI212)	29/07/2015			
214	Lucy VRN2a, VRN6a, and VRE2a (Issue 2)	15/10/2015		19/09/2016	
215	Never Issued !!				
216	Heysham Moss Sidings Substation 642949 – Operational Requirements	29/02/2016		25/10/2017	
217	Lucy Electric LV Boards Pre 1970	16/06/2016			
218	CG 3 Phase Pole Mounted Transformers (Issue 2)	22/11/2016		26/12/2016	
219	FKI Eclipse VCB	19/01/2017			
220	English Electric TTT winding temp relay	30/01/2017			
221	BICC and Pirelli 132kV Sealing Ends 1995 - 2005 (Issue 2)	05/04/2017		05/06/2019	05/06/2019

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222	Grid supply Bredbury Hot site 339413 - Operational Requirements (Issue 2)	09/06/2017		21/05/2018		
223	Roosecote Aux Supply 613499 Hot Site	13/02/2018				
224	AEI OW410 132kV OCB & Ferguson Palin XOPR60 (Issue 2)	30/07/2019			30/07/2019	
225	LUCY SWITCHGEAR – FRMU MK2A (Issue 1)	24/03/2020				
226	P&B Switchgear – VOR-M A4/A6 RETROFIT VCBs (Issue 1)	01/05/2020				
227	LUCY FRMU - All Variants (Test Access Bolt Issue) (Issue 1)	19/06/2020				
228	Sentinel RCA371 (Issue 1)	05/08/2020	12/08/2020			
	A Copy of any of the above Ops. Instructions may be obtained from System Operations					

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			Current (*)
		Safety Rules	
		Transf. to CP85	
			*
		Safety Rules	
		Safety Rules	
		Safety Rules	
		See OI 73	
		See OI 76	Mods. 616, 620
		See OI 20	
		See OI 27	
		See OI 33	
		See OI 24	
		See OI 29	
		See OI 28	
		See OI 32	
		See OI 31	
		See OI 40	
		See OI 41	
		See OI 34	
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		See OI 50	
		See OI 37	
		See OI 38	
		See OI 48	
		See OI 100	
		See OI 47	
		See OI 52	
		See OI 48	
		See OI 136	
		See OI 68	
		See OI 60	
		See OI 51	
		See OI 59	

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			Current (*)
		See OI 56	
		See OI 54	
		See OI 57	
		See OI 64	
		See OI 116	
		See OI 124	
		See AP 20	
		See OI 62	
			*
		See 0171	
		See OI 70	
		See OI 69	
		See OI 88	
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		See OI 73	
		See OI 91	
		See OI 78	
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		See OI 96	
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		See OI 82	
		See OI 99	
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		See OI 86	
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		See OI 92	
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		See OI 94	
		See OI 97	
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		See OI 111	
		See OI 104	
		See OI 106	

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			Current (*)
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		See OI 129	
		See OI 117	
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		See OI 121	
		See OI 120	
		See OI 139	
		See OI 139	
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		See OI 125	
		See OI 128	
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		See OI 150	
		See OI 133	
		See OI 135	
		See OI 135	
		See OI Nos 151 & 152	
		See OI 138	
		See OI 141	

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			Current (*)
			*
		See OI 142	
		See OI 143 See OI 144	
		See OI 147	
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		See OI 161 Amendment 1	
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OPERATIONS MANUAL

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OPERATIONS MANUAL

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OPERATIONS MANUAL

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