

## CRP PANEL

1	Xmer 3 Neutral O/C relay	Definit time over current relay type CTU	CTU12BF8032ACH	AREVA
2	Xmer 3 SC & E.F.Prot. relay	MICOM P111		Schneider
3	Xmer 3 under voltage relay	Relay tpe VAG	VAG11YF44G	ALSTOM
4	Xmer 3 TRIPPING relay	Relay tpe VAJ	VAJH13YF62B	ALSTOM
5	Xmer 3 Diff. Prote. relay	Relay tpe DTH31	DTH31FF8023A(M)	English Electric
6	Xmer 3 Trip ckt sup. relay	Relay tpe VAX	VAX	AREVA
7	Xmer 3 Aux. relay 1	Relay tpe VAA	VAA33ZG8338BCH	AREVA
8	Xmer 3 Aux. relay 2	Relay tpe VAA	VAA33ZG8338BCH	AREVA
9	Xmer 3 Aux. relay 3	Relay tpe VAA	VAA23ZG8502F(M)	English Electric
10	Xmer 1 Back up prote relay	Definit time relay type VTT	VTT11ZG8141B(M)	ALSTOM
11	Xmer 1 Trip ckt sup. relay	Relay tpe VAX	VAX21Z68044B(M)	ALSTOM
12	Xmer 1 Aux. relay 1	Relay tpe VAA	VAA11YF8402E(M)	ALSTOM
13	Bus Coupler O/c. relay	Relay PL 70		Ingeteam
14	Bus Coupler Neutral O/C relay	Definit time over current relay type CTU	CTU12BF8105A(M)	ALSTOM
15	Bus Coupler E/F relay	Instantaneous E/f Relay Type CAG	CAG14AF12A	ALSTOM
16	Bus Coupler TRIPPING relay	Relay tpe VAJ	VAJH13YF62B	ALSTOM
17	Bus Coupler Trip ckt sup. relay	Relay tpe VAX	VAX21Z68044B(M)	ALSTOM
18	Line 1 O/C protection relay	Relay PL 70		Ingeteam
19	Line 1 tripping relay	Relay tpe VAJ	VAJH13YF62B	ALSTOM
20	Line 1 Trip ckt sup. relay	Relay tpe VAX	VAX21Z68044B(M)	ALSTOM
21	Xmer 1 Aux. relay 2	Relay tpe VAA	VAA33ZG8338B(M)	ALSTOM
22	Xmer 1 Aux. relay 1	Relay tpe VAA	VAA33ZG8338B(M)	ALSTOM
23	Xmer 1 tripping relay	Relay tpe VAJ	VAJH13YF62B	ALSTOM
24	Xmer 1 SC Prot. relay	Relay PL 70		Ingeteam
25	Xmer 1 Diff. Prote. relay	Relay tpe DTH31	DTH31FF8023A(M)	GEC Alstom
26	Xmer 1 Neutral O/C relay	Definit time over current relay type CTU	CTU12BF8105A(M)	ALSTOM
27	Xmer 2 Diff. Prote. relay	Relay tpe DTH31	DTH31FF8023A(M)	GEC Alstom
28	Xmer 2 O/c. relay	Relay PL 70		Ingeteam
29	Xmer 2 Neutral O/C relay	Definit time over current relay type CTU	CTU12BF8105A(M)	ALSTOM
30	Line 2 tripping relay	Relay tpe VAJ	VAJH13YF62B	ALSTOM
31	Line 1 Trip ckt sup. relay	Relay tpe VAX	VAX21Z68044B(M)	ALSTOM
32	Xmer 2 tripping relay	Relay tpe VAJ	VAJH13YF62B	ALSTOM
33	Xmer 2 Aux. relay 1	Relay tpe VAA	VAA33ZG8338B(M)	ALSTOM
34	Xmer 2 Aux. relay 2	Relay tpe VAA	VAA33ZG8338B(M)	ALSTOM
35	Xmer 2 Back up prote relay	Definit time relay type VTT	VTT11ZG8141B(M)	ALSTOM
36	Xmer 2 Trip ckt sup. relay	Relay tpe VAX	VAX21Z68044B(M)	ALSTOM
37	Xmer 2 Aux. relay 2	Relay tpe VAA	VAA11YF8402E(M)	ALSTOM

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## 11 KV PANEL

1	6th Berth-1	Relay tpe VAJ Relay PL 70	VAJH23Z68316ACH	AREVA Ingeteam
2	TS 4 -1	Relay tpe VAJ Relay PL 70	VAJH23Z68316ACH	AREVA Ingeteam
3	7TH Berth -1	Relay tpe VAJ Relay PL 70	VAJH23Z68316ACH	AREVA Ingeteam
4	Capacitor Bank - 3	Sensitive Earth fault relay CTUM 15 Digital type relay Tripping relay	VAJH23Z68316ACH	AREVA Esun Reyrolle AREVA
5	Bus PT 3	Instaneous under voltage relay VAGM Tripping relay	VAGM22AF171G VAJH23Z68316ACH	AREVA AREVA
6	Incomer III	Instaneous under voltage relay VAGM Tripping relay Relay PL 70	VAGM22AF171G VAJH23Z68316ACH	AREVA AREVA Ingeteam
7	Bus Coupler	Digital type relay Digital type relay Tripping relay	7352 VAJH23Z68316ACH	Esun Reyrolle Esun Reyrolle AREVA
8	OLD NDA-1	Relay PL 70		Ingeteam
9	Spare	Relay PL 70 Tripping relay	VAJH23Z68317ACH	Ingeteam Alstom
10	40 Hector-1	Relay PL 70 Tripping relay	VAJH23Z68317ACH	Ingeteam Alstom
11	11 KV DG supply	Over Current Earth Fault relay type CDG Earth Fault Relay (inverse) type CDG Over Current Relay (Inverse) Type CDG		
12	Incomer I	Relay PL 70 Instaneous under voltage relay VAGM Tripping relay	VAGM22AF171G VAJH23Z68317AC(M)	Ingeteam Alstom AREVA
13	Capacitor Bank I	Definit time over current relay type CTU Tripping relay	CTU62BF8002P(M) VAJH23Z68317AC(M)	AREVA AREVA
14	NEW NDA	Relay PL 70 Tripping relay	VAJH23Z68317ACH	Ingeteam Alstom
15	Cargo Jetty I	Relay PL 70 Tripping relay	VAJH23Z68317ACH	Ingeteam Alstom
16	ABG -1	Relay PL 70 Tripping relay	VAJH23Z68317ACH	Ingeteam Alstom
17	BUS PT - 1	Instaneous under voltage relay VAGM Definit time relay type V.T.T. Tripping relay Instaneous under voltage relay VAG	VAGM22AF171G VAJH23Z68317ACH	Alstom Alstom Alstom
18	NEW NDA-1	Relay PL 70 Tripping relay	VAJH23Z68317AC(M)	Ingeteam Alstom
19	Bus Coupler - 1	Relay PL 70 Tripping relay	VAJH23Z68317AC(M)	Ingeteam Alstom
20	Bus PT-2	Under Voltage Relay VAGM Under Voltage Relay VAGM Definit time relay type V.T.T.		Alstom Alstom Alstom
21	40 Hector	Relay PL 70 Tripping relay	VAJH23Z68317AC(M)	Ingeteam Alstom
22	6TH Berth	Relay PL 70 Tripping relay	VAJH23Z68317AC(M)	Ingeteam Alstom
23	CJ II	Relay PL 70 Tripping relay	VAJH23Z68317AC(M)	Ingeteam Alstom
24	6TH Berth	Relay PL 70 Tripping relay	VAJH23Z68317AC(M)	Ingeteam Alstom
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25	Capacitor Bank II	Definit time over current relay type CTU Sensitive Earth fault relay type CTUM Tripping relay	CTU62BF8002P(M) VAJH23Z68317AC(M)	AREVA Alstom
26	66 KV Lighting Transformer II	Relay PL 70 Tripping relay	VAJH23Z68317AC(M)	Ingeteam Alstom
27	6TH Berth	Relay PL 70 Tripping relay	VAJH23Z68317AC(M)	Ingeteam Alstom
28	Incomer II	Relay PL 70 Tripping relay	VAJH23Z68317AC(M)	Ingeteam Alstom
29	Old NDA	Relay PL 70 Tripping relay	VAJH23Z68317AC(M)	Ingeteam Alstom
30	ABG New	Relay PL 70 Tripping relay	VAJH13YFD751BBA	Ingeteam Alstom
31	ABG New II	Relay PL 70 Tripping relay	VAJH13YFD751BBA	Ingeteam Alstom
32	New 40 Hector I	Mircroprocessor Relay Trip CKT supervision relay VAX Trip Relay	VAX31Z8074BCH VAJH23ZG0754BBA	Siemens Areva Areva
33	New 40 Hector II	Mircroprocessor Relay Trip CKT supervision relay VAX Trip Relay	VAX31Z8074BCH VAJH23ZG0754BBA	Siemens Areva Areva

**Note: Transformer Oil Filateration qty. 19300 Ltrs. Approx.**

Sd/-  
Jr. Engr (E)

Sd/-  
SDO(C)

Sd/-  
XEN(E)/SE(I/c)