
COX

Research and Technology, Inc.

DUPLEX PUMP
CONTROL PANEL
GAINSVILLE

Cox Research and Technology, Inc.
14697 S. Harrells Ferry Road
Baton Rouge, LA. 70816
(225) 756-3271 Fax (225) 755-1030

CP-1850


VOLTAGE	<u>277/480V</u>	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	<u>3/60</u>	
NO. MOTORS	<u>2</u>	
HP	<u>9/1.3</u>	
FLA	<u>11/2.6A</u>	
TYPE OF PUMP	<u>Submersible</u>	(Self-Priming, Submersible)
MANUFACTURER	<u>LANDIA/ABS</u>	
CATALOG NUMBER	<u></u>	
CONTROL VOLTAGE	<u>120V</u>	(120V, Other)
ENCLOSURE	<u>NEMA 4X</u>	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	<u>Fiberglass</u>	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR	<u>Floats</u>	(Floats, Bubbler, Other)
CAPACITORS	<u>No</u>	(Yes, No)
CAPACITOR WIRING FIGURE	<u>N/A</u>	
THERM. & SEAL FAIL WIRING FIGURE	<u></u>	

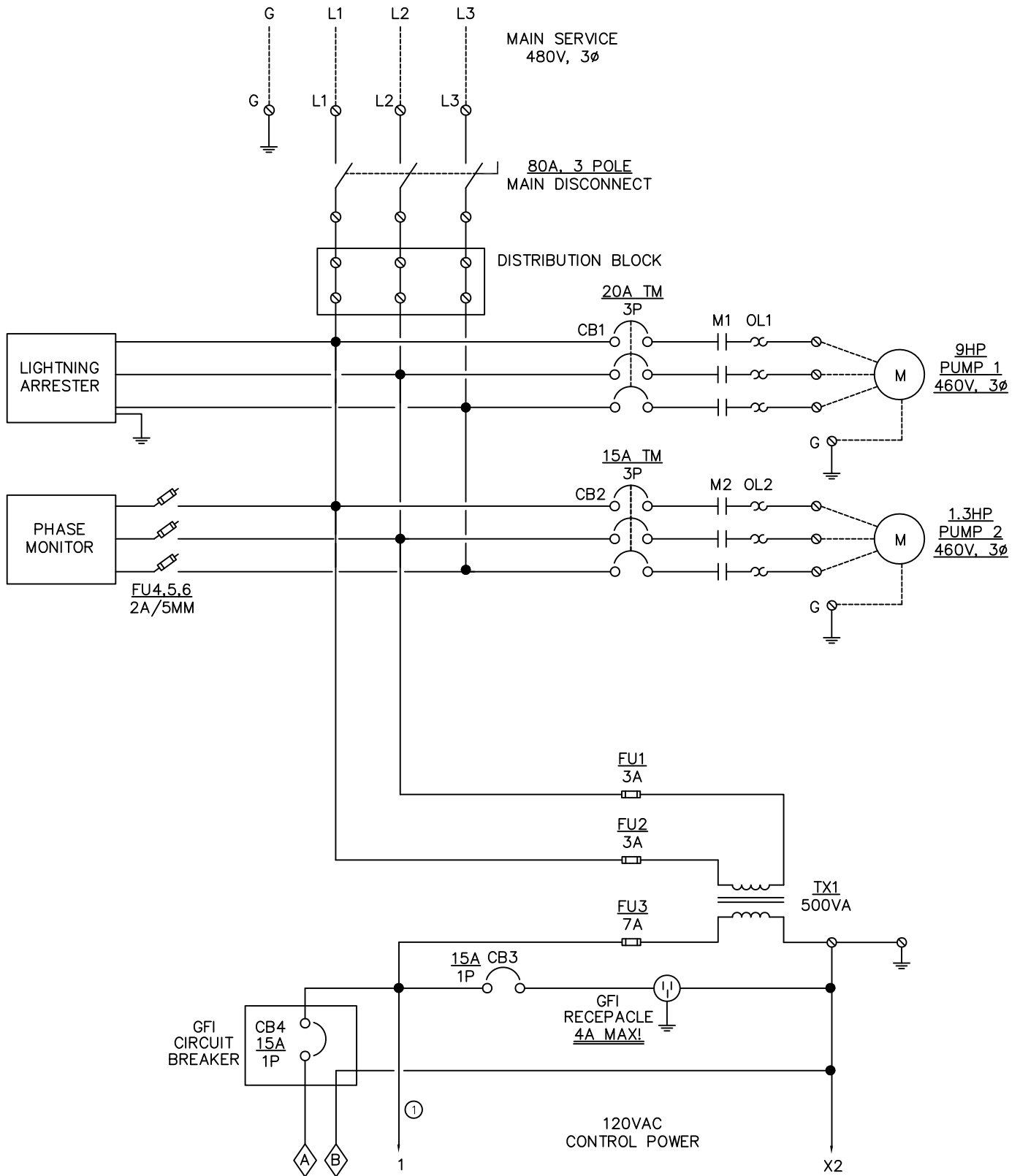
OPTIONS:

SEAL FAIL LIGHTS	<u>X</u>	(Submersible Only)
SEAL FAIL RELAYS	<u>X Seal Minder</u>	(Submersible Only)
SEAL FAIL PUMP SHUTDOWN	<u></u>	(Submersible Only)
HT PUMP SHUTDOWN	<u>X</u>	(Self-Primer, Submersible)
ALARM HORN	<u>X</u>	
ALARM LIGHT	<u>X</u>	
LIGHT PANEL MTD	<u>X</u>	
LIGHT REMOTE MTD	<u></u>	
LIGHT FLASHER	<u>X</u>	
LIGHTNING ARRESTER	<u>X</u>	
ELAPSED TIME METER	<u>X</u>	
PHASE MONITOR	<u>X</u>	
NEMA RATED STARTERS	<u></u>	
GROUND FAULT RECPT.	<u>X</u>	
GREEN RUN LIGHTS VS. RED	<u>X</u>	
POLE, BOX, SEAL	<u></u>	
INTRINSICALLY SAFE RELAYS	<u></u>	
HIGH TEMP. LOCKOUT, MANUAL RESET	<u></u>	
ECONOMY VERSION	<u></u>	
U.L. LISTED	<u>X</u>	

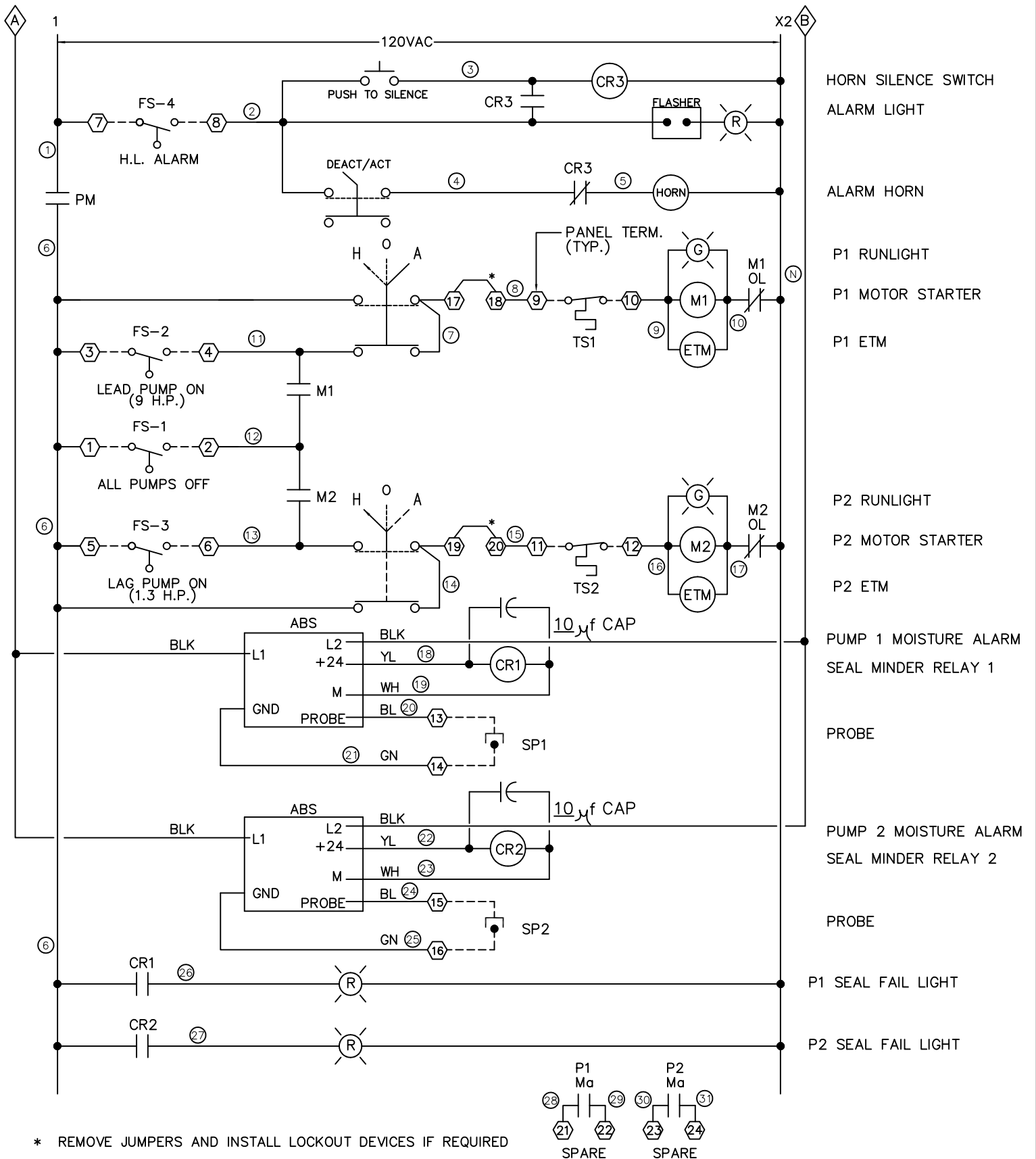
SOLD TO: CF ENGINEERED EQUIPMENT - DALLAS, TX
TAG : GAINSVILLE

SHIP TO: CF ENGINEERED EQUIPMENT - DALLAS, TX

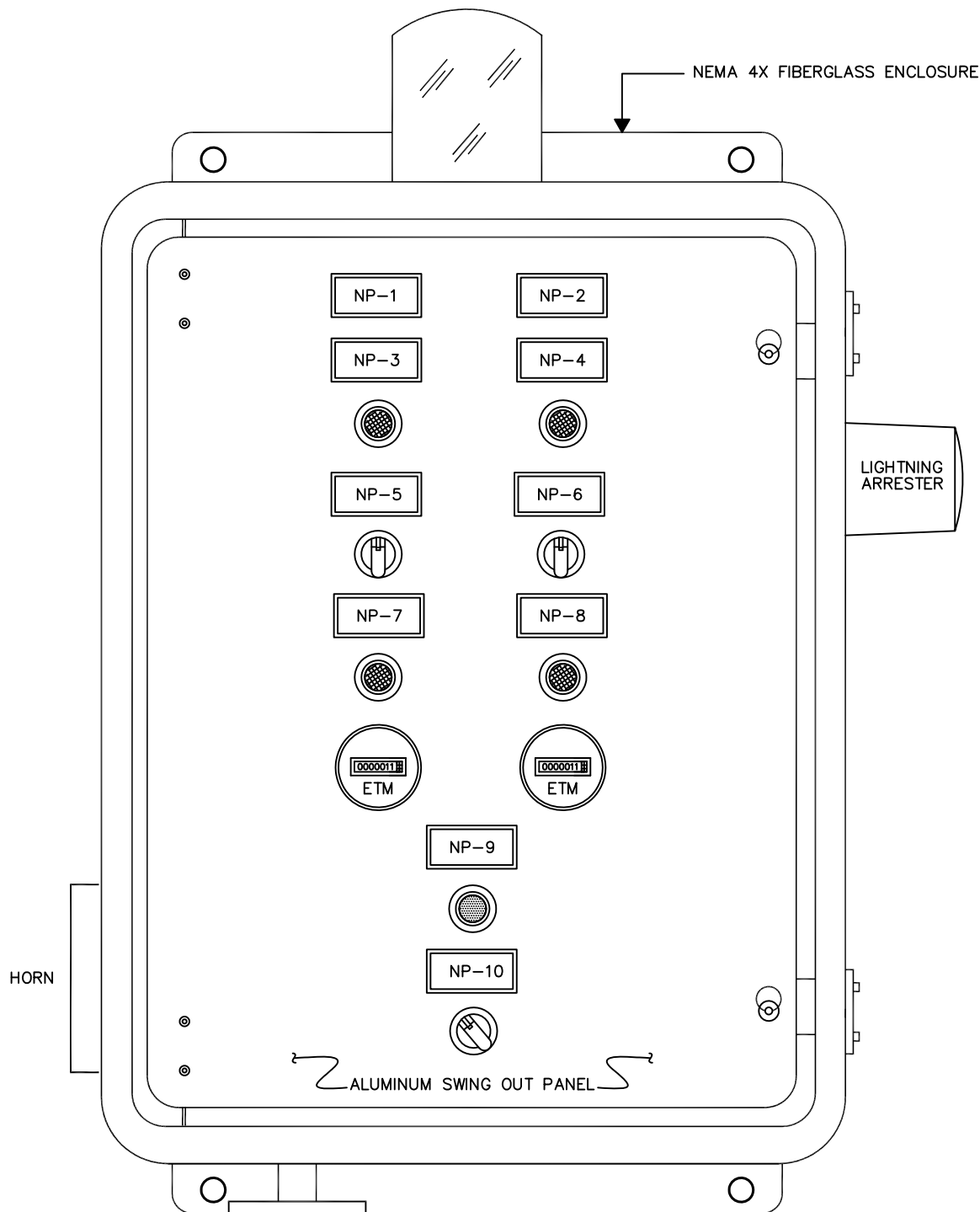
	Drawing Title						
	PANEL DESCRIPTION						
DATE 6/05/03		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	ECN	DATE
	Project Title	<div style="text-align: center;">  Research and Technology, Inc. </div>			PURCHASE ORDER NUMBER		
	DUPLEX PUMP CONTROL PANEL				DRAWING NUMBER CP-1850		
					SHEET NUMBER 1		



Drawing Title							
POWER DIAGRAM							
DATE 6/05/03	REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE
	S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL		APPROVED BY	DATE
Project Title		PURCHASE ORDER NUMBER					
DUPLEX PUMP CONTROL PANEL		DRAWING NUMBER CP-1850					
		SHEET NUMBER					
		2					



Drawing Title							
CONTROL DIAGRAM							
DATE 6/05/03	REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE
	S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL		APPROVED BY	
Project Title						PURCHASE ORDER NUMBER	
DUPLIX PUMP CONTROL PANEL						DRAWING NUMBER CP-1850	
						SHEET NUMBER	
						3	



NOTE:
SEWER GASSES WILL DESTROY COMPONENTS IN PANEL.
PROPER SEALS MUST BE INSTALLED EXTERNAL TO THE
PANEL TO PREVENT ENTRY OF GASSES.

VIEW OF SWING OUT PANEL

NAMEPLATE SCHEDULE

NP-1	PUMP 1
NP-2	PUMP 2
NP-3	RUN
NP-4	RUN
NP-5	HOA
NP-6	HOA
NP-7	MOISTURE
NP-8	MOISTURE
NP-9	PUSH TO SILENCE
NP-10	HORN/ACTIVATE-DEACTIVATE

Drawing Title	ENCLOSURE		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
DATE	6/05/03		S/N	Sales Engineer	Application Engineer	DRAWN		APPROVED
				C.C.	R.C.	BY C. RACHAL		BY DATE
Project Title	DUPLEX PUMP CONTROL PANEL		PURCHASE ORDER NUMBER					
			DRAWING NUMBER			CP-1850		
			SHEET NUMBER			5		

COX

Research and Technology, Inc.

P.O. Box 77808
Baton Rouge, LA
70809

Ph. (225)756-3271
Fax (225)756-1030

BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	STAHLIN	RJ1816HPLDF	ENCLOSURE
1a	1	STAHLIN	BP1816AL	BACKPLATE
2	1	ABB	OT63E3	MAIN DISC. SWITCH
3	2	ABB	A16-30-10-84	MTR STR
4	1	ABB	TA25DU14	O.L. RELAY 1 (10-14A)
5	1	ABB	TA25DU3.1	O.L. RELAY 2 (2.2-3.1A)
6	1	ABB	S1N020TL	CB1
7	1	ABB	S1N015TL	CB2
8	1	SQUARE D	QOU115	CB3
9	2	ACI	JR22FR	RED PILOT LIGHT
10	2	ACI	JR22FG	GREEN PILOT LIGHT
11	2	ACI	JR22P3M20B	HOA SWITCH
12	1	ABB	T4500PSF1	TRANSFORMER
13	1	AC/DC	BL5-R-120	ALARM LIGHT
14	2	ABS	61240170	SEAL MINDER RELAY
15	1	EDWARDS	870P-N5	HORN
16	2	OMRON	G2R2SDC24	CR1,2
17	1	OMRON	G2R2SAC120	CR3
18	1	SSAC	PLMU11	PHASE MONITOR
19	1	SSAC	FS126	FLASHER
20	1	ACI	JR22AN11B	PUSH BUTTON
21	1	MARATHON	1323580	DISTRIBUTION BLOCK
22	2	GRASSLIN	UWZ-52E	ETM
23	1	CUTLER HAMMER	QCGF1015	GFI CIRCUIT BREAKER
24	1	DELTA	LA603	LIGHTNING ARRESTER
25	1	STOCK		GFI RECEPTACLE
26	2	ABB	CAL5-11	AUXILIARY CONTACTS
27	1	ACI	JR22P2M11B	2 POSITION SWITCH

▲ SUPPLIED BY CFEE

	Drawing Title						
	BILL OF MATERIALS						
DATE 6/05/03		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	ECN	DATE BY
		<div style="border: 1px solid black; padding: 5px; margin: 0 auto; width: 100px;"> COX <small>Research and Technology, Inc.</small> </div>		P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)756-1030		PURCHASE ORDER NUMBER DRAWING NUMBER <div style="text-align: right;">CP-1850</div> SHEET NUMBER <div style="text-align: right;">6</div>	
	Project Title	DUPLEX PUMP CONTROL PANEL					