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# COX

Research and Technology, Inc.

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## DUPLEX PUMP CONTROL PANEL

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

VOLTAGE	240V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	2	
HP	2.7	
FLA	9.0	
TYPE OF PUMP	Submersible	(Self-Priming, Submersible)
MANUFACTURER	GR	
CATALOG NUMBER	JSV3 C60-E2.7	
CONTROL VOLTAGE	120V	(120V, Other)
ENCLOSURE	NEMA 4X	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	Fiberglass	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR	Floats	(Floats, Bubbler, Other)
CAPACITORS	No	(Yes, No)
CAPACITOR WIRING FIGURE	N/A	
THERM. & SEAL FAIL WIRING FIGURE		

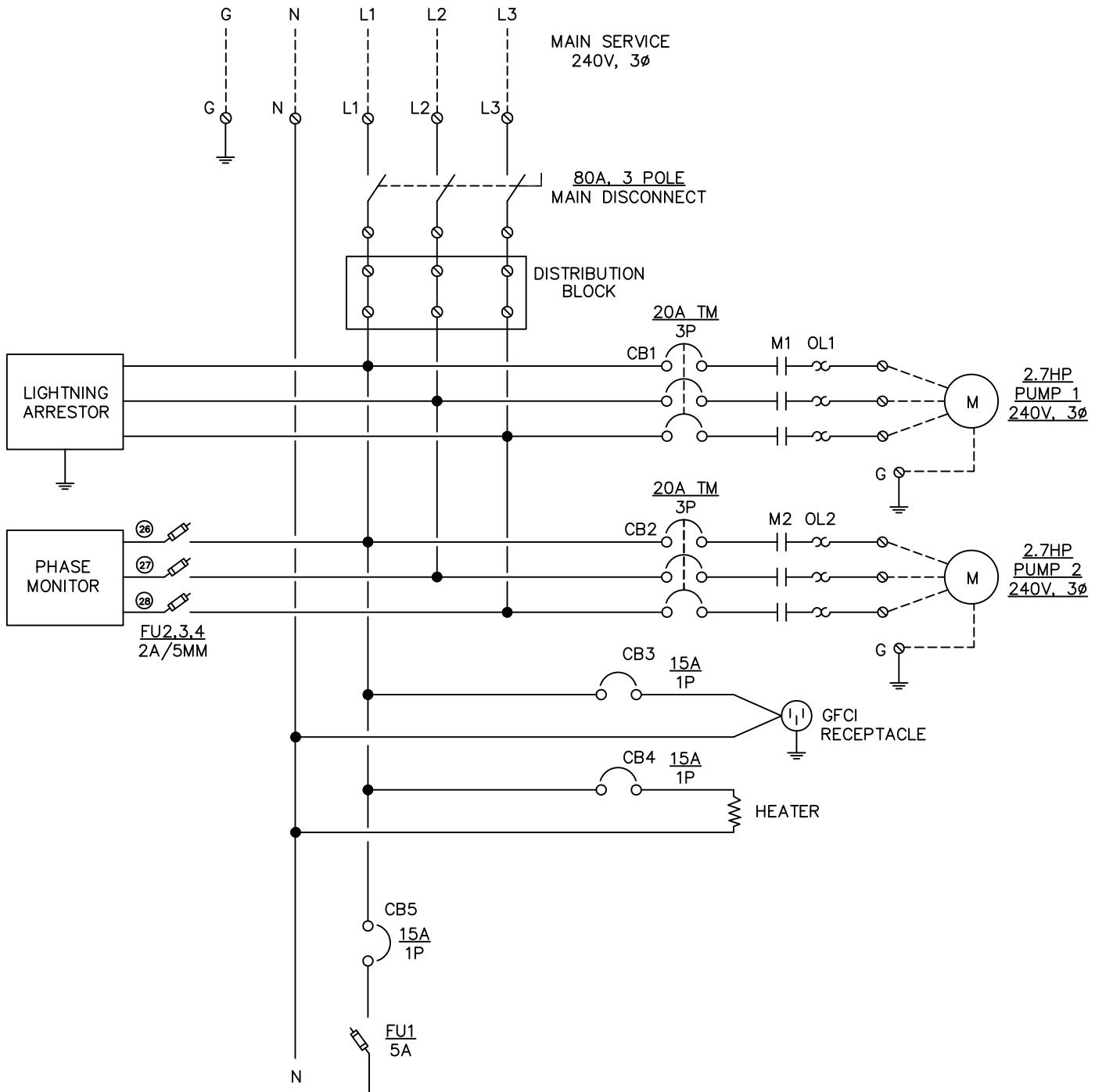
OPTIONS:

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

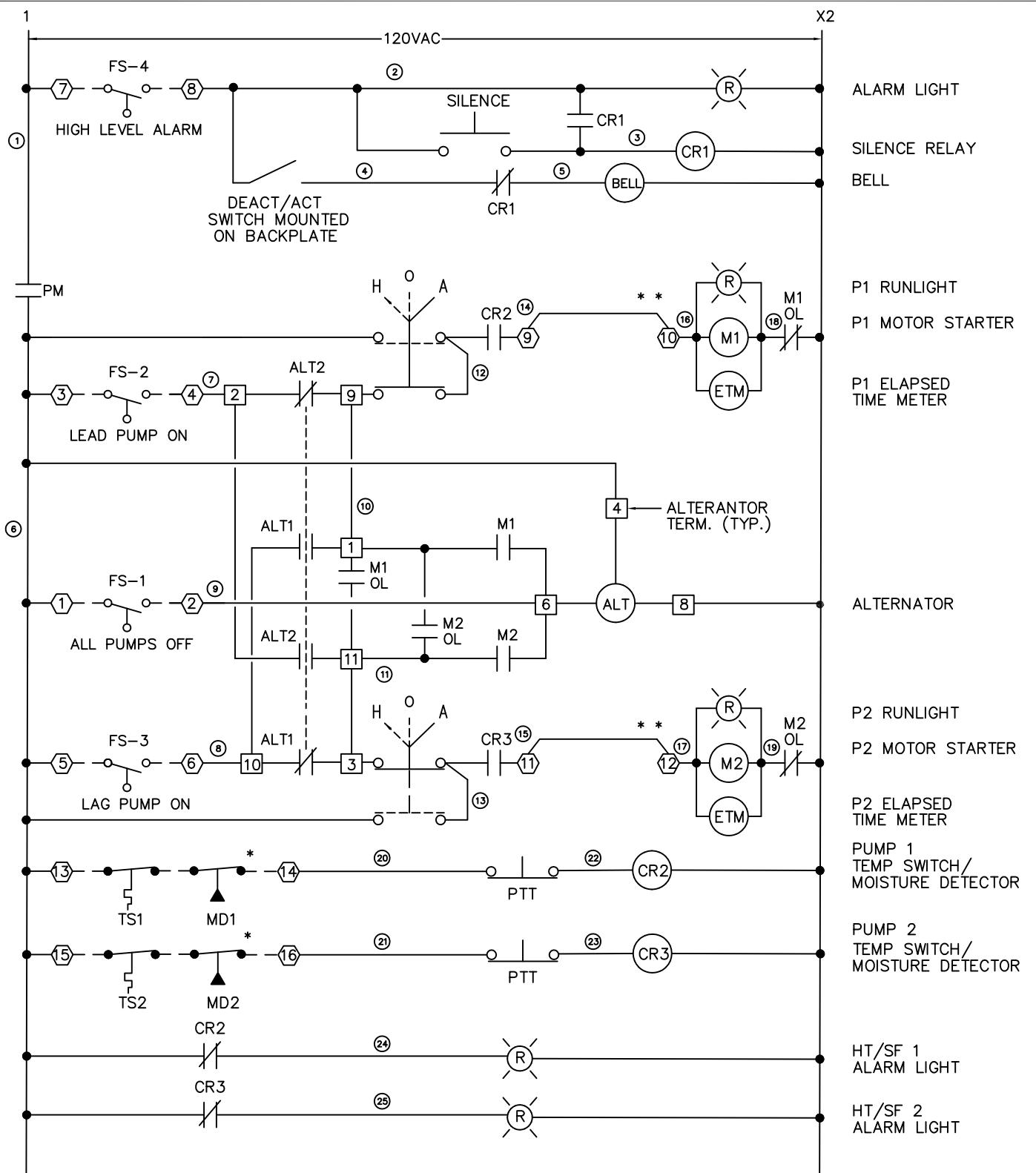
SOLD TO: Delta Process - Bossier City, LA  
TAG : PLAIN DEALINGS

SHIP TO: Delta Process - Ruston, LA

Drawing Title	PANEL DESCRIPTION	REFERENCE DRAWING		NO. C.C.	REVISION-LOCATION		ECN DRAWN BY	DATE APPROVED BY
		S/N	Sales Engineer		Application Engineer	R.C.		
DATE 5/12/03	Project Title  DUPLEX PUMP CONTROL PANEL	COX	Research and Technology, Inc.	P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER			
				Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1563			
					SHEET NUMBER 1			

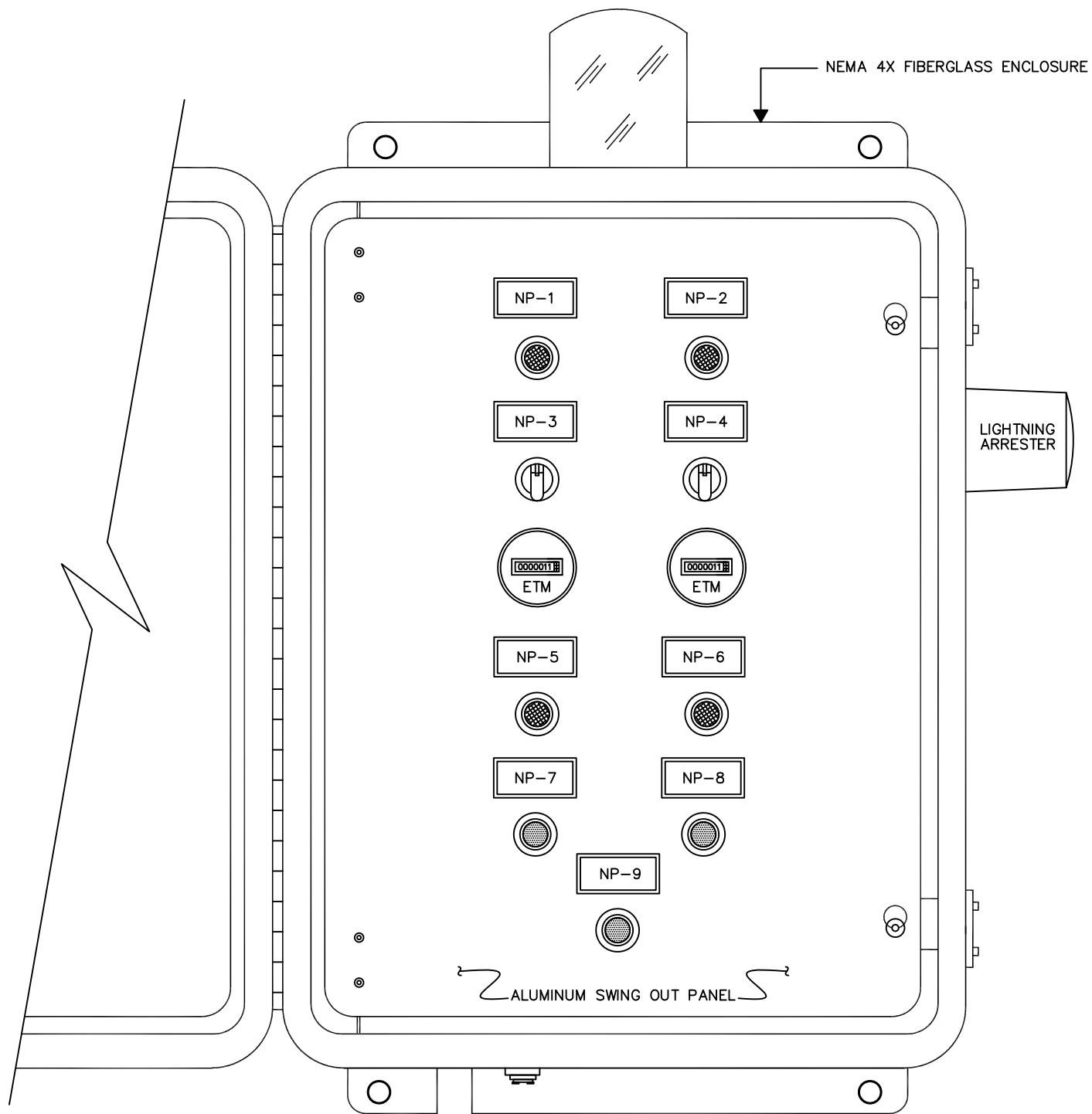


	Drawing Title  <b>POWER DIAGRAM</b>				
		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN APPROVED BY DATE
DATE 5/12/03		Application Engineer R.C.			
	Project Title  <b>CONTROL PANEL</b>	<b>COX</b> Research and Technology, Inc.	P.O. Box 77808 Baton Rouge, LA 70809  Ph. (225)756-3271 Fax (225)756-1030	PURCHASE ORDER NUMBER  DRAWING NUMBER CP-1563  SHEET NUMBER 2	



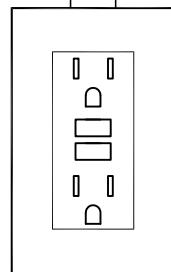
\* AUTOMATIC RESET OF HIGH TEMP AND SEAL FAILURE  
 \* \* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

	Drawing Title								
		REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE	BY
DATE	S/N		Sales Engineer	Application Engineer	DRAWN	APPROVED			
5/12/03	C.C.		R.C.	C.RACHAL	BY	DATE		BY	
	Project Title		<hr/> <b>COX</b> <hr/> Research and Technology, Inc. <hr/>				PURCHASE ORDER NUMBER		
	CONTROL PANEL						DRAWING NUMBER		
							CP-1563		
							SHEET NUMBER		
							3		



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

#### VIEW OF SWING OUT PANEL

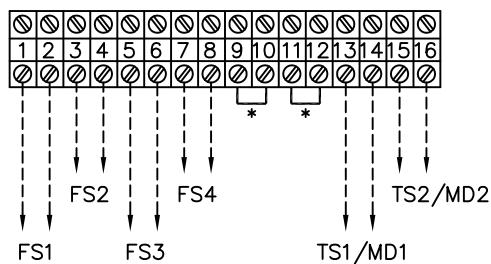
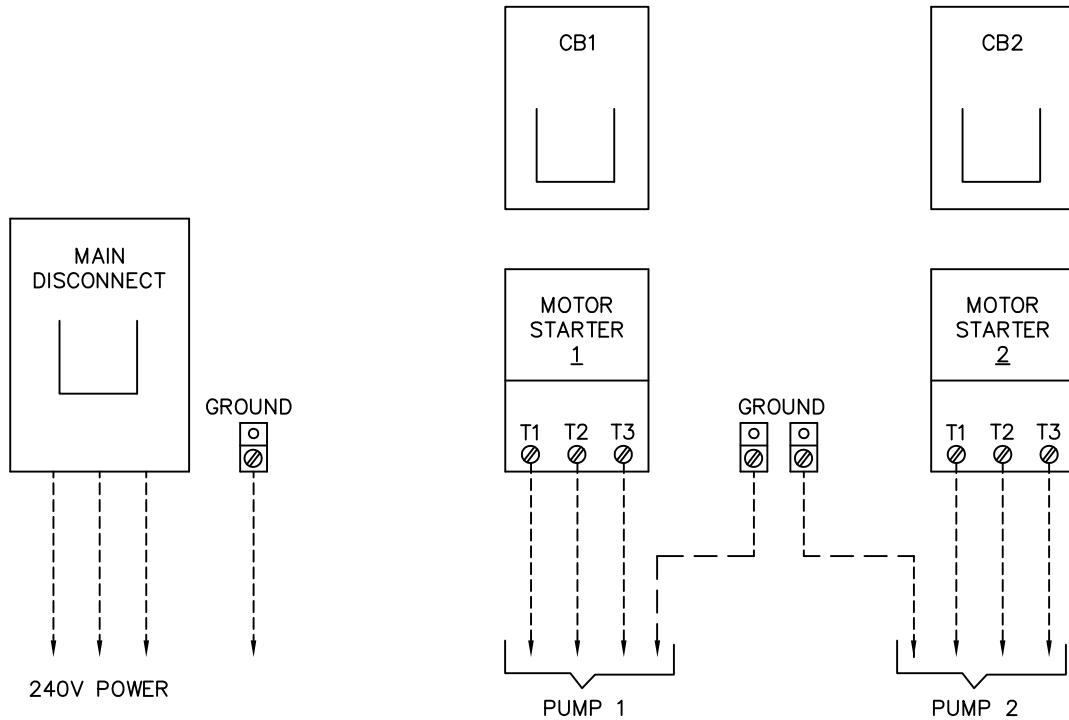


HORN

#### NAMEPLATE SCHEDULE

NP-1	PUMP 1/RUN
NP-2	PUMP 2/RUN
NP-3	HOA
NP-4	HOA
NP-5	HIGH TEMP/SEAL FAIL
NP-6	HIGH TEMP/SEAL FAIL
NP-7	HT/SF PUSH TO TEST
NP-8	HT/SF PUSH TO TEST
NP-9	SILENCE

	Drawing Title					
	ENCLOSURE					
		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE BY
DATE 5/12/03		S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED
			C.C.	R.C.	BY C. RACHAL	BY DATE
	Project Title	<hr/> <b>COX</b> <hr/> Research and Technology, Inc. <hr/>			PURCHASE ORDER NUMBER	
	CONTROL PANEL				DRAWING NUMBER	
					CP-1563	
					SHEET NUMBER	
					4	



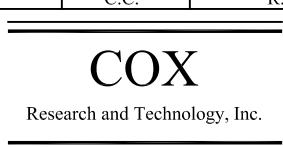
FS1 – FLOAT SWITCH 1  
 ALL PUMPS OFF  
 FS2 – FLOAT SWITCH 2  
 LEAD PUMP ON  
 FS3 – FLOAT SWITCH 3  
 LAG PUMP ON  
 FS4 – FLOAT SWITCH 4  
 HIGH LEVEL ALARM  
 TS1/MD1 – TEMP. SWITCH/MOISTURE DETECTOR 1  
 TS2/MD2 – TEMP. SWITCH/MOISTURE DETECTOR 2

\* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

	Drawing Title					
	EXTERNAL CONNECTIONS					
DATE 5/12/03	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY C. RACHAL	DATE APPROVED BY DATE	BY
	Project Title CONTROL PANEL	<b>COX</b> Research and Technology, Inc.			PURCHASE ORDER NUMBER  DRAWING NUMBER CP-1563 SHEET NUMBER 5	

## BILL OF MATERIAL

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	MOTOR STARTER
4	2	ABB	TA25DU11	O.L. RELAY (7.5-11A)
5	2	SQUARE D	QOU320	CB1, CB2
6	1	TIMEMARK	261DT120	ALTERNATING RELAY
7	2	ACI	JR22P3M20B	HOA SWITCH
8	4	ACI	JR22FR	RED LIGHT
9	1	AC/DC	BL5-R-120-TF	ALARM LIGHT
10	1	C-H	CHSA03	LIGHTNING ARRESTER
11	2	GRASSLIN	UWZ52E	ETM
12	1	INGRAM	SP 120-1	ALARM HORN
13	3	ACI	JR22AN11B	PB
14	1	SSAC	PLM U11	PHASE MONITOR
15	1	TEEL	1D008	HEATER
16	1	STOCK		GFI RECEPTACLE
17	3	SQUARE D	QOU115	CB 3,4,5
18	3	OMRON	G2R2SAC120	CR 1,2,3
19				
20				
21				
22				
23				
24				
25				

	Drawing Title								
	BILL OF MATERIALS								
			REFERENCE DRAWING		NO.	REVISION-LOCATION	ECN	DATE	BY
DATE 5/12/03			S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED		
				C.C.	R.C.	BY C. RACHAL	BY	DATE	
	Project Title		 <b>COX</b> Research and Technology, Inc.			PURCHASE ORDER NUMBER  DRAWING NUMBER CP-1563  SHEET NUMBER 6			
	CONTROL PANEL		P.O. Box 77808 Baton Rouge, LA 70809						