
COX

Research and Technology, Inc.

DUPLEX PUMP
CONTROL PANEL
HARPOOL

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

CP-2128


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>3</u>	
FLA		
TYPE OF PUMP	<u>Submersible</u>	(Self-Priming, Submersible)
MANUFACTURER	<u>ABS</u>	
CATALOG NUMBER		
CONTROL VOLTAGE	<u>120V</u>	(120V, Other)
ENCLOSURE	<u>NEMA 4X</u>	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	<u>Stainless Steel</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		

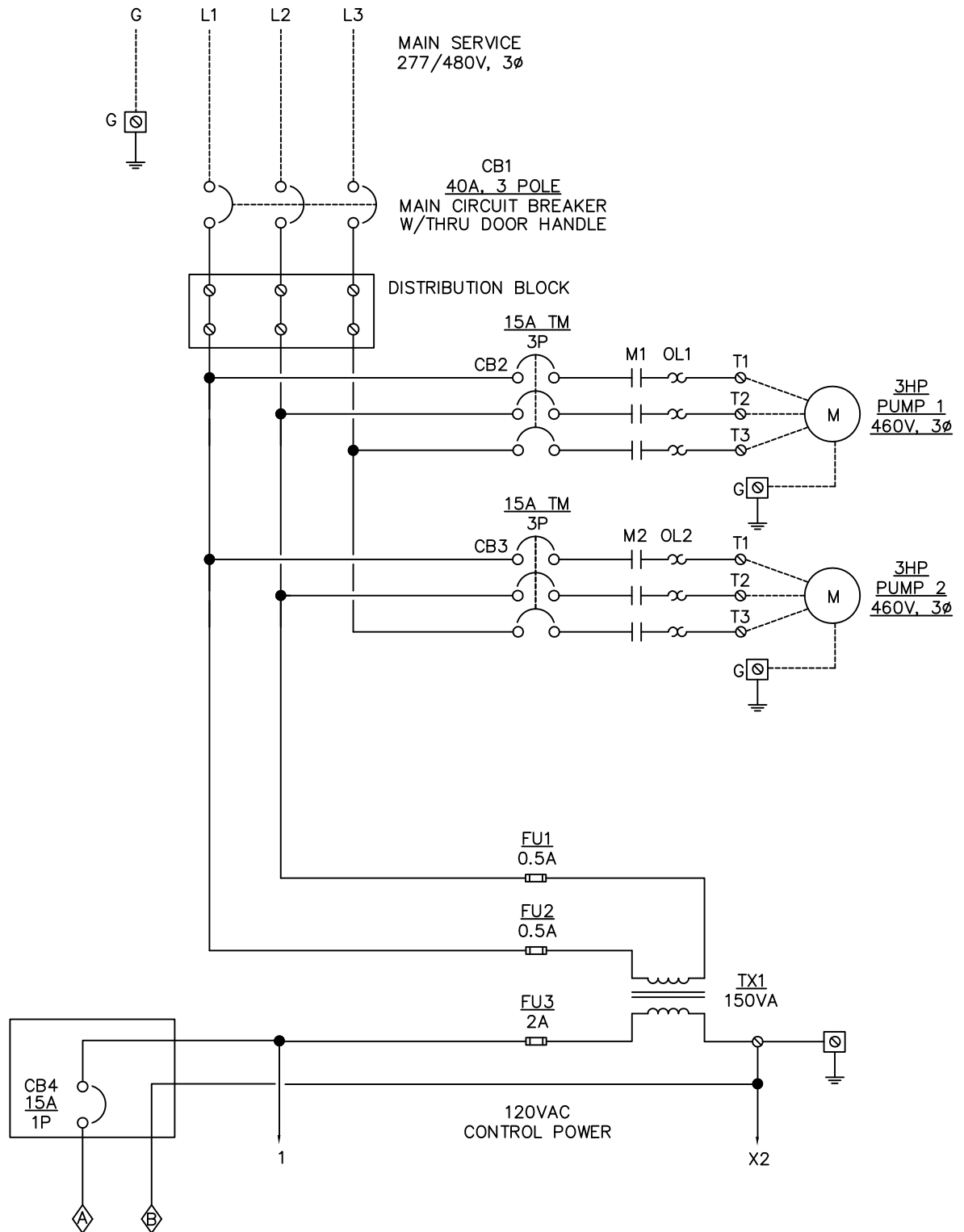
OPTIONS:

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

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

SHIP TO: CF ENGINEERED EQUIPMENT - DALLAS, TX

	Drawing Title						
	PANEL DESCRIPTION						
DATE 8/11/05		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>			P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER
	DUPLEX PUMP CONTROL PANEL				Ph. (225)756-3271 Fax (225)755-1030		DRAWING NUMBER CP-2128
							SHEET NUMBER 1



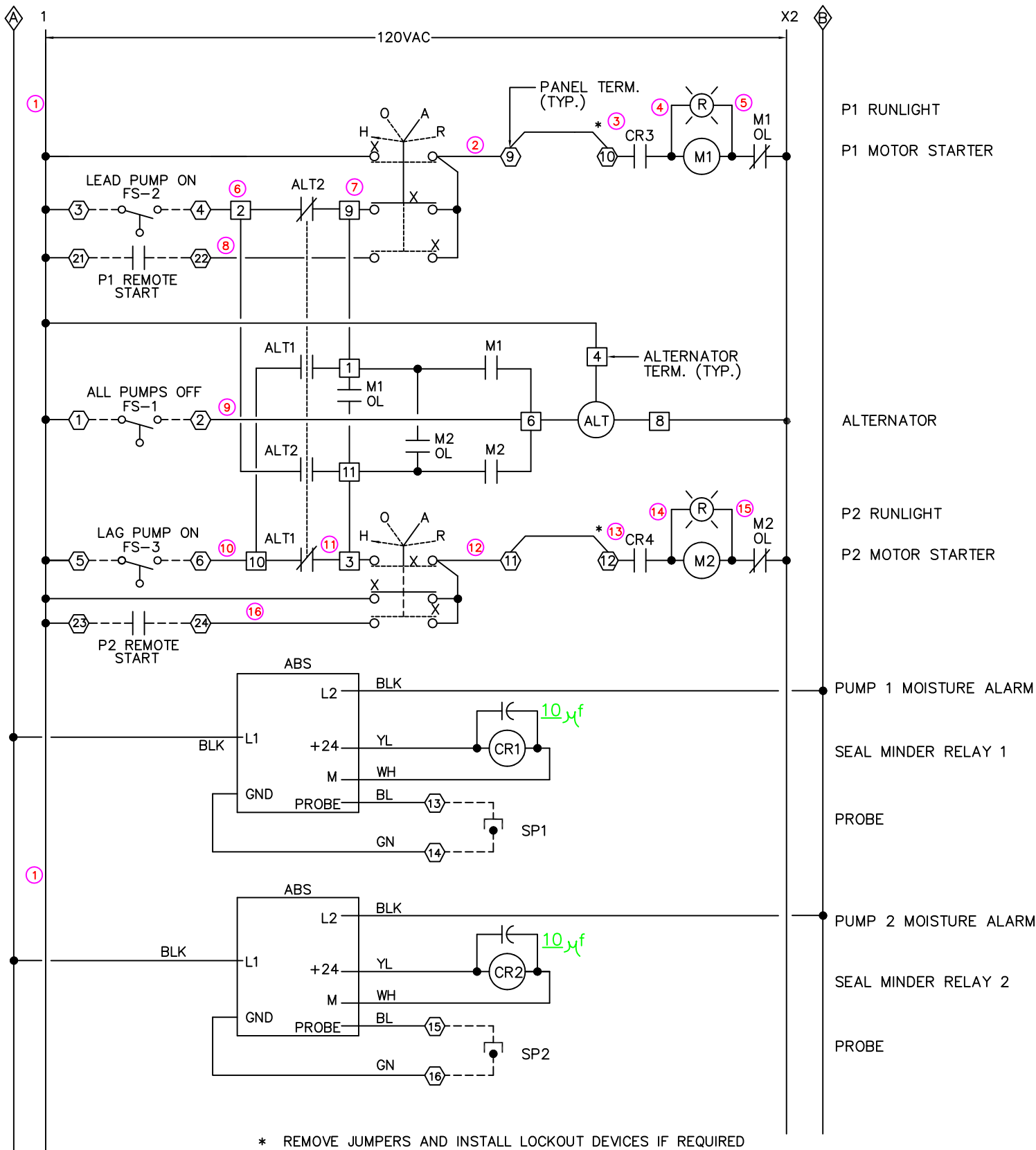
	Drawing Title								
	POWER DIAGRAM								
DATE		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY		
8/11/05		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL	APPROVED			
	Project Title							PURCHASE ORDER NUMBER	
	DUPLEX PUMP CONTROL PANEL							DRAWING NUMBER CP-2128	
								SHEET NUMBER	2

COX

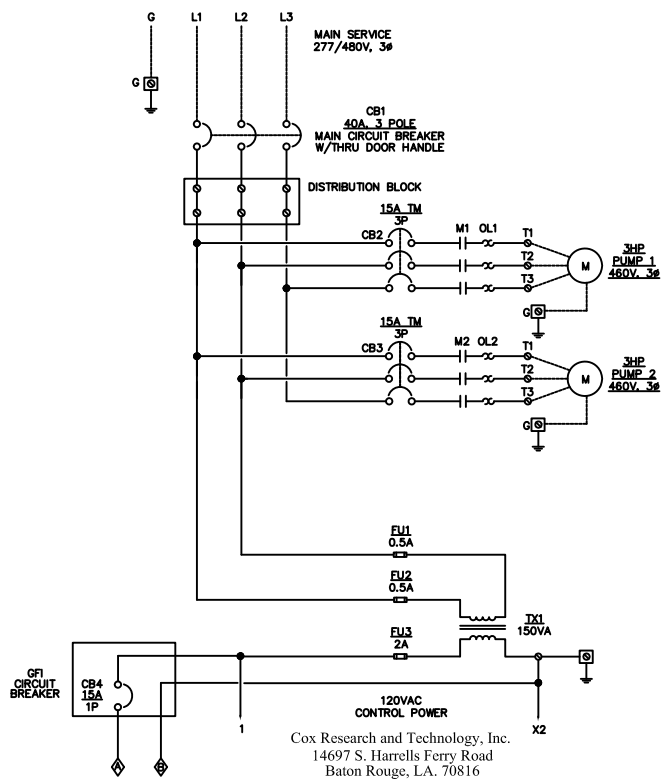
Research and Technology, Inc.

P.O. Box 77808
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70809

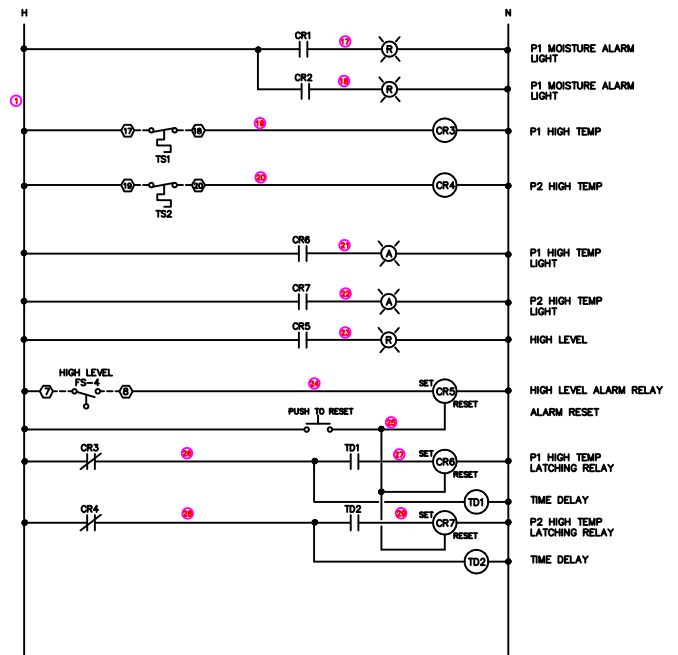
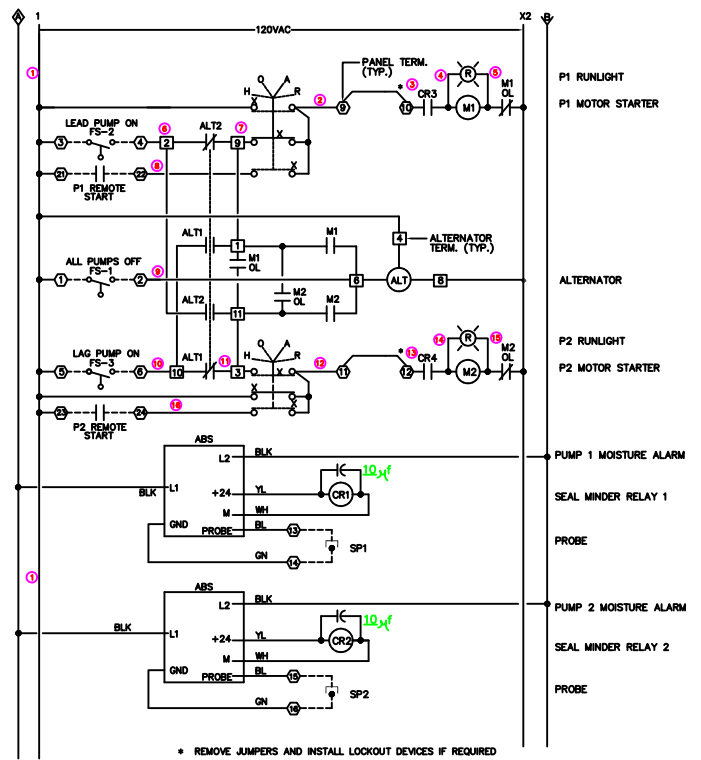
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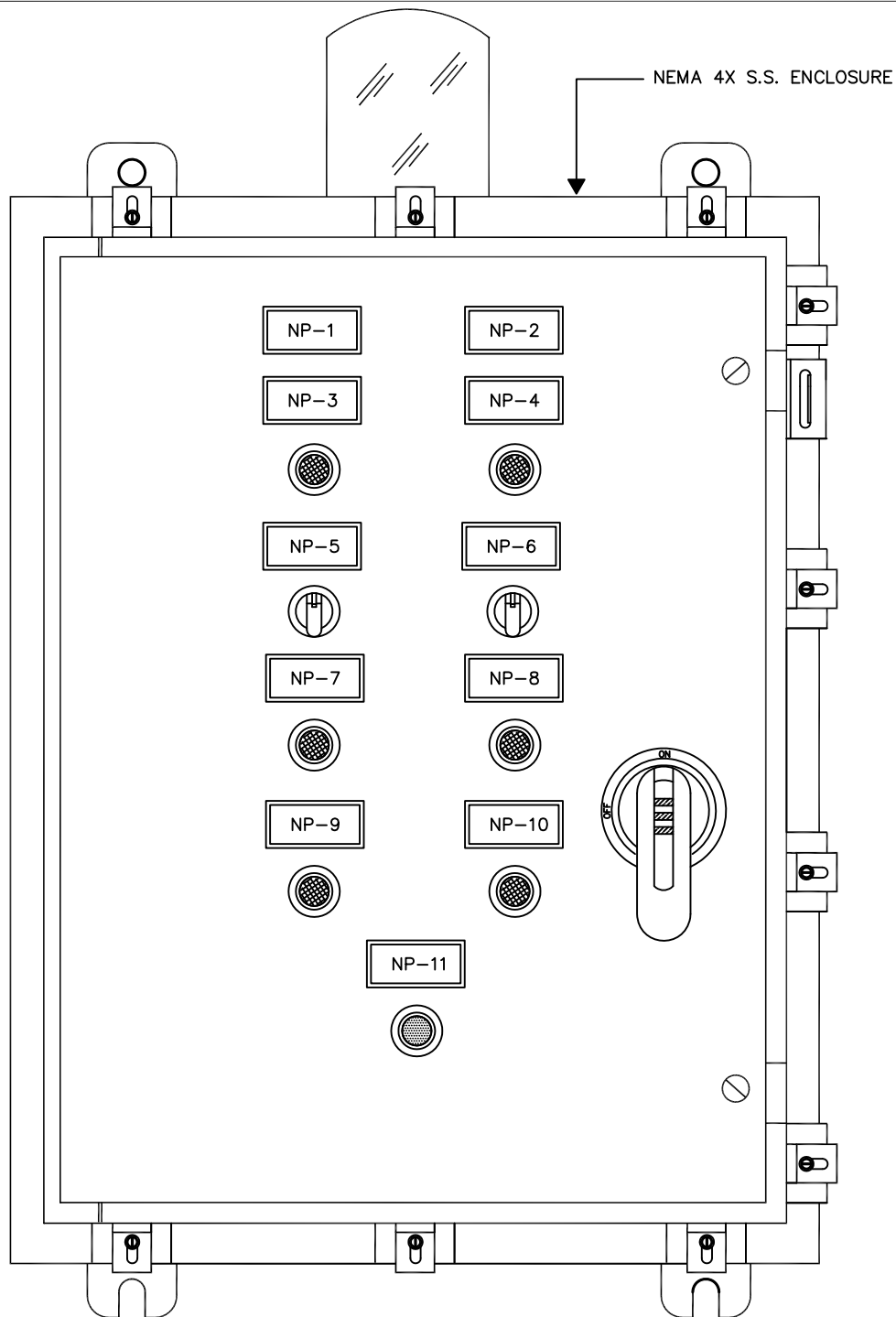


Drawing Title							
CONTROL DIAGRAM							
DATE 8/11/05	REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE
	S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL		APPROVED BY	
Project Title						PURCHASE ORDER NUMBER	
DUPLIX PUMP CONTROL PANEL						DRAWING NUMBER CP-2128	
						SHEET NUMBER	
						3	



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VIEW OF SWING OUT PANEL

NAMEPLATE SCHEDULE

NP-1	PUMP 1
NP-2	PUMP 2
NP-3	RUN
NP-4	RUN
NP-5	H-O-A-R
NP-6	H-O-A-R
NP-7	SEAL FAIL
NP-8	SEAL FAIL
NP-9	HIGH TEMP
NP-10	HIGH TEMP
NP-11	PUSH TO RESET

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

DATE 8/11/05	Drawing Title								
	ENCLOSURE								
		REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE	BY
		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL		APPROVED BY		DATE
	Project Title				P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER		
	DUPLEX PUMP CONTROL PANEL				Ph. (225)756-3271 Fax (225)755-1030		DRAWING NUMBER CP-2128		
							SHEET NUMBER 5		

BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	EBE	S242010N4X	ENCLOSURE STAINLESS 4X
1a	1	EBE	A2420P	BACKPLATE
1b	1	EBE	A2420SP	DEAD FRONT
2	1	ABB	S1N040TL	CB1
3	2	ABB	A16N0-30-10-84	MTR STR NEMA SIZE 0
4	2	ABB	TA25DU5.0	O.L. RELAY (3.5-5.0A)
5	2	ABB	S1N015TL	CB2, CB3
6	1	TIMEMARK	261DT120	ALTERNATING RELAY
7	4	ACI	JR22FR	RED PILOT LIGHT
8	2	A-B	800H-NR2KF4AAXX	H-O-A-R SWITCH
9	1	ABB	T4150PSF-1	TRANSFORMER
10	1	AC/DC	BL5-R-120	ALARM LIGHT
11	2	ACI	JR22FY	AMBER PILOT LIGHT
12	2	ABS	61240170	SEAL MINDER RELAY
13	3	MAGNECRAFT	W388AMLCPX-9	CR5,6,7 (LATCHING RELAY)
14	2	IDEC	RU2SD24	CR1,2
15	2	IDEC	RU2SA110	CR3,4
16	1	ABB	OHB65L10	HANDLE
17	1	ABB	OXF10X225	SHAFT
18	1	ABB	K2VDM	MECHANISM
19	2	OMRON	H3YN2AC120	TIME DELAY 1,2
20	1	ACI	JR22AN11B	PUSH BUTTON
21	1	MARATHON	1323580	DISTRIBUTION BLOCK
22				
23				
24				

▲ SUPPLIED BY CFEE

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	Project Title	<div style="border: 1px solid black; padding: 5px; margin: 0 auto; width: 150px;"> COX <small>Research and Technology, Inc.</small> </div>			<small>P.O. Box 77808 Baton Rouge, LA 70809</small> <small>Ph. (225)756-3271 Fax (225)755-1030</small>		<small>PURCHASE ORDER NUMBER</small> <small>DRAWING NUMBER</small> CP-2128 <small>SHEET NUMBER</small>
	DUPLEX PUMP CONTROL PANEL						6