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# COX

Research and Technology, Inc.

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## DUPLEX PUMP CONTROL PANEL BOSSIER INDUSTRIAL PARK

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

CP-1923

VOLTAGE	120/208V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	2	
HP	2.8	
FLA	9.2A	
TYPE OF PUMP	Submersible	(Self-Priming, Submersible)
MANUFACTURER	BARNES	
CATALOG NUMBER	4SE2894L	
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		

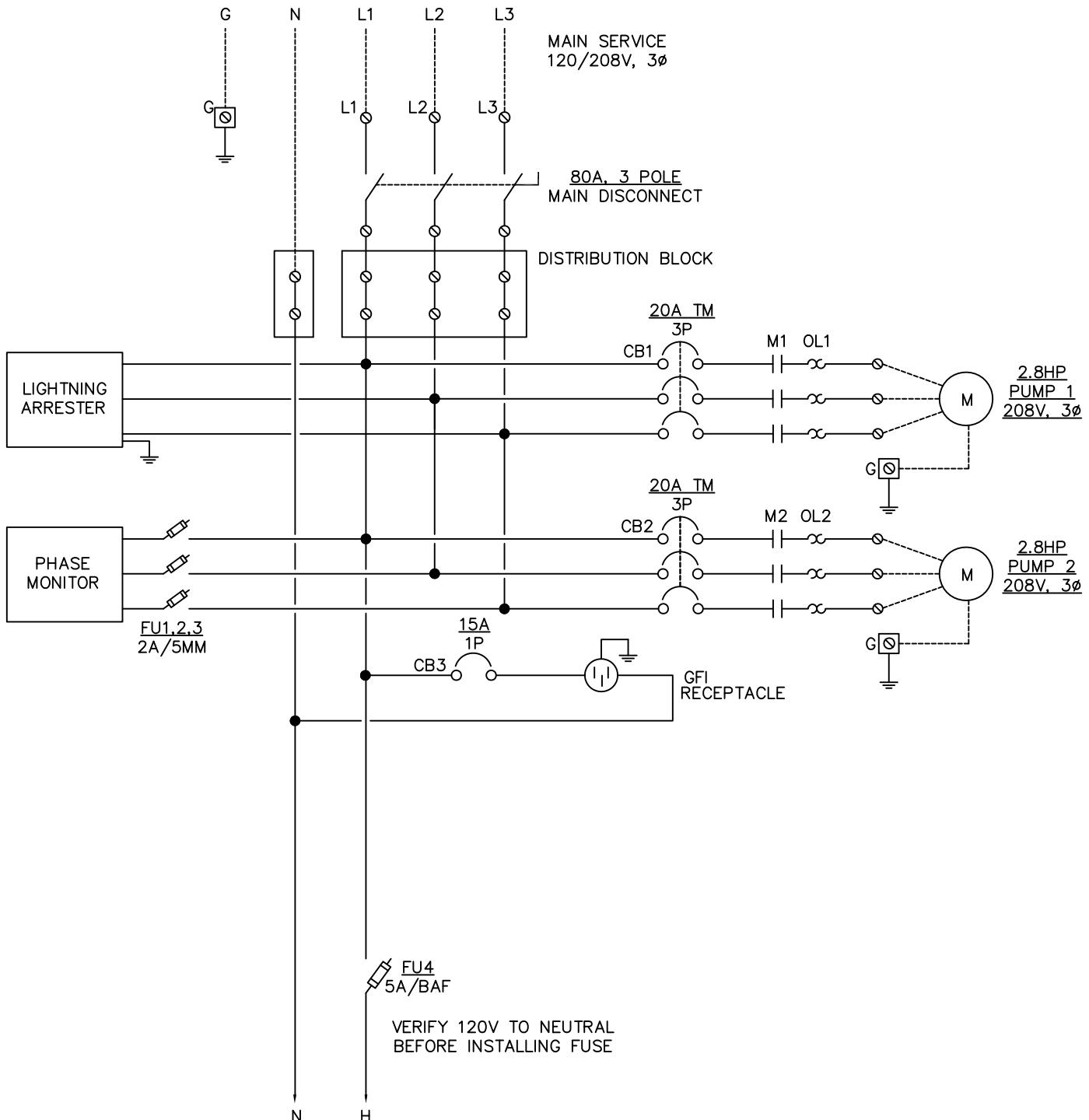
OPTIONS:

SEAL FAIL LIGHTS	X	(Submersible Only)
SEAL FAIL RELAYS	X	(Submersible Only)
SEAL FAIL PUMP SHUTDOWN		(Submersible Only)
HT PUMP SHUTDOWN	X	(Self-Primer, Submersible)
ALARM HORN		
ALARM LIGHT	X	
LIGHT PANEL MTD	X STROBE ON SIDE	
LIGHT REMOTE MTD		
LIGHT FLASHER	X	
LIGHTNING ARRESTOR	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		

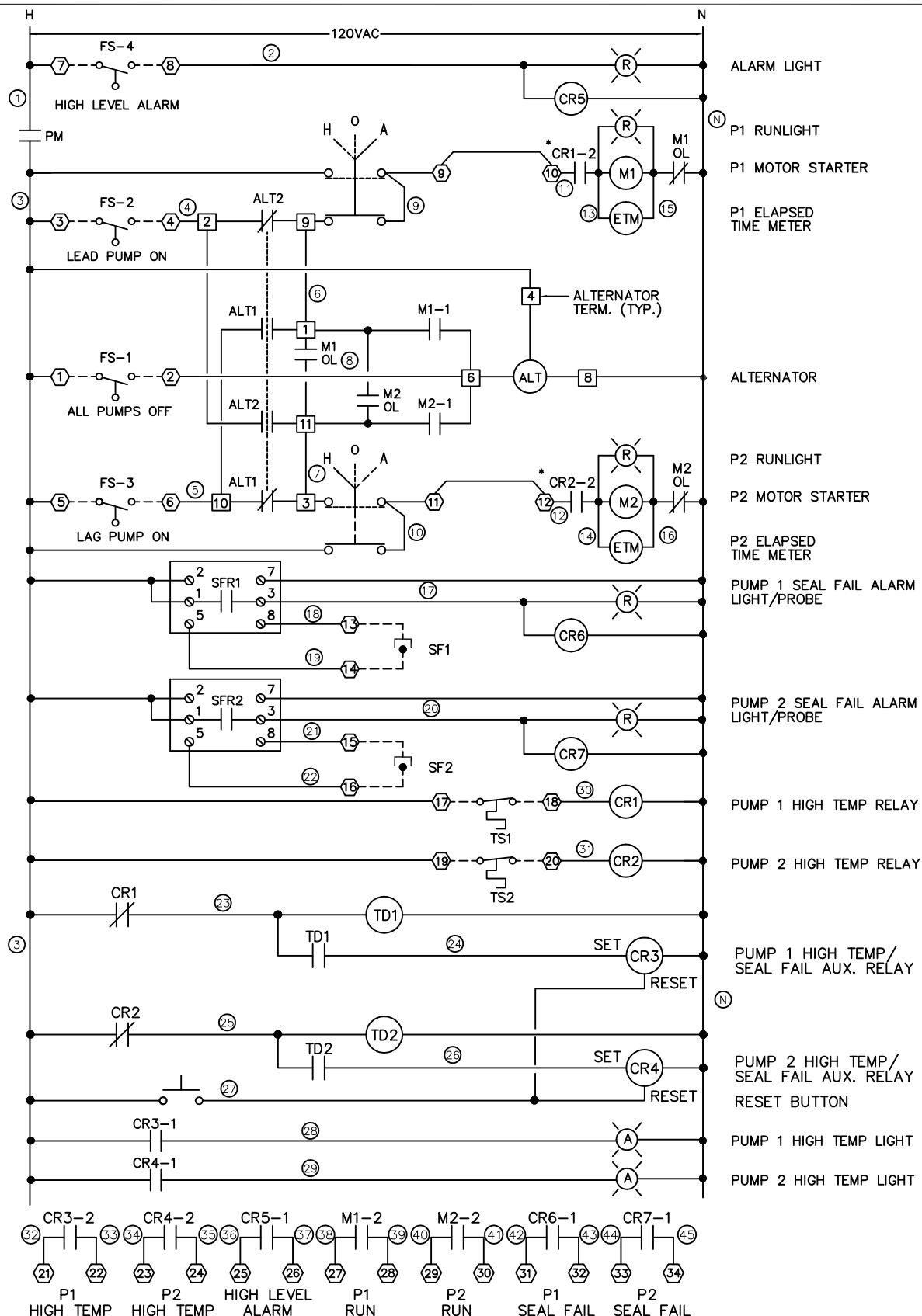
SOLD TO: Delta Process - Bossier City, LA  
TAG : BOSSIER INDUSTRIAL PARK

SHIP TO: Delta Process - Ruston, LA

Drawing Title	PANEL DESCRIPTION			REFERENCE DRAWING S/N	NO. C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN	DATE	BY
							DATE	APPROVED	BY
DATE 10/11/04	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-1923					
				SHEET NUMBER 1					

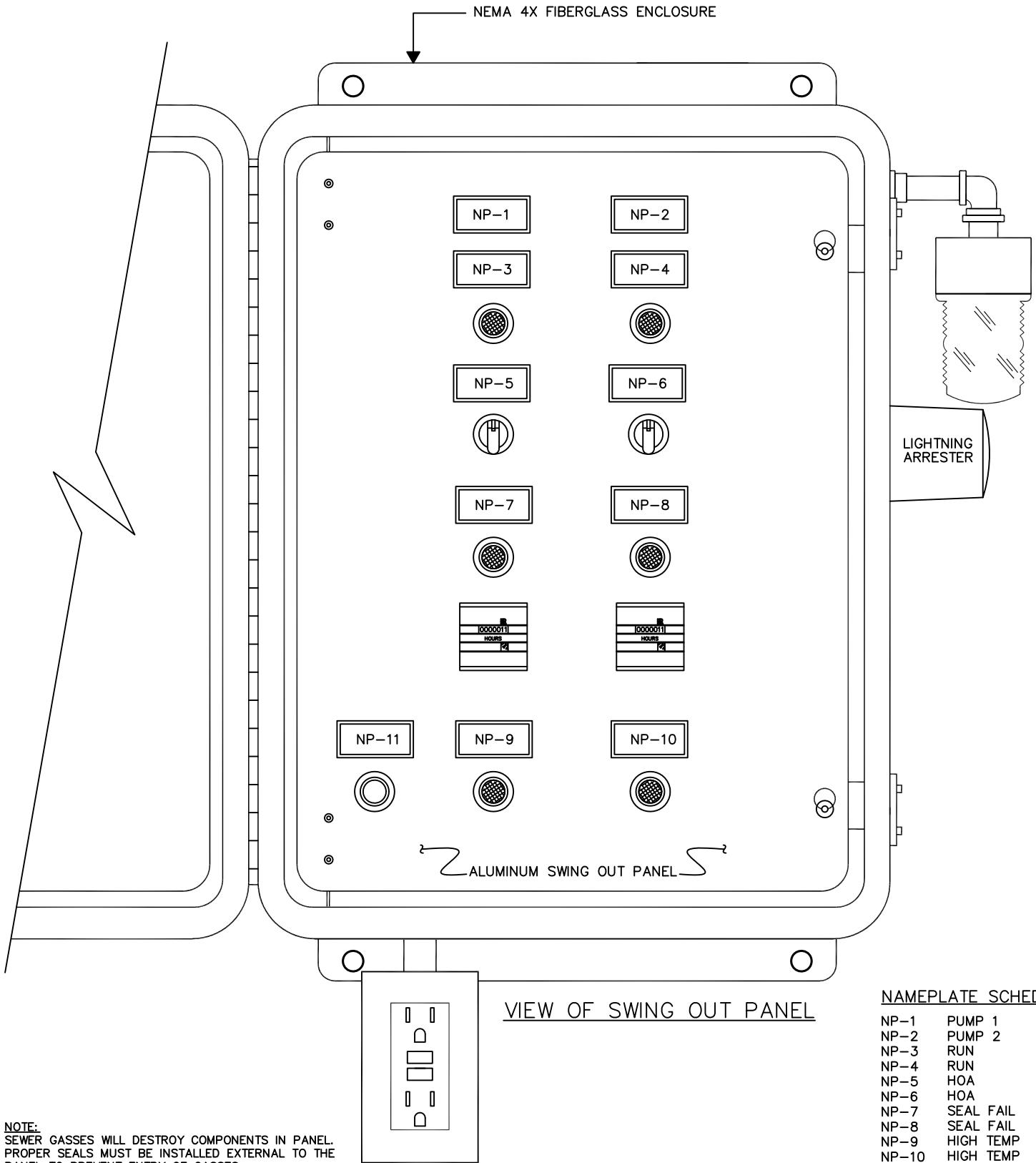


	Drawing Title  <b>POWER DIAGRAM</b>						
		REFERENCE DRAWING	NO.	REVISION-LOCATION		ECN	DATE BY
DATE 10/11/04	S/N	Sales Engineer	Application Engineer	DRAWN		APPROVED	
	C.C.		R.C.	BY C. RACHAL	BY	DATE	
Project Title  <b>DUPLEX PUMP CONTROL PANEL</b>	<b>COX</b> Research and Technology, Inc.			PURCHASE ORDER NUMBER			
				DRAWING NUMBER		CP-1923	
				SHEET NUMBER		2	



\* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

	Drawing Title  CONTROL DIAGRAM				
		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY C. RACHAL
DATE 10/11/04				DRAWN BY	DATE APPROVED DATE
	Project Title  DUPLEX PUMP CONTROL PANEL	COX 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-1923 SHEET NUMBER 3



	Drawing Title					
	ENCLOSURE					
DATE 10/11/04	REFERENCE DRAWING S/N	NO. C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN	DATE APPROVED BY DATE	BY
Project Title DUPLEX PUMP CONTROL PANEL	COX 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-1923 SHEET NUMBER 4			

# BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	ALLIED	AM24200RL/DF	ENCLOSURE
1a	1	ALLIED	MP2420P	BACKPLATE
2	1	ABB	OT63E3	MAIN DISC. SWITCH
3	2	CUTLER HAMMER	CE15CNS3AB	MOTOR STARTER
4	2	CUTLER HAMMER	C316FNA3P	O.L. RELAY (7.5-11A)
5	2	SQUARE D	QOU320	CB1, CB2
6	1	TIMEMARK	261DT120	ALTERNATING RELAY
7	4	ACI	JR22FR	RED PILOT LIGHT
8	2	ACI	JR22P3M20B	HOA SWITCH
9	1	TOMAR	490S-120R	STROBE
10	1	MARATHON	1323580	DISTRIBUTION BLOCK
11	1	SSAC	PLMU-11	PHASE MONITOR
12	2	REDINGTON	711-0190	ELAPSED TIME METER
13	1	SQUARE D	QOU115	CB3
14	1	STOCK		GFI
15	2	SSAC	LLC54AA	SEAL FAIL RELAY
16	1	DELTA	LA603	LIGHTNING ARRESTER
17	2	ACI	JR22FY	AMBER PILOT LIGHT
18	5	IDECA	RY2SUAC120V	CR1,2,5,6,7
19	2	CUTLER HAMMER	C320KGS3	AUXILIARY CONTACTS
20	2	DAYTON	2A561	TIME DELAY
21	2	MAGNECRAFT	W388AMLCPX-9	LATCHING RELAY
22	1	ACI	JR22AN11B	PUSH BUTTON
23	1	MARATHON	1321580	NEUTRAL BLOCK
24				
25				

	Drawing Title								
	BILL OF MATERIALS								
			REFERENCE DRAWING		NO.	REVISION-LOCATION	ECN	DATE	BY
DATE 10/11/04			S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED		
				C.C.	R.C.	BY C. RACHAL	BY	DATE	
	Project Title		 <b>COX</b> <small>Research and Technology, Inc.</small>			P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)756-1030			
	DUPLEX PUMP CONTROL PANEL								