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# COX

Research and Technology, Inc.

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DUPLEX PUMP  
CONTROL PANEL  
ROBERT E. LEE

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

VOLTAGE	120/240V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	2	
HP	18	
FLA	48.2	
TYPE OF PUMP	Submersible	(Self-Priming, Submersible)
MANUFACTURER	GR	
CATALOG NUMBER		
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		

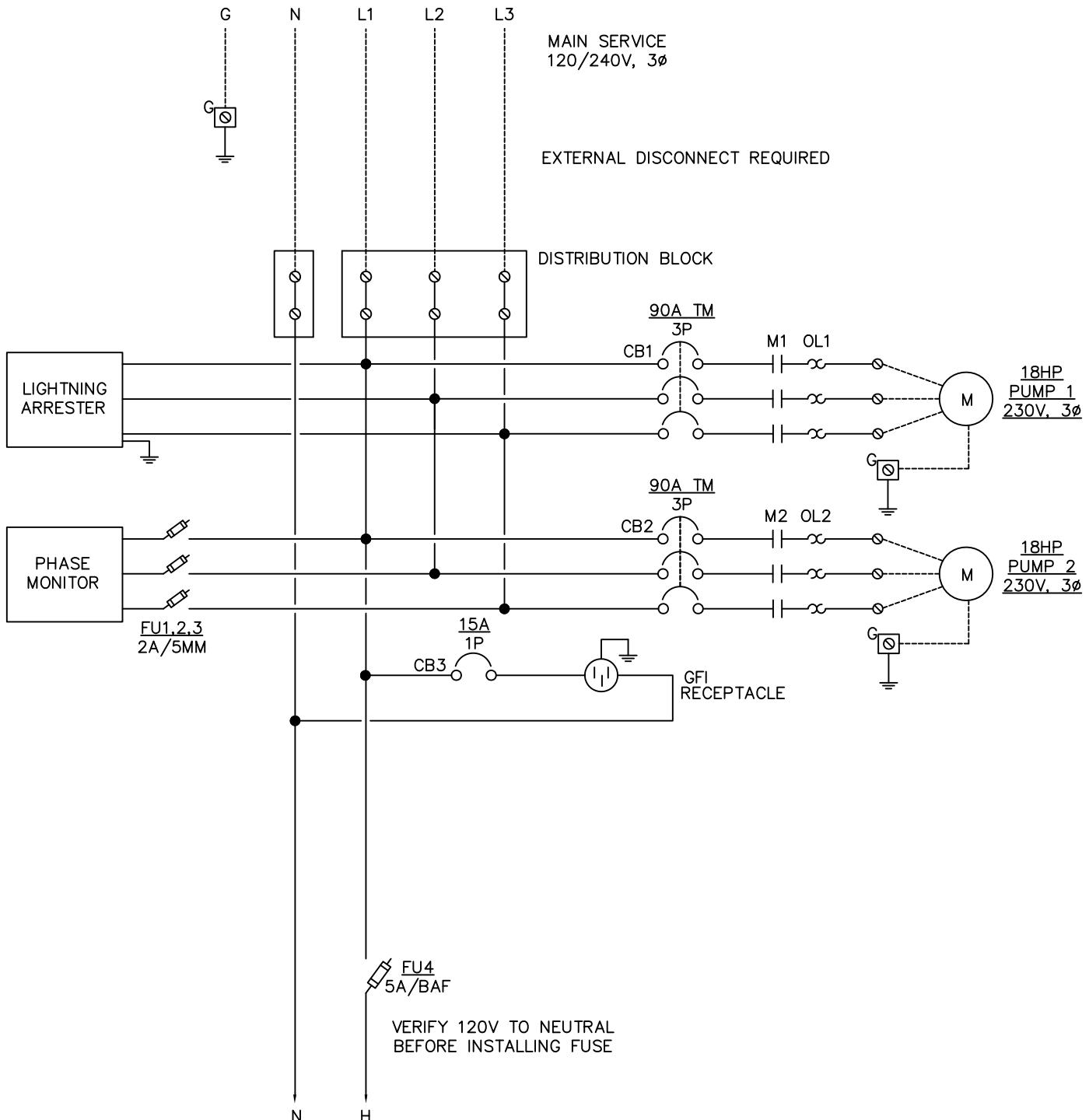
OPTIONS:

SEAL FAIL LIGHTS	X	(Submersible Only)
SEAL FAIL RELAYS		(Submersible Only)
SEAL FAIL PUMP SHUTDOWN	X	(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		

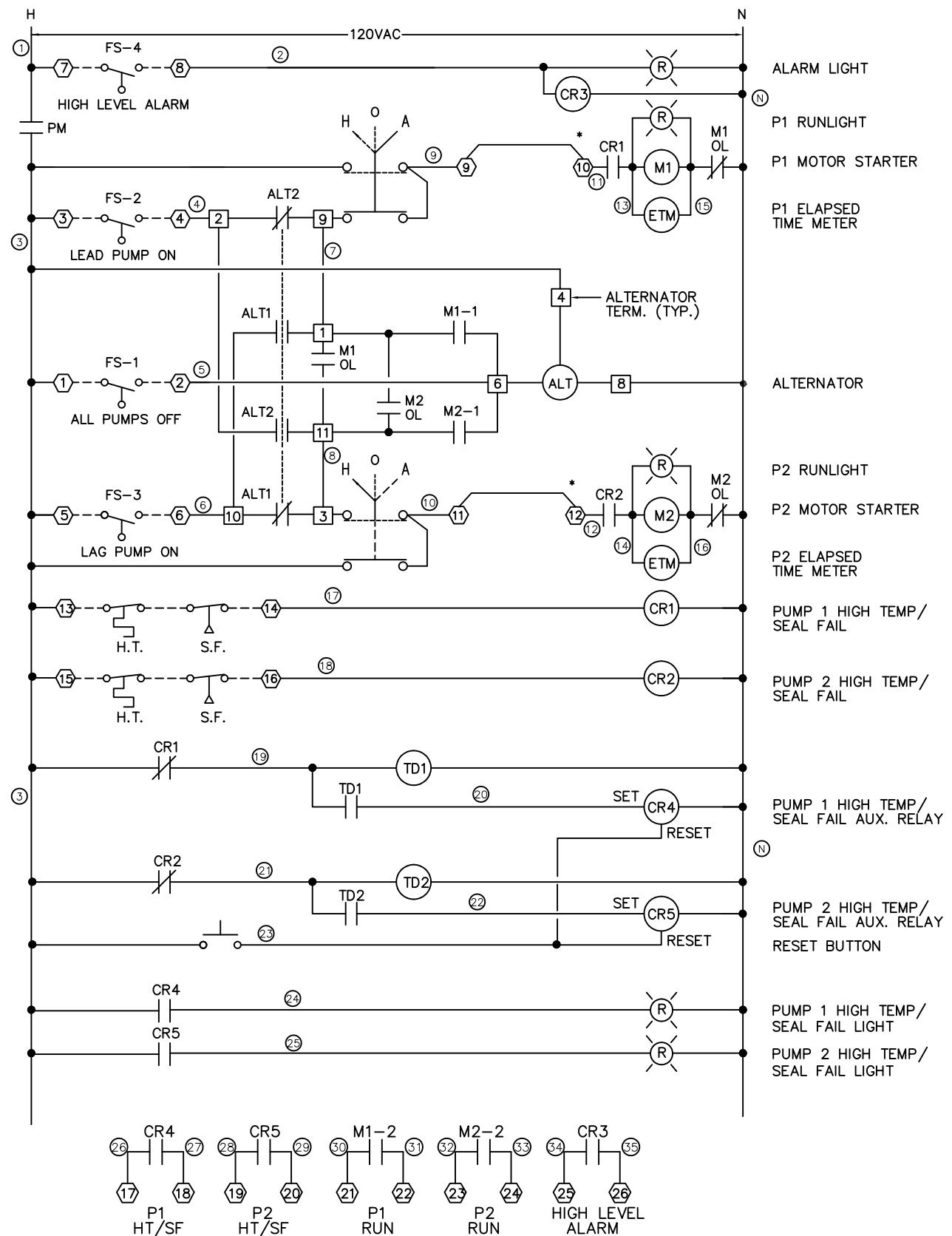
SOLD TO: Delta Process - Bossier City, LA  
TAG : ROBERT E. LEE

SHIP TO: Delta Process - Ruston, LA

Drawing Title	PANEL DESCRIPTION			REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	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)755-1030	DRAWING NUMBER CP-1921					
				SHEET NUMBER 1					

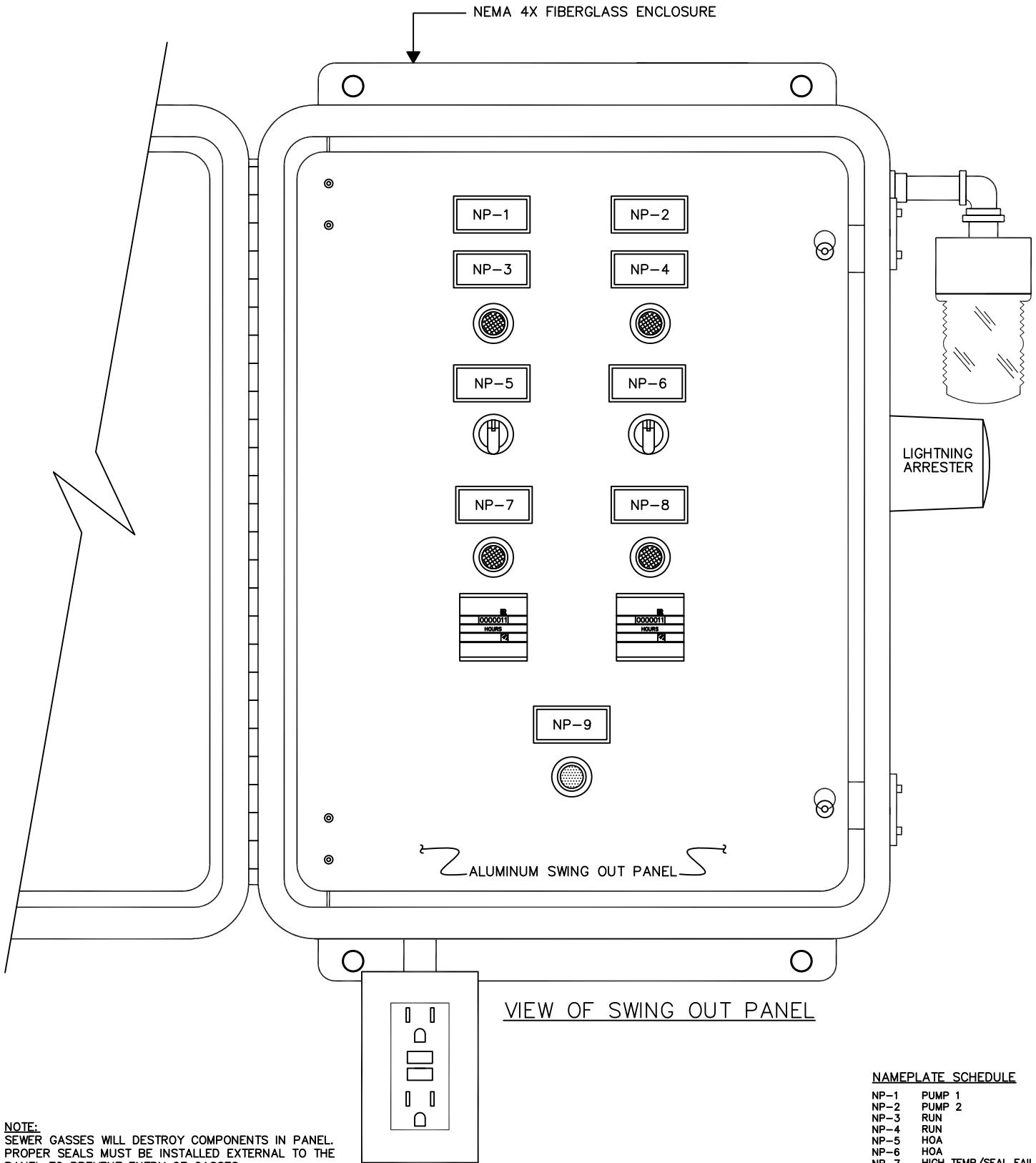


	Drawing Title						
	POWER DIAGRAM						
DATE 10/11/04	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN	DATE	BY	
	Application Engineer R.C.						
	Project Title		<b>COX</b> Research and Technology, Inc.	P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER		
	DUPLEX PUMP CONTROL PANEL			Ph. (225)756-3271 Fax (225)755-1030	DRAWING NUMBER CP-1921		
					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 DRAWN Application Engineer R.C.	ECN APPROVED BY DATE
DATE 10/11/04				BY C. RACHAL	BY 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-1921 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		
Project Title DUPLEX PUMP CONTROL PANEL	COX Research and Technology, Inc.			P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER DRAWING NUMBER SHEET NUMBER		
				Ph. (225)756-3271 Fax (225)756-1030	CP-1921		4

## BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	ALLIED	AM24200RL/DF	ENCLOSURE
1a	1	ALLIED	MP2420A	BACKPLATE
2	2	CUTLER HAMMER	CE15JNS3AB	MOTOR STARTER
3	2	CUTLER HAMMER	C316KNA3D	O.L. RELAY (36-52A)
4	2	SQUARE D	QOU390	CB1, CB2
5	1	TIMEMARK	261DT120	ALTERNATING RELAY
6	4	ACI	JR22FR	RED PILOT LIGHT
7	2	ACI	JR22P3M20B	HOA SWITCH
8	1	TOMAR	490S-120	STROBE
9	1	MARATHON	1323580	DISTRIBUTION BLOCK
10	1	SSAC	PLMU-11	PHASE MONITOR
11	2	REDINGTON	711-0190	ELAPSED TIME METER
12	1	SQUARE D	QOU115	CB3
13	1	STOCK		GFI
14	1	DELTA	LA603	LIGHTNING ARRESTER
15	2	ACI	JR22FY	AMBER PILOT LIGHT
16	3	IDEC	RY2SUAC120V	CR1,2,3
17	2	CUTLER HAMMER	C320KGS3	AUXILIARY CONTACTS
18	2	OMRON	H3YN2AC120	TIME DELAY
19	2	MAGNECRAFT	W388AMLCPX-9	LATCHING RELAY
20	1	ACI	JR22AN11B	PUSH BUTTON
21	1	MARATHON	1321580	NEUTRAL BLOCK
22				
23				
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								