
COX

Research and Technology, Inc.

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

CP-1921

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		

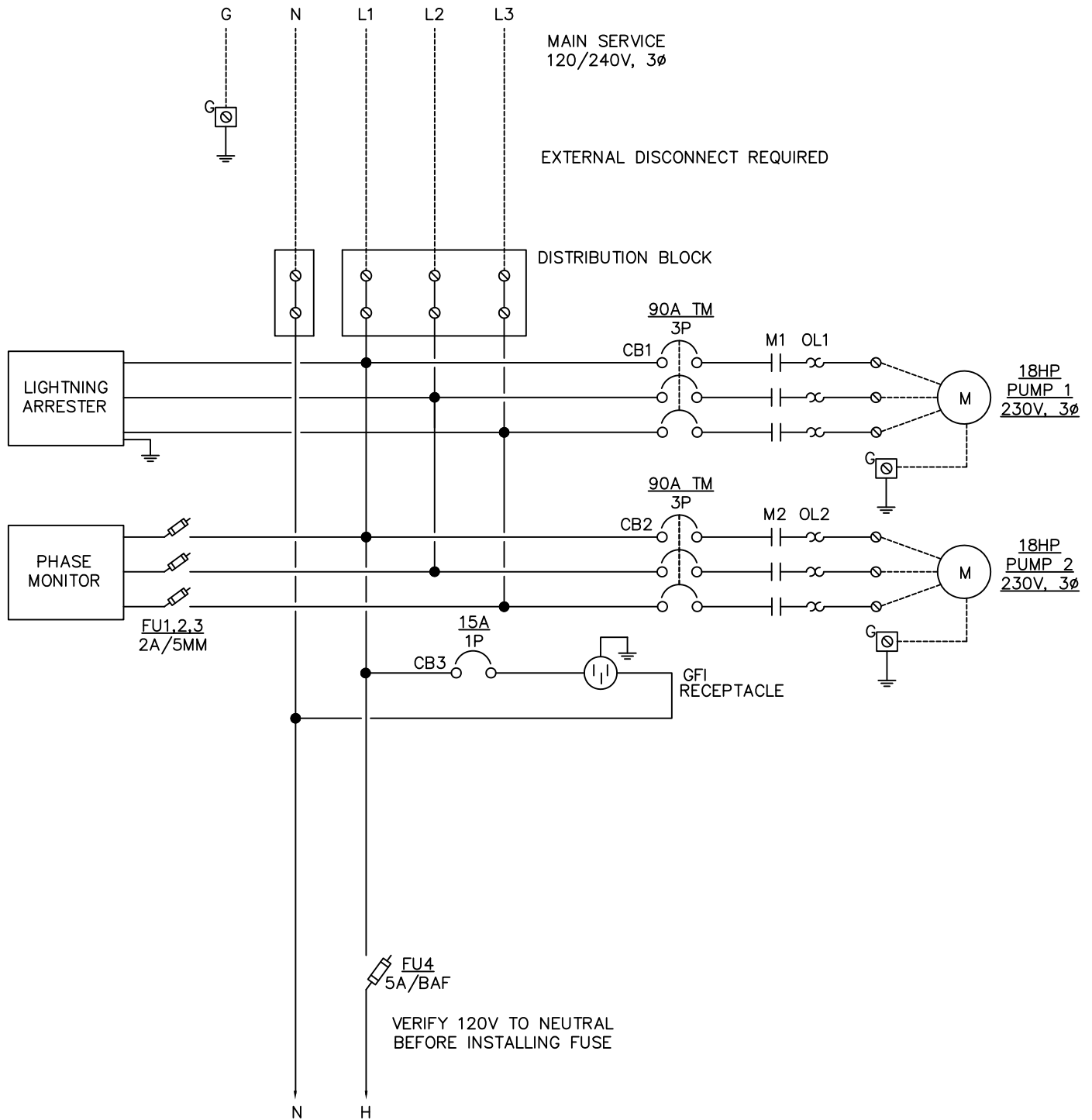
OPTIONS:

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 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		

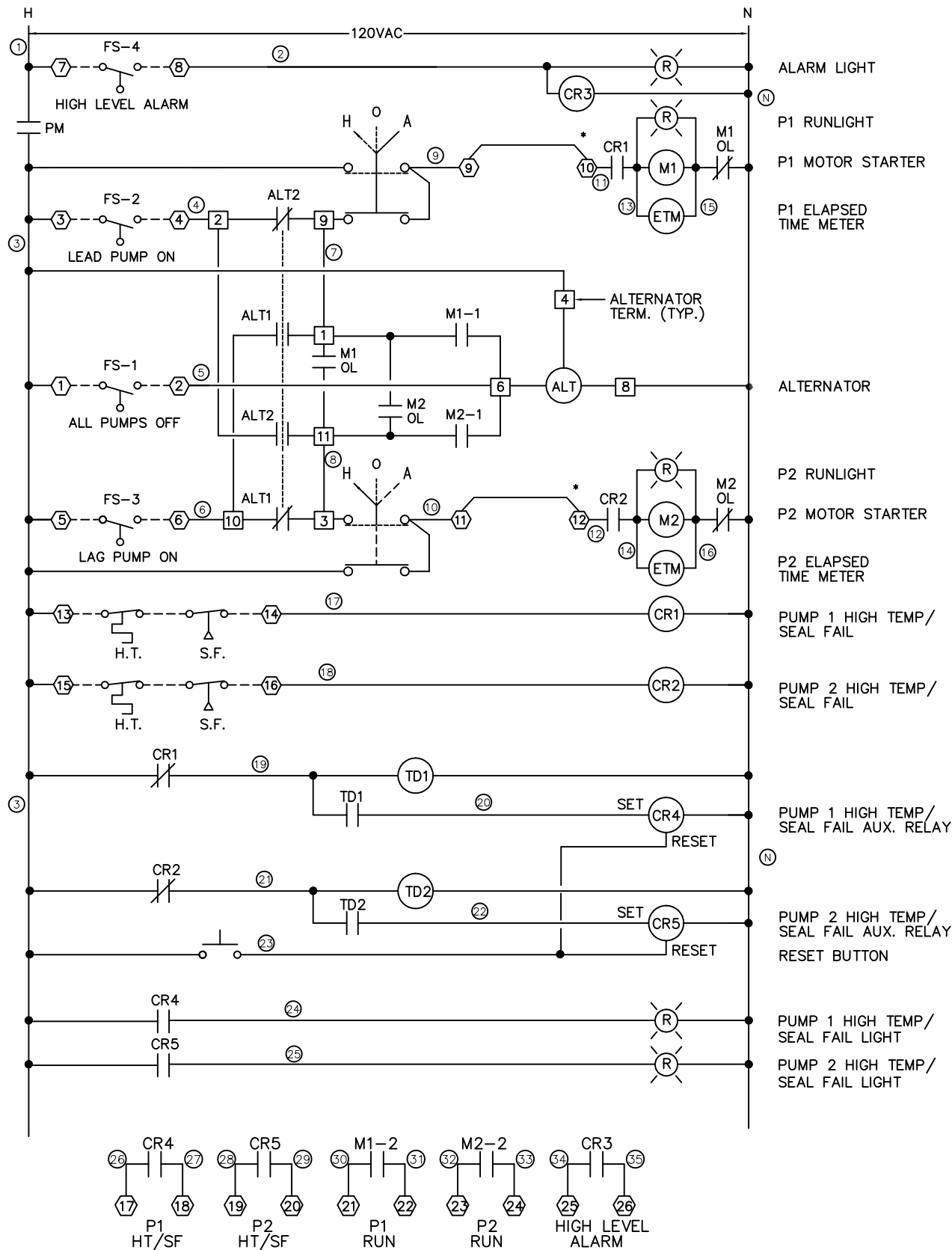
SOLD TO: Delta Process - Bossier City, LA
TAG : ROBERT E. LEE

SHIP TO: Delta Process - Ruston, LA

	Drawing Title						
	PANEL DESCRIPTION						
		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
DATE 10/11/04		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL	APPROVED BY	DATE
	Project Title	<div style="text-align: center;"> COX Research and Technology, Inc. </div>			P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)755-1030		PURCHASE ORDER NUMBER DRAWING NUMBER CP-1921 SHEET NUMBER 1
	DUPLEX PUMP CONTROL PANEL						

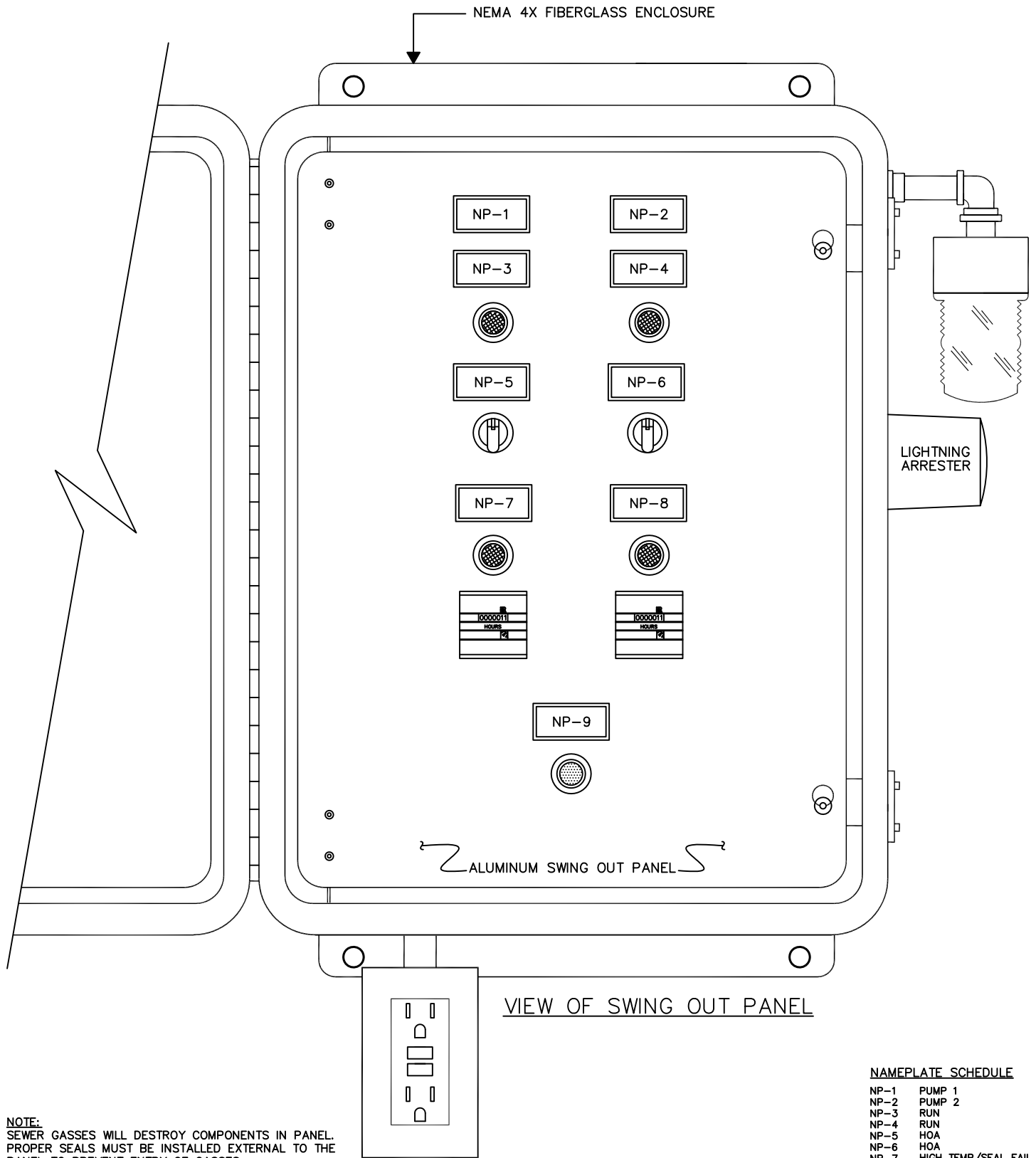


	Drawing Title						
	POWER DIAGRAM						
DATE 10/11/04		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	ECN	DATE BY
	Project Title	COX			P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER	
	DUPLEX PUMP CONTROL PANEL	Research and Technology, Inc.			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					
DATE	10/11/04	REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE
Project Title	DUPLEX PUMP CONTROL PANEL	S/N	Sales Engineer C.C.	Application Engineer R.C.	BY C. RACHAL	APPROVED
COX				P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER	
Research and Technology, Inc.				Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1921	
					SHEET NUMBER	
					3	



NAMEPLATE SCHEDULE

NP-1	PUMP 1
NP-2	PUMP 2
NP-3	RUN
NP-4	RUN
NP-5	HOA
NP-6	HOA
NP-7	HIGH TEMP/SEAL FAIL
NP-8	HIGH TEMP/SEAL FAIL
NP-9	HIGH TEMP/SEAL FAIL RESET

	Drawing Title ENCLOSURE								
DATE		REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE	BY
10/11/04		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN		APPROVED		
	Project Title				BY C. RACHAL		BY	DATE	
	DUPLEX PUMP CONTROL PANEL	<div>COX</div> <div>Research and Technology, Inc.</div>			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 4		

COX

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70809

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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							
DATE 10/11/04		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>		<small>P.O. Box 77808 Baton Rouge, LA 70809</small> <small>Ph. (225)756-3271 Fax (225)756-1030</small>		<small>PURCHASE ORDER NUMBER</small> <small>DRAWING NUMBER</small> CP-1921 <small>SHEET NUMBER</small> 5		
	Project Title	DUPLEX PUMP CONTROL PANEL						