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# COX

Research and Technology, Inc.

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DUPLEX PUMP  
CONTROL PANEL  
GONZALES #28

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

CP-2119

VOLTAGE	240V, 3W	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	2	
HP	5HP MAX	
FLA	16 AMP MAX	
TYPE OF PUMP	Submersible	(Self-Priming, Submersible)
MANUFACTURER		
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	X	(Submersible Only)
SEAL FAIL PUMP SHUTDOWN		(Submersible Only)
HT PUMP SHUTDOWN	X	(Self-Primer, Submersible)
ALARM HORN		
ALARM LIGHT	X	
LIGHT PANEL MTD		
LIGHT REMOTE MTD	X	
LIGHT FLASHER		
LIGHTNING ARRESTER		
ELAPSED TIME METER		
PHASE MONITOR		
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 - New Orleans, LA

TAG : \_\_\_\_\_

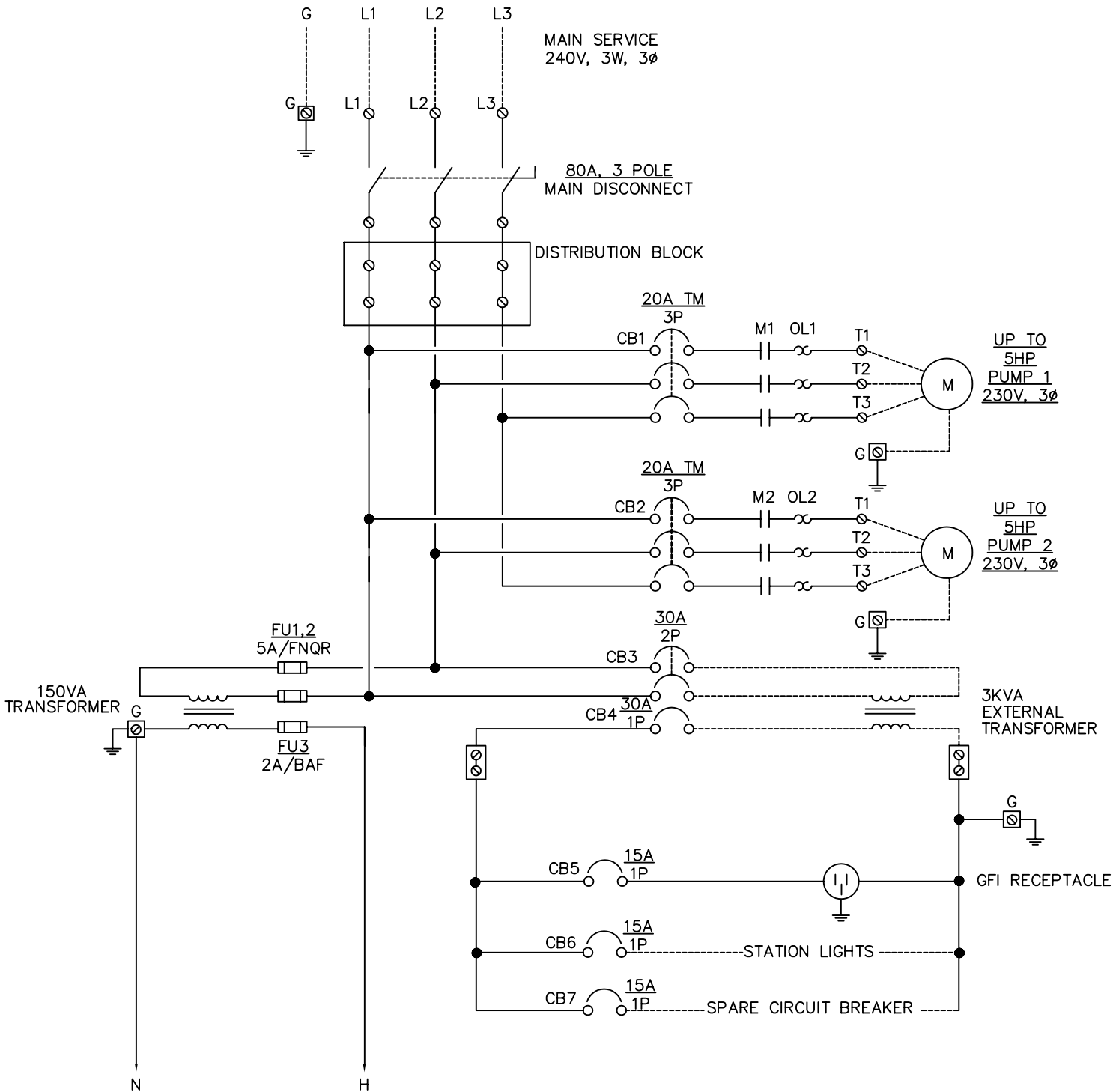
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SHIP TO: Delta Process - Denham Springs, LA

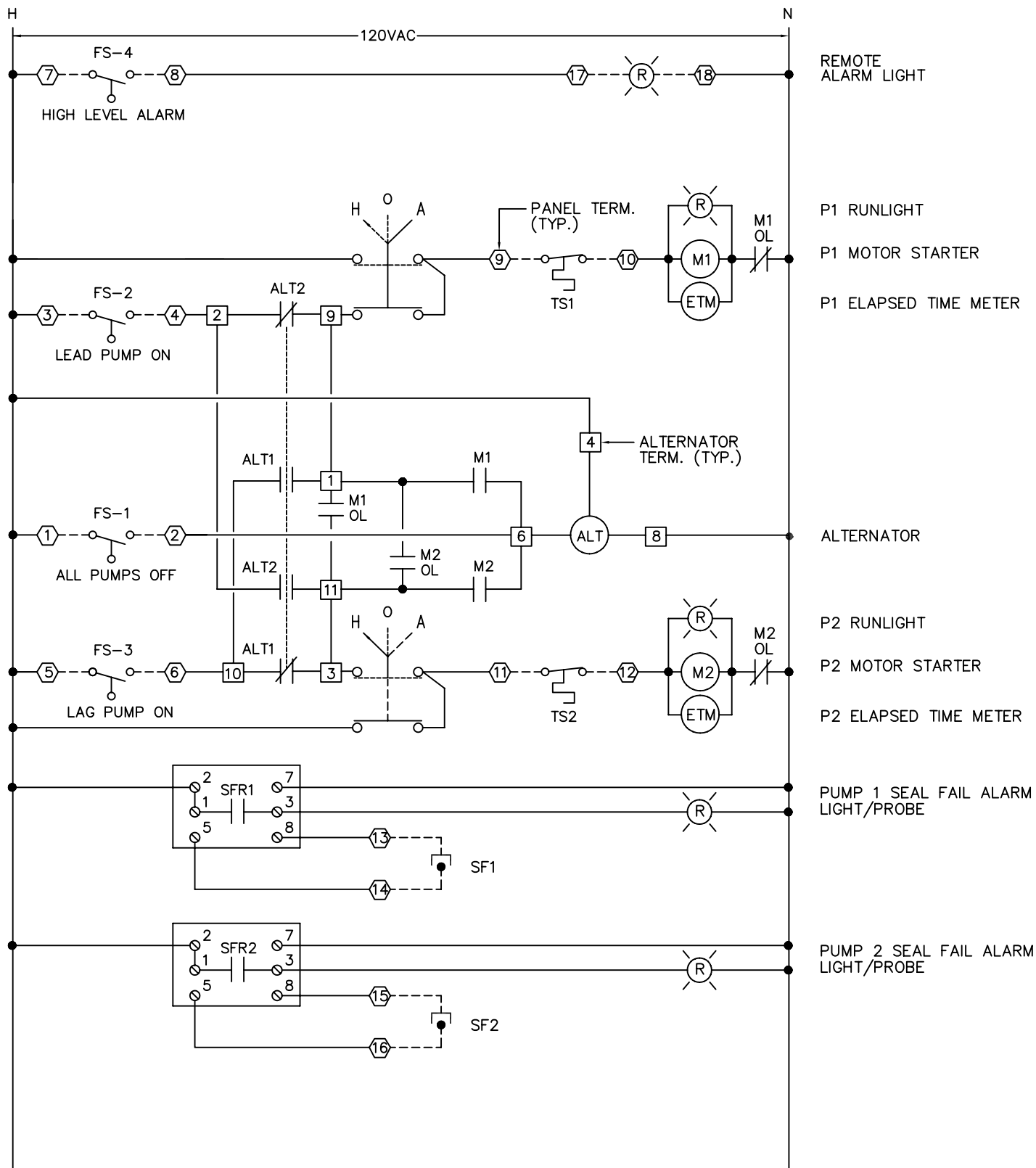
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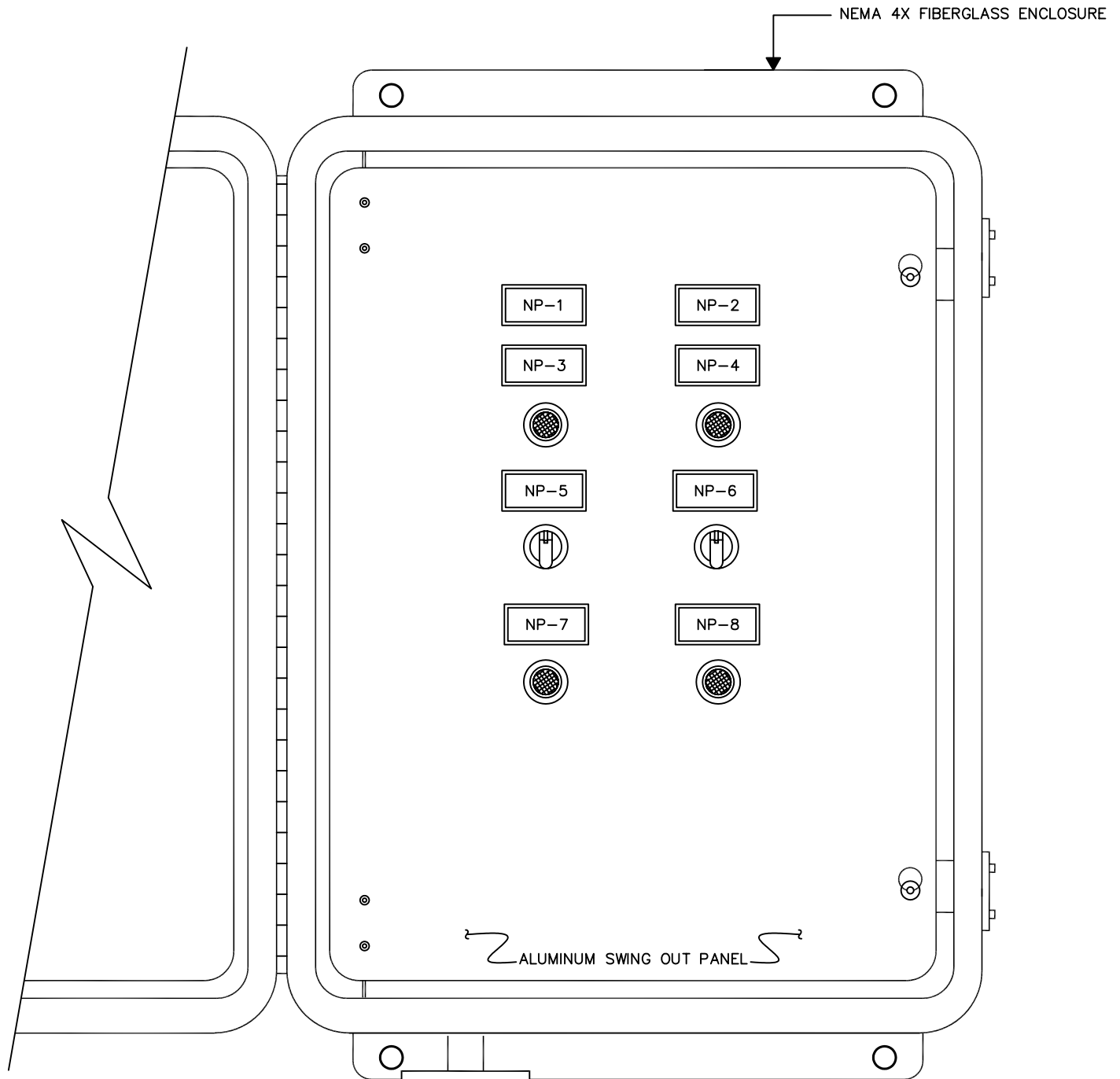
	Drawing Title						
	PANEL DESCRIPTION						
DATE 8/01/05		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	ECN	DATE
	Project Title	<div style="text-align: center;"> <b>COX</b>  Research and Technology, Inc. </div>			P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER
	DUPLIX PUMP CONTROL PANEL				Ph. (225)756-3271 Fax (225)755-1030		DRAWING NUMBER CP-2119
							SHEET NUMBER 1



	Drawing Title							
	POWER DIAGRAM							
DATE 8/01/05		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-2119		
						SHEET NUMBER 2		



Drawing Title									
CONTROL DIAGRAM									
DATE 8/01/05	REFERENCE DRAWING		NO.		REVISION-LOCATION		ECN	DATE	BY
	S/N		Sales Engineer C.C.		Application Engineer R.C.		DRAWN BY C. RACHAL		APPROVED BY
Project Title								PURCHASE ORDER NUMBER	
DUPLUX PUMP CONTROL PANEL								DRAWING NUMBER CP-2119	
								SHEET NUMBER 3	



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

### VIEW OF SWING OUT PANEL

#### NAMEPLATE SCHEDULE

NP-1	PUMP 1
NP-2	PUMP 2
NP-3	RUN
NP-4	RUN
NP-5	HOA
NP-6	HOA
NP-7	SEAL FAIL
NP-8	SEAL FAIL

DATE 8/01/05	Drawing Title							
	ENCLOSURE							
Project Title		REFERENCE DRAWING		NO.		REVISION-LOCATION		ECN
DUPLIX PUMP CONTROL PANEL		S/N		Sales Engineer C.C.		Application Engineer R.C.		DATE
						BY C. RACHAL		BY
								DATE
								PURCHASE ORDER NUMBER
								DRAWING NUMBER
								CP-2119
								SHEET NUMBER
								4

**COX**

Research and Technology, Inc.

P.O. Box 77808  
Baton Rouge, LA  
70809

Ph. (225)756-3271  
Fax (225)755-1030

## BILL OF MATERIALS

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	TA25DU14	O.L. RELAY (10-14A)
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	SQUARE D	QOU130	CB4
10	3	SQUARE D	QOU115	CB5-7
11	1	SQUARE D	3S1F	3KVA EXTERNAL TRANSFORMER
12	1	STAHLIN	RJ1412HPL	J-BOX
13	1	MARATHON	1321580	NEUTRAL BLOCK
14	1	MARATHON	1323580	DISTRIBUTION BLOCK
15	2	SSAC	LLC54AA	SEAL FAIL RELAY
16	1	SQUARE D	QOU230	CB3
17	1	STOCK		GFI RECEPTACLE
18	1	ABB	T4150PSF-1	150VA TRANSFORMER
19				
20				
21				
22				
23				
24				
25				

	Drawing Title							
	BILL OF MATERIALS							
DATE 8/01/05		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	<div style="text-align:center;">COX  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-2119	
							SHEET NUMBER 5	