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# COX

Research and Technology, Inc.

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DUPLEX PUMP  
CONTROL PANEL  
LA WATER  
SUMMERFIELD LIFT STATION

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

VOLTAGE	<u>120/240V</u>	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	<u>1/60</u>	
NO. MOTORS	<u>2</u>	
HP	<u>5</u>	
FLA	<u>26.5</u>	
TYPE OF PUMP	<u>Submersible</u>	(Self-Priming, Submersible)
MANUFACTURER	<u>Goulds</u>	
CATALOG NUMBER	<u>WS5012D3</u>	
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		
THERM. & SEAL FAIL WIRING FIGURE		

## OPTIONS:

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

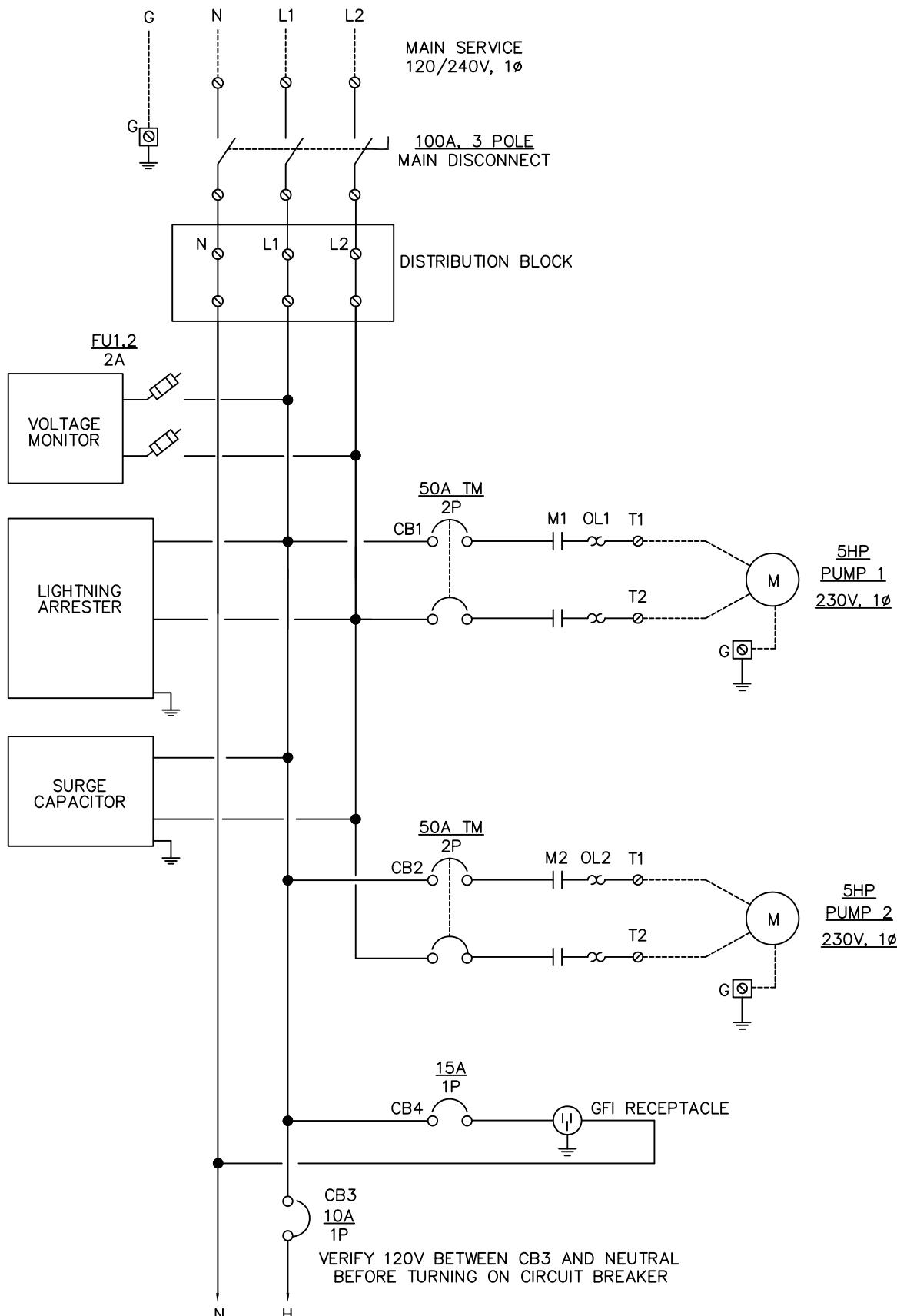
**SOLD TO:** Delta Process - New Orleans, LA  
**TAG :** La Water Summerfield Lift Station

SHIP TO: Delta Process - Ruston, LA

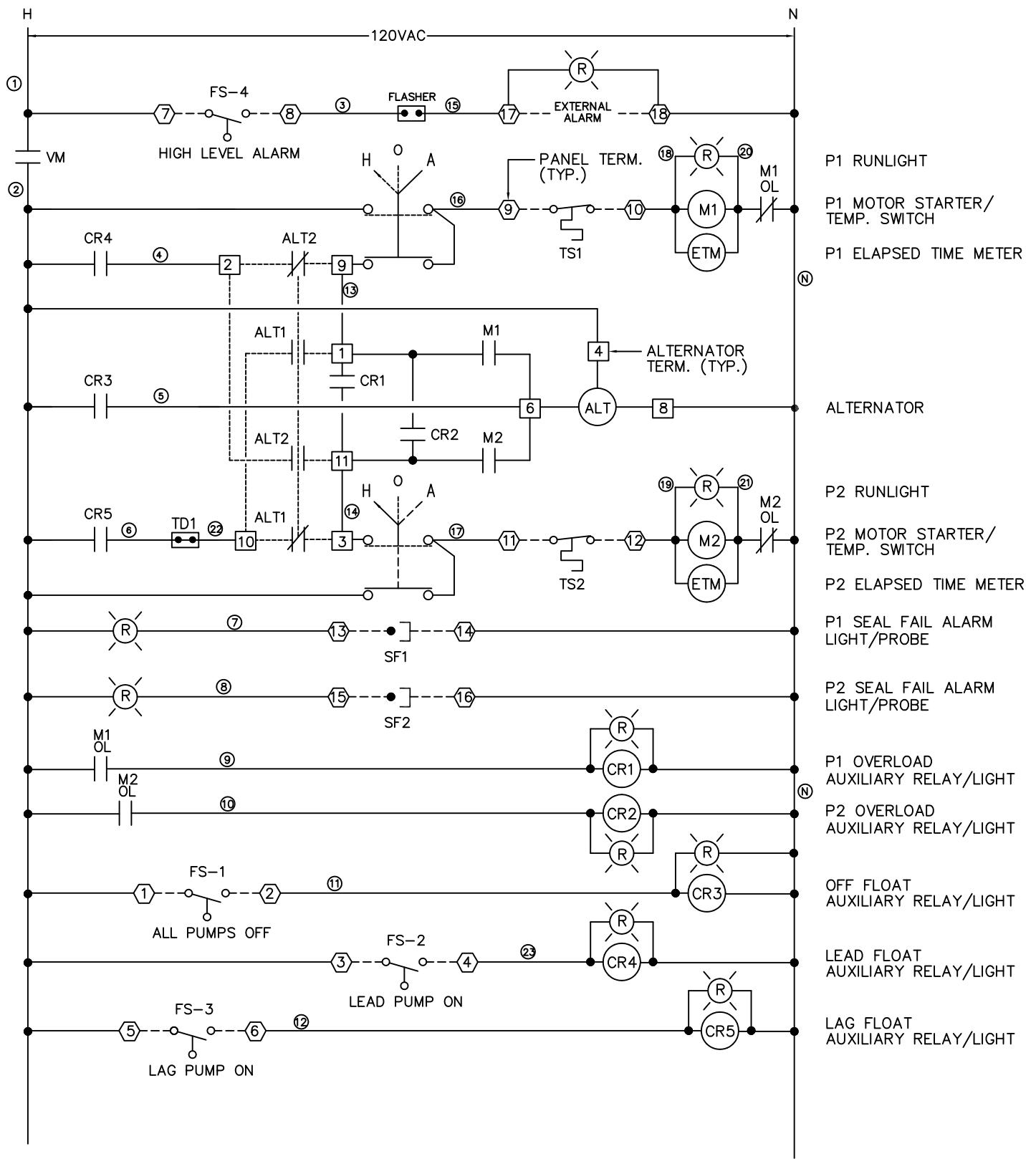
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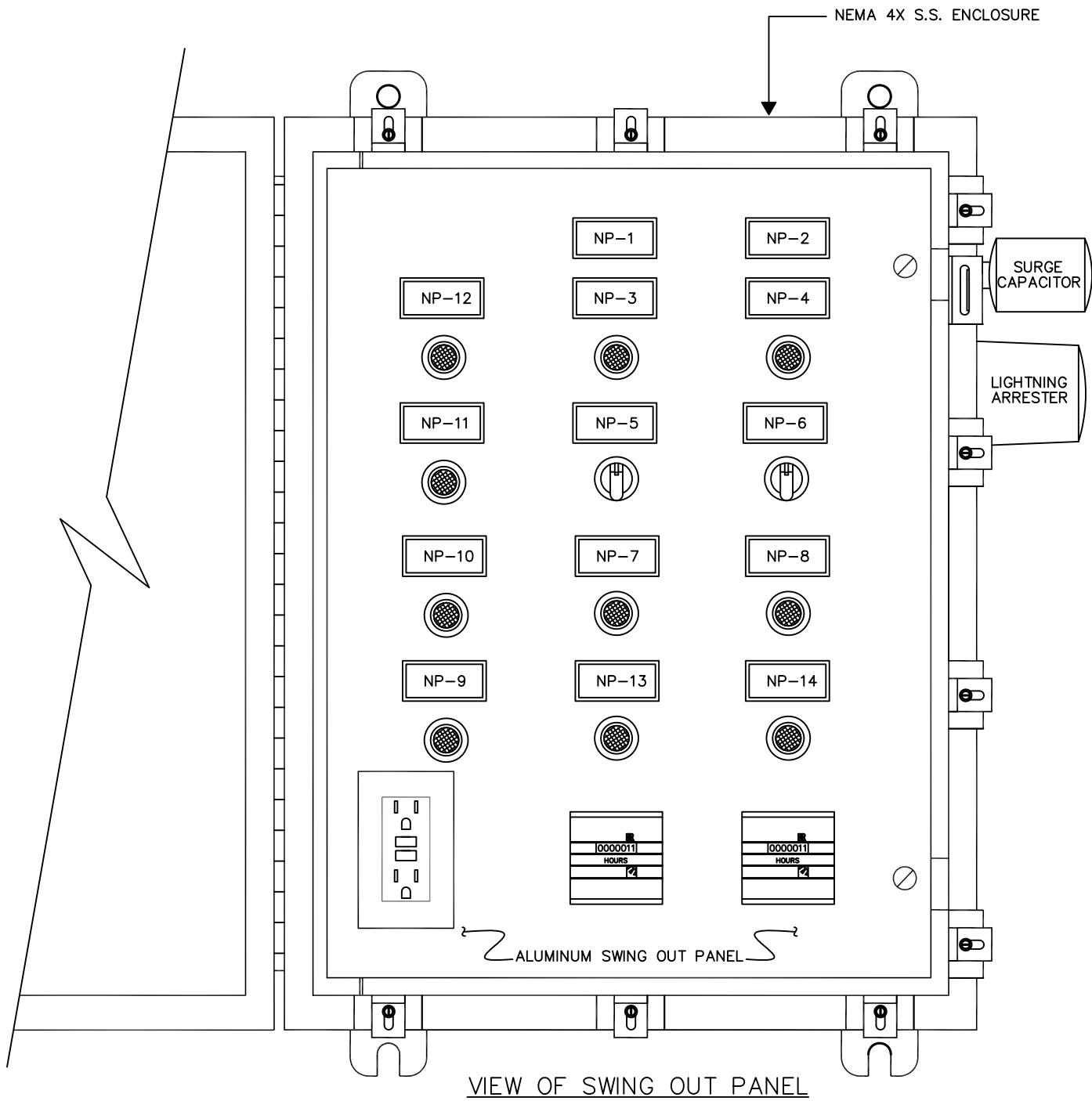
	Drawing Title  <b>PANEL DESCRIPTION</b>  DATE 5/16/06						
		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL	APPROVED BY	DATE
	Project Title  <b>DUPLEX PUMP CONTROL PANEL</b>	<hr/> <hr/> <b>COX</b> <hr/> Research and Technology, Inc. <hr/> <hr/>			P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER	
						DRAWING NUMBER	
					Ph. (225)756-3271 Fax (225)755-1030	CP-2388	
						SHEET NUMBER	
						1	



	Drawing Title							
	POWER DIAGRAM							
DATE 5/16/06	REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE	BY
	S/N	Sales Engineer	Application Engineer	DRAWN		APPROVED		
	C.C.		R.C.	BY C. RACHAL		BY DATE		
	Project Title		<hr/> <hr/> <b>COX</b> <hr/> <hr/> Research and Technology, Inc. <hr/> <hr/>		P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER	
	DUPLEX PUMP CONTROL PANEL				DRAWING NUMBER		CP-2388	
					SHEET NUMBER		2	



	Drawing Title  CONTROL DIAGRAM				
		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN APPROVED BY DATE
DATE 5/16/06		Application Engineer R.C.			
	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)755-1030	PURCHASE ORDER NUMBER  DRAWING NUMBER CP-2388 SHEET NUMBER 3



VIEW OF SWING OUT PANEL

NAMEPLATE SCHEDULE

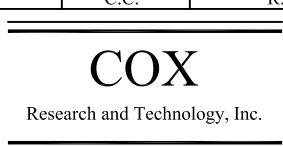
NP-1	PUMP 1	NP-9	ALL PUMPS OFF
NP-2	PUMP 2	NP-10	LEAD PUMP ON
NP-3	RUN	NP-11	LAG PUMP ON
NP-4	RUN	NP-12	HIGH LEVEL ALARM
NP-5	HOA	NP-13	SEAL FAIL
NP-6	HOA	NP-14	SEAL FAIL
NP-7	O.L. TRIP		
NP-8	O.L. TRIP		

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

	Drawing Title					
	ENCLOSURE					
		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE BY
DATE 5/16/06	S/N	Sales Engineer	Application Engineer	DRAWN BY C. RACHAL	APPROVED BY	DATE
	C.C.		R.C.			
	Project Title	<hr/> <hr/> <hr/> <b>COX</b> <hr/> <hr/>			PURCHASE ORDER NUMBER	
	DUPLEX PUMP CONTROL PANEL	Research and Technology, Inc.			DRAWING NUMBER	CP-2388
					SHEET NUMBER	4

## BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	C & I	I-302410ST4X	ENCLOSURE
1a	1	C & I	C-3024P	BACKPLATE
1b	1	C & I	C-3024SPA	DEAD FRONT
2	1	MARATHON	1323580	DISTRIBUTION BLOCK
3	2	SQUARE D	8536SC02V02	MOTOR STARTER
4	4	SQUARE D	B36.0	HEATER PACKS
5	2	SQUARE D	QOU250	CB1, CB2
6	1	TIMEMARK	261DT120	ALTERNATING RELAY
7	10	ACI	JR22FR	RED PILOT LIGHT
8	2	ACI	JR22P3M20B	HOA SWITCH
9	1	DELTA	CA302R	SURGE CAPACITOR
10	1	DELTA	LA302R	LIGHTNING ARRESTER
11	1	ABB	OT100E3	DISCONNECT SWITCH
12	2	REDINGTON	711-0190	ELAPSED TIME METER
13	1	DIVERSIFIED	UOA-240-AFA	VOLTAGE MONITOR
14	1	SSAC	FS126RC	FLASHER
15	1	DAYTON	2A561	TIME DELAY
16	1	IRL	IR-VPA-150-1-RG-GC-C	REMOTE ALARM LT.
17	2	SQUARE D	9999S04	AUX.O/L CONTACTS
18	1	SQUARE D	QOU110	CB3
19	1	SQUARE D	QOU115	CB4
20	1	STOCK		GFI RECEPTACLE
21	5	IDECA	RY2SUAC120V	RELAYS
22				
23				
24				

	Drawing Title								
	BILL OF MATERIALS								
			REFERENCE DRAWING		NO.	REVISION-LOCATION	ECN	DATE	BY
DATE 5/16/06			S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED		
				C.C.	R.C.	BY C. RACHAL	BY	DATE	
	Project Title		 <b>COX</b> Research and Technology, Inc.			PURCHASE ORDER NUMBER  P.O. Box 77808 Baton Rouge, LA 70809  DRAWING NUMBER CP-2388  SHEET NUMBER 5			
	DUPLEX PUMP CONTROL PANEL								