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# COX

Research and Technology, Inc.

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WOODRIDGE LIFT STATION #2  
DUPLEX PUMP  
CONTROL PANEL

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

CP-2451

VOLTAGE	120/240V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	2	
HP	7.5	
FLA	22	
TYPE OF PUMP	S. P.	(Self-Priming, Submersible)
MANUFACTURER	GORMAN RUDD	
CATALOG NUMBER		
CONTROL VOLTAGE	120V	(120V, Other)
ENCLOSURE	NEMA 4X	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	Stainless Steel	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR	Floats	(Floats, Bubbler, Other)
CAPACITORS	No	(Yes, No)
CAPACITOR WIRING FIGURE		
THERM. & SEAL FAIL WIRING FIGURE		

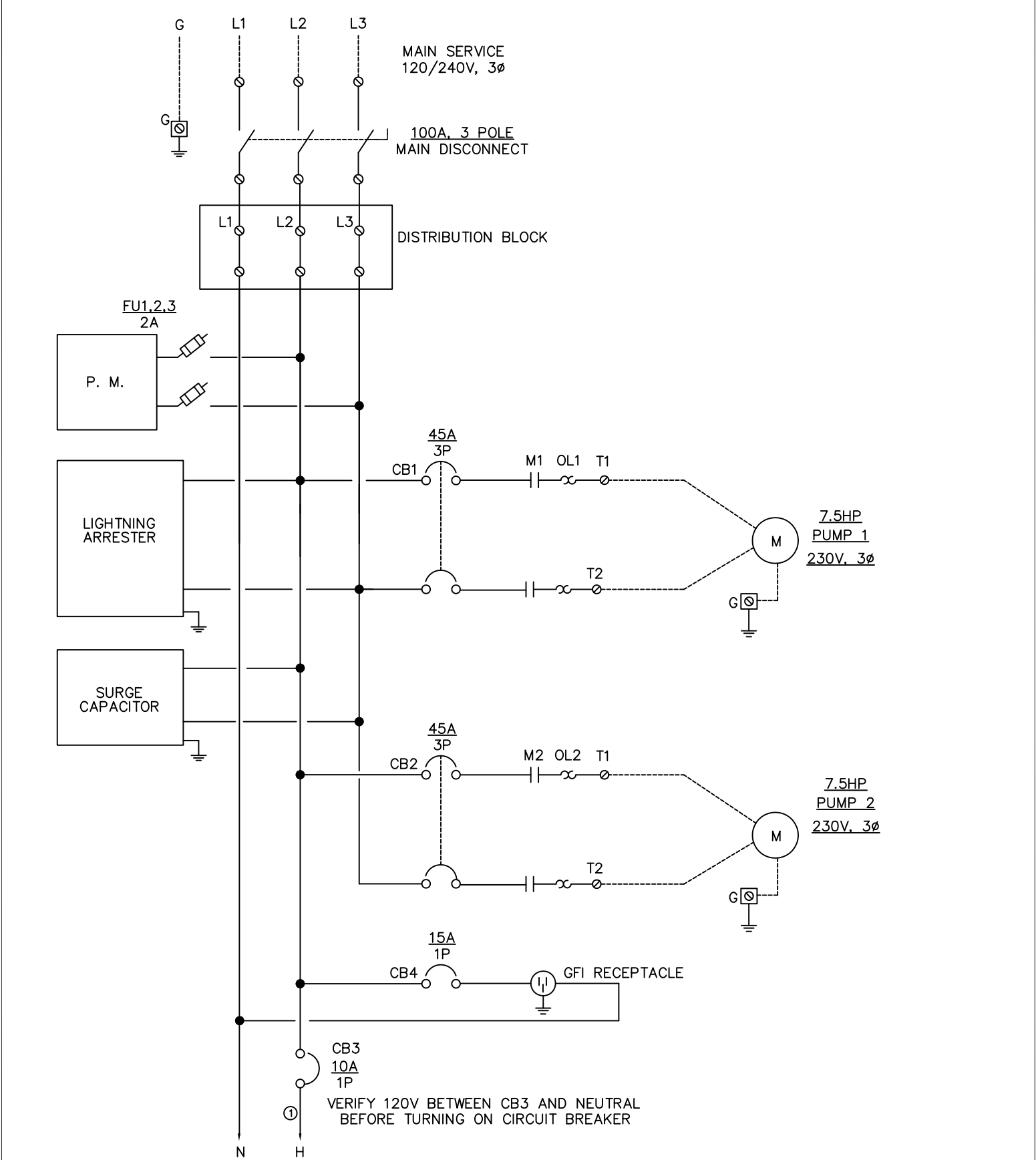
OPTIONS:

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		
LIGHT FLASHER	X	
LIGHTNING ARRESTER	X	
ELAPSED TIME METER	X	
PHASE MONITOR	X	
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		

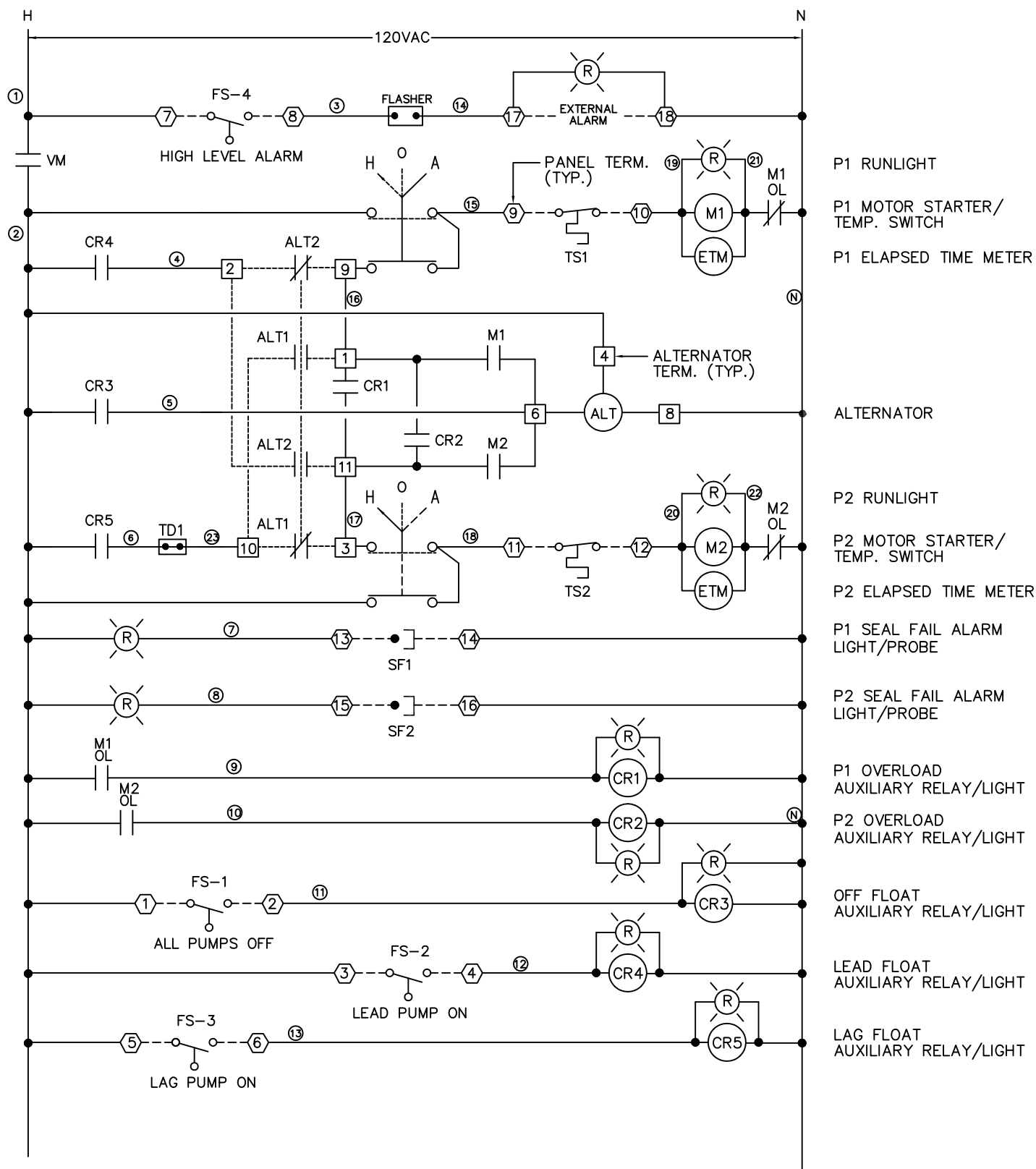
SOLD TO: Delta Process - New Orleans, LA  
TAG : La Water Versailles

SHIP TO: Delta Process - Ruston, LA

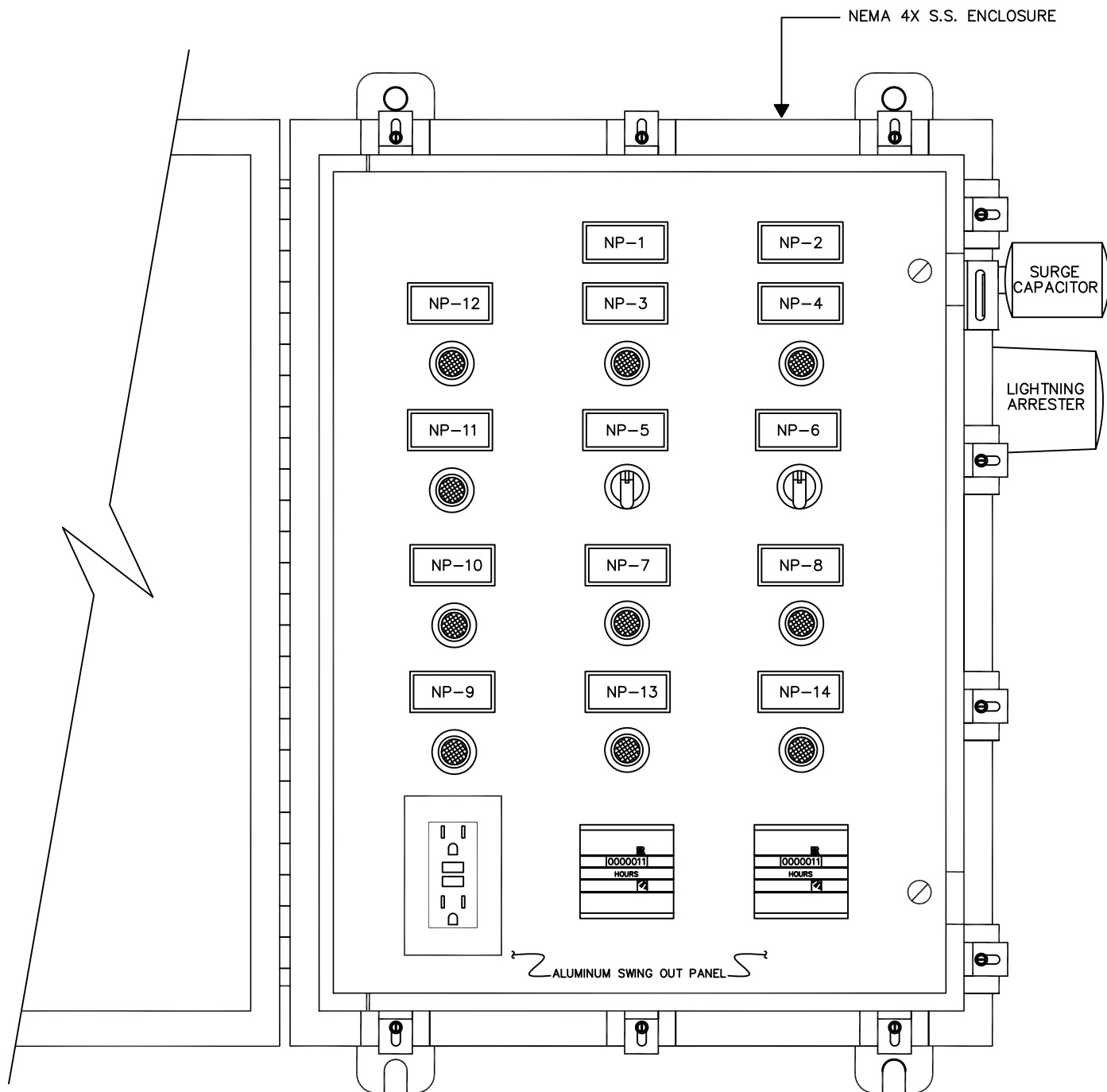
	Drawing Title						
	PANEL DESCRIPTION						
DATE		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
09/08/06		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL	APPROVED BY	DATE
	Project Title	<div>COX</div> <div>Research and Technology, Inc.</div>			P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER	
	DUPLEX PUMP				Ph. (225)756-3271	DRAWING NUMBER	
	CONTROL PANEL				Fax (225)755-1030	CP-2451	
						SHEET NUMBER	
						1	



	Drawing Title								
	POWER DIAGRAM								
DATE		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY	APPROVED	
09/08/06		S/N	Sales Engineer C.C.	Application Engineer R.C.	BY C. RACHAL		BY	DATE	
	Project Title	<div>COX</div> 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-2451		
							SHEET NUMBER 2		



Drawing Title							
CONTROL DIAGRAM							
DATE 4/27/06	REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE
	S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL		APPROVED BY	
Project Title						PURCHASE ORDER NUMBER	
DUPLEX PUMP CONTROL PANEL						DRAWING NUMBER CP-2371	
						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 GASSES WILL DESTROY COMPONENTS IN PANEL.  
PROPER SEALS MUST BE INSTALLED EXTERNAL TO THE  
PANEL TO PREVENT ENTRY OF GASSES.

	Drawing Title  	
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## 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	8536SC01V02	MOTOR STARTER
4	4	SQUARE D	B15.5	HEATER PACKS
5	2	SQUARE D	QOU220	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	OT63E3	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.OL CONTACTS
18	1	SQUARE D	QOU110	CB3
19	1	SQUARE D	QOU115	CB4
20	1	STOCK		GFI RECEPTACLE
21	5	IDEC	RY2SUAC120V	RELAYS
22				
23				
24				

	Drawing Title						
	BILL OF MATERIALS						
DATE 4/27/06		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="border: 1px solid black; padding: 5px; margin: 0 auto; width: 150px;"> <b>COX</b>  <small>Research and Technology, Inc.</small> </div>			P.O. Box 77808 Baton Rouge, LA 70809  Ph. (225)756-3271 Fax (225)755-1030		PURCHASE ORDER NUMBER  DRAWING NUMBER CP-2371 SHEET NUMBER 5
	DUPLEX PUMP CONTROL PANEL						