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# COX

Research and Technology, Inc.

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## 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-2223

VOLTAGE	120/240V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	2	
HP	10	
FLA	28	
TYPE OF PUMP	Self-Priming	(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:

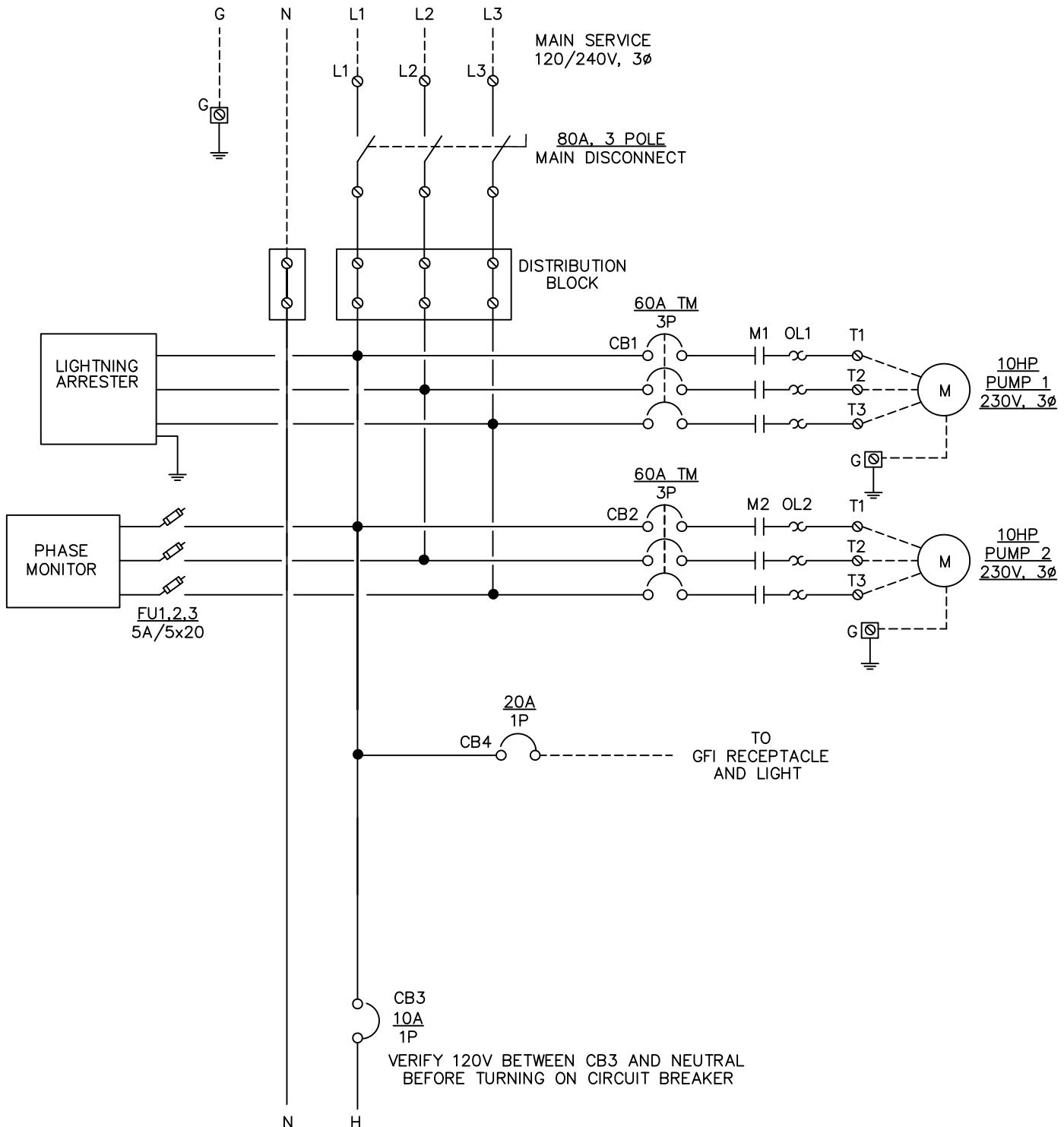
SEAL FAIL LIGHTS		(Submersible Only)
SEAL FAIL RELAYS		(Submersible Only)
SEAL FAIL PUMP SHUTDOWN		(Submersible Only)
HT PUMP SHUTDOWN	X	(Self-Primer, Submersible)
ALARM HORN		
ALARM LIGHT	X	
LIGHT PANEL MTD	X	
LIGHT REMOTE MTD		
LIGHT FLASHER		
LIGHTNING ARRESTER	X	
ELAPSED TIME METER	X	
PHASE MONITOR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

SOLD TO: Delta Process - Bossier City, LA  
TAG :

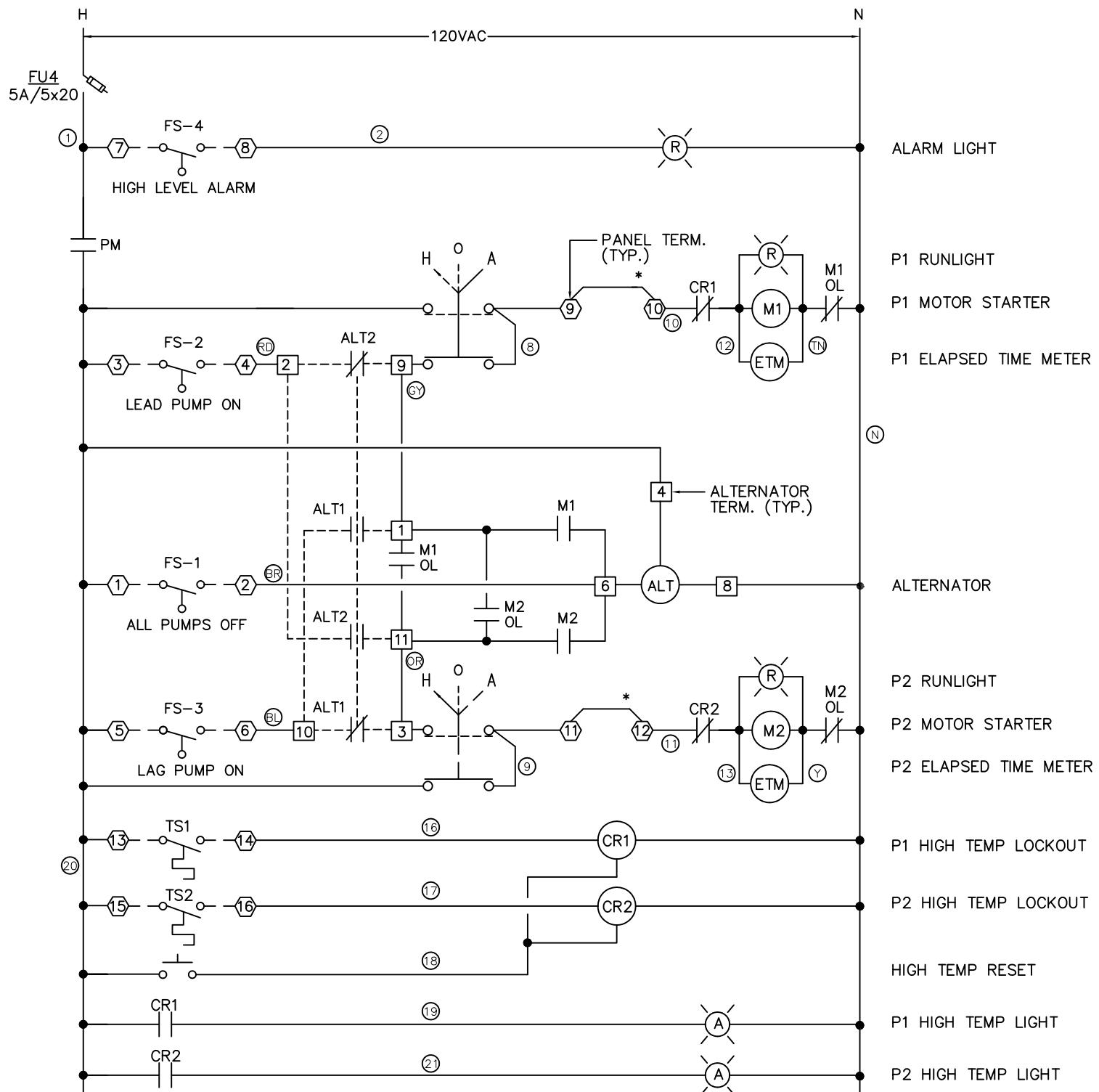
SHIP TO: Delta Process - Ruston, LA

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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> Research and Technology, Inc. <hr/> <hr/>			P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER  DRAWING NUMBER CP-2223	
					Ph. (225)756-3271 Fax (225)755-1030	SHEET NUMBER 1	

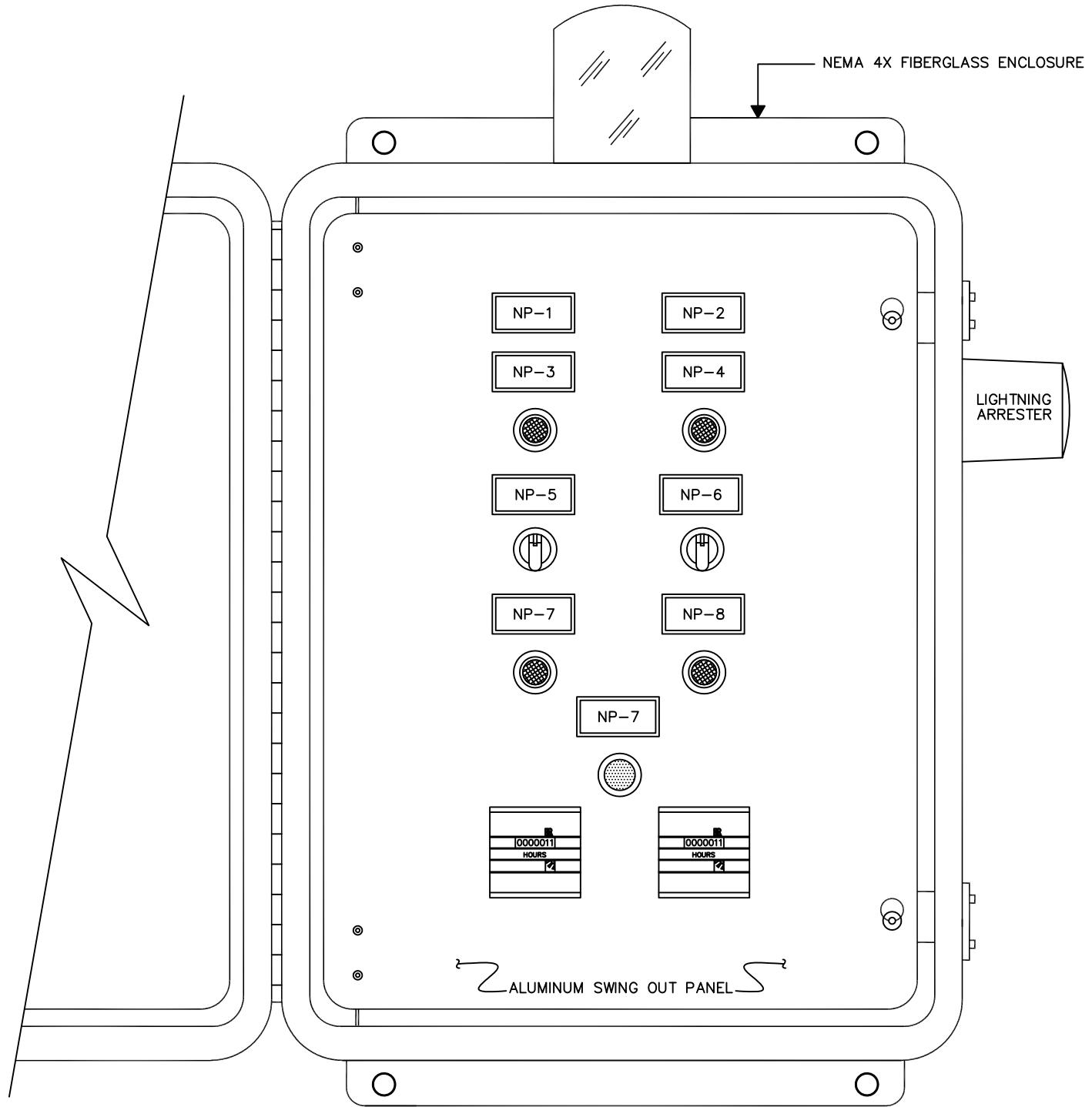


	Drawing Title  <b>POWER DIAGRAM</b>				
		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN APPROVED BY DATE
DATE 5/16/06		Application Engineer R.C.			
	Project Title  <b>CONTROL PANEL</b>	<b>COX</b> Research and Technology, Inc.	P.O. Box 77808 Baton Rouge, LA 70809  Ph. (225)756-3271 Fax (225)755-1030	PURCHASE ORDER NUMBER  DRAWING NUMBER CP-2223  SHEET NUMBER 2	



\* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

	Drawing Title  CONTROL DIAGRAM							
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		<hr/> <hr/> <b>COX</b> <hr/> <hr/> Research and Technology, Inc.		P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER	
							DRAWING NUMBER CP-2223	
	CONTROL PANEL						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
NP-8	HIGH	TEMP
NP-9	HIGH	TEMP RESET

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

	Drawing Title  ENCLOSURE  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		<hr/> <hr/> <b>COX</b> <hr/> <hr/> Research and Technology, Inc.		P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER		
	CONTROL PANEL						DRAWING NUMBER CP-2223		
					Ph. (225)756-3271 Fax (225)755-1030		SHEET NUMBER 4		

# BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	STAHLIN	RJ1816HPLDF	ENCLOSURE
1a	1	STAHLIN	BP1816AL	BACKPLATE
2	2	ABB	A26-30-10-84	MOTOR STARTER
3	2	ABB	TA25DU32	O.L. RELAY (22-32A)
4	2	SQUARE D	QOU360	CB1, CB2
5	1	TIMEMARK	261DT120	ALTERNATING RELAY
6	2	ACI	JR22FR	RED PILOT LIGHT
7	2	ACI	JR22P3M20B	HOA SWITCH
8	1	DELTA	LA603	LIGHTNING ARRESTER
9	1	ABB	OT63E3	DISCONNECT SWITCH
10	2	ACI	JR22FY	AMBER PILOT LIGHT
11	1	MARATHON	1323580	DISTRIBUTION BLOCK
12	1	MARATHON	1321570	NEUTRAL BLOCK
13	1	AC/DC	BL5-R-120	ALARM LIGHT
14	2	MAGNECRAFT	W388AMLCPX-9	CR1,CR2
15	2	MAGNECRAFT	70-463-1	BASE
16	1	SSAC	PLMU11	PHASE MONITOR
17	2	REDINGTON	711-0190	ELAPSED TIME METER
18	1	SQUARE D	QOU110	CB3
19	1	SQUARE D	QOU120	CB4
20				
21				
22				
23				
24				
25				

	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-2223  SHEET NUMBER 5			
	CONTROL PANEL							