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# COX

Research and Technology, Inc.

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## DUPLEX PUMP CONTROL PANEL LAKE END PARK

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

CP-2319

VOLTAGE	120/240V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	2	
HP	40	
FLA	104	
TYPE OF PUMP	Self Priming	(Self-Priming, Submersible)
MANUFACTURER	GR	
CATALOG NUMBER		

CONTROL VOLTAGE	120V	(120V, Other)
ENCLOSURE	NEMA 3R	(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	N/A	
THERM. & SEAL FAIL WIRING FIGURE		

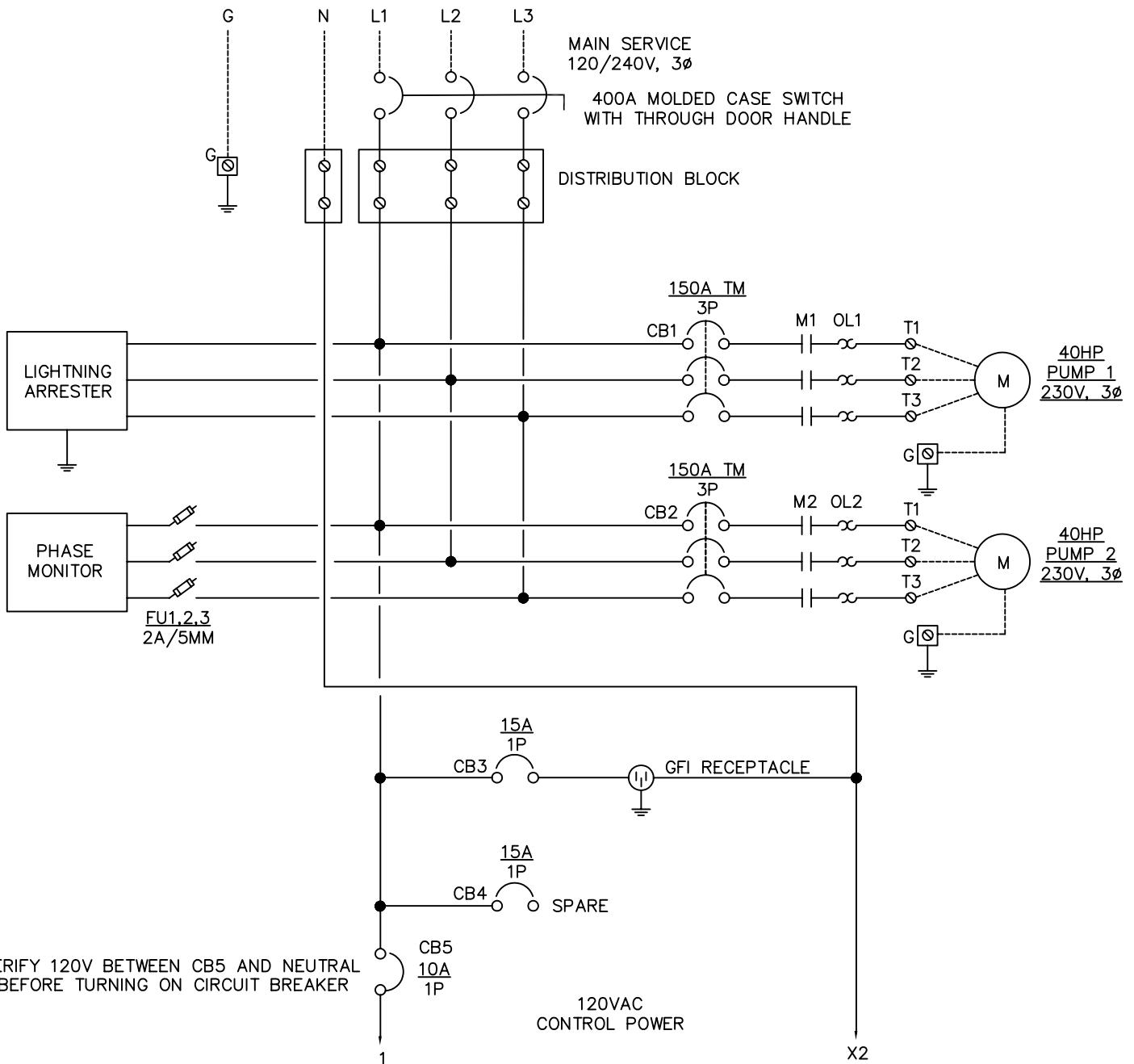
OPTIONS:

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		
LIGHT REMOTE MTD	X	
LIGHT FLASHER		
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	X	
ECONOMY VERSION		

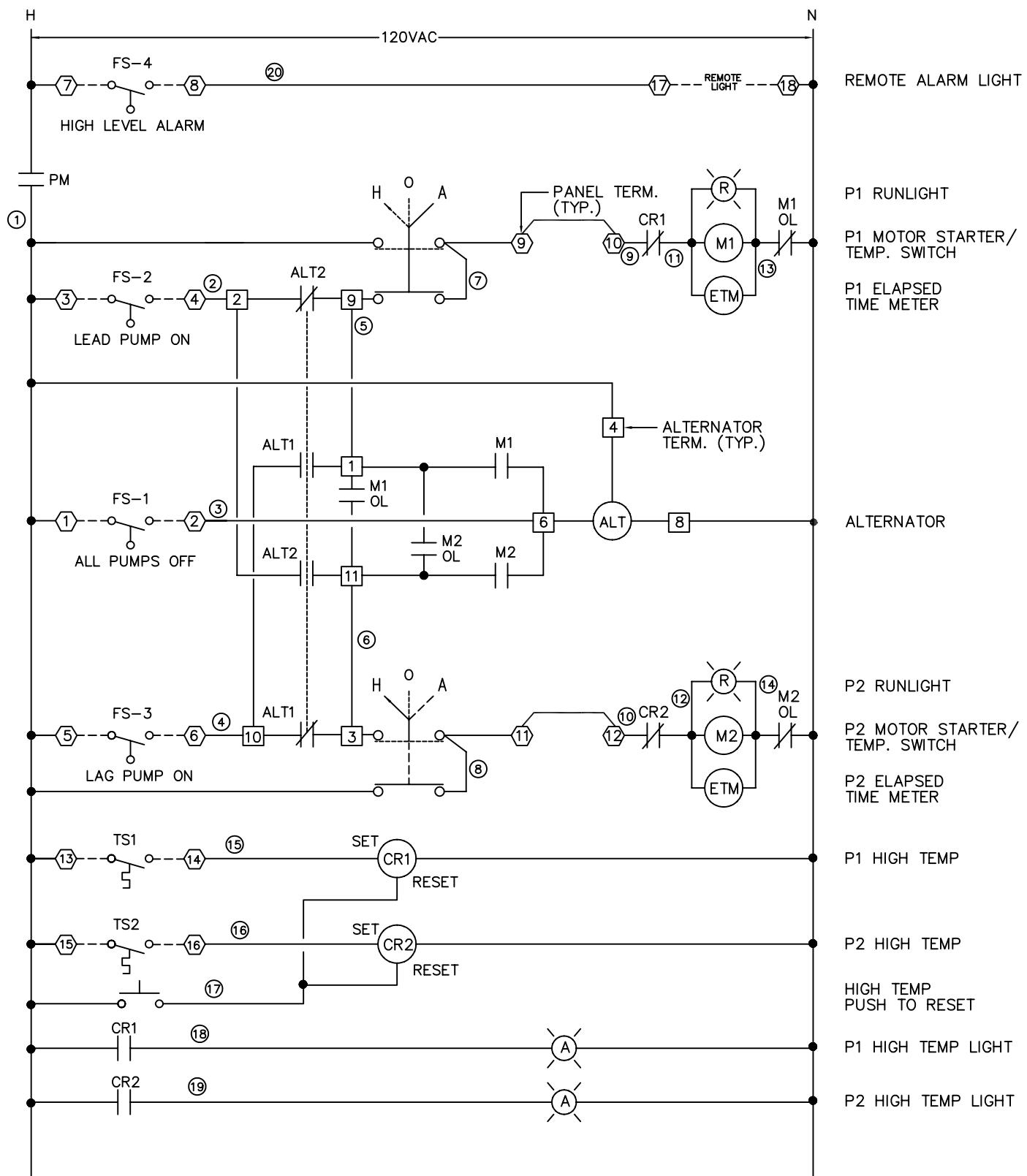
SOLD TO: Delta Process - Denham Springs, LA  
TAG : LAKE END PARK

SHIP TO: Delta Process - Denham Springs, LA

	Drawing Title  PANEL DESCRIPTION								
		REFERENCE DRAWING S/N	DRAWING NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN	DATE APPROVED BY	BY	DATE	
DATE 2/27/06	Project Title  DUPLEX PUMP CONTROL PANEL			P.O. Box 77808 Baton Rouge, LA 70809					PURCHASE ORDER NUMBER
				Ph. (225)756-3271 Fax (225)755-1030					DRAWING NUMBER CP-2319
									SHEET NUMBER 1



	Drawing Title					
	POWER DIAGRAM					
DATE 2/27/06	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY C. RACHAL	DATE APPROVED BY	BY
Project Title						
DUPLEX PUMP CONTROL PANEL	COX Research and Technology, Inc.	P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER			
		Ph. (225)756-3271 Fax (225)755-1030	DRAWING NUMBER CP-2319			
			SHEET NUMBER 2			



Drawing Title

**CONTROL DIAGRAM**DATE  
2/27/06

Project Title

**DUPLEX PUMP  
CONTROL PANEL**

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

**COX**  
Research and Technology, Inc.

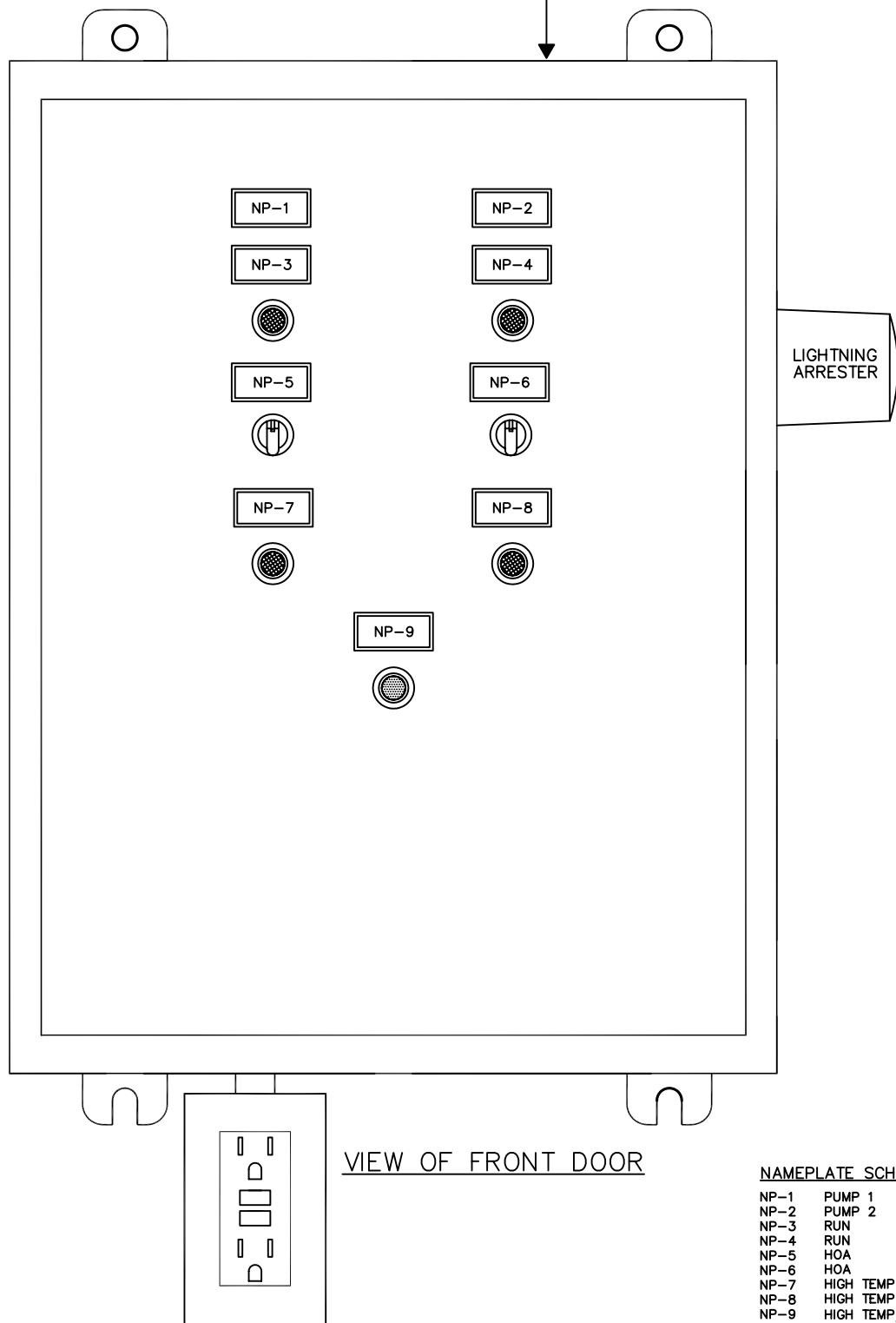
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70809Ph. (225)756-3271  
Fax (225)755-1030

PURCHASE ORDER NUMBER

DRAWING NUMBER CP-2319

SHEET NUMBER

NEMA 3R STAINLESS STEEL ENCLOSURE



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

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/PUSH TO RESET

	Drawing Title					
	ENCLOSURE					
DATE 2/27/06	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY C. RACHAL	DATE APPROVED BY	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 <hr/> <hr/> DRAWING NUMBER CP-2319 <hr/> <hr/> SHEET NUMBER 4	
	DUPLEX PUMP CONTROL PANEL			Ph. (225)756-3271 Fax (225)755-1030		

# BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	EBE	S363010REPL	ENCLOSURE
1a	1	EBE	A3630SP	SWING PANEL
1b	1	EBE	3630P	BACK PLATE
2	1	BUSSMAN	16371-3	DISTRIBUTION BLOCK
3	2	ABB	A110-30-11-84	MOTOR STARTER
4	2	ABB	TA110DU110	O.L. RELAY (80-110A)
5	2	ABB	S3N150TW	CB1, CB2
6	1	TIMEMARK	261DT120	ALTERNATING RELAY
7	2	ACI	JR22FR	RED PILOT LIGHT
8	2	ACI	JR22P3M20B	HOA SWITCH
9	1	LUMAPRO	3RB24	REMOTE ALARM LIGHT
10	1	DELTA	LA603	LIGHTNING ARRESTER
11	1	SSAC	PLMU-11	PHASE MONITOR
12	2	REDINGTON	711-0187	ELAPSED TIME METER
13	1	ACI	JR22AN11B	PUSH BUTTON
14	2	SQUARE D	QOU115	CB3,4
15	1	ABB	K5VDM	MECHANISM
16	2	MAGNECRAFT	W388AMLCPX-9	LATCHING RELAYS
17	2	ACI	JR22FY	YELLOW PILOT LIGHT
18	1	SQUARE D	QOU110	CB5
19	1	ABB	S5H400DW	MOLDED CASE SWITCH
20	1	BUSSMAN	16371-1	NEUTRAL BLOCK
21	1	ABB	OHP10X225	SHAFT
22	1	ABB	OHB95L10	HANDLE
23				
24				
25				

Drawing Title  BILL OF MATERIALS						
	REFERENCE DRAWING S/N		NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN BY C. RACHAL		ECN APPROVED BY
DATE 2/27/06						
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-2319  SHEET NUMBER	