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# COX

Research and Technology, Inc.

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## DUPLEX PUMP CONTROL PANEL NATCHEZ

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

CP-2214

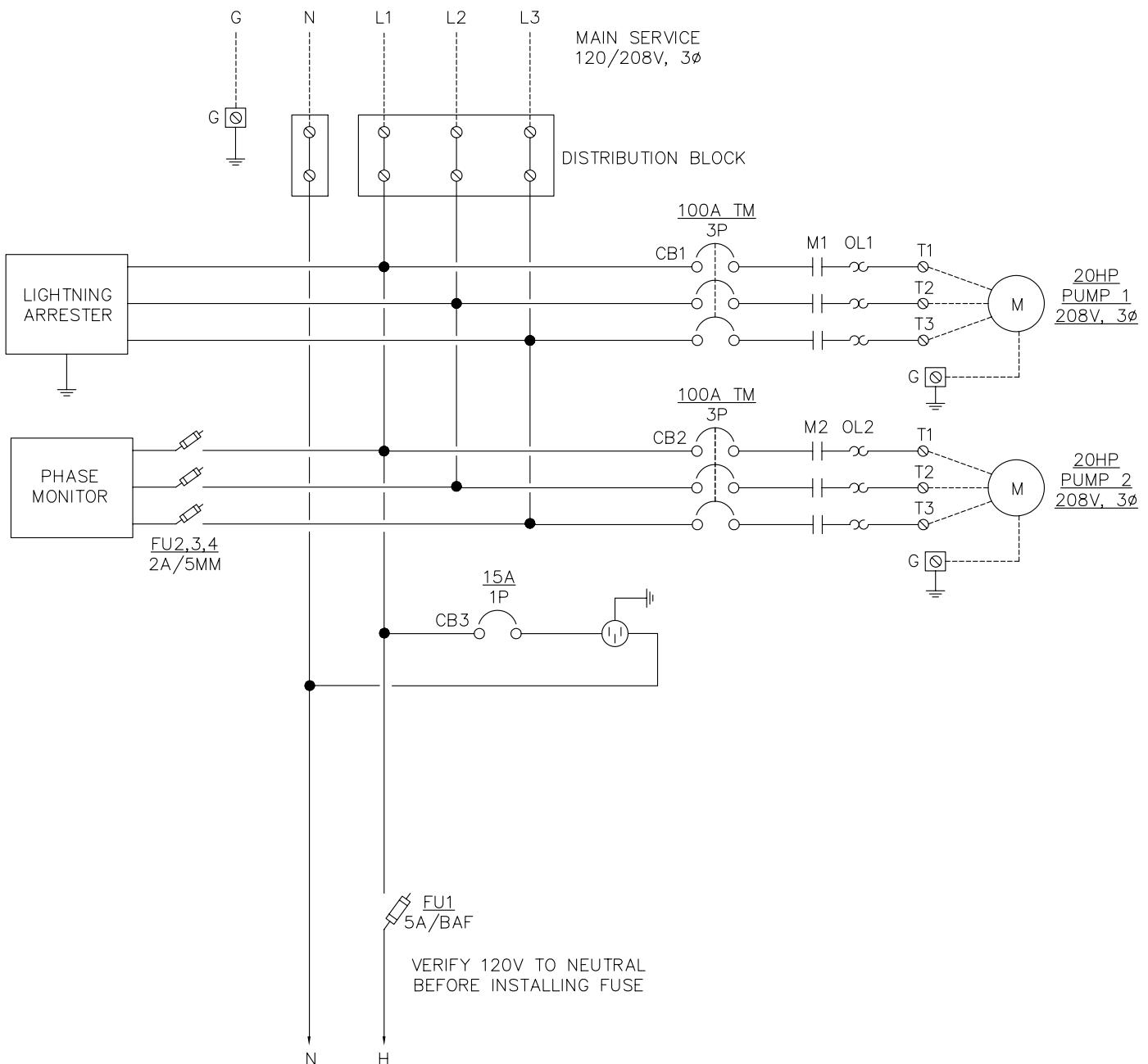
VOLTAGE	120/208V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	2	
HP	20	
FLA	62.1 (EST)	
TYPE OF PUMP	Self-Priming	(Self-Priming, Submersible)
MANUFACTURER	Gorman Rupp	
CATALOG NUMBER		
CONTROL VOLTAGE	120V	(120V, Other)
ENCLOSURE	NEMA 3R	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	Stainless Steel	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR	Float Switches	(Floats, Bubbler, Other)
CAPACITORS		(Yes, No)
CAPACITOR WIRING FIGURE		
THERM. & SEAL FAIL WIRING FIGURE	N/A	

## OPTIONS:

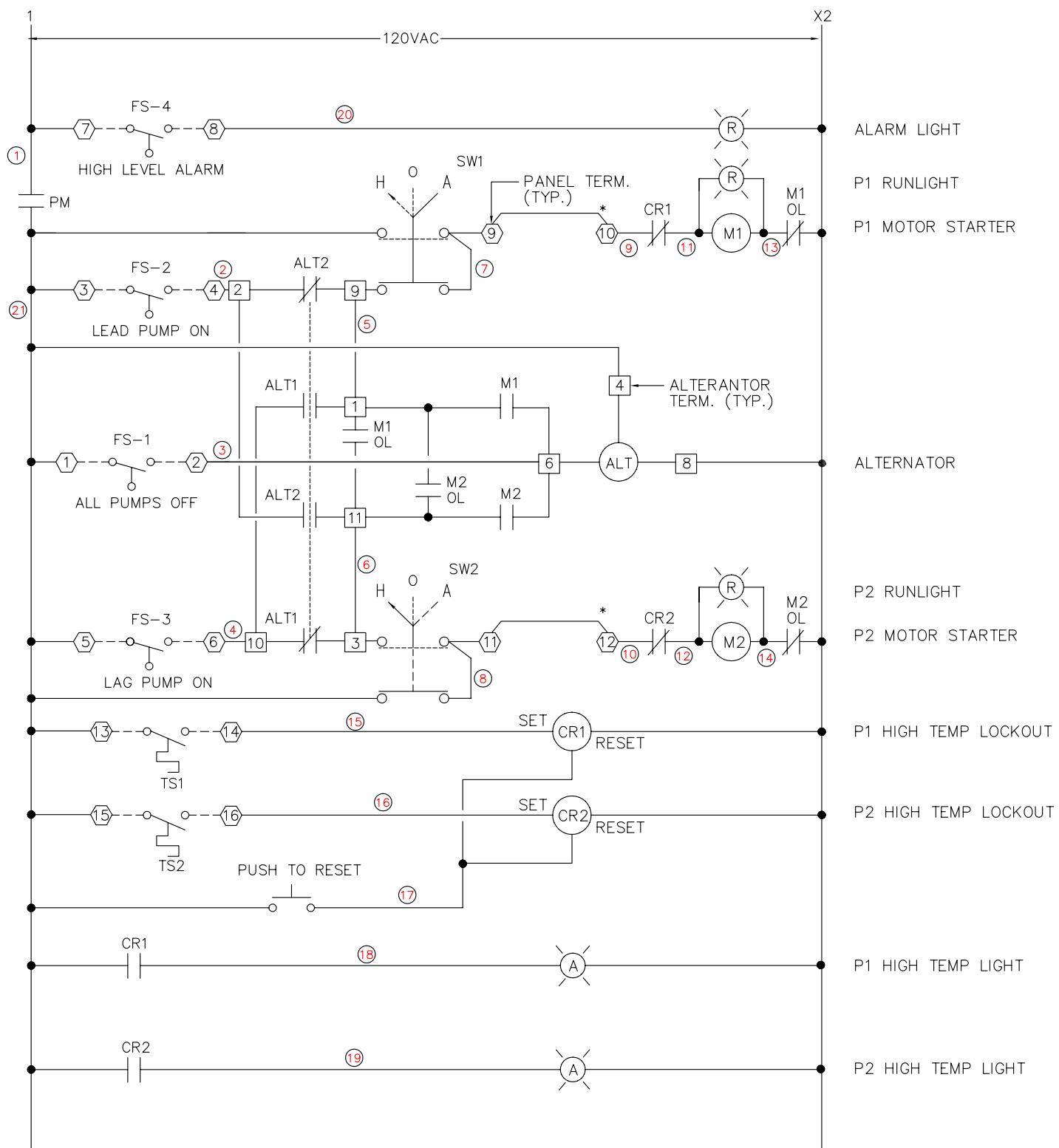
SEAL FAIL LIGHTS		(Submersible Only)
SEAL FAIL RELAYS		(Submersible Only)
SEAL FAIL PUMP SHUTDOWN		(Submersible Only)
HT PUMP SHUTDOWN	X	(Self-Primer, Submersible)
ALARM HORN		
ALARM LIGHT	X	
LIGHT PANEL MTD	X	
LIGHT REMOTE MTD		
LIGHT FLASHER		
LIGHTNING ARRESTER	X	
ELAPSED TIME METER	X	
PHASE MONITOR	X	
NEMA RATED STARTERS	X ABB	
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 Equipment, Inc. - Ruston, LA  
**TAG:** NATCHEZ

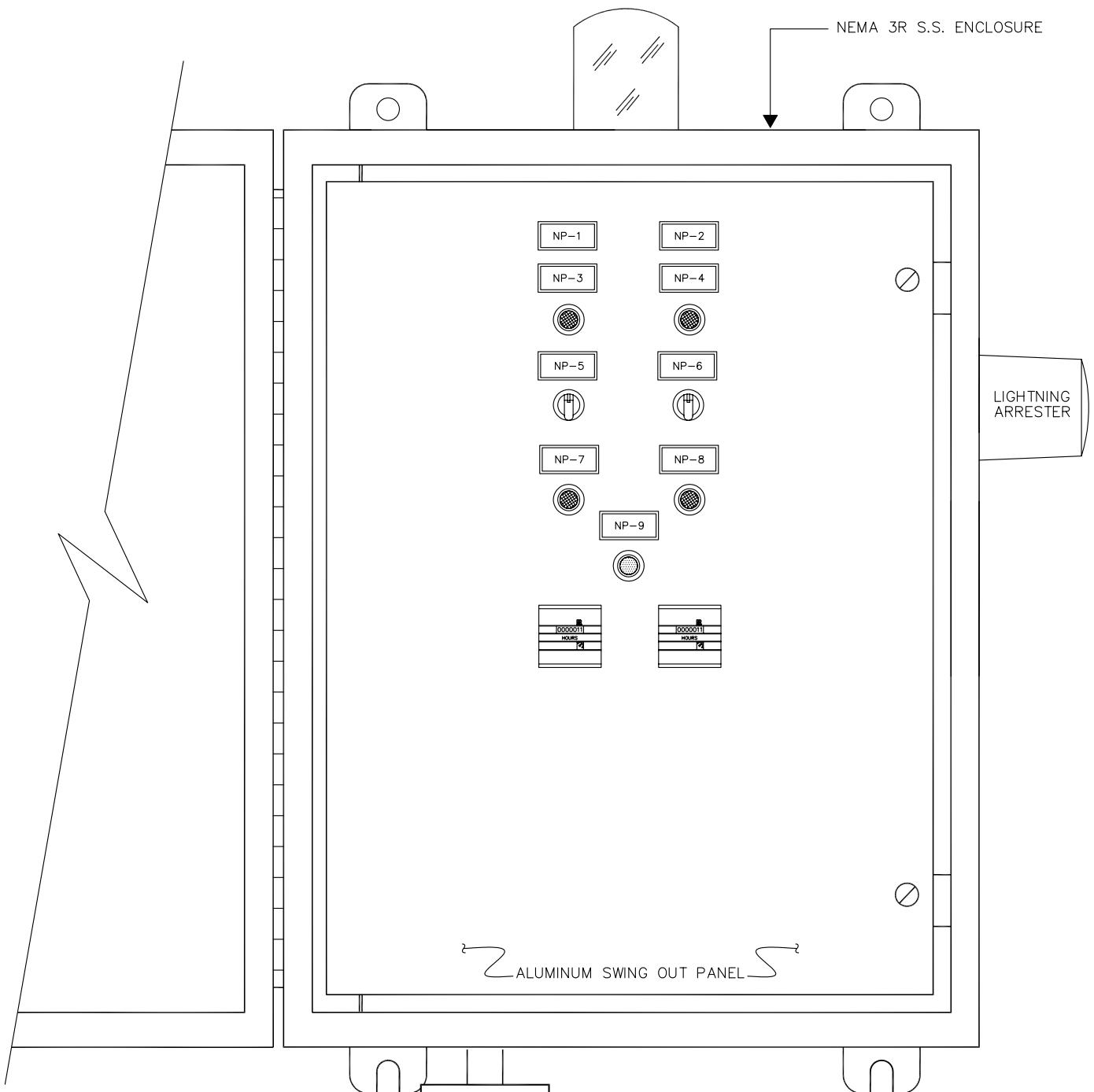
	Drawing Title  PANEL DESCRIPTION								
DATE 12/12/05		REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE	BY
		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL		APPROVED BY DATE		
	Project Title		<hr/> <hr/> <b>COX</b> <hr/> <hr/> Research and Technology, Inc. <hr/> <hr/>		P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER		
	DUPLEX PUMP CONTROL PANEL						DRAWING NUMBER CP-2214		
							SHEET NUMBER 1		



	Drawing Title					
	POWER DIAGRAM					
DATE 12/12/05		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY C. RACHAL	DATE APPROVED BY DATE
	Project Title				P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER
	DUPLEX PUMP CONTROL PANEL	COX Research and Technology, Inc.			Ph. (225)756-3271 Fax (225)755-1030	DRAWING NUMBER CP-2214
						SHEET NUMBER 2



	Drawing Title  CONTROL DIAGRAM						
		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
DATE 12/12/05		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL	APPROVED BY	DATE
	Project Title  DUPLEX PUMP CONTROL PANEL	<hr/> <hr/> <b>COX</b> <hr/> <hr/> 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-2214	
						SHEET NUMBER 3	



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	HIGH TEMP
NP-8	HIGH TEMP
NP-9	HIGH TEMP RESET

**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							
DATE 12/12/05	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY C. RACHAL	DATE APPROVED BY	BY	BY
Project Title  DUPLEX PUMP CONTROL PANEL	<hr/> <b>COX</b> <hr/> Research and Technology, Inc. <hr/>			P.O. Box 77808 Baton Rouge, LA 70809  Ph. (225)756-3271 Fax (225)755-1030	PURCHASE ORDER NUMBER  DRAWING NUMBER CP-2214  SHEET NUMBER 4		

# BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	C&I	C-302410SSRH	ENCLOSURE
1a	1	C&I	CI-3024P	BACKPLATE
1b	1	C&I	CI-3024SPA	SWING PANEL
2	2	ABB	A75N3-30-11-84	MOTOR STARTER
3	2	ABB	TA75DU80	O.L. RELAY (60-80A)
4	2	SQUARE D	QOU3100	CB1, CB2
5	1	TIMEMARK	261DT120	ALTERNATING RELAY
6	2	ACI	JR22FR	RED PILOT LIGHT
7	2	ACI	JR22P3M20B	HOA SWITCH
8	2	ACI	JR22FY	AMBER PILOT LIGHT
9	1	ACI	JR22AN11B	PUSH BUTTON
10	1	SQUARE D	QOU115	CB3
11	1	DELTA	LA603	LIGHTNING ARRESTER
12	1	SSAC	PLMU-11	PHASE MONITOR
13	2	REDINGTON	711-0190	ELAPSED TIME METER
14	2	MAGNECRAFT	W388AMLCPX-9	LATCHING RELAY CR1,2
15	1	STOCK		GFI
16	1	AC/DC	BL5-R-120	ALARM LIGHT
17				
18				
19				
20				
21				
22				
23				
24				
25				

Drawing Title  BILL OF MATERIALS								
	REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE	BY
DATE 12/12/05	S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED			
		C.C.	R.C.	BY C. RACHAL	BY	DATE		
Project Title  DUPLEX PUMP CONTROL PANEL	 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-2214				
	SHEET NUMBER			5				