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# COX

Research and Technology, Inc.

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DUPLEX SUBMERSIBLE PUMP  
CONTROL PANEL  
BARKER SUBDIVISION  
STATION #2

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

VOLTAGE	120/240V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	1/60	
NO. MOTORS	2	
HP	2.7	
FLA	11.9	
TYPE OF PUMP	Submersible	(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	Painted Steel	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR	Floats	(Floats, Bubbler, Other)
CAPACITORS	Yes	(Yes, No)
CAPACITOR WIRING FIGURE		
THERM. & SEAL FAIL WIRING FIGURE		

## OPTIONS:

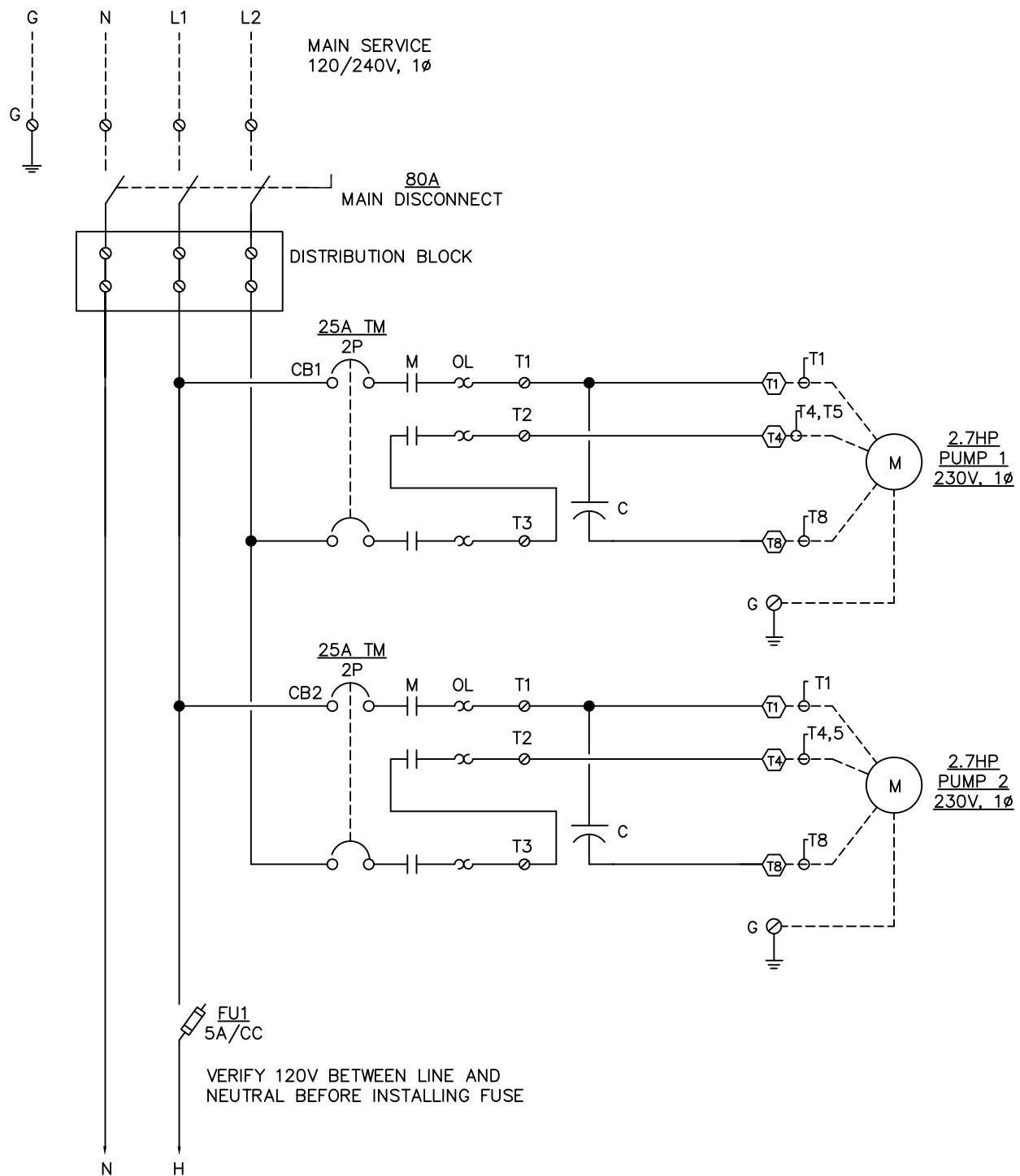
SEAL FAIL LIGHTS	<input type="checkbox"/>	(Submersible Only)
SEAL FAIL RELAYS	<input type="checkbox"/>	(Submersible Only)
SEAL FAIL PUMP SHUTDOWN	<input checked="" type="checkbox"/>	(Submersible Only)
HT PUMP SHUTDOWN	<input checked="" type="checkbox"/>	(Self-Primer, Submersible)
ALARM HORN	<input type="checkbox"/>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

SOLD TO: Delta Process - Bossier City, LA  
TAG : BARKER SUBDIVISION  
STATION #2

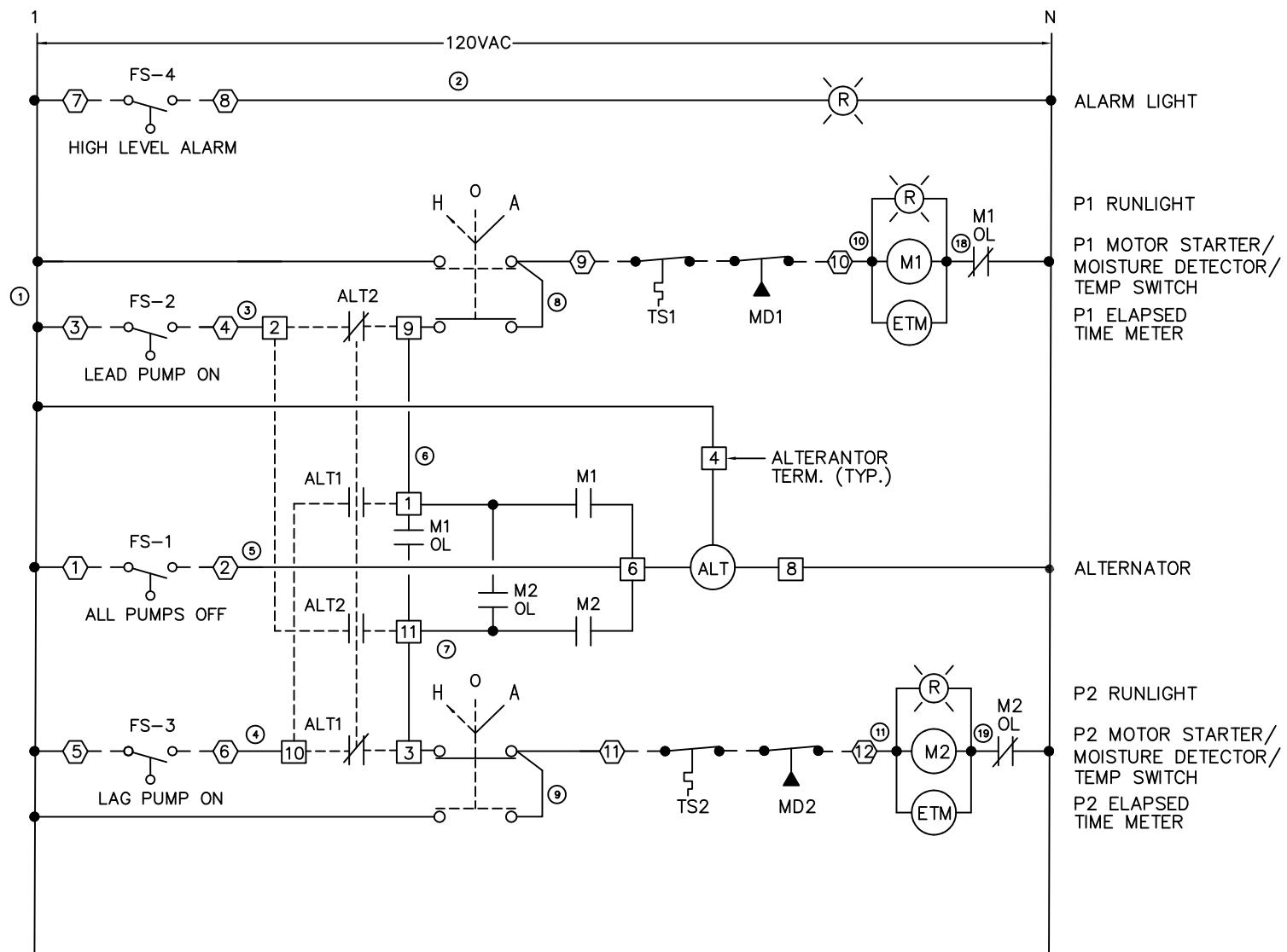
SHIP TO: Delta Process - Ruston, LA

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	Drawing Title  PANEL DESCRIPTION						
			1	ADDED CAPACITORS		6/23/04	RC
			1	CHANGED FROM 240 3Ø TO 240 1Ø		6/23/04	RC
		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 12/09/03	Project Title  DUPLEX PUMP CONTROL PANEL			P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER		
		COX Research and Technology, Inc.		Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1713		
					SHEET NUMBER 1		

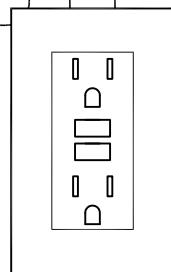
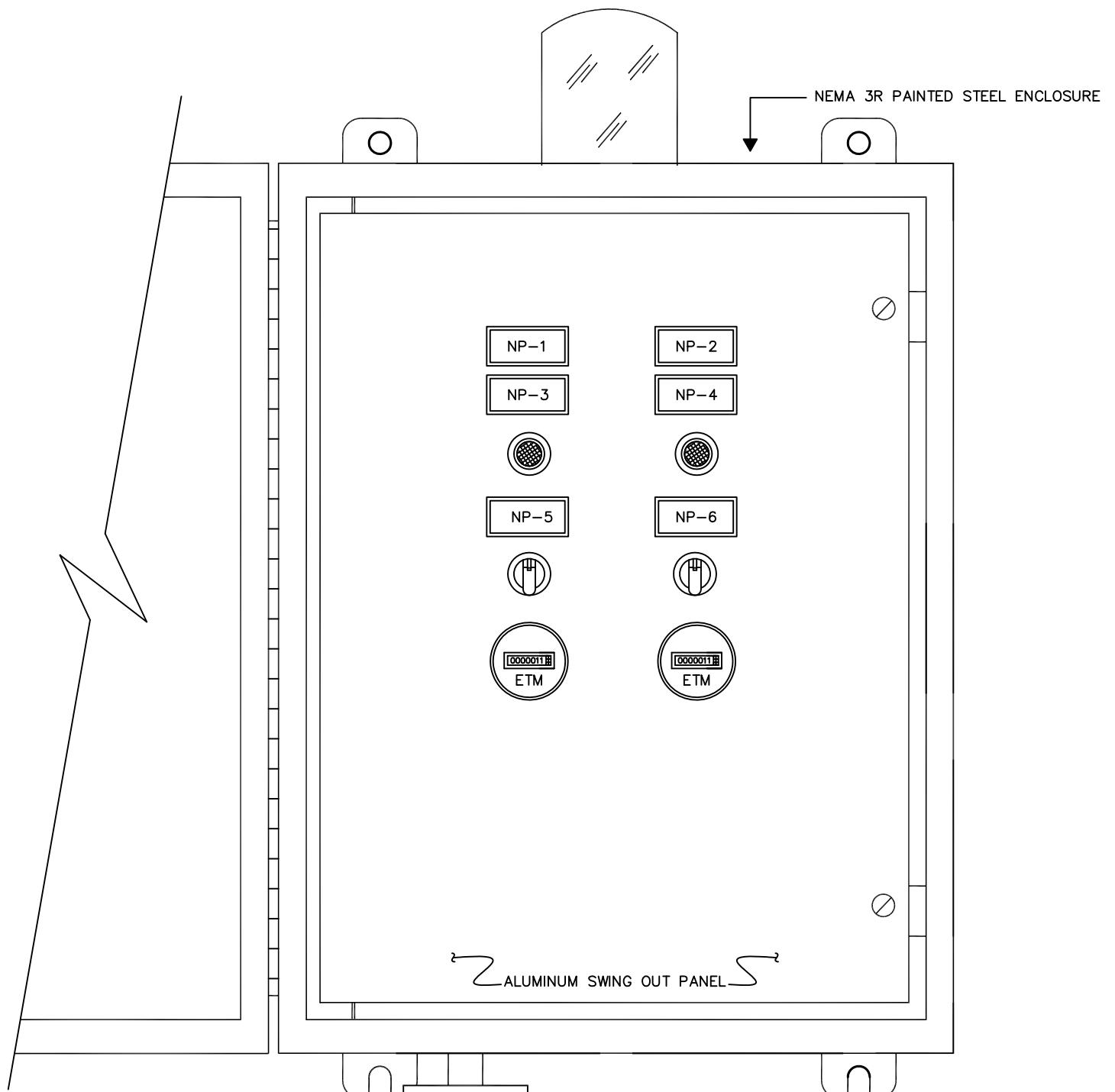


	Drawing Title  POWER DIAGRAM								
				1	ADDED CAPACITORS	6/23/04	RC		
				1	CHANGED FROM 240 3Ø TO 240 1Ø	6/23/04	RC		
DATE 12/09/03		REFERENCE DRAWING		NO.	REVISION-LOCATION	ECN	DATE BY		
	S/N	Sales Engineer	Application Engineer		DRAWN	APPROVED			
		C.C.	R.C.	BY C. RACHAL	BY	DATE			
	Project Title  CONTROL PANEL		<b>COX</b> Research and Technology, Inc. <hr/>		PURCHASE ORDER NUMBER				
					DRAWING NUMBER				
					CP-1713				
			SHEET NUMBER		2				



\* AUTOMATIC RESET OF HIGH TEMP AND SEAL FAILURE

	Drawing Title  CONTROL DIAGRAM						
			1	ADDED CAPACITORS		6/23/04	RC
			1	CHANGED FROM 240 3Ø TO 240 1Ø		6/23/04	RC
		REFERENCE DRAWING	NO.	REVISION-LOCATION		ECN	DATE BY
DATE 12/09/03	S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL	APPROVED BY	DATE	
	Project Title  CONTROL PANEL	<hr/> <hr/> <b>COX</b> <hr/> <hr/> Research and Technology, Inc. <hr/> <hr/>			P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER  DRAWING NUMBER  SHEET NUMBER	
					Ph. (225)756-3271 Fax (225)756-1030	CP-1713 3	



**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

DATE 12/09/03	Drawing Title <b>ENCLOSURE</b>					ECN	DATE	BY	
		1	ADDED CAPACITORS	1	CHANGED FROM 240 3Ø TO 240 1Ø				
		REFERENCE DRAWING		NO.	REVISION-LOCATION				
S/N	Sales Engineer	Application Engineer		DRAWN	BY C. RACHAL	BY	APPROVED	DATE	
C.C.		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)756-1030	PURCHASE ORDER NUMBER		
						DRAWING NUMBER		CP-1713	
						SHEET NUMBER		4	

## BILL OF MATERIAL

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	EBE	242010REPL	ENCLOSURE
1a	1	EBE	A2420P	BACKPLATE
1b	1	EBE	A2420SP	DEAD FRONT
2	1	ABB	OT63E3	MAIN DISC. SWITCH
3	2	ABB	A26N1-30-10-84	MOTOR STARTER
4	2	ABB	TA25DU14	O.L. RELAY (10-14A)
5	2	SQUARE D	QOU225	CB1, CB2
6	1	TIMEMARK	261DT120	ALTERNATING RELAY
7	2	ACI	JR22P3M20B	HOA SWITCH
8	2	ACI	JR22FR	RED LIGHT
9	1	AC/DC	BL5-R-120	ALARM LIGHT
10	2	GRASSLIN	UWZ52E	ETM
11	1	STOCK		GFI RECEPTACLE
12	1	SQUARE D	QOU115	CB 3
13				
14				
15				
16				
17				
18				
19				
20				
22				
23				
24				
25				

	Drawing Title							
	BILL OF MATERIALS		1	ADDED CAPACITORS		6/23/04	RC	
			1	CHANGED FROM 240 3Ø TO 240 1Ø		6/23/04	RC	
			REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
DATE 12/09/03			S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED	
		C.C.	R.C.	BY C. RACHAL	BY	DATE		
	Project Title		COX		PURCHASE ORDER NUMBER			
	CONTROL PANEL		Research and Technology, Inc.		DRAWING NUMBER CP-1713			
					SHEET NUMBER			
					5			