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# COX

Research and Technology, Inc.

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DUPLEX PUMP  
CONTROL PANEL  
LIFT STATION #3

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

VOLTAGE	277/480V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	2	
HP	40	
FLA	52	
TYPE OF PUMP	Self-Priming	(Self-Priming, Submersible)
MANUFACTURER	G-R	
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	No	(Yes, No)
CAPACITOR WIRING FIGURE	N/A	
THERM. & SEAL FAIL WIRING FIGURE		

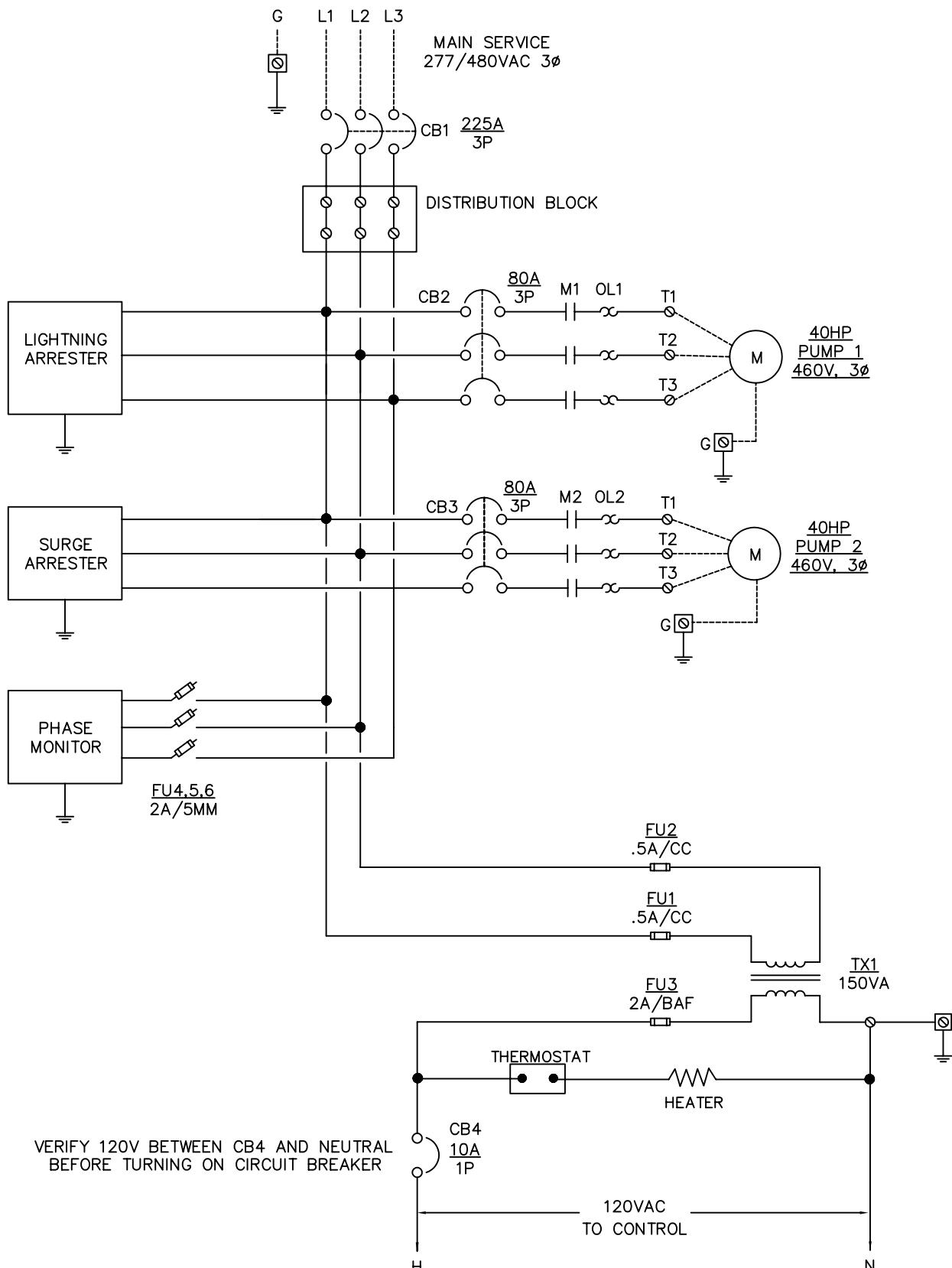
OPTIONS:

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	_____	
LIGHT PANEL MTD	_____	
LIGHT REMOTE MTD	X	
LIGHT FLASHER	_____	
LIGHTNING ARRESTER	X	
ELAPSED TIME METER	X	
PHASE MONITOR	X	
NEMA RATED STARTERS	X	
GROUND FAULT RECPT.	_____	
GREEN RUN LIGHTS VS. RED	_____	
POLE, BOX, SEAL	_____	
INTRINSICALLY SAFE RELAYS	_____	
HIGH TEMP. LOCKOUT, MANUAL RESET	X	
ECONOMY VERSION	_____	

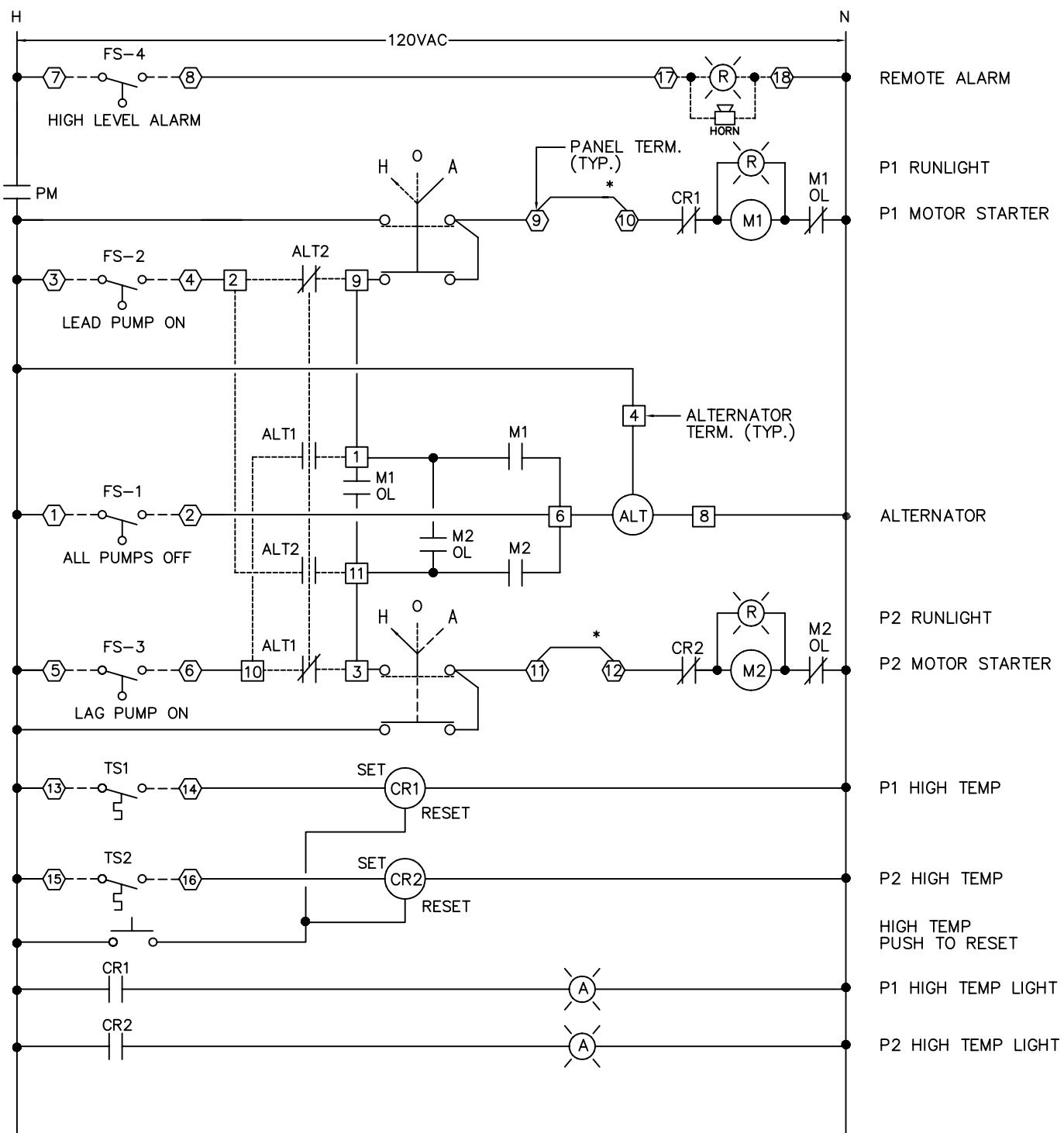
SOLD TO: Delta Process - Ruston, LA  
TAG : Lift Station #3

SHIP TO: Delta Process - Ruston, LA

Drawing Title	PANEL DESCRIPTION	REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE	BY
		S/N	Sales Engineer	Application Engineer	DRAWN	BY	APPROVED	BY	DATE
DATE 12/09/05	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-2240					
				SHEET NUMBER 1					

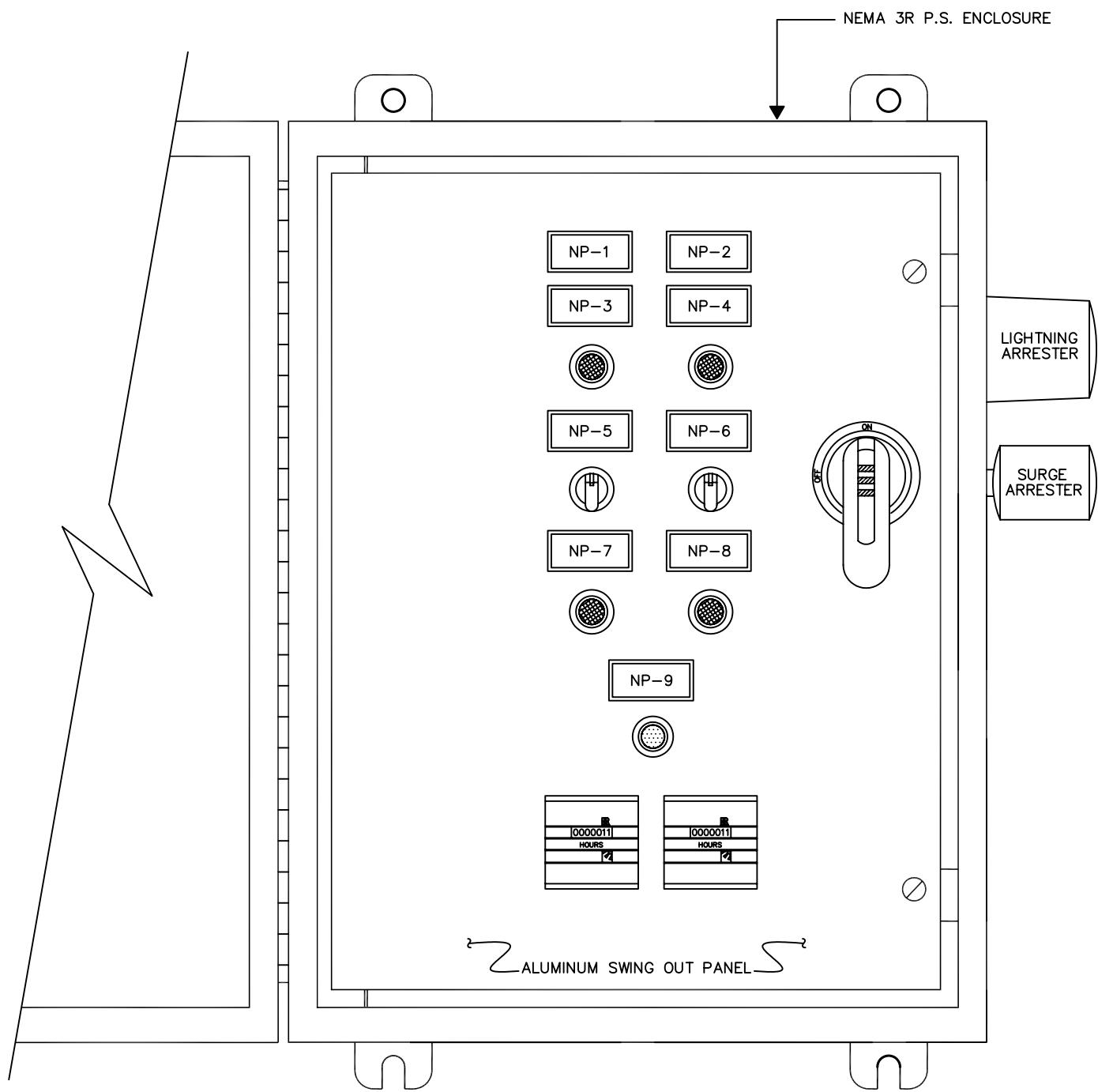


	Drawing Title  POWER DIAGRAM				
		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY C. RACHAL DATE APPROVED BY DATE
DATE 12/09/05	Project Title  DUPLEX PUMP CONTROL PANEL	COX Research and Technology, Inc.		P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)755-1030	PURCHASE ORDER NUMBER  DRAWING NUMBER CP-2240 SHEET NUMBER 2



\* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

	Drawing Title  <b>CONTROL DIAGRAM</b>  DATE 12/09/05						
		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  <b>DUPLEX PUMP CONTROL PANEL</b>	<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-2240	
						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 12/09/05		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.		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-2240		
							SHEET NUMBER 4		

## BILL OF MATERIAL

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	C & I	C-242010RHPL	ENCLOSURE
1a	1	C & I	CI-24P20	BACKPLATE
1b	1	C & I	CI-2420SPA	DEAD FRONT
2	2	ABB	A75N3-30-11-84	MOTOR STARTER
3	2	ABB	TA75DU63	O.L. RELAY (45-63A)
4	2	ABB	T1N080TL	CB2, CB3
5	2	ACI	JR22FR	RED PILOT LIGHT
6	2	ACI	JR22P3M20B	HOA SWITCH
7	1	ABB	S3H225DW	CB1
8	1	ABB	T4150PSF1	TRANSFORMER
9	1	SSAC	PLMU-11	PHASE MONITOR
10	1	MARATHON	1323580	DISTRIBUTION BLOCK
11	2	ACI	JR22FY	AMBER PILOT LIGHT
12	1	ACI	JR22AN11B	PUSH BUTTON
13	2	MAGNECRAFT	W388AMLCPX-9	LATCHING RELAYS
14	1	TIMEMARK	261DT120	ALTERNATING RELAY
15	1	DELTA	CA603R	SURGE CAPACITOR
16	1	SQUARE D	QOU110	CB4
17	1	DELTA	LA603	LIGHTNING ARRESTER
18	2	REDINGTON	711-0190	ELAPSED TIME METER
19	1	DAYTON	4BA54	HEATER
20	1	SAGINAW	SCE-TEMNC	THERMOSTAT
21	1	ABB	K5VDM	MECHANICAL OPERATOR
22	1	ABB	OXP10X225	SHAFT
23	1	ABB	OHB65J10	HANDLE
24				
25				

	Drawing Title							
	BILL OF MATERIALS							
			REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
DATE 12/09/05			S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED	
		C.C.	R.C.	BY C.RACHAL	BY	DATE		
	Project Title	COX			PURCHASE ORDER NUMBER			
	DUPLEX PUMP CONTROL PANEL	Research and Technology, Inc.			DRAWING NUMBER CP-2240			
					SHEET NUMBER 5			