

---

---

# COX

Research and Technology, Inc.

---

---

DUPLEX PUMP  
CONTROL PANEL  
LAKEWOOD UNIT #6

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

CP-2153

VOLTAGE	120/240V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	2	
HP	15	
FLA	38	
TYPE OF PUMP	Submersible	(Self-Priming, Submersible)
MANUFACTURER	BARNES	
CATALOG NUMBER	4SE1504L	

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	X	(Submersible Only)
SEAL FAIL RELAYS	X	(Submersible Only)
SEAL FAIL PUMP SHUTDOWN		(Submersible Only)
HT PUMP SHUTDOWN	X	(Self-Primer, Submersible)
ALARM HORN		
ALARM LIGHT	X	
LIGHT PANEL MTD	X STROBE ON SIDE	
LIGHT REMOTE MTD		
LIGHT FLASHER	X	
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		
ECONOMY VERSION		

SOLD TO: Delta Process - Bossier City, LA

TAG : LAKEWOOD UNIT #6

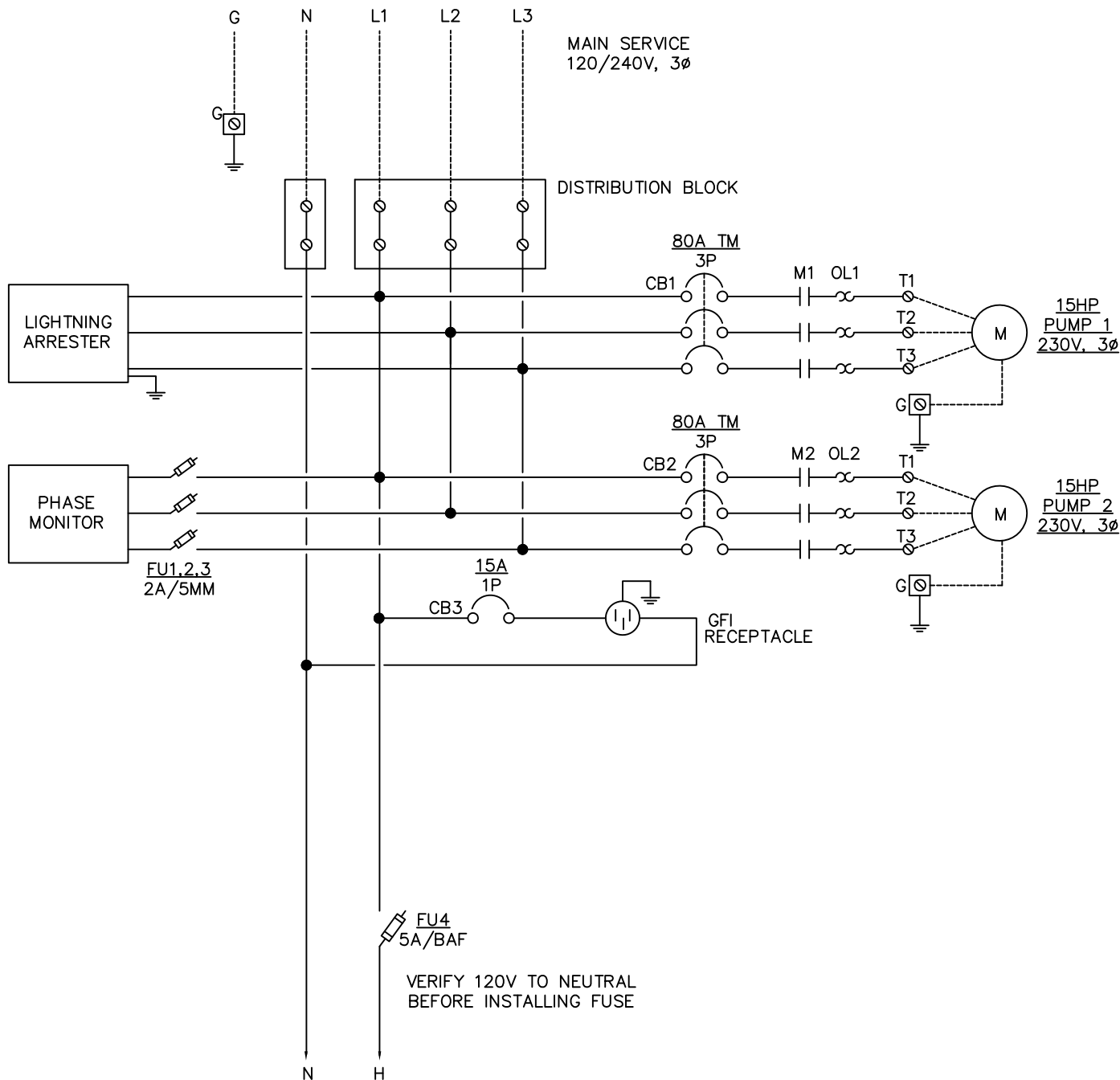
\_\_\_\_\_

SHIP TO: Delta Process - Ruston, LA

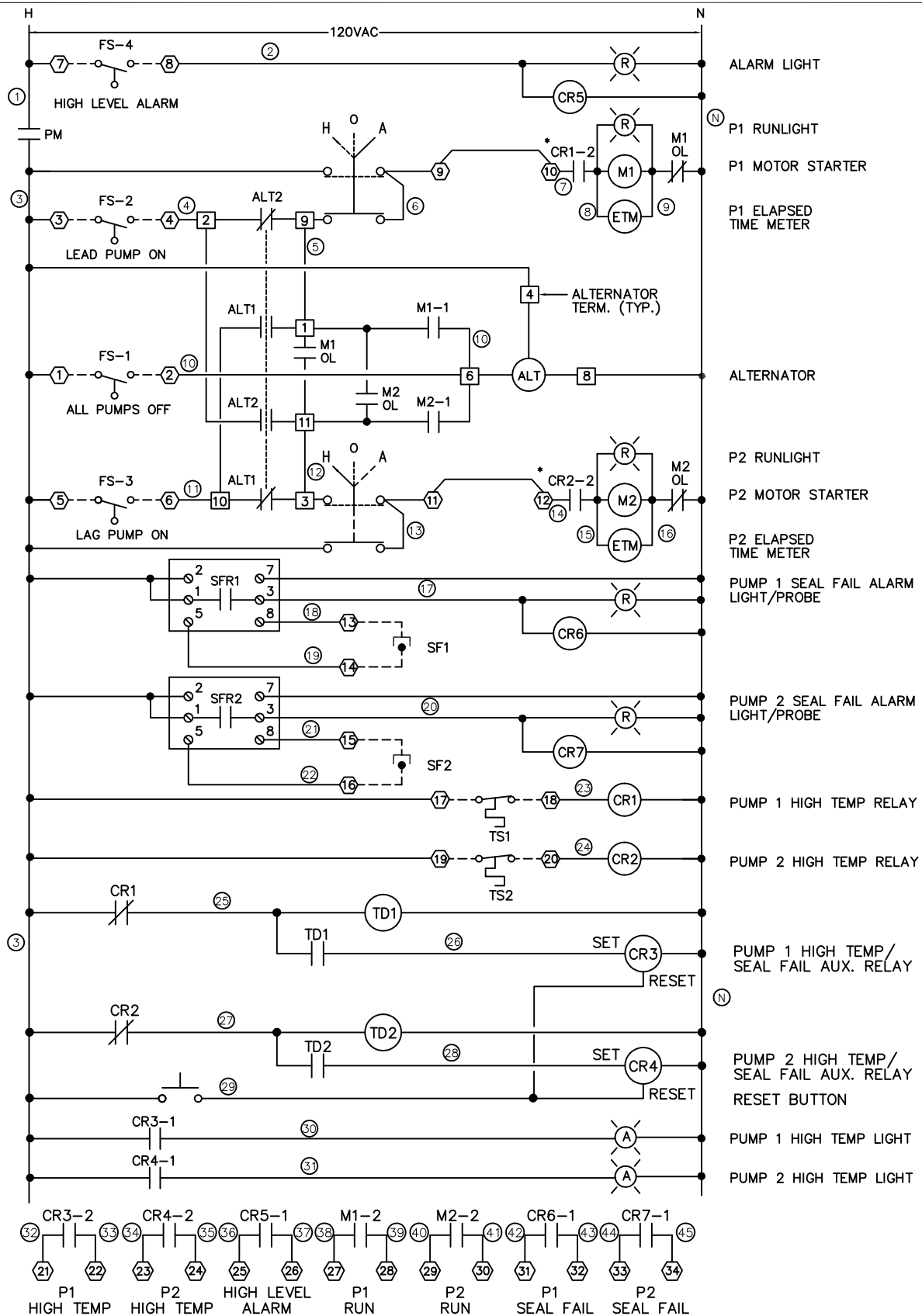
\_\_\_\_\_

\_\_\_\_\_

	Drawing Title							
	PANEL DESCRIPTION							
DATE 9/15/05			REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	ECN	DATE
	Project Title		<div style="text-align: center;"> <b>COX</b>  Research and Technology, Inc. </div>			P.O. Box 77808 Baton Rouge, LA 70809  Ph. (225)756-3271 Fax (225)756-1030		PURCHASE ORDER NUMBER  DRAWING NUMBER CP-2153 SHEET NUMBER 1
	DUPLUX PUMP CONTROL PANEL							

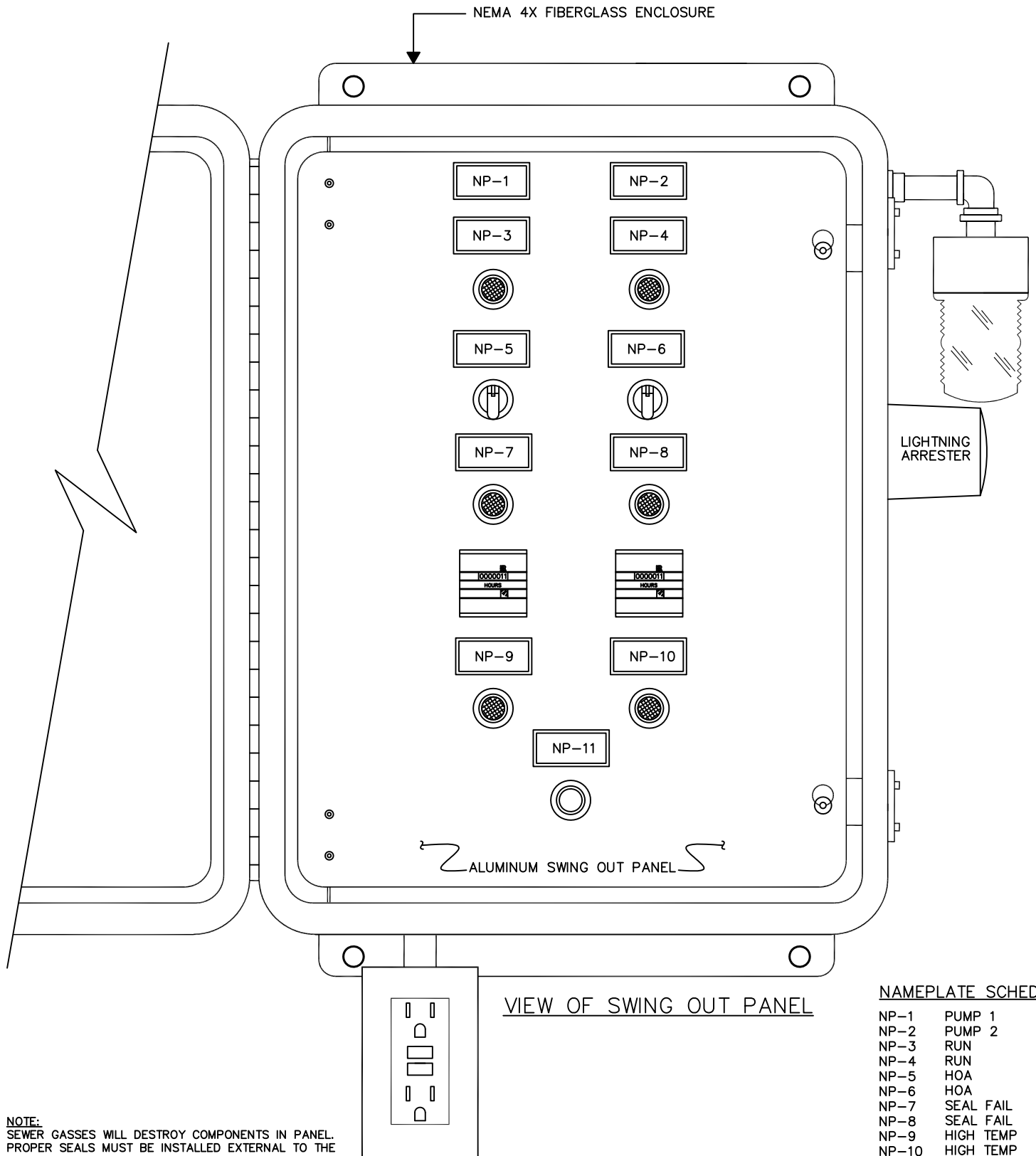


	Drawing Title							
	POWER DIAGRAM							
DATE		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY	
9/15/05		S/N	Sales Engineer C.C.	Application Engineer R.C.	BY C. RACHAL	APPROVED		
	Project Title				PURCHASE ORDER NUMBER			
	DUPLEX PUMP CONTROL PANEL	<div>COX</div> <div>Research and Technology, Inc.</div>			P.O. Box 77808 Baton Rouge, LA 70809	DRAWING NUMBER CP-2153		
		Ph. (225)756-3271 Fax (225)756-1030			SHEET NUMBER			2



\* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

Drawing Title	CONTROL DIAGRAM					
DATE 9/15/05	Project Title	COX Research and Technology, Inc.				PURCHASE ORDER NUMBER
		P.O. Box 77808 Baton Rouge, LA 70809				DRAWING NUMBER CP-2153
		Ph. (225)756-3271 Fax (225)756-1030				SHEET NUMBER 3
		REFERENCE DRAWING				ECN
		NO.				DATE
		REVISION-LOCATION				BY
		DRAWN				APPROVED
		BY C. RACHAL				DATE



#### NAMEPLATE SCHEDULE

NP-1	PUMP 1
NP-2	PUMP 2
NP-3	RUN
NP-4	RUN
NP-5	HOA
NP-6	HOA
NP-7	SEAL FAIL
NP-8	SEAL FAIL
NP-9	HIGH TEMP
NP-10	HIGH TEMP
NP-11	HIGH TEMP RESET

Drawing Title	ENCLOSURE		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
DATE 9/15/05			S/N	Sales Engineer C.C.	Application Engineer R.C.	BY C. RACHAL	APPROVED	
Project Title	DUPLEX PUMP CONTROL PANEL		COX			P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER	
			Research and Technology, Inc.			Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-2153	
							SHEET NUMBER 4	

## BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	ALLIED	AM24200RL/DF	ENCLOSURE
1a	1	ALLIED	MP2420P	BACKPLATE
2	2	CUTLER HAMMER	CE15HNS3AB	MOTOR STARTER
3	2	CUTLER HAMMER	C316KNA3C	O.L. RELAY (29-42A)
4	2	SQUARE D	QOU380	CB1, CB2
5	1	TIMEMARK	261DT120	ALTERNATING RELAY
6	4	ACI	JR22FR	RED PILOT LIGHT
7	2	ACI	JR22P3M20B	HOA SWITCH
8	1	TOMAR	490S-120R	STROBE
9	1	MARATHON	1323580	DISTRIBUTION BLOCK
10	1	SSAC	PLMU-11	PHASE MONITOR
11	2	REDINGTON	711-0190	ELAPSED TIME METER
12	1	SQUARE D	QOU115	CB3
13	1	STOCK		GFI
14	2	SSAC	LLC54AA	SEAL FAIL RELAY
15	1	DELTA	LA603	LIGHTNING ARRESTER
16	2	ACI	JR22FY	AMBER PILOT LIGHT
17	5	IDEC	RY2SUAC120V	CR1,2,5,6,7
18	2	CUTLER HAMMER	C320KGS3	AUXILIARY CONTACTS
19	2	OMRON	4KN15	TIME DELAY
20	2	MAGNECRAFT	W388AMLCPX-9	LATCHING RELAY
21	1	ACI	JR22AN11B	PUSH BUTTON
22	1	MARATHON	1321580	NEUTRAL BLOCK
23				
24				
25				

	Drawing Title							
	<b>BILL OF MATERIALS</b>							
DATE 9/15/05		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN	DATE	BY	
	Project Title	<div style="border: 1px solid black; padding: 5px; margin: 0 auto; width: 150px;"> <b>COX</b>  <small>Research and Technology, Inc.</small> </div>			P.O. Box 77808 Baton Rouge, LA 70809  Ph. (225)756-3271 Fax (225)756-1030		PURCHASE ORDER NUMBER  DRAWING NUMBER CP-2153 SHEET NUMBER 5	
	DUPLEX PUMP CONTROL PANEL							