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# COX

Research and Technology, Inc.

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DUPLEX PUMP  
CONTROL PANEL  
SIMSBORO  
LIFT STATIONS 5,7

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

CP-2253

VOLTAGE	120/240V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	1/60	
NO. MOTORS	2	
HP	2	
FLA	15	
TYPE OF PUMP	Submersible	(Self-Priming, Submersible)
MANUFACTURER	Barnes	
CATALOG NUMBER		
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	Yes	(Yes, No)
CAPACITOR WIRING FIGURE		
THERM. & SEAL FAIL WIRING FIGURE		

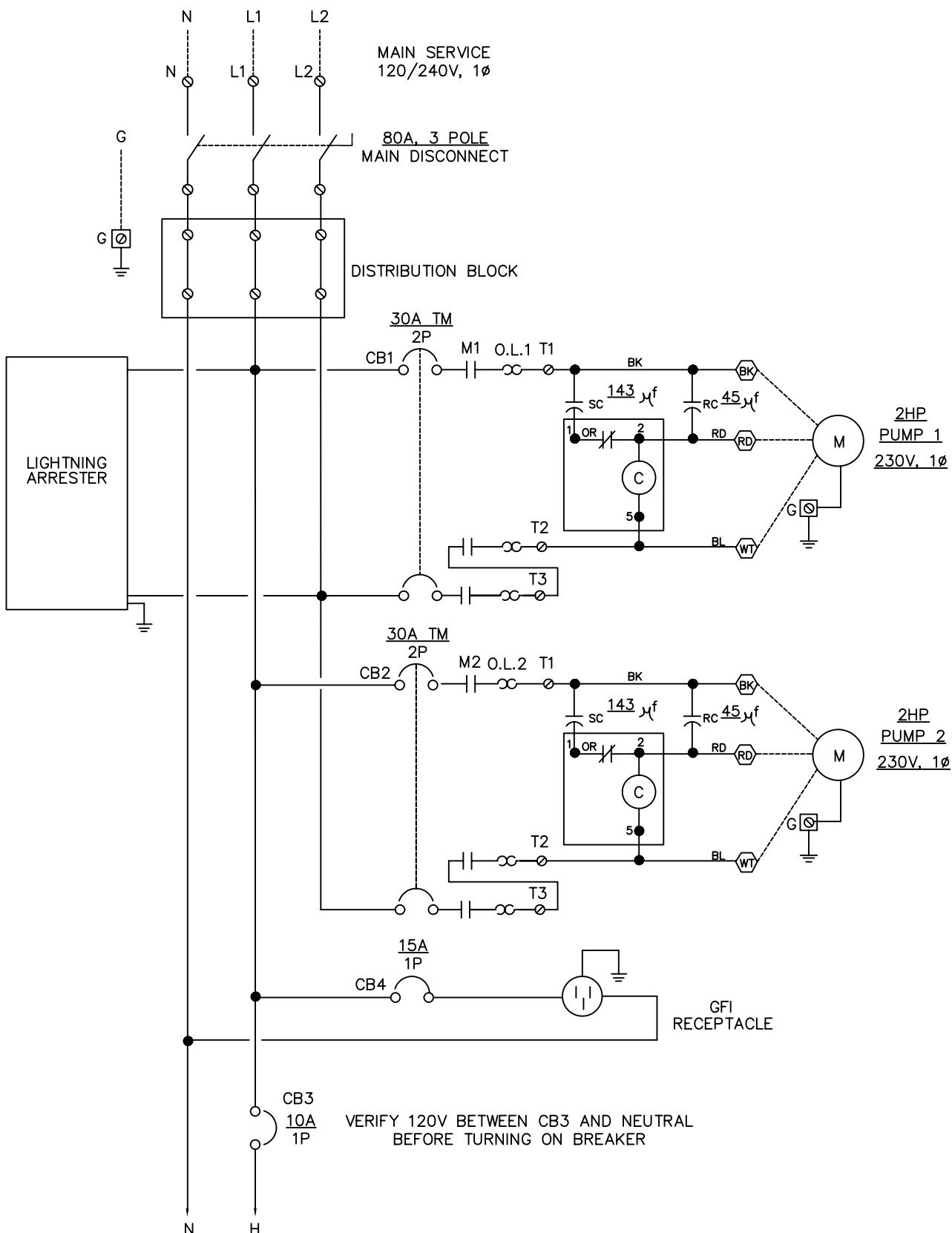
OPTIONS:

SEAL FAIL LIGHTS	X	(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		
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		
ECONOMY VERSION		

SOLD TO: Delta Process - Ruston, LA  
TAG : Simsboro Lift Stations 5,7

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	APPROVED			
		C.C.	R.C.	BY C. RACHAL	BY	DATE		
Project Title							PURCHASE ORDER NUMBER	
							DRAWING NUMBER	
							CP-2253	
DUPLEX PUMP CONTROL PANEL							SHEET NUMBER	
							1	



Drawing Title

**POWER DIAGRAM**DATE  
12/30/05

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**

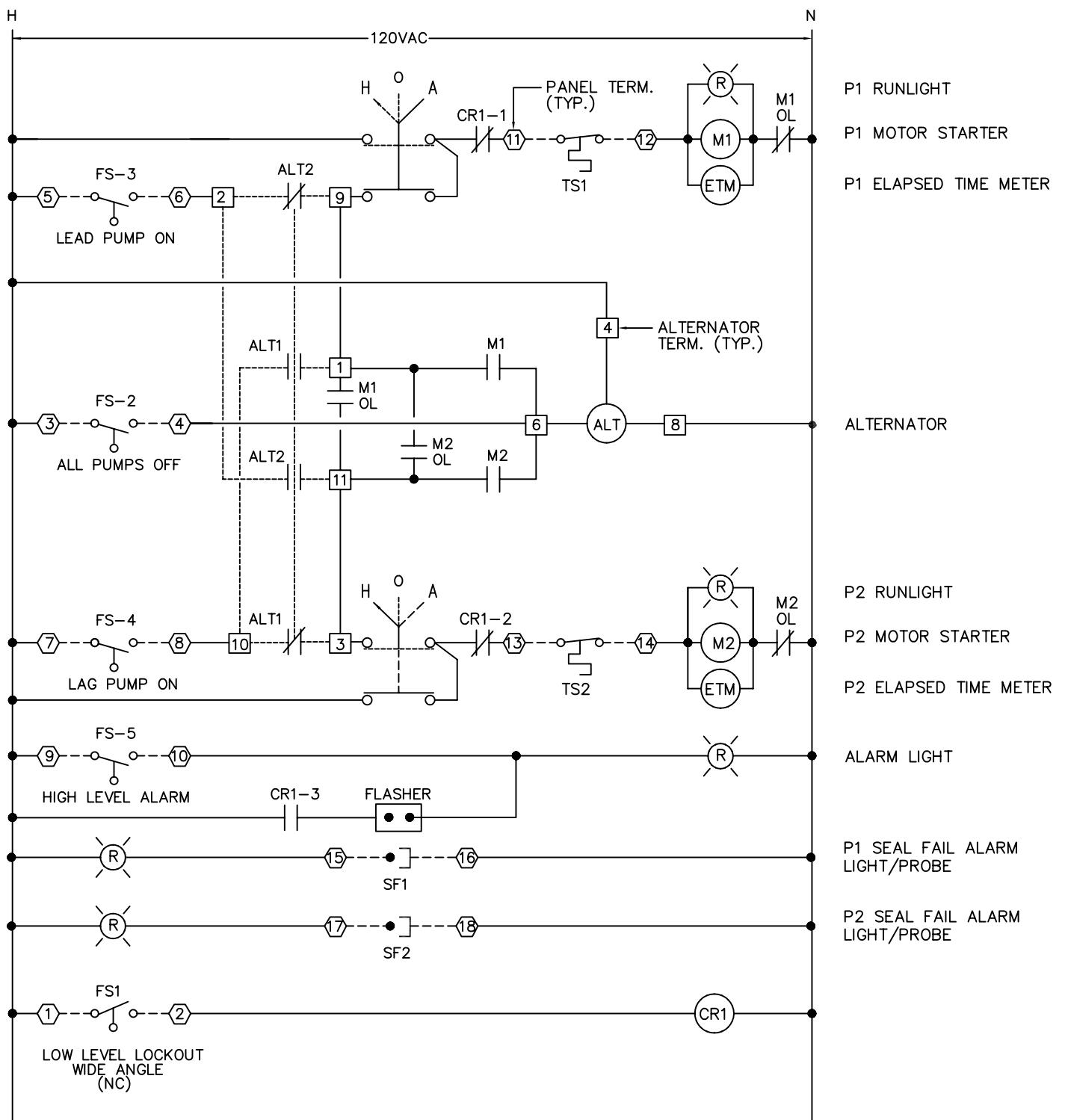
Research and Technology, Inc.

P.O. Box 77808  
Baton Rouge, LA  
70809Ph. (225)756-3271  
Fax (225)755-1030

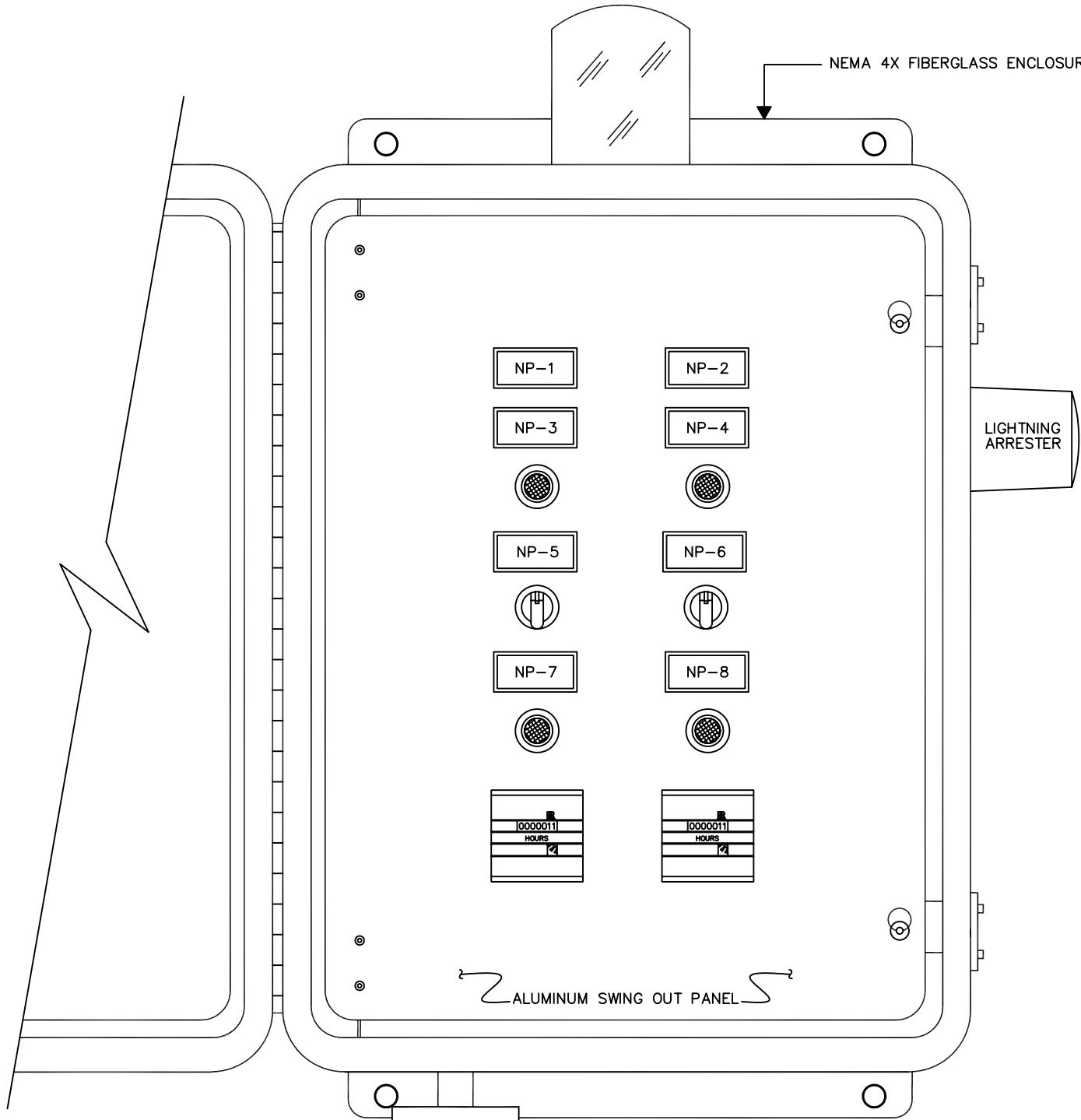
PURCHASE ORDER NUMBER

DRAWING NUMBER CP-2253

SHEET NUMBER



	Drawing Title  CONTROL DIAGRAM				
DATE 12/30/05		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN Application Engineer R.C.	ECN APPROVED DATE BY
	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-2253 SHEET NUMBER 3	



VIEW OF SWING 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	SEAL FAIL
NP-8	SEAL FAIL

**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							
			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	<u>COX</u> 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-2253				
				SHEET NUMBER 4				

# BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	STAHLIN	RJ1816HPLDF	ENCLOSURE
1a	1	STAHLIN	BP1816AL	BACKPLATE
2	1	MARATHON	1323580	DISTRIBUTION BLOCK
3	2	ABB	A16-30-10-84	MOTOR STARTER
4	2	ABB	TA25DU19	O.L. RELAY (13-19A)
5	2	SQUARE D	QOU230	CB1, CB2
6	1	TIMEMARK	261DT120	ALTERNATING RELAY
7	4	ACI	JR22FR	RED PILOT LIGHT
8	2	ACI	JR22P3M20B	HOA SWITCH
9	1	AC/DC	BL5-R120	ALARM LIGHT
10	2	CGE	4CU54	START CAPACITOR $143\mu F$
11	2	CGE	5X434	RUN CAPACITOR $45\mu F$
12	2	GE	6X559	START RELAY
13	2	REDINGTON	711-0190	ELAPSED TIME METER
14	1	DELTA	LA302R	LIGHTNING ARRESTER
15	1	STOCK		GFI RECEPTACLE
16	1	SQUARE D	QOU110	CB3
17	1	SQUARE D	QOU115	CB4
18	1	SSAC	FS126RC	FLASHER
19	1	IDECA	RU4	CR1
20	1	ABB	OT63E3	DISCONNECT SWITCH
21				
22				
23				
24				
25				

Drawing Title	BILL OF MATERIALS							
DATE 12/30/05	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  DUPLEX PUMP CONTROL PANEL	 Research and Technology, Inc. <hr/> <hr/>				P.O. Box 77808 Baton Rouge, LA 70809  Ph. (225)756-3271 Fax (225)755-1030	PURCHASE ORDER NUMBER		
				DRAWING NUMBER				
				CP-2253				
				SHEET NUMBER				
							5	