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# COX

Research and Technology, Inc.

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DUPLEX PUMP  
CONTROL PANEL  
TURNAGE ENVIRONMENTAL

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

CP-1652

VOLTAGE	120/240V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	2	
HP	30	
FLA	68.8	
TYPE OF PUMP	Self-Priming	(Self-Priming, Submersible)
MANUFACTURER	Gorman Rupp	
CATALOG NUMBER		

CONTROL VOLTAGE	120V	(120V, Other)
ENCLOSURE	3R	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	Stainless Steel	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR	Bubbler	(Floats, Bubbler, Other)
CAPACITORS	No	(Yes, No)
CAPACITOR WIRING FIGURE		
THERM. & SEAL FAIL WIRING FIGURE		

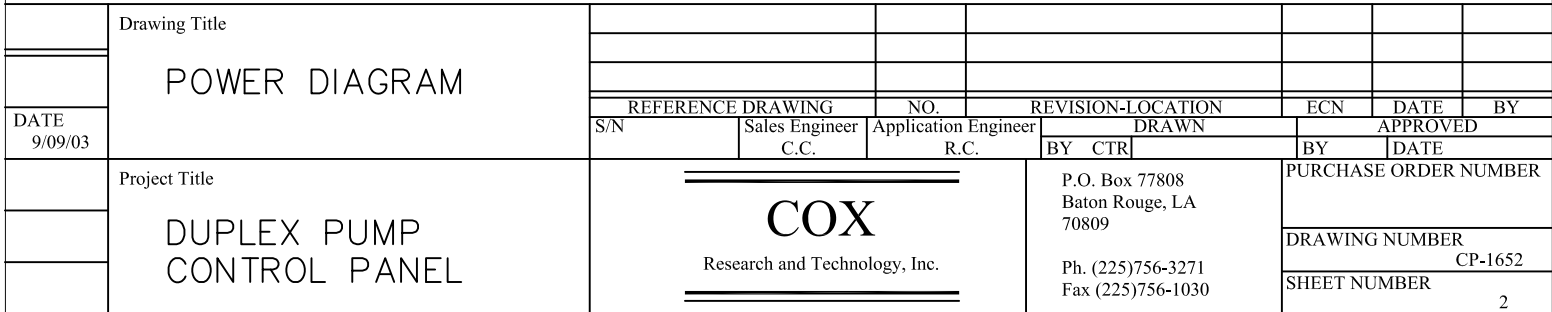
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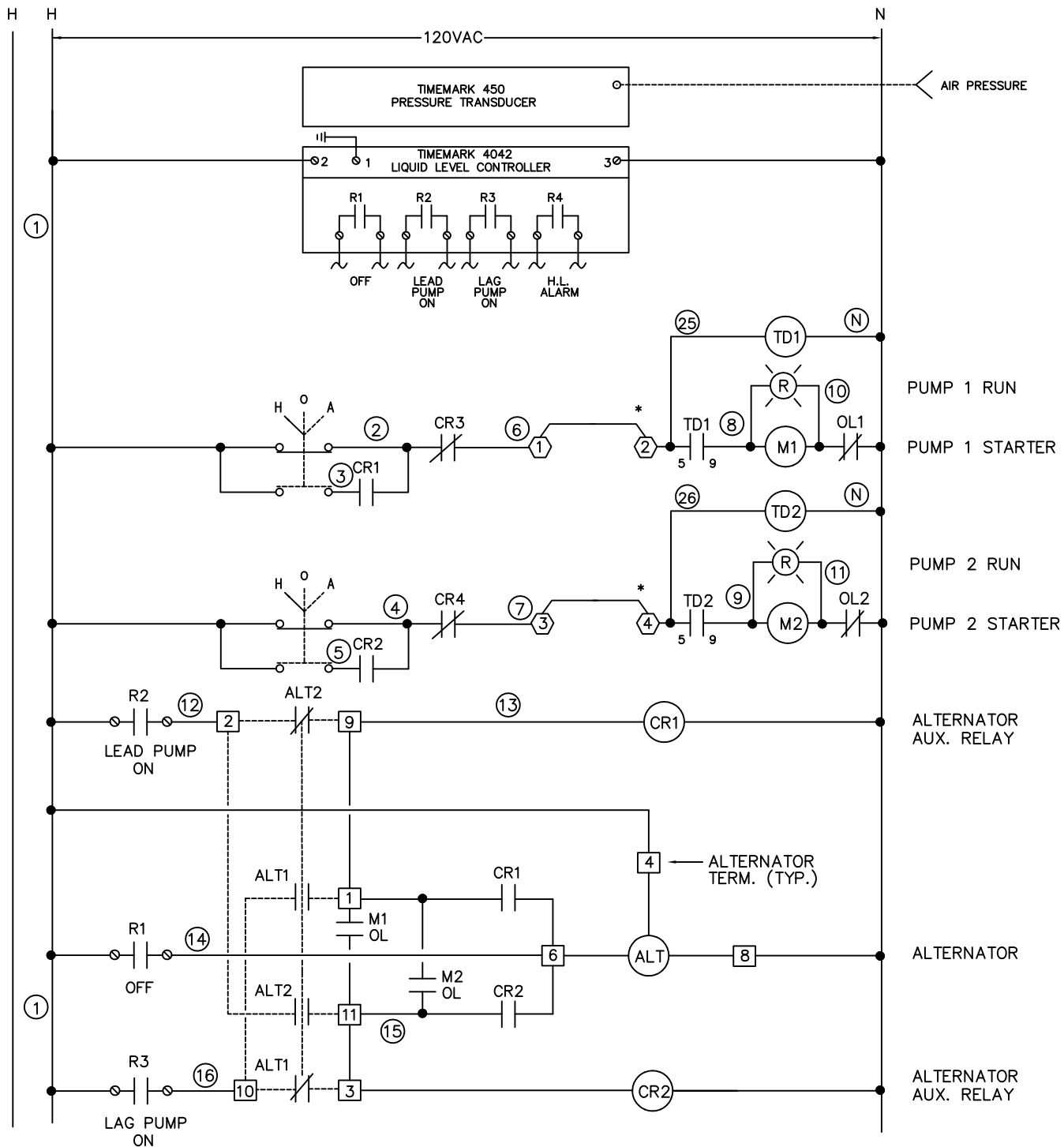
SEAL FAIL LIGHTS		(Submersible Only)
SEAL FAIL RELAYS		(Submersible Only)
SEAL FAIL PUMP SHUTDOWN		(Submersible Only)
HT PUMP SHUTDOWN	X	(Self-Primer, Submersible)
ALARM HORN		
ALARM LIGHT	X	
LIGHT PANEL MTD	X	
LIGHT REMOTE MTD		
LIGHT FLASHER		
LIGHTNING ARRESTER	X	
ELAPSED TIME METER		
PHASE MONITOR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

SOLD TO:	Delta Process - Ruston, LA
TAG :	Turnage Environmental

SHIP TO:	Delta Process - Ruston

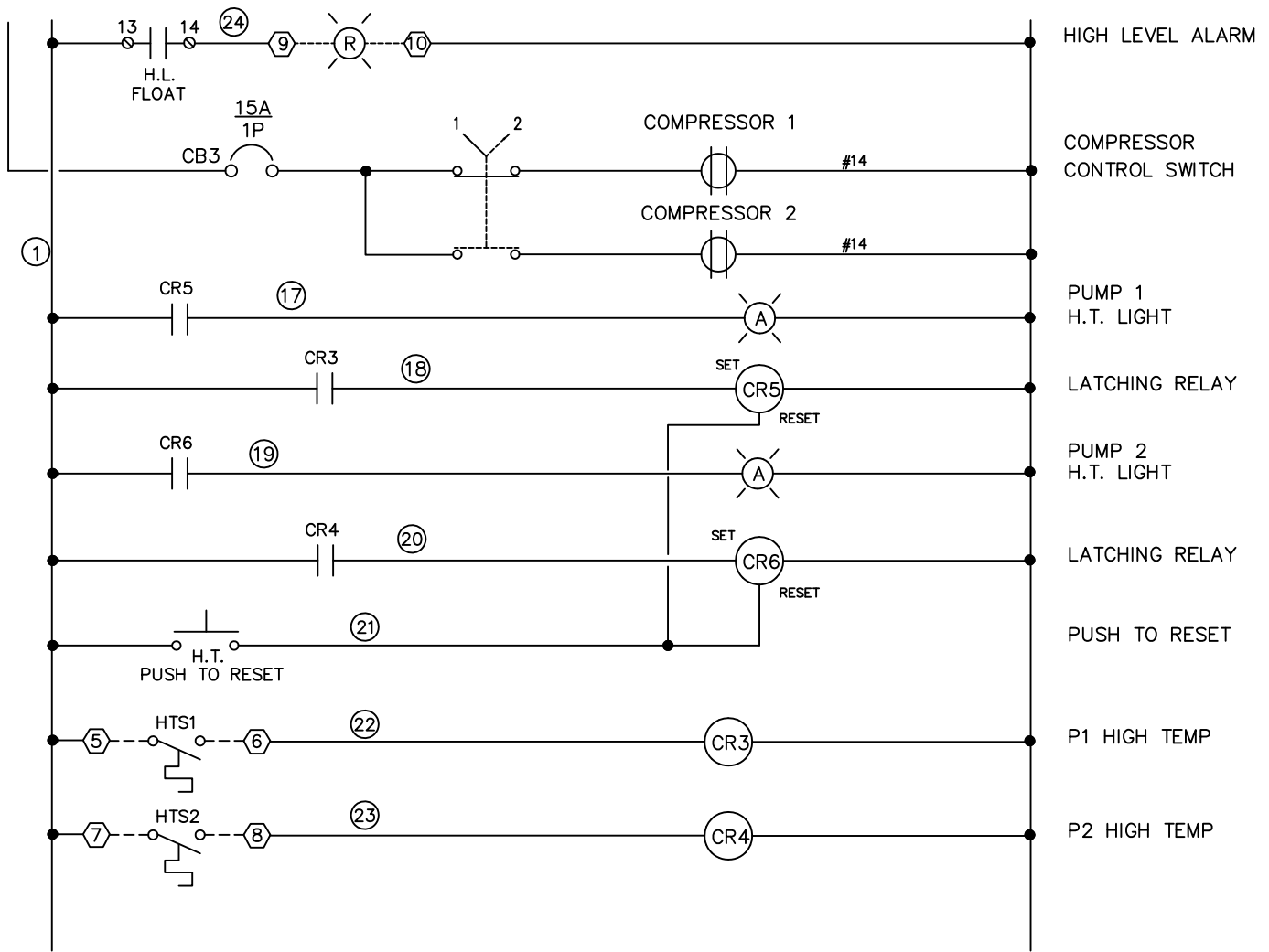
	Drawing Title						
	PANEL DESCRIPTION						
DATE		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
9/09/03		S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY CTR	APPROVED BY	DATE
	Project Title	<div>COX</div> <div>Research and Technology, Inc.</div>			P.O. Box 77808 Baton Rouge, LA 70809  Ph. (225)756-3271 Fax (225)756-1030		PURCHASE ORDER NUMBER  DRAWING NUMBER CP-1652 SHEET NUMBER 1
	DUPLEX PUMP CONTROL PANEL						





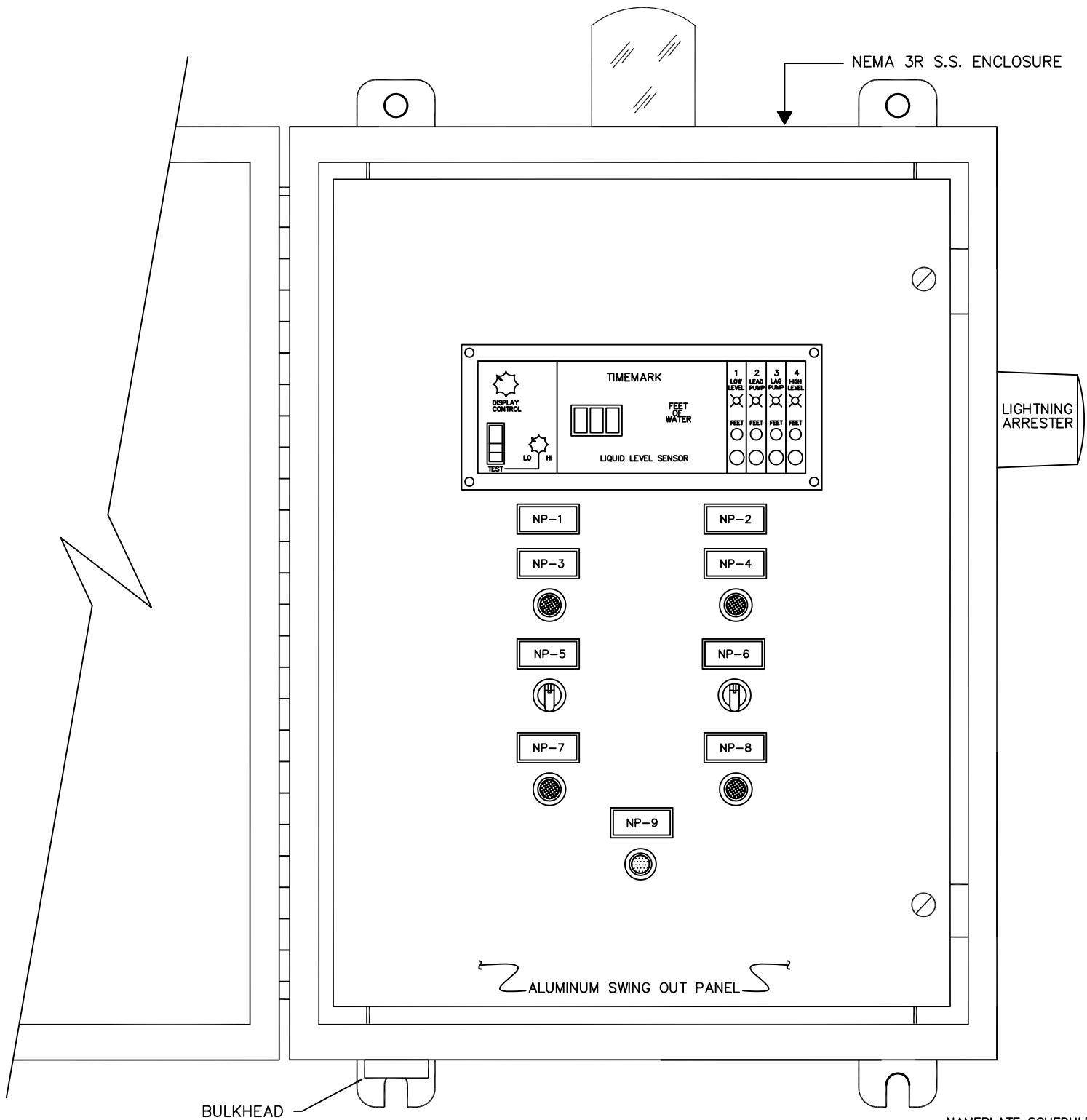
\* REMOVE JUMPER & INSTALL  
LOCKOUT DEVICES IF REQUIRED

Drawing Title									
CONTROL DIAGRAM									
DATE 9/09/03		REFERENCE DRAWING		NO.		REVISION-LOCATION		ECN	
		S/N		Sales Engineer C.C.		Application Engineer R.C.		DRAWN	
						BY CTR		APPROVED	
								BY DATE	
Project Title						P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER	
DUPLIX PUMP CONTROL PANEL						Ph. (225)756-3271 Fax (225)756-1030		DRAWING NUMBER CP-1652	
								SHEET NUMBER	
								3	



HIGH TEMP: AUTO RESET FOR PUMP/MANUAL RESET FOR LIGHTS

Drawing Title							
CONTROL DIAGRAM							
DATE 9/09/03	REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE
	S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN		APPROVED	
Project Title				BY	CTR	BY	DATE
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-1652	
						SHEET NUMBER 4	



**NOTE:**  
SEWER GASSES WILL DESTROY COMPONENTS IN PANEL.  
PROPER SEALS MUST BE INSTALLED EXTERNAL TO THE  
PANEL TO PREVENT ENTRY OF GASSES.

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

Drawing Title	ENCLOSURE		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
DATE	9/09/03		S/N	Sales Engineer	Application Engineer	DRAWN		APPROVED
				C.C.	R.C.	BY	CTR	DATE
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-1652
								SHEET NUMBER 5

## BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	EBE	S363012REPL	ENCLOSURE 3R S.S.
1a	1	EBE	3630P	BACKPLATE
1b	1	EBE	A3630SP	DEAD FRONT
2	2	ABB	A75-30-11-84	STARTER (80A)
3	2	ABB	TA25DU80	O.L. (60-80A)
4	2	ABB	S3N125TW	CB1,2
5	1	SQUARE D	QOU120	CB5
6	2	SQUARE D	QOU115	CB3,4
7	1	TIMEMARK	4042	LIQUID LEVEL CONTROLLER
8	1	TIMEMARK	450	PRESSURE TRANSDUCER
9	1	TIMEMARK	261DT120	ALTERNATOR
10	2	MAGNACRAFT	W388AMLCPX-9	CR5,6
11	3	OMRON	G2R2SAC120	CR1,2,3,4
12	2	INGRAM	HR10WB3	COMPRESSOR
13	1	AC/DC	BL5-R-120	LIGHT
14	2	ACI	JR22FR	RED LIGHT
15	2	ACI	JR22P3M20B	HOA
16	1	ACI	JR22AN11B	P.B.
17	2	ACI	JR22FY	AMBER LIGHT
18	2	INGRAM	HR10WB3 MTBKT	COMPRESSOR BRACKET
19	1	BUSSMANN	16371-3	DIST. BLOCK
20	1	BUSSMANN	16371-1	DIST. BLOCK
21	1	CH	CHSA03	LIGHTNING ARRESTER
22	2	OMRON	H3YN-2	TD1,2
23				
24				

	Drawing Title								
	BILL OF MATERIALS								
DATE 9/09/03		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN	DATE	BY		
	Project Title				P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER			
	DUPLEX PUMP CONTROL PANEL	<b>COX</b>  Research and Technology, Inc.			Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1652			
						SHEET NUMBER 6			