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COX

Research and Technology, Inc.

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BOSSIER PENAL FARM  
DUPLEX PUMP  
CONTROL PANEL  
FOR  
PROPOSED MAXIMUM  
SECURITY FARM  
LS#3

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

CP-1632

VOLTAGE	277/480V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	2	
HP	15	
FLA	21	
TYPE OF PUMP	Submersible	(Self-Priming, Submersible)
MANUFACTURER	Vaughn/Reliance	
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		

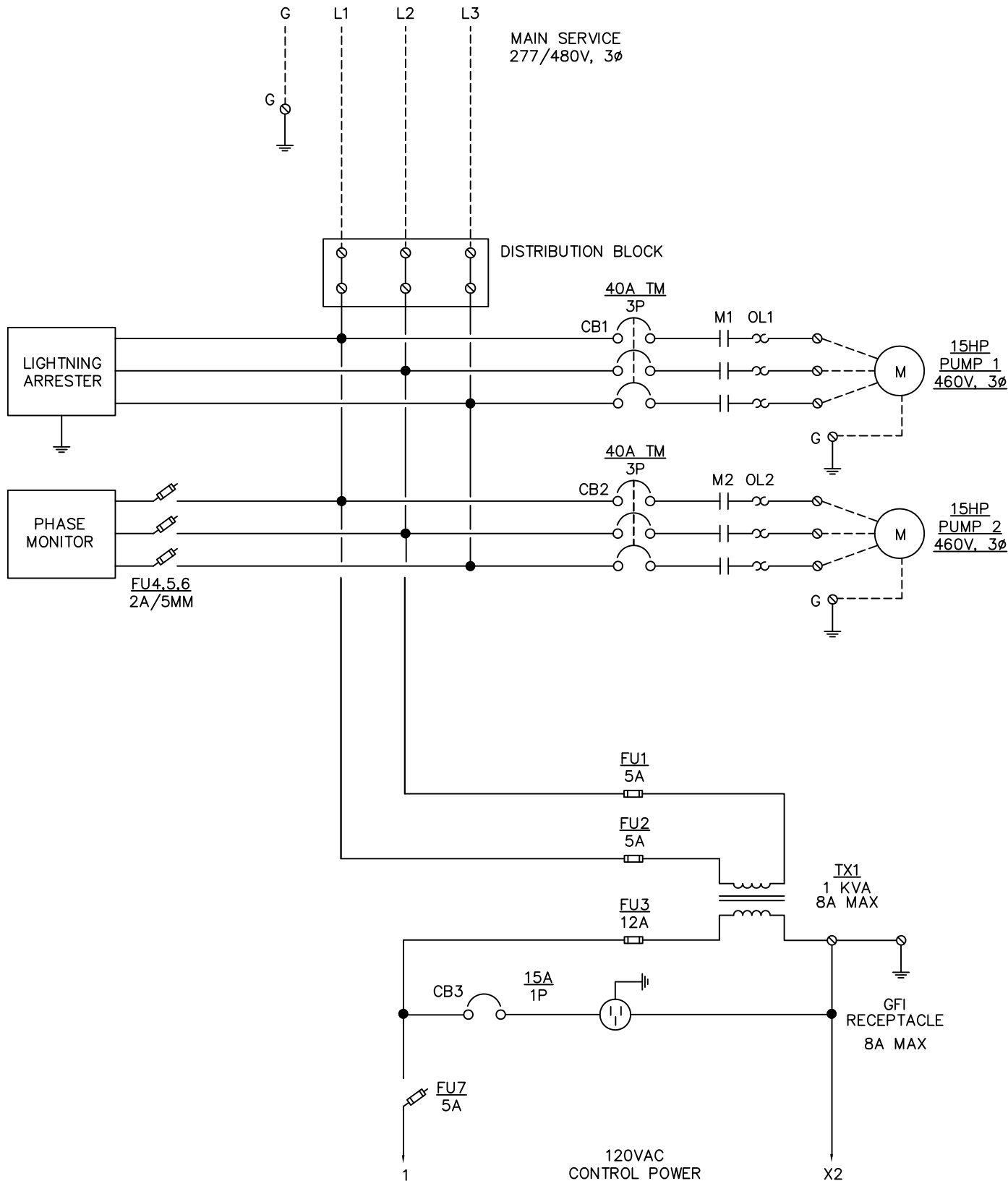
OPTIONS:

SEAL FAIL LIGHTS	X	(Submersible Only)
SEAL FAIL RELAYS	X	(Submersible Only)
SEAL FAIL PUMP SHUTDOWN	X	(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	X	
NEMA RATED STARTERS		
GROUND FAULT RECPT.	X (8A MAX)	
GREEN RUN LIGHTS VS. RED		
POLE, BOX, SEAL		
INTRINSICALLY SAFE RELAYS		
HIGH TEMP. LOCKOUT, MANUAL RESET		
ECONOMY VERSION		

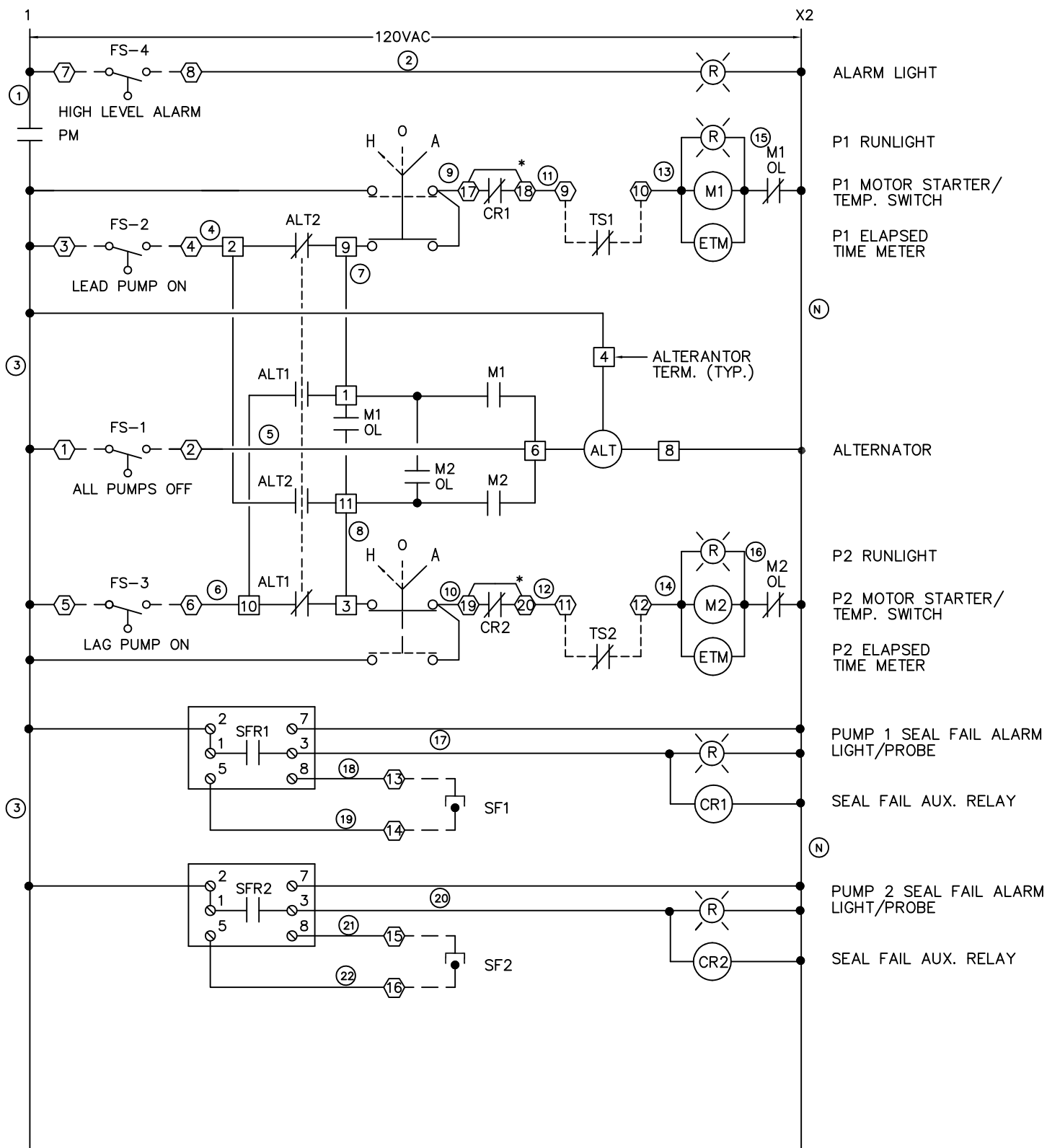
SOLD TO: Delta Process - Bossier City, LA  
TAG : Bossier Penal Farm  
Maximum Security, LS#3

SHIP TO: Delta Process - Shreveport, LA

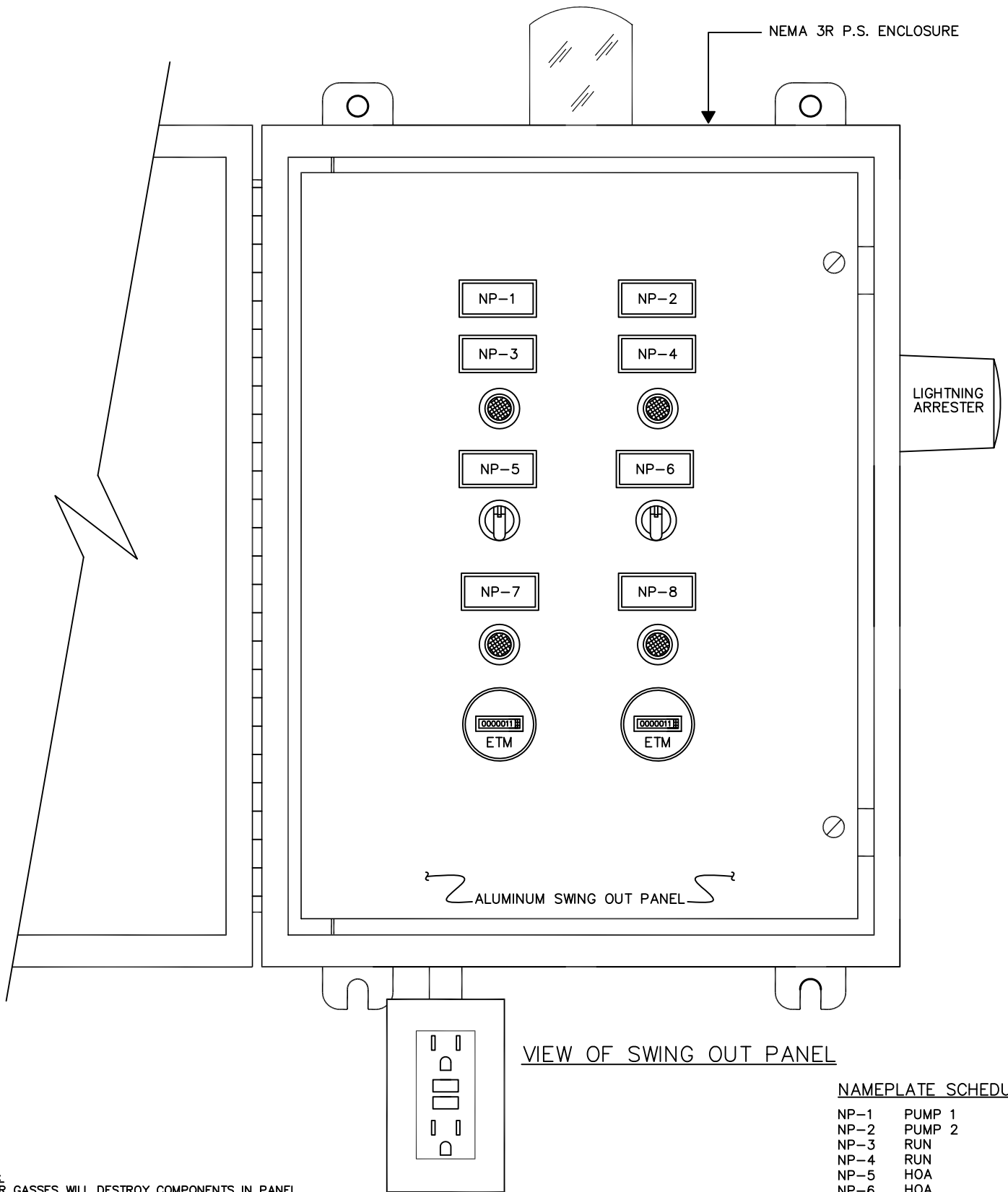
	Drawing Title						
	PANEL DESCRIPTION						
DATE 8/15/03		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	ECN	DATE BY
	Project Title	<div>COX</div> <div>Research and Technology, Inc.</div>			P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER	
	DUPLEX PUMP CONTROL PANEL				Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1632	
						SHEET NUMBER 1	



	Drawing Title								
	POWER DIAGRAM								
DATE 8/15/03		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	BY C. RACHAL	ECN	DATE	BY	APPROVED
	Project Title	COX				PURCHASE ORDER NUMBER			
	DUPLEX PUMP CONTROL PANEL	Research and Technology, Inc.				DRAWING NUMBER CP-1632			
		P.O. Box 77808 Baton Rouge, LA 70809				SHEET NUMBER 2			
		Ph. (225)756-3271 Fax (225)756-1030							



Drawing Title							
CONTROL DIAGRAM							
DATE 8/15/03	REFERENCE DRAWING		NO.		REVISION-LOCATION		ECN
	S/N		Sales Engineer C.C.		Application Engineer R.C.		DATE
Project Title		BY C. RACHAL		APPROVED		BY	DATE
PURCHASE ORDER NUMBER		DRAWING NUMBER		CP-1632		SHEET NUMBER	3
DUPLEX PUMP CONTROL PANEL		COX		P.O. Box 77808 Baton Rouge, LA 70809		Ph. (225)756-3271 Fax (225)756-1030	
		Research and Technology, Inc.					



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

#### 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

DATE 8/15/03	Drawing Title							
	ENCLOSURE							
		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY	
	Project Title	S/N	Sales Engineer C.C.	Application Engineer R.C.	DRAWN BY C. RACHAL	APPROVED BY	DATE	PURCHASE ORDER NUMBER
	DUPLEX PUMP CONTROL PANEL	<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	DRAWING NUMBER CP-1632		
						SHEET NUMBER 4		

# BILL OF MATERIAL

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	EBE	302410REPL	ENCLOSURE
1a	1	EBE	A3024P	BACKPLATE
1b	1	EBE	A3024SP	DEAD FRONT
2	2	ABB	A26-30-10-84	MOTOR STARTER
3	2	ABB	TA25DU25	O.L. RELAY (45-63A)
4	2	ABB	S1N040TL	CB1, CB2
5	1	TIMEMARK	261DT120	ALTERNATING RELAY
6	4	ACI	JR22FR	RED PILOT LIGHT
7	2	ACI	JR22P3M20B	HOA SWITCH
8	1	AC/DC	BL5-R-120	ALARM LIGHT
9	2	SSAC	LLC54AA	SEAL FAIL RELAY
10	2	OMRON	G2R2SAC120	RELAY
11	1	SSAC	PLMU11	PHASE MONITOR
12	1	CUTLER HAMMER	CHSA03	LIGHTNING ARRESTER
13	2	GRASSLIN	UWZ52E	ETM
14	1	SQUARE D	QOU115	CB3
15	1	STOCK		GFI
16	1	BUSS	16371-3	DISTRIBUTION BLOCK
17	1	BUSS	CPDB-3	DIST. BLOCK COVER
18	1	SQUARE D	9070TF1000D1	TRANSFORMER
19				
20				
21				
22				

	Drawing Title							
	<h2 style="margin: 0;">BILL OF MATERIALS</h2>							
DATE 8/15/03		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	ECN	DATE	BY
		<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <h1 style="margin: 0;">COX</h1> <p style="margin: 0;">Research and Technology, Inc.</p> </div> <div style="text-align: left;"> <p>P.O. Box 77808 Baton Rouge, LA 70809</p> <p>Ph. (225)756-3271 Fax (225)756-1030</p> </div> </div>			PURCHASE ORDER NUMBER			
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				SHEET NUMBER				