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# COX

Research and Technology, Inc.

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TRIPLEX PUMP  
CONTROL PANEL  
OAK HARBOR  
LIFT STATION #20

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

CP-2117

VOLTAGE	277/480V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	3	
HP	30	
FLA	36	
TYPE OF PUMP	Self Priming	(Self-Priming, Submersible)
MANUFACTURER	Gorman Rupp	
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, Bubbler, Other)
CAPACITORS	No	(Yes, No)
CAPACITOR WIRING FIGURE	N/A	
THERM. & SEAL FAIL WIRING FIGURE		

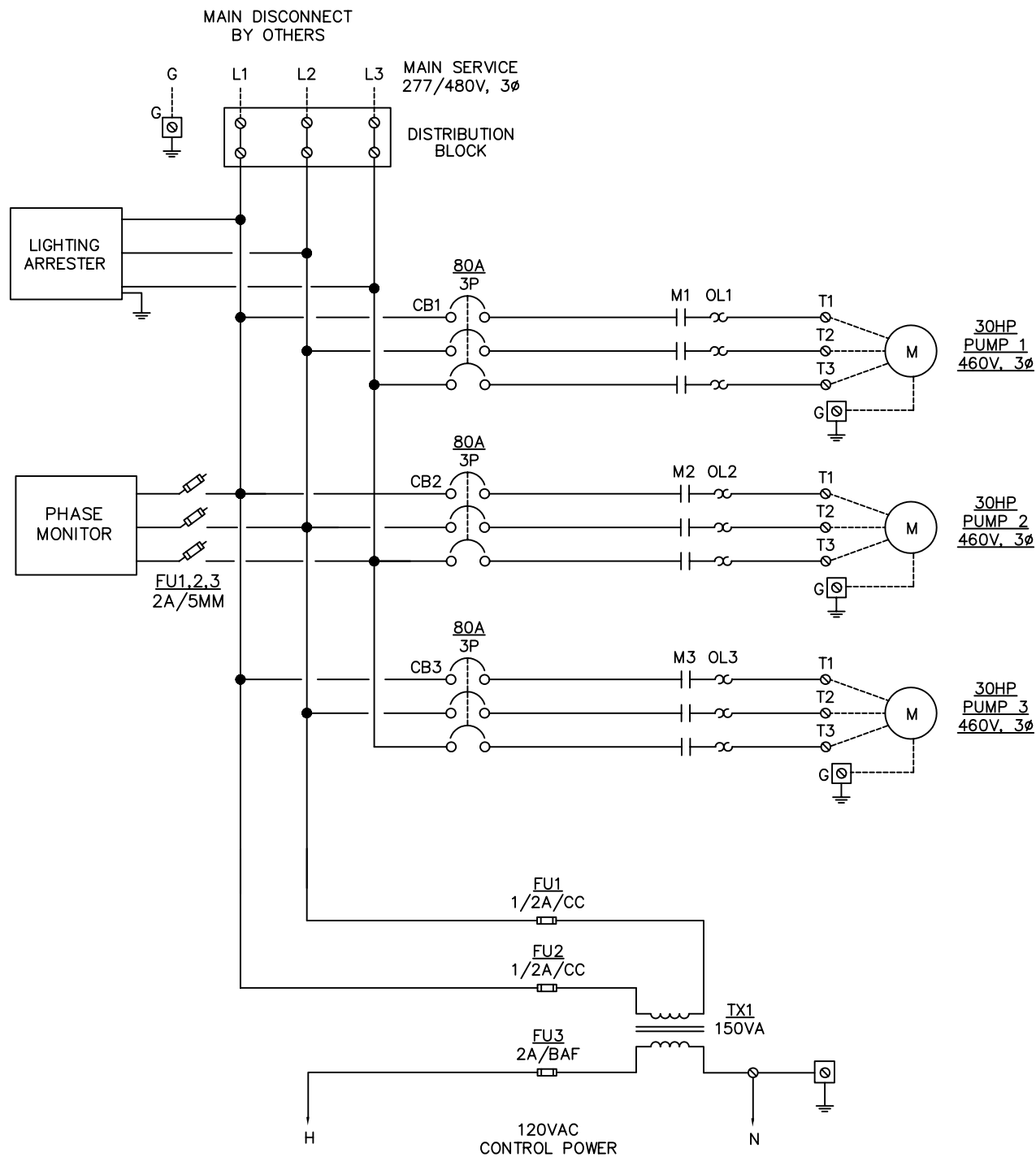
OPTIONS:

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	X	
LIGHT PANEL MTD	X	
LIGHT REMOTE MTD		
LIGHT FLASHER	X	
LIGHTNING ARRESTER	X	
ELAPSED TIME METER	X	
PHASE MONITOR	X	
NEMA RATED STARTERS		
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 - New Orleans, LA  
TAG : Oak Harbor #20

SHIP TO: Delta Process - Denham Springs, LA

	Drawing Title						
	PANEL DESCRIPTION						
DATE 8/02/05		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY CTR	ECN	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)755-1030		PURCHASE ORDER NUMBER  DRAWING NUMBER CP-2117 SHEET NUMBER 1
	TRIPLEX PUMP CONTROL PANEL						



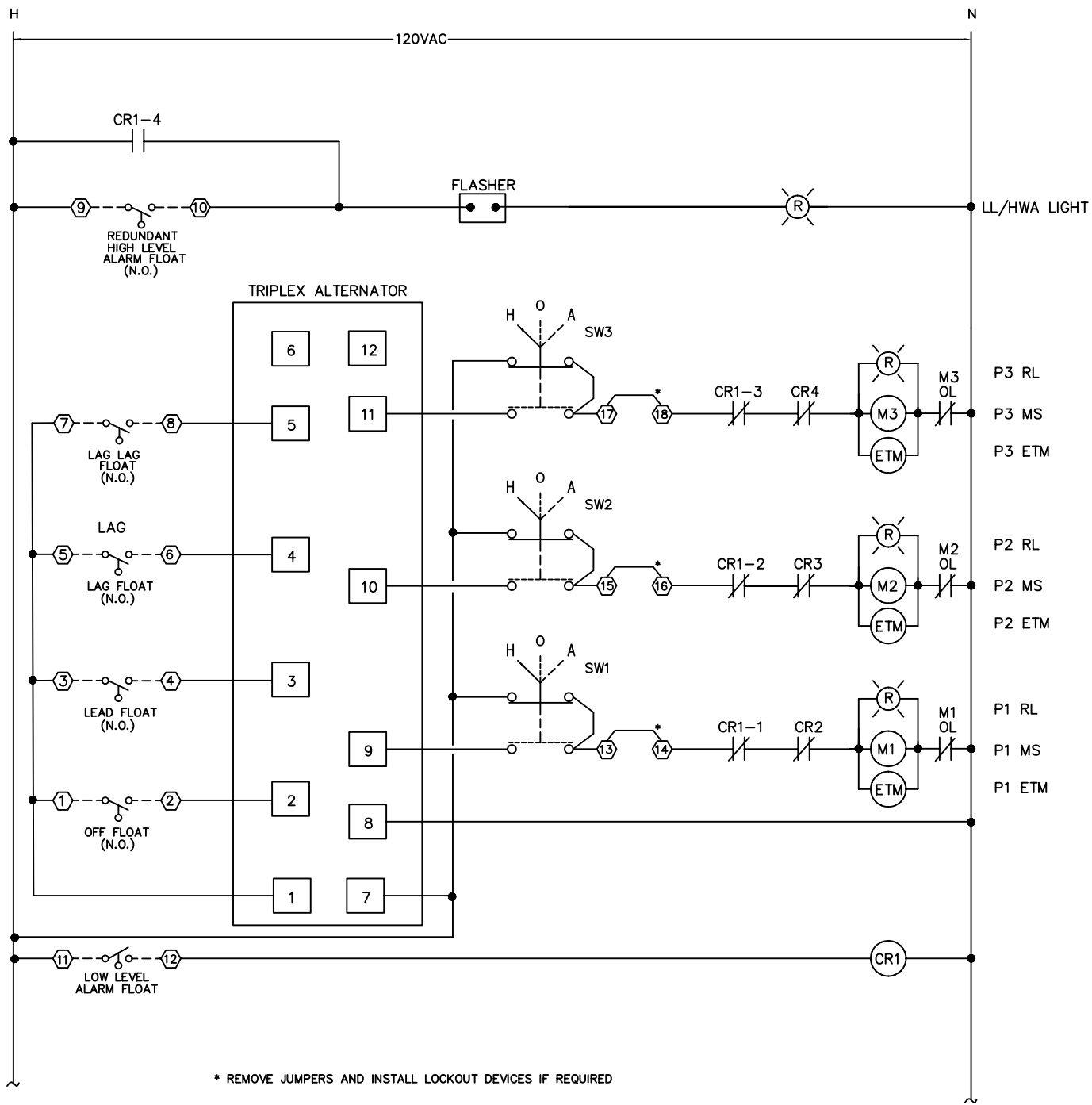
	Drawing Title								
	POWER DIAGRAM								
DATE		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY		
8/02/05		S/N	Sales Engineer C.C.	Application Engineer R.C.	BY CTR	APPROVED			
	Project Title							PURCHASE ORDER NUMBER	
	TRIPLEX PUMP CONTROL PANEL							DRAWING NUMBER	
								CP-2117	
								SHEET NUMBER	
									2

**COX**

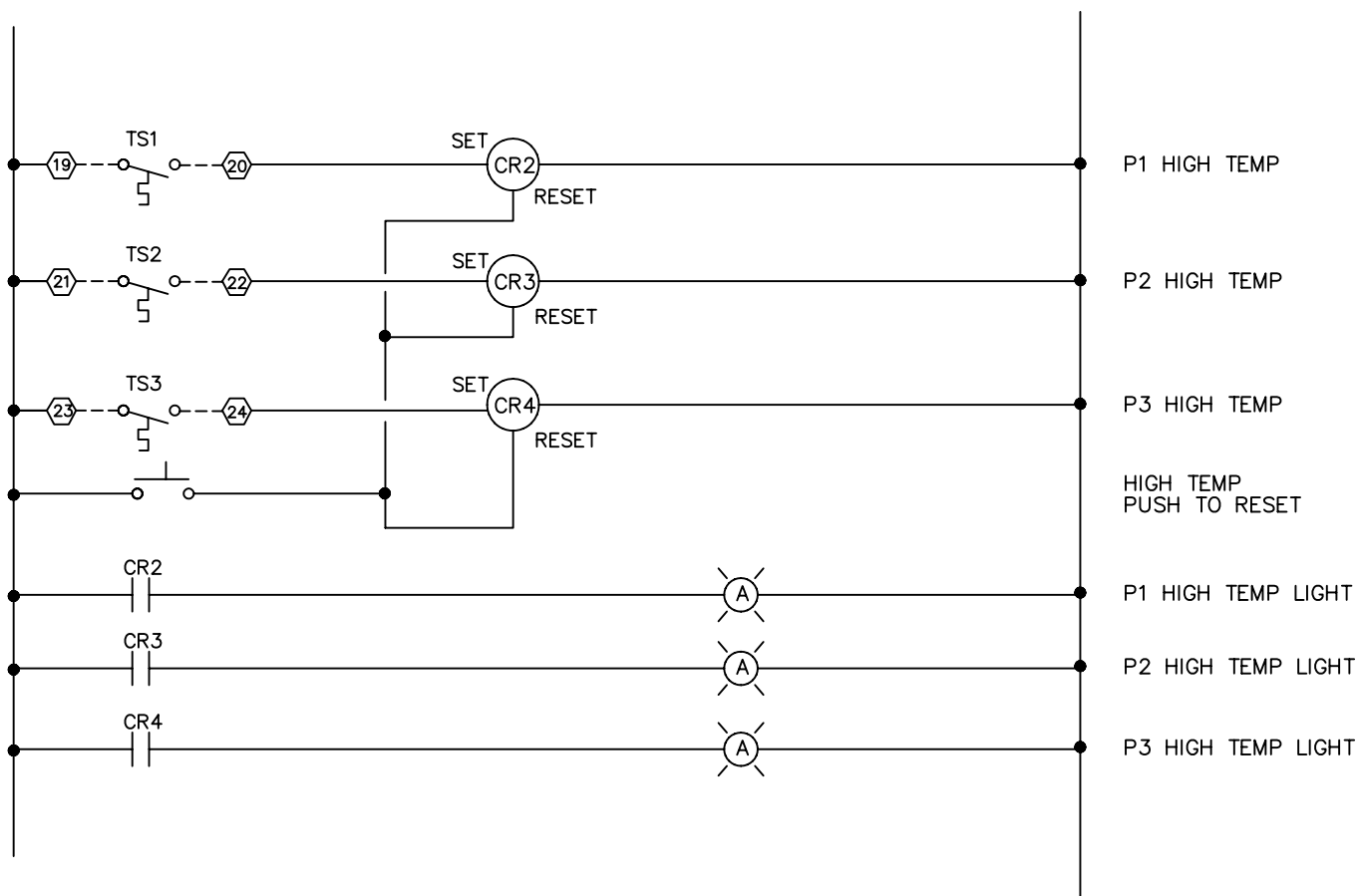
Research and Technology, Inc.

P.O. Box 77808  
Baton Rouge, LA  
70809

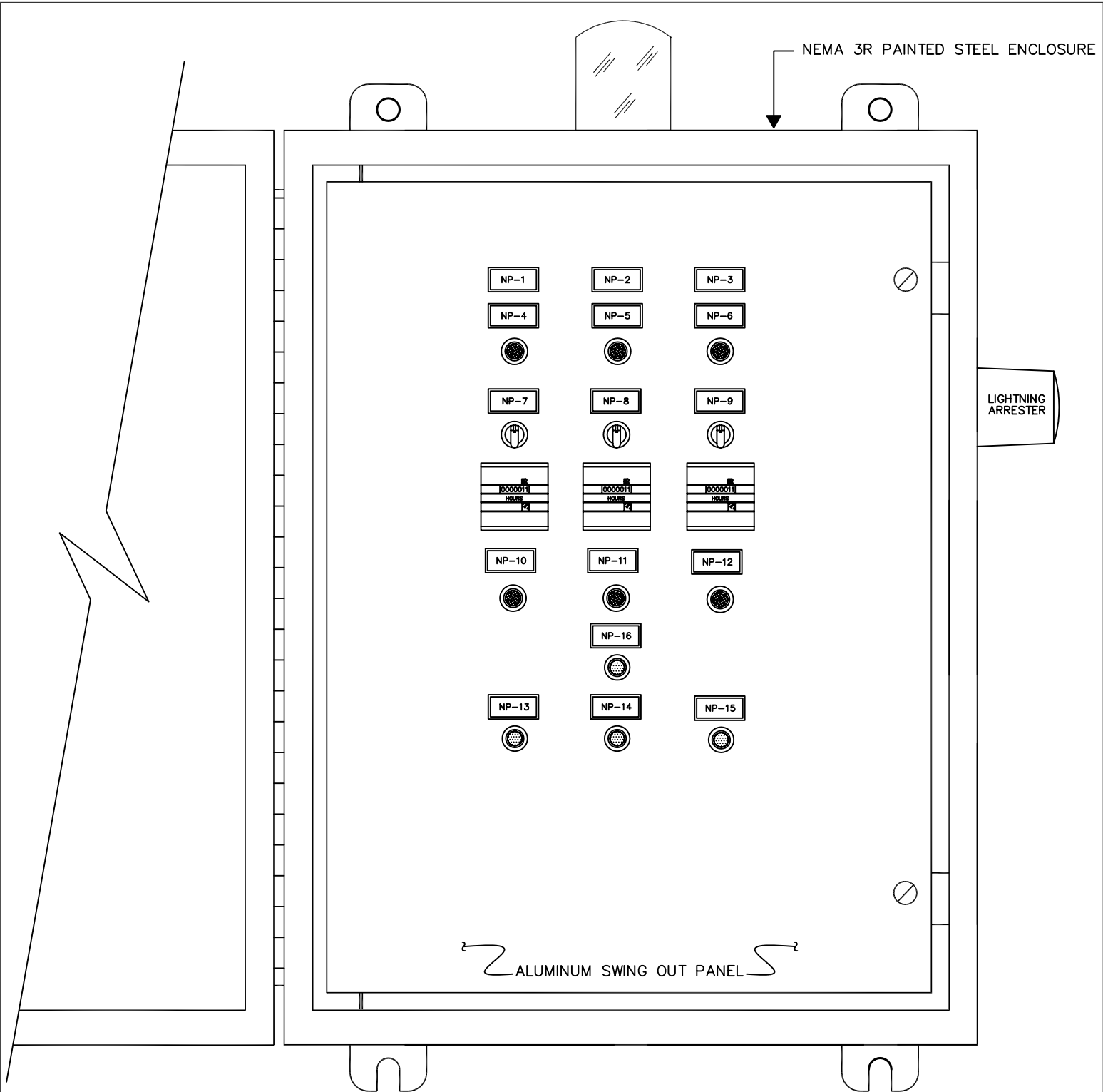
Ph. (225)756-3271  
Fax (225)755-1030



Drawing Title							
CONTROL DIAGRAM							
DATE	8/02/05	REFERENCE DRAWING		NO.	REVISION-LOCATION	ECN	DATE
		S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED	
			C.C.	R.C.	BY CTR	BY	DATE
Project Title						PURCHASE ORDER NUMBER	
TRIPLEX PUMP CONTROL PANEL						DRAWING NUMBER	
						CP-2117	
						SHEET NUMBER	
						3	



	Drawing Title							
	CONTROL DIAGRAM							
DATE 8/02/05		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN	DATE	BY	
	Project Title	DRAWN			APPROVED		PURCHASE ORDER NUMBER	
	TRIPLEX PUMP CONTROL PANEL	BY CTR			BY	DATE	DRAWING NUMBER CP-2117	
		COX Research and Technology, Inc.			P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)755-1030		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.

#### NAMEPLATE SCHEDULE

NP-1	PUMP 1	NP-11	HIGH TEMP
NP-2	PUMP 2	NP-12	HIGH TEMP
NP-3	PUMP 3	NP-13	O.L. RESET
NP-4	RUN	NP-14	O.L. RESET
NP-5	RUN	NP-15	O.L. RESET
NP-6	RUN	NP-16	HIGH TEMP RESET
NP-7	HOA		
NP-8	HOA		
NP-9	HOA		
NP-10	HIGH TEMP		

Drawing Title	ENCLOSURE		REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY
DATE 8/02/05			S/N	Sales Engineer C.C.	Application Engineer R.C.	BY	CTR	APPROVED
Project Title	TRIPLEX 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)755-1030	DRAWING NUMBER CP-2117		
						SHEET NUMBER 5		

# BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	EBE	363012REPL	3R P.S. ENCLOSURE
1a	1	EBE	3630P	BACK PLATE
1b	1	EBE	A3630SP	DEAD FRONT
2	1	BUSSMANN	16323-3	DISTRIBUTION BLOCK
3	3	ABB	S1N080TL	CB 1,2,3 3P 90A
4	3	SQUARE D	8536SE01V02	MS 1,2,3
5	9	SQUARE D		O.L. 1,2,3
6	1	DIVERSIFIED	ARM-120-ACE	TRIPLEX ALTERNATOR
7	1	SSAC	PLMU-11	PHASE MONITOR
8	1	DELTA	LA603	LIGHTNING ARRESTOR
9	1	SQD	9070TF150D1	TRANSFORMER 150 VA
10	3	A-B	800H-JR2A	HOA
11	3	A-B	800H-QR10R	PILOT LIGHT-RED
12	1	A-B	800H-AR2A	PUSH BUTTON
13	3	A-B	800H-QR10A	PILOT LIGHT-AMBER
14	3	REDINGTON	711-0190	ELAPSED TIME METER
15	3	MAGNECRAFT	W388AMLCPX-9	CR2,3,4
16	1	IDEC	RU4SA110	CR1
17	3	SQUARE D	9066-RA	O.L. RESET P.B.
18				
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	Drawing Title						
	<h2 style="margin: 0;">BILL OF MATERIALS</h2>						
DATE 8/02/05		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN	DATE	BY
		DRAWN BY CTR		APPROVED BY		DATE	
	Project Title	<div style="border-top: 3px double black; border-bottom: 3px double black; padding: 5px;"> <h1 style="margin: 0;">COX</h1> <p style="margin: 0;">Research and Technology, Inc.</p> </div>			P.O. Box 77808 Baton Rouge, LA 70809  Ph. (225)756-3271 Fax (225)755-1030		PURCHASE ORDER NUMBER  DRAWING NUMBER <div style="text-align: right;">CP-2117</div> SHEET NUMBER
	<h2 style="margin: 0;">TRIPLEX PUMP CONTROL PANEL</h2>	6					