

---

---

# COX

Research and Technology, Inc.

---

---

EQ1  
DUPLEX PUMP  
CONTROL PANEL

# AS BUILTS

SEPTEMBER 28, 2012

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

SOLD TO:
TAG: EQ1

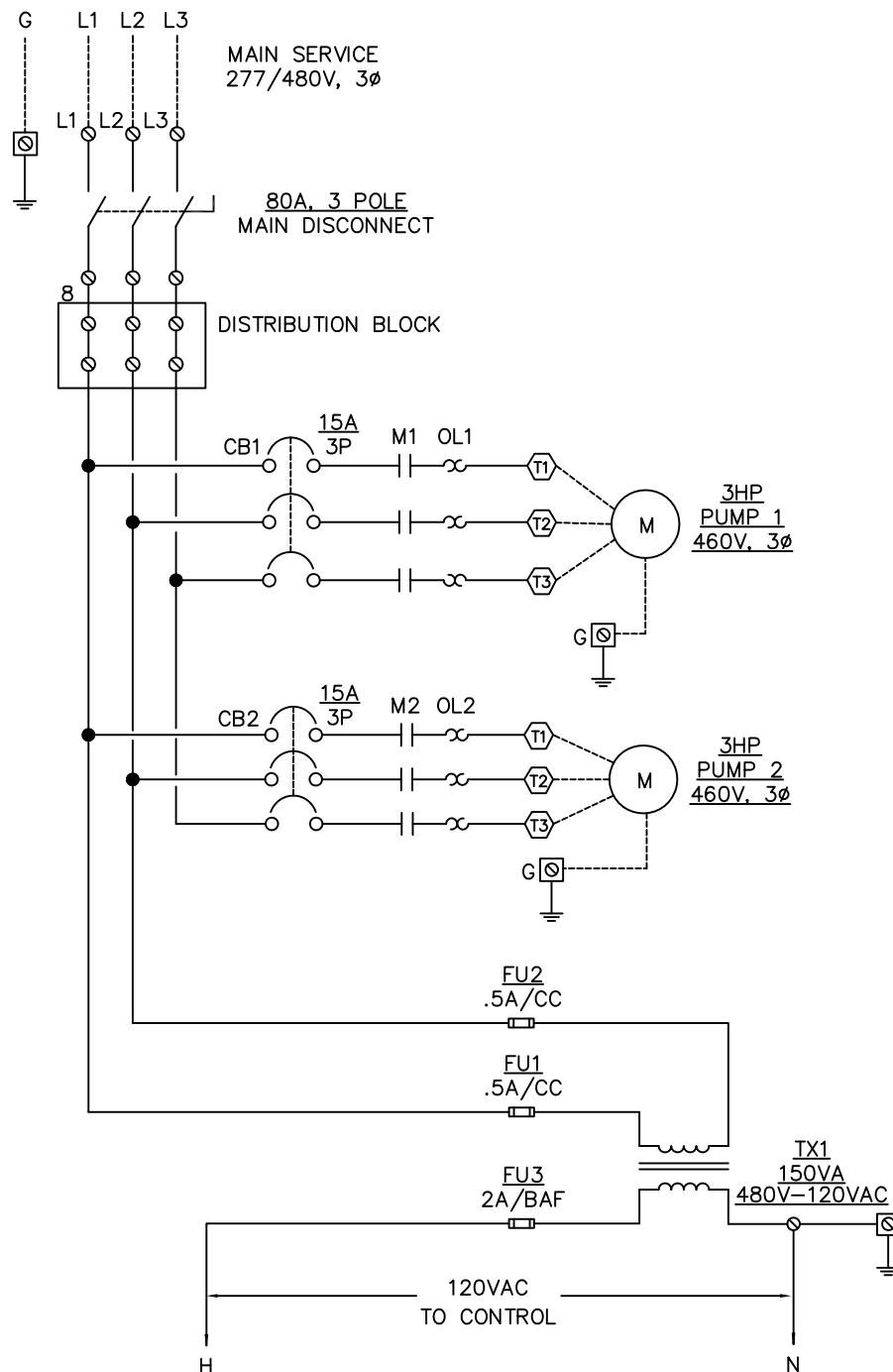
SHIP TO:

SPECIAL NOTES:

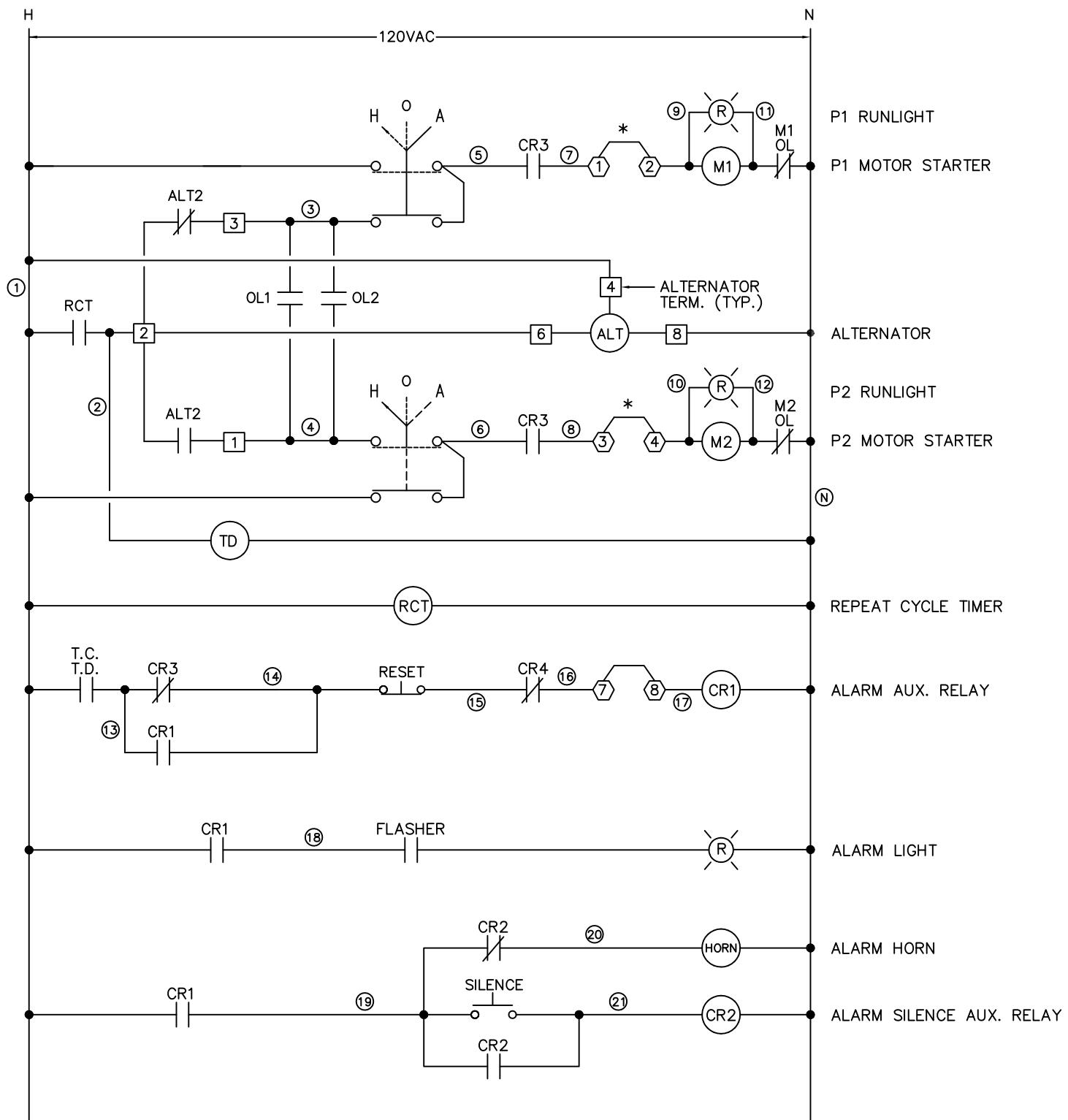
Panel Type	Duplex
Voltage	277/480
Phase/HZ	3/60
No. Motors	2
HP	3
FLA	4.8
Pump Manufacturer	
Type of Pump	Self-Priming
Catalog Number	
Capacitors	No
Control Voltage	120V
Control Power Transformer VA = 150	Yes
Enclosure NEMA Rating	4
Enclosure Material	Painted Steel
Enclosure Size	20x16x8
Inner Swing Panel	No
Control Sensor	RCT
UL508A Labeling	No
UL698A Labeling	No

Alarm Light - Panel Door Mount	
Alarm Light - Panel Top Mount	X
Alarm Light - Remote	
Alarm Test Switch	
Alarm Silence Switch	X
Alarm Acknowledge Switch	X
Alternator with Lead Pump Selector Switch	X
Audible Alarm - Bell	
Audible Alarm - Horn	X
Audible Alarm - Piezzo	
Cycle Counters	
Economy Version	
Elapsed Time Meters	
Flasher	X
Green Run Lights vs. Red	
Ground Fault Receptacle	
High Temp Lights	
High Temp Pump Shutdown - Auto Reset	
High Temp Pump Shutdown - Manual Reset	
Intrinsically Safe Relays Pts	
Lightning Arrestor	
Main Disconnect with door Mt. Handle	
Panel Heater/Thermostat W =	
Phase Monitor	
Pole, Box, Seal	
Seal Fail Lights	
Seal Fail Relay - Fixed	
Seal Fail Relay - Adjustable	
Seal Fail Shutdown	
Starters - IEC	X
Starters - NEMA	
Unpowered Alarm Circuits #2	X
OTHER:	

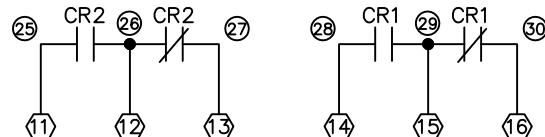
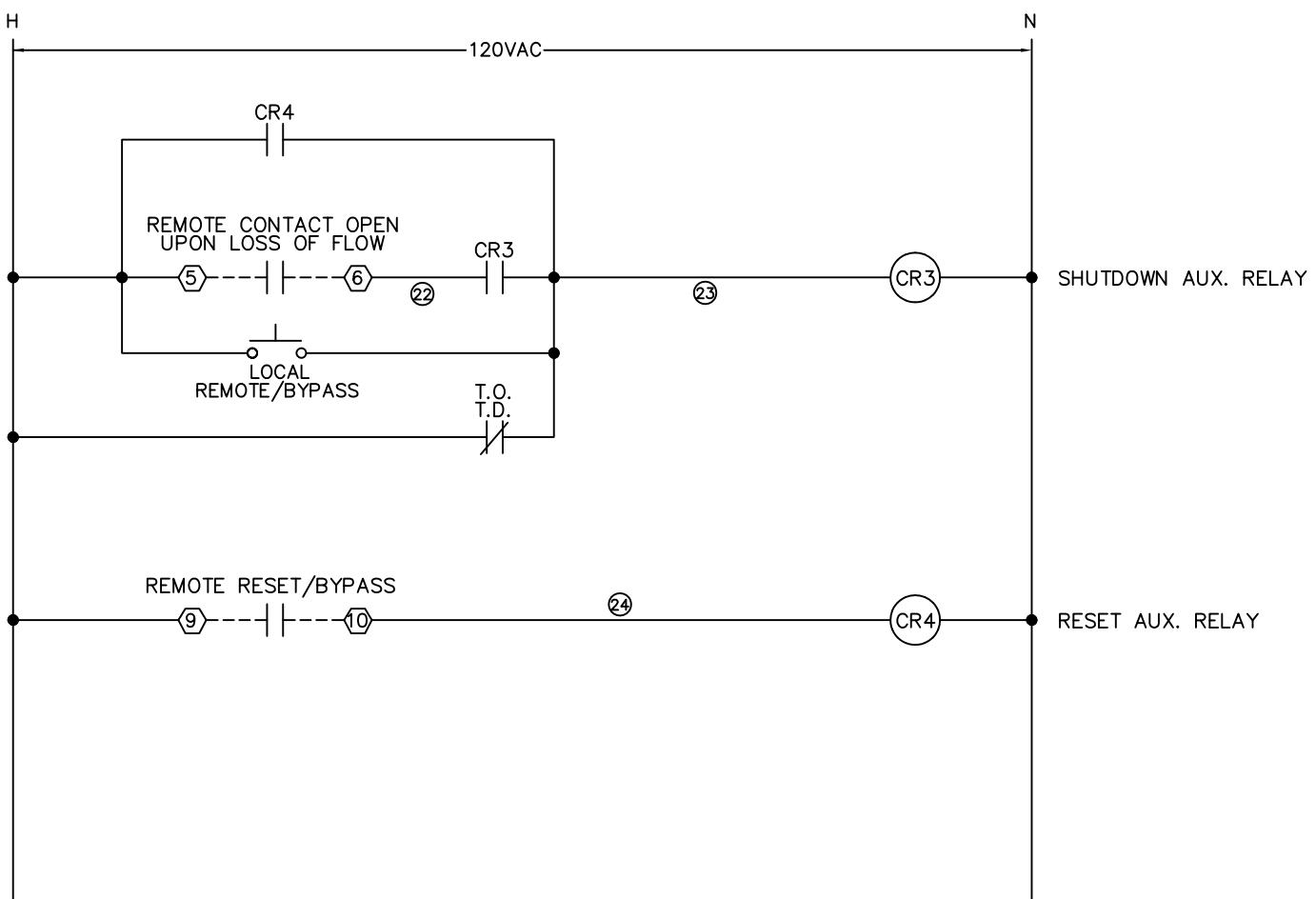
	DRAWING TITLE  PANEL DESCRIPTION							
DATE 09/21/12		REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE
		S/N	Sales Engineer	Application Engineer	DRAWN		APPROVED	BY
				T.L.	BY E. ECKER		BY	DATE
	PROJECT TITLE  STOLTHAVEN	COX			P.O. Box 77808 Baton Rouge, LA 70879  Ph. (225)756-3271 Fax (225)755-1030	PURCHASE ORDER NUMBER		
						DRAWING NUMBER		
						SHEET NUMBER		



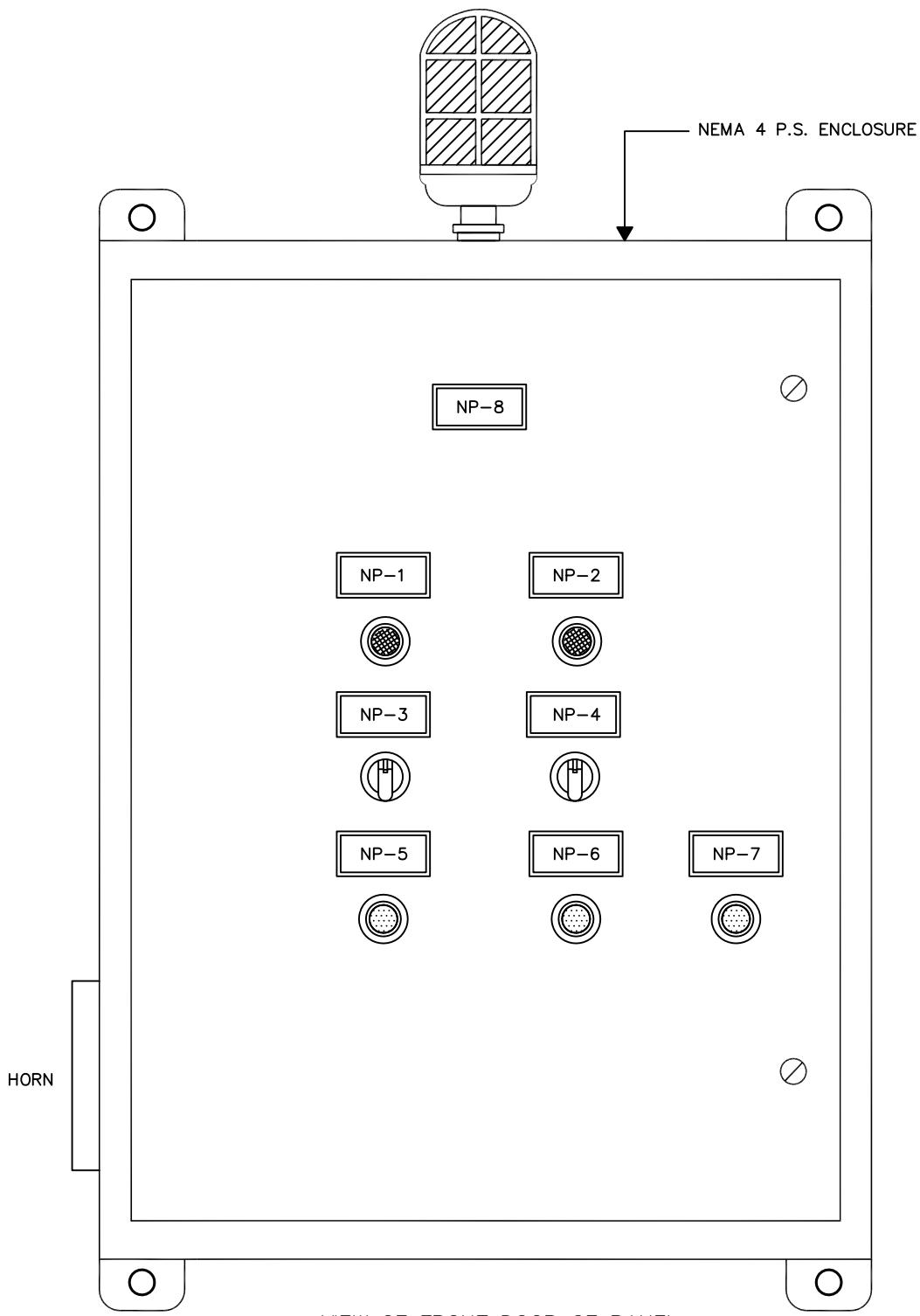
	Drawing Title  <b>POWER DIAGRAM</b>				
DATE 09/21/12	REFERENCE DRAWING S/N	NO. Sales Engineer	REVISION-LOCATION Application Engineer T.L.	ECN DRAWN BY E. ECKER	DATE APPROVED BY DATE
Project Title  <b>STOLTHAVEN</b>	<b>COX</b> Research and Technology, Inc.	P.O. Box 77808 Baton Rouge, LA 70879	PURCHASE ORDER NUMBER		
		Ph. (225)756-3271 Fax (225)755-1030	DRAWING NUMBER CP-1243rl		
			SHEET NUMBER 2		



	Drawing Title								
	CONTROL DIAGRAM								
DATE 09/21/12	REFERENCE DRAWING S/N	NO. Sales Engineer	REVISION-LOCATION Application Engineer T.L.	ECN	DATE	BY			
				DRAWN BY E. ECKER	APPROVED BY	DATE DATE			
	Project Title		<hr/> <hr/> <b>COX</b> <hr/> <hr/> Research and Technology, Inc. <hr/> <hr/>		PURCHASE ORDER NUMBER				
	STOLTHAVEN				DRAWING NUMBER		CP-1243rl		
					SHEET NUMBER		3		



	Drawing Title					
	CONTROL DIAGRAM					
DATE 09/21/12	REFERENCE DRAWING S/N	NO. Sales Engineer	REVISION-LOCATION Application Engineer T.L.	ECN DRAWN BY E. ECKER	DATE APPROVED BY DATE	BY
Project Title STOLTHAVEN	COX Research and Technology, Inc.	P.O. Box 77808 Baton Rouge, LA 70879	Ph. (225)756-3271 Fax (225)755-1030	PURCHASE ORDER NUMBER DRAWING NUMBER CP-1243rl SHEET NUMBER 4		



VIEW OF FRONT DOOR OF PANEL

NAMEPLATE SCHEDULE

NP-1	PUMP 1/RUN
NP-2	PUMP 2/RUN
NP-3	HOA
NP-4	HOA
NP-5	ALARM SILENCE
NP-6	ALARM RESET
NP-7	PUMPS RESET/BYPASS
NP-8	EQ1

**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
DATE 09/21/12	S/N	Sales Engineer	Application Engineer	DRAWN T.L. BY E. ECKER	APPROVED BY DATE	
	Project Title	<hr/> <hr/> <hr/> <b>COX</b> <hr/> <hr/> <hr/> Research and Technology, Inc. <hr/> <hr/>			PURCHASE ORDER NUMBER	
	STOLTHAVEN				DRAWING NUMBER	CP-1243rl
					SHEET NUMBER	5

# BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	SAGINAW	SCE-20EL1608LP	ENCLOSURE
1a	1	SAGINAW	SCE-20P16	BACKPLATE
2	1	ABB	OT80F3	DISCONNECT SWITCH
3	2	ABB	T1NO15TL	CB1,2
4	2	ABB	A16-30-10-84	MOTOR STARTER
5	2	ABB	TA25DU5.0	OL RELAY (3.5-5.0A)
6	1	DIVERSIFIED	ARB-120-ADA	ALTERNATING RELAY
7	1	SSAC	FS126RC	FLASHER
8	2	ABB	CL513R	RED LED PILOT
9	2	ABB	C3SS110B-20	HOA SWITCH
10	1	ABB	X4150PSF-1	TRANSFORMER
11	3	ABB	CP110B-11	PUSH BUTTON
12	4	IDEA	RY4SULAC120	CR1-4
13	1	CONERY	RA-A-VP100RDG	ALARM LIGHT
14	1	EDWARD SIGNAL	870P-N5	HORN
15	1	OMRON	H3YN2AC120	TD
16	1	OMRON	H3CR-F8-300AC100240	RCT
17	1	MARATHON	1323580	DISTRIBUTION BLOCK
18				
19				
20				
21				
22				
23				
24				

	Drawing Title								
	BILL OF MATERIALS								
			REFERENCE DRAWING		NO.	REVISION-LOCATION	ECN	DATE	BY
DATE 09/21/12			S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED		
					T.L.	BY E. ECKER	BY	DATE	
	Project Title		 <b>COX</b> Research and Technology, Inc. 			PURCHASE ORDER NUMBER  P.O. Box 77808 Baton Rouge, LA 70879  DRAWING NUMBER CP-1243r1  SHEET NUMBER 6			
	STOLTHAVEN								