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# COX

Research and Technology, Inc.

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## SIMPLEX PUMP CONTROL PANEL POVERTY POINT

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

CP-2308

VOLTAGE	<u>120/240V</u>	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	<u>1/60</u>	
NO. MOTORS	<u>1</u>	
HP	<u>2</u>	
FLA	<u>15</u>	
TYPE OF PUMP	<u>Submersible</u>	(Self-Priming, Submersible)
MANUFACTURER	<u>BARNES</u>	
CATALOG NUMBER	<u>SGVF2022L-MS</u>	
CONTROL VOLTAGE	<u>120V</u>	(120V, Other)
ENCLOSURE	<u>NEMA 4X</u>	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	<u>Fiberglass</u>	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR	<u>FLOATS</u>	(FLOATS, Bubbler, Other)
CAPACITORS	<u>Yes</u>	(Yes, No)
CAPACITOR WIRING FIGURE		
THERM. & SEAL FAIL WIRING FIGURE		

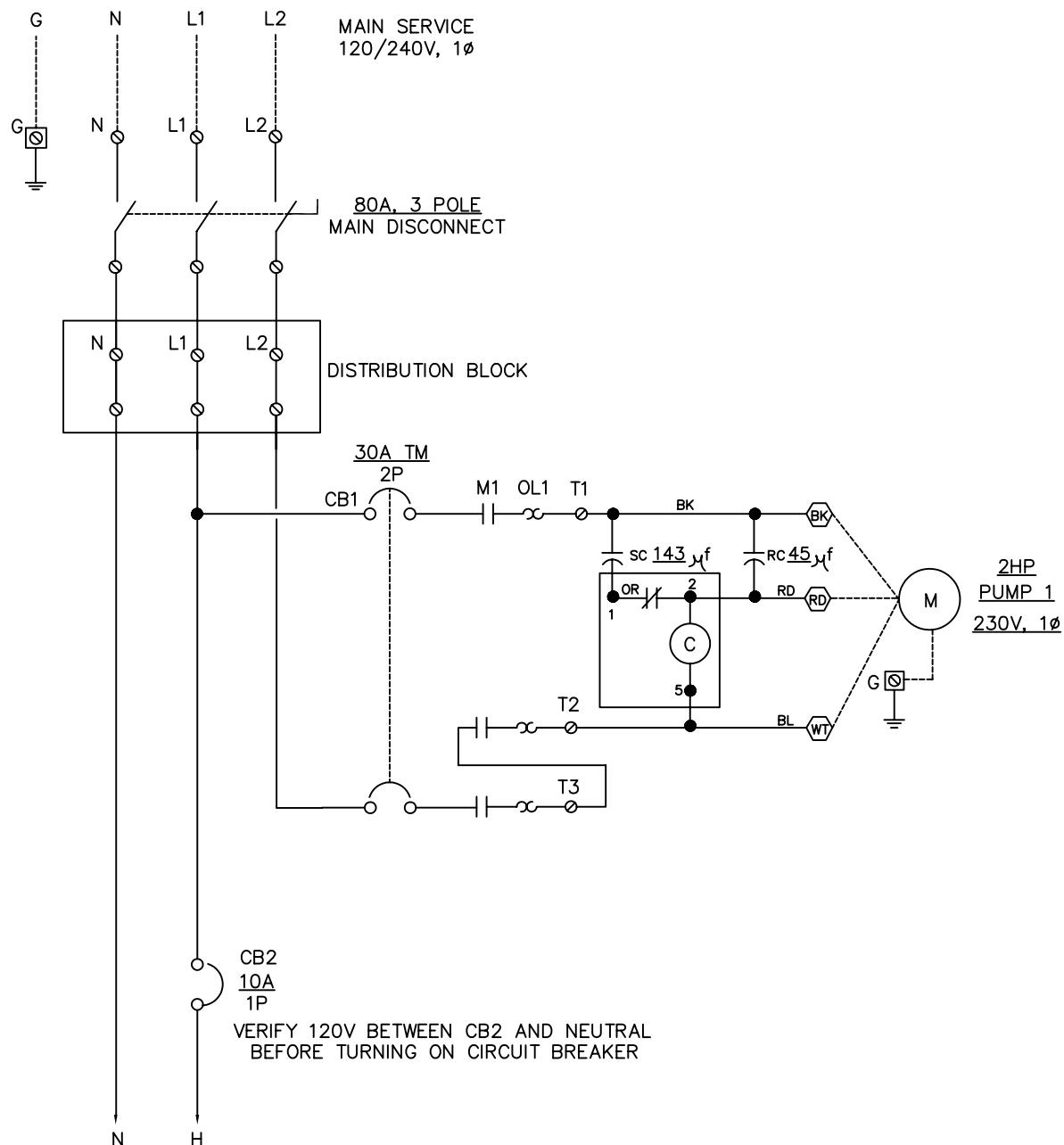
OPTIONS:

SEAL FAIL LIGHTS	<u>X</u>	(Submersible Only)
SEAL FAIL RELAYS	<u>X</u>	(Submersible Only)
SEAL FAIL PUMP SHUTDOWN		(Submersible Only)
HT PUMP SHUTDOWN	<u>X</u>	(Self-Primer, Submersible)
ALARM HORN		
ALARM LIGHT	<u>X</u>	
LIGHT PANEL MTD	<u>X</u>	
LIGHT REMOTE MTD		
LIGHT FLASHER		
LIGHTNING ARRESTOR		
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		
ECONOMY VERSION		

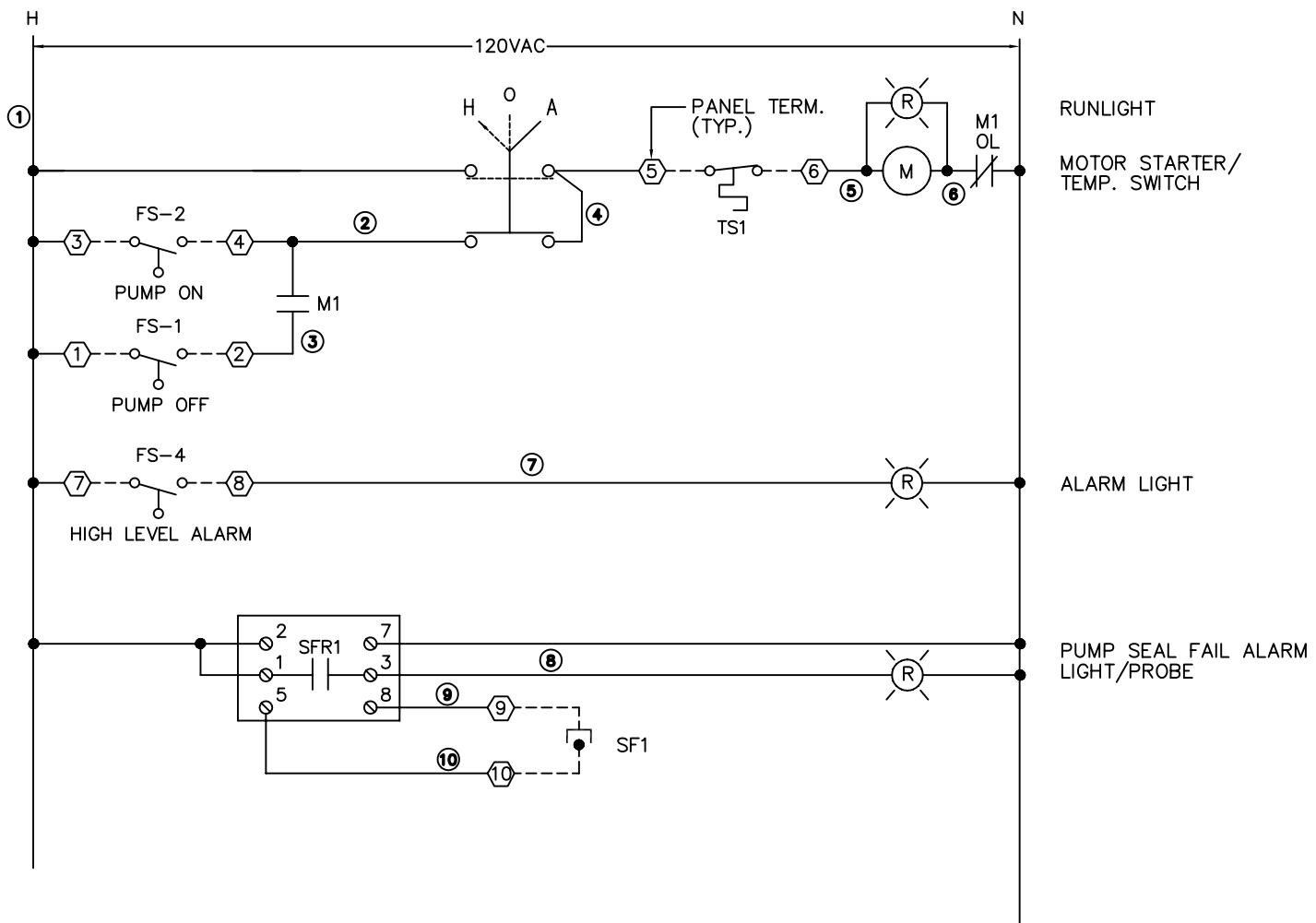
SOLD TO: Delta Process - Ruston, LA  
TAG : Poverty Point

SHIP TO: Delta Process - Ruston, LA

	Drawing Title  PANEL DESCRIPTION							
		REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE
DATE 2/16/06	S/N	Sales Engineer	Application Engineer	DRAWN	APPROVED			
		C.C.	R.C.	BY C. RACHAL	BY		BY	DATE
	Project Title  SIMPLEX PUMP CONTROL PANEL	<u>COX</u> Research and Technology, Inc.				P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER	
						Ph. (225)756-3271 Fax (225)755-1030	DRAWING NUMBER	
							CP-2308	
							SHEET NUMBER	
							1	



	Drawing Title  POWER DIAGRAM			
DATE 2/16/06	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN Application Engineer R.C.	ECN APPROVED DRAWN BY C. RACHAL DATE BY DATE
	Project Title  SIMPLEX 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-2308 SHEET NUMBER 2



Drawing Title

## CONTROL DIAGRAM

DATE  
2/16/06

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		

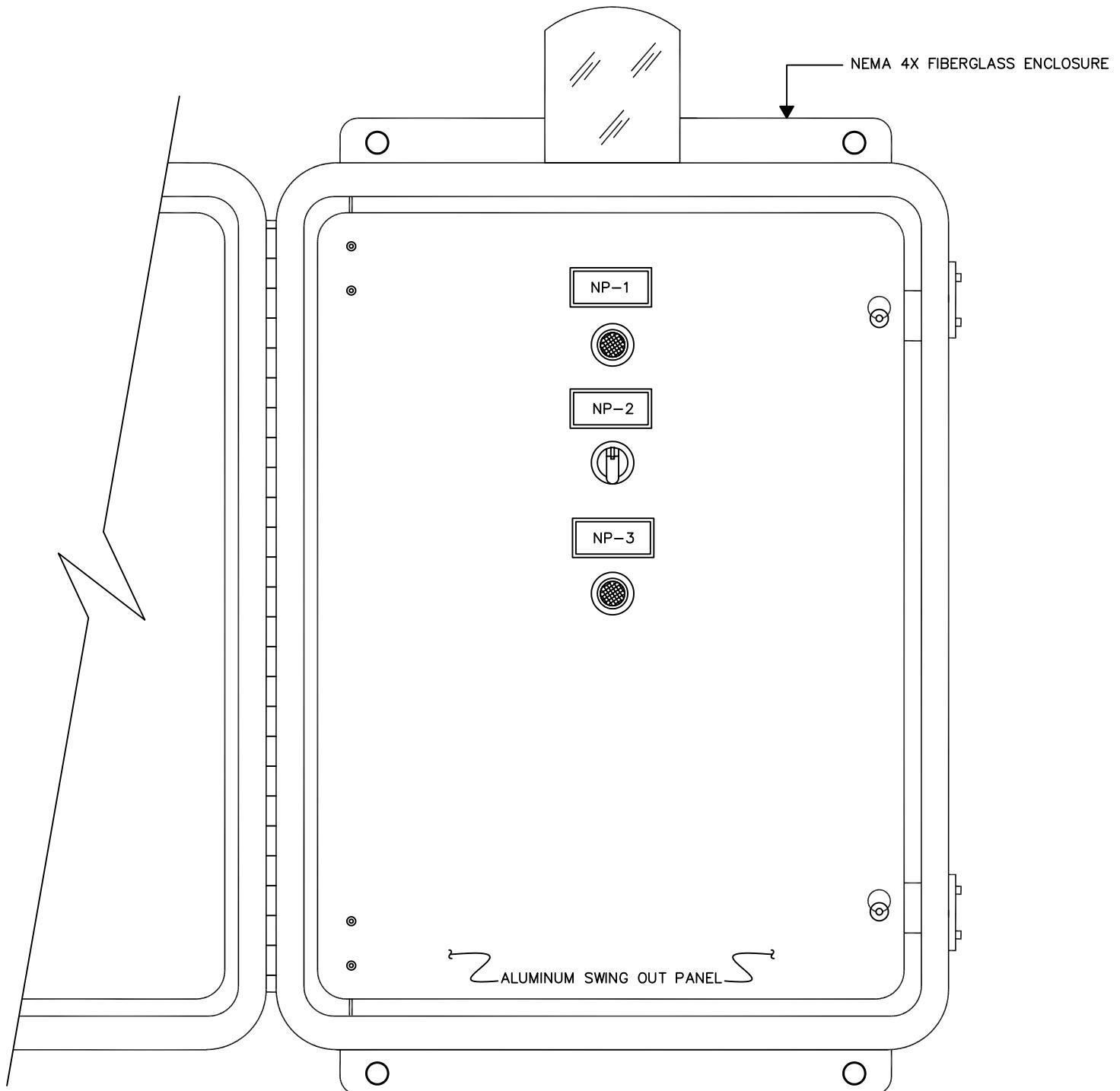
Project Title

SIMPLEX PUMP  
CONTROL PANEL

**COX**  
Research and Technology, Inc.

P.O. Box 77808  
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PURCHASE ORDER NUMBER  
DRAWING NUMBER CP-2308  
SHEET NUMBER 3



VIEW OF SWING OUT PANEL

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

NAMEPLATE SCHEDULE

NP-1	RUN
NP-2	HOA
NP-3	SEAL FAIL

	Drawing Title  ENCLOSURE								
		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	ECN	DATE APPROVED	BY	
DATE 2/16/06	Project Title  SIMPLEX PUMP CONTROL PANEL								
		<u>COX</u> Research and Technology, Inc.			P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER			
					Ph. (225)756-3271 Fax (225)755-1030	DRAWING NUMBER CP-2308			
						SHEET NUMBER 4			

# BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	STAHLIN	RJ1614HPLDF	ENCLOSURE
1a	1	STAHLIN	BP1614AL	BACKPLATE
2	1	ABB	OT63E3	MAIN DISC. SWITCH
3	1	ABB	A16-30-10-84	MOTOR STARTER
4	1	ABB	TA25DU19	O.L. (13-19A)
5	1	SQUARE D	QOU230	CB1
6	2	ACI	JR22FR	RED PILOT LIGHT
7	1	ACI	JR22P3M20B	HOA SWITCH
8	1	AC/DC	BL5-R-120	ALARM LIGHT
9	1	MARATHON	1323580	DISTRIBUTION BLOCK
10	1	SSAC	LLC54AA	SEAL FAIL RELAYS
11	1	SQUARE D	QOU110	CB2
12	1	MALLORY	4CU54	143 $\mu$ f CAPACITOR
13	1	GE	5X434	45 $\mu$ f CAPACITOR
14	1	GE	6X559	START RELAY
15				
16				
17				
18				
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21				
22				
23				
24				
25				

	Drawing Title  BILL OF MATERIALS						
DATE 2/16/06	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  SIMPLEX PUMP CONTROL PANEL	 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-2308				
			SHEET NUMBER				
							5