
COX

Research and Technology, Inc.

SANTA MONICA
20HP SOFT START
CONTROL PANEL

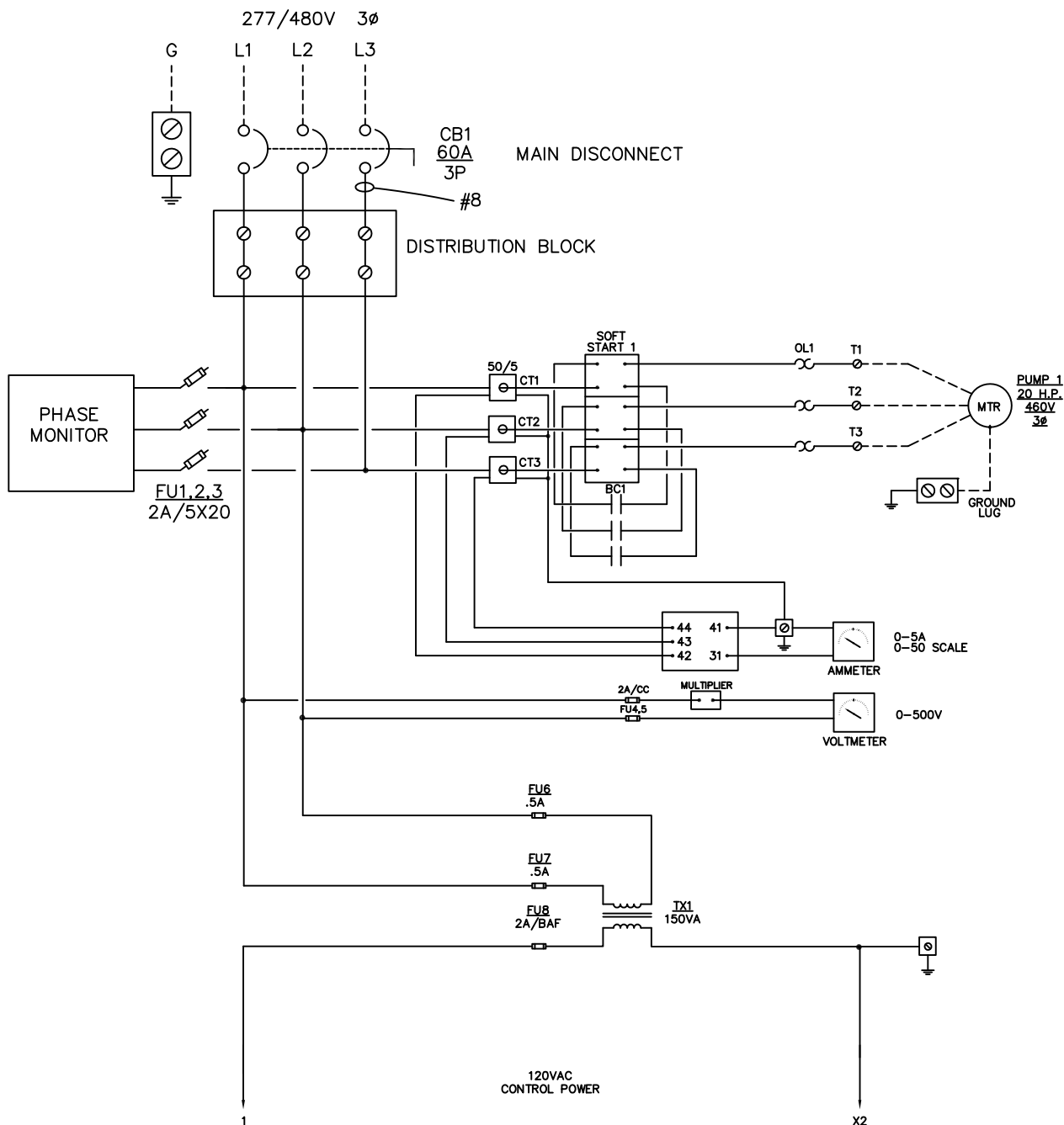
Cox Research and Technology, Inc.
14697 S. Harrells Ferry Road
Baton Rouge, LA. 70816
(225) 756-3271 Fax (225) 755-1030

CP-1950

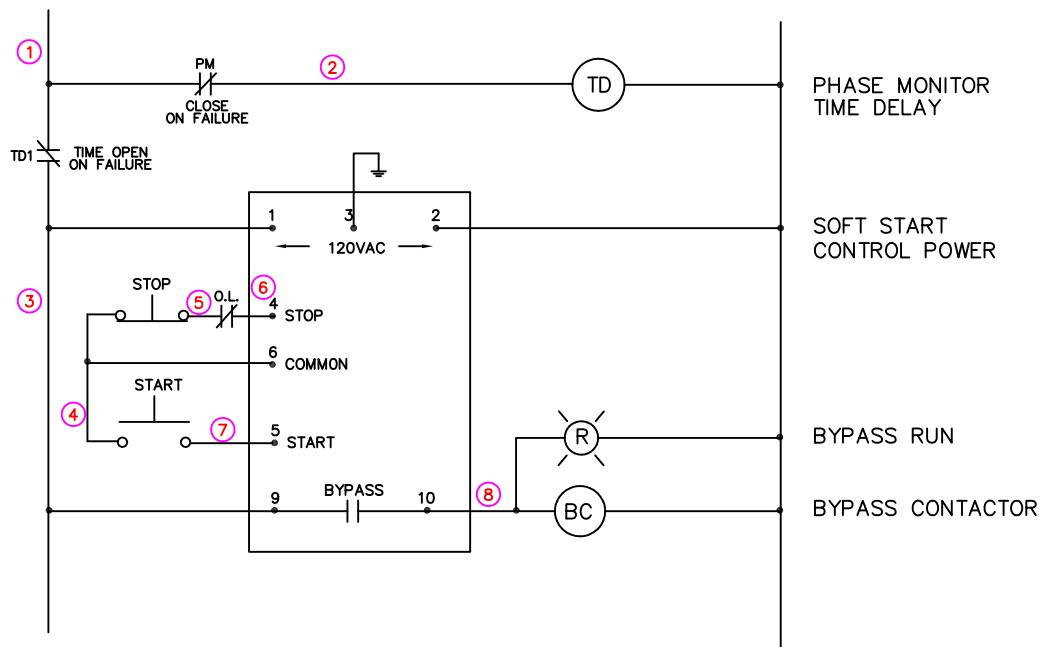
CONTROL VOLTAGE	120V	(120V, Other)
ENCLOSURE	NEMA 3R	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	Painted Steel	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR		(Floats, Bubbler, Other)
CAPACITORS	No	(Yes, No)
CAPACITOR WIRING FIGURE	N/A	
THERM. & SEAL FAIL WIRING FIGURE		

SEAL FAIL LIGHTS	_____	(Submersible Only)
SEAL FAIL RELAYS	_____	(Submersible Only)
SEAL FAIL PUMP SHUTDOWN	_____	(Submersible Only)
HT PUMP SHUTDOWN	_____	(Self-Primer, Submersible)
ALARM HORN	_____	
ALARM LIGHT	_____	
LIGHT PANEL MTD	_____	
LIGHT REMOTE MTD	_____	
LIGHT FLASHER	_____	
LIGHTNING ARRESTER	_____	
ELAPSED TIME METER	_____	
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	_____	
ECONOMY VERSION	_____	

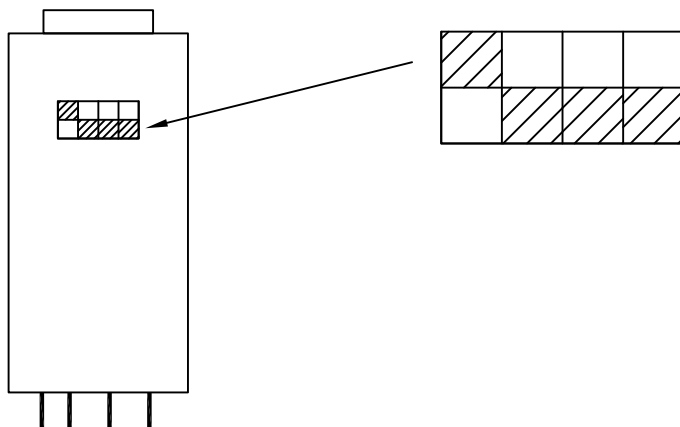
SHIP TO: _____
 _____[illegible]



	Drawing Title								
	POWER DIAGRAM								
DATE	11/11/04	REFERENCE DRAWING	NO.	REVISION-LOCATION	ECN	DATE	BY	APPROVED	
		S/N	Sales Engineer C.C.	Application Engineer R.C.	BY C. RACHAL	BY	DATE		
	Project Title	<div>COX</div> <div>Research and Technology, Inc.</div>			P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER		
	20 HP SOFT START CONTROL PANEL				Ph. (225)756-3271 Fax (225)756-1030		DRAWING NUMBER CP-1950		
							SHEET NUMBER 2		



PHASE MONITOR
TIME DELAY
FACTORY SETTINGS
DO NOT DISTURB!



FACTORY SETTINGS

SOFT START

RAMP UP 10 SEC.

RAMP DOWN 10 SEC.

INITIAL VOLTAGE 30%

PHASE MONITOR

480V

UNBALANCE 5%

TRIP DELAY 5 SEC.

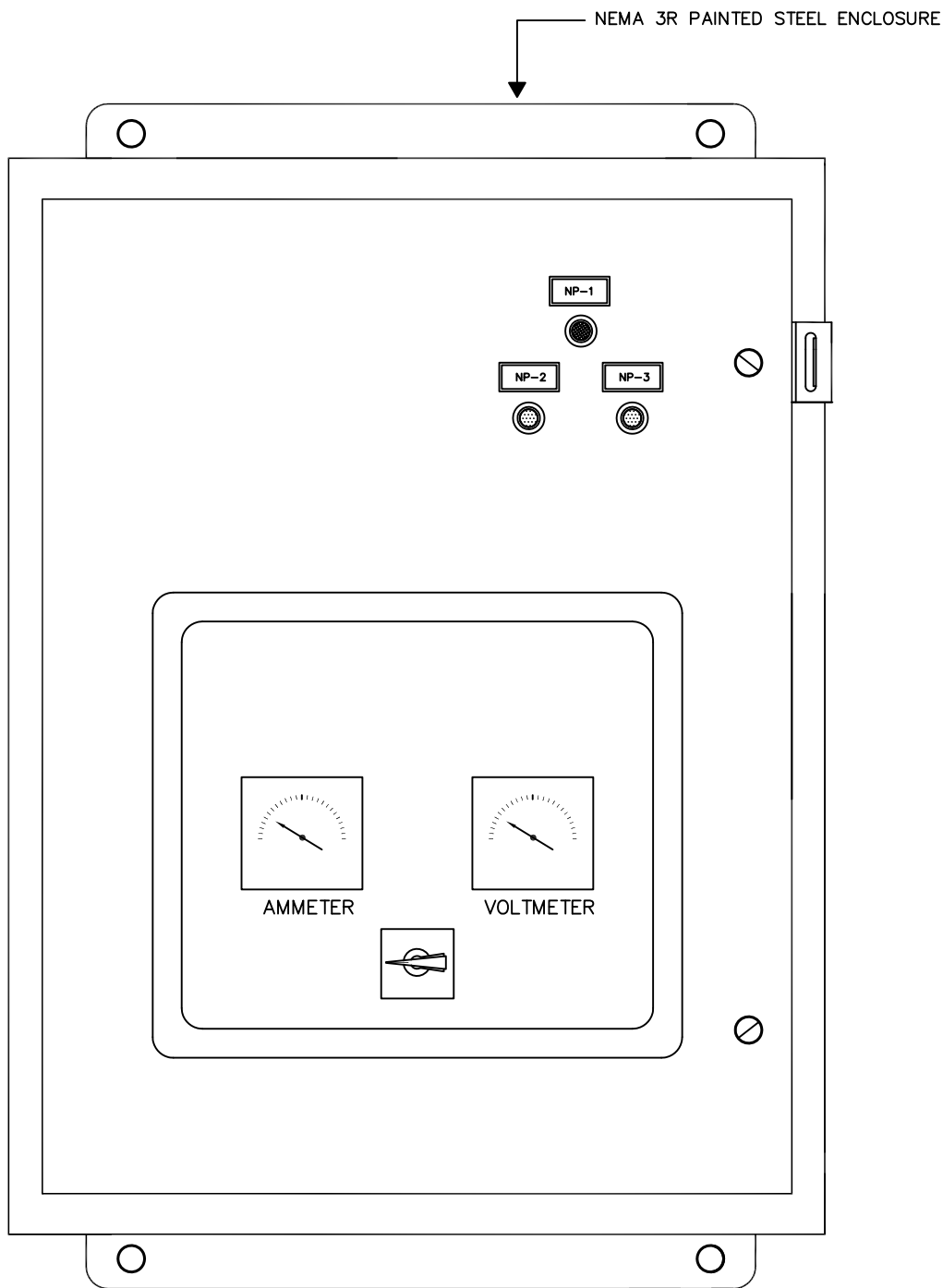
	Drawing Title							
	CONTROL DIAGRAM							
DATE 11/11/04		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	ECN	DATE	BY
	Project Title	PURCHASE ORDER NUMBER						
	20 HP SOFT START CONTROL PANEL	DRAWING NUMBER CP-1950						
		SHEET NUMBER						

COX

Research and Technology, Inc.

P.O. Box 77808
Baton Rouge, LA
70809

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



VIEW OF FRONT OF PANEL

NAMEPLATE SCHEDULE

NP-1 BYPASS RUN
NP-2 STOP
NP-3 START

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

	Drawing Title ENCLOSURE							
DATE 11/11/04			REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	DRAWN BY C. RACHAL	ECN BY	DATE DATE
	Project Title 20 HP SOFT START CONTROL PANEL		<div>COX</div> <div>Research and Technology, Inc.</div>			P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER
Ph. (225)756-3271 Fax (225)756-1030						DRAWING NUMBER CP-1950		
						SHEET NUMBER 3		

BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	B-LINE	24208RHC	ENCLOSURE
1a	1	B-LINE	N2420P	BACKPLATE
2	1	ABB	S1N060TL	CB1 480V 3P 60A
3	1	ABB	TA42DU32	O.L. RELAY (22-32A)
4	1	ABB	PSS30/52-500F	SOFT START
5	1	ABB	A30-30-10-84	BYPASS CONTACTOR
6	1	MARATHON	1323580	DISTRIBUTION BLOCK
7	1	SSAC	PLMU-11	PHASE MONITOR
8	1	ACI	JR22FR	RED LIGHTS
9	2	ACI	JR22AN11B	PUSH BUTTONS
10	1	OMRON	H3YN2AC120	TD1
11	1	ABB	T4150PSF1	TRANSFORMER W/COVERS
12	1	B LINE	HWK1212	WINDOW KIT
13	1	SIMPSON	4TL72	AMMETER
14	1	SIMPSON	1X099	VOLTMETER
15	1	ELECTROSWITCH	3115A	SWITCH
16	3	ITT	2SFT500/50:5	CURRENT TRANSFORMER
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				

	Drawing Title						
	<h3>BILL OF MATERIALS</h3>						
DATE 11/11/04		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN	DATE	BY
	Project Title	<div style="border: 1px solid black; padding: 5px; margin: 0 auto; width: 150px;"> <h2 style="margin: 0;">COX</h2> <p style="margin: 0; font-size: small;">Research and Technology, Inc.</p> </div>			P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)756-1030		PURCHASE ORDER NUMBER DRAWING NUMBER CP-1950 SHEET NUMBER <div style="text-align: right;">4</div>
	20 HP SOFT START CONTROL PANEL						