

---

---

# COX

Research and Technology, Inc.

---

---

DELTA DOWNS  
WATER TREATMENT PLANT  
SERVICE PUMP 1  
CONTROL PANEL

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

VOLTAGE	277/480V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	3/60	
NO. MOTORS	1	
HP	50	
FLA	67.7A	
TYPE OF PUMP	Submersible	(Self-Priming, Submersible)
MANUFACTURER		
CATALOG NUMBER		
CONTROL VOLTAGE	120V	(120V, Other)
ENCLOSURE	NEMA 3R	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	Stainless 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		(Self-Primer, Submersible)
ALARM HORN		
ALARM LIGHT		
LIGHT PANEL MTD		
LIGHT REMOTE MTD		
LIGHT FLASHER		
LIGHTNING ARRESTER	X	
ELAPSED TIME METER	X	
PHASE MONITOR	X	
NEMA RATED STARTERS	X	
GROUND FAULT RECPT.		
GREEN RUN LIGHTS VS. RED		
POLE, BOX, SEAL		
INTRINSICALLY SAFE RELAYS		
HIGH TEMP. LOCKOUT, MANUAL RESET		
ECONOMY VERSION		

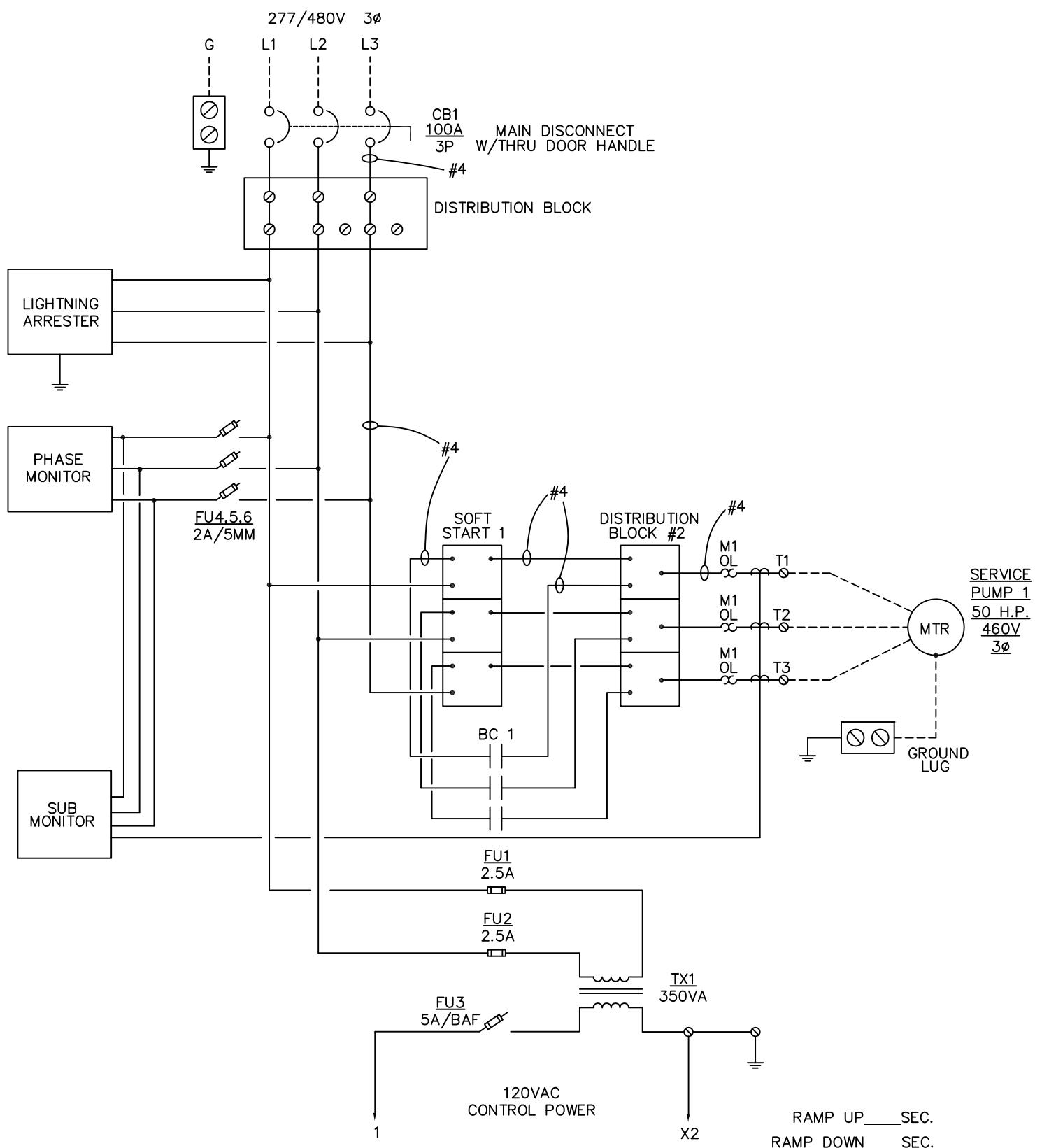
SOLD TO:

TAG : Delta Downs Water Treatment Plant  
Service Pump 1

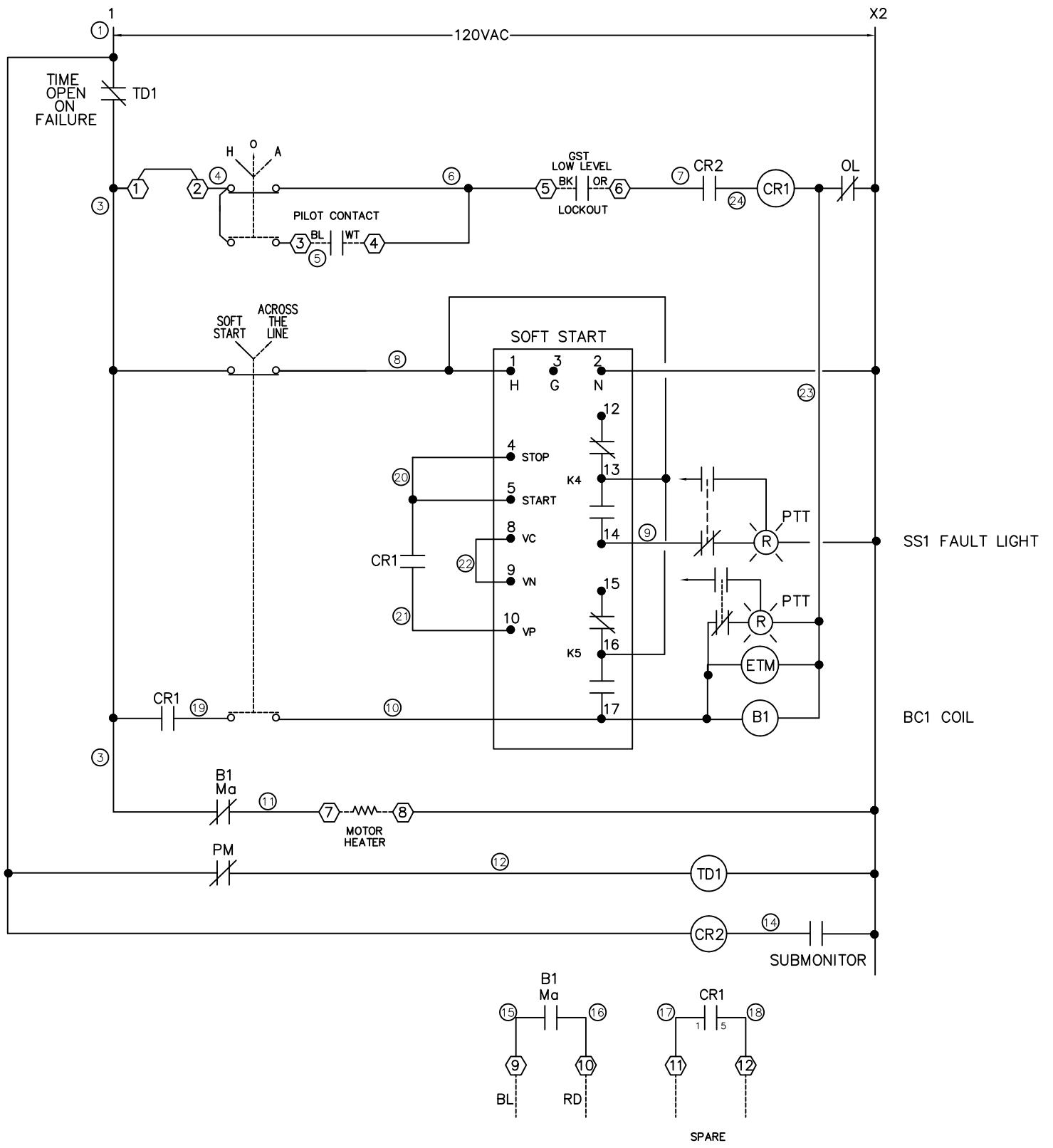
SHIP TO:

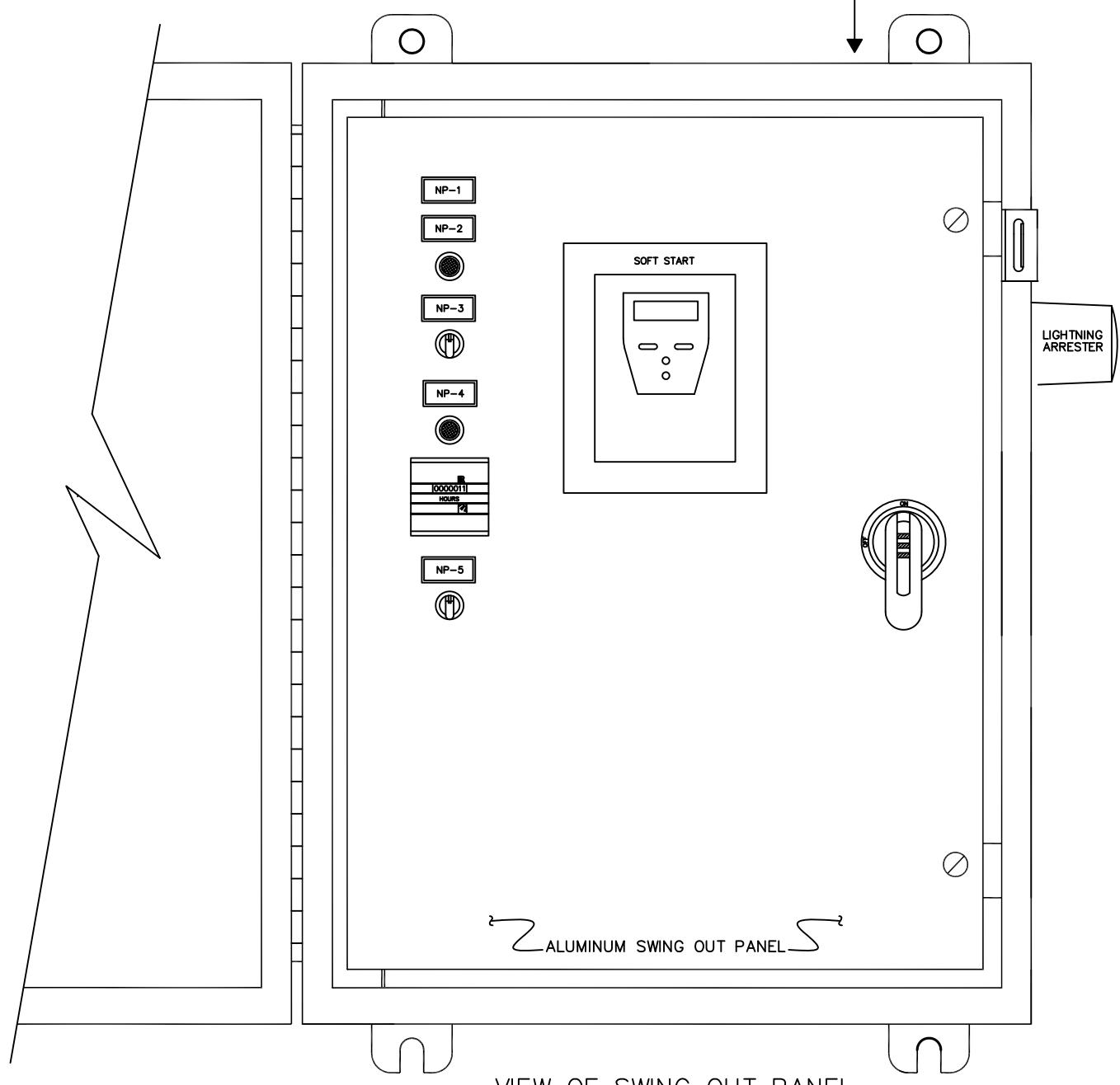
Drawing Title	PANEL DESCRIPTION	REFERENCE DRAWING		NO.	REVISION-LOCATION		ECN	DATE	BY
		S/N	Sales Engineer	Application Engineer	DRAWN	BY C. RACHAL	BY	APPROVED	DATE
9/02/04 8/31/04	Project Title  SERVICE PUMP 1 CONTROL PANEL				P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER		
					Ph. (225)756-3271 Fax (225)756-1030		DRAWING NUMBER	CP-1885	
							SHEET NUMBER		1



	Drawing Title						
	POWER DIAGRAM						
DATE 9/02/04	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN	DATE	BY	
Project Title							
SERVICE PUMP 1 CONTROL PANEL	<b>COX</b> Research and Technology, Inc.			P.O. Box 77808 Baton Rouge, LA 70809	PURCHASE ORDER NUMBER		
				Ph. (225)756-3271 Fax (225)756-1030	DRAWING NUMBER CP-1885		
					SHEET NUMBER 2		



	Drawing Title									
	POWER DIAGRAM									
DATE 9/02/04	REFERENCE DRAWING		NO.		REVISION-LOCATION		ECN		DATE BY	
	S/N	Sales Engineer C.C.	Application Engineer	R.C.	DRAWN BY C. RACHAL	APPROVED BY	DATE	BY DATE		
	Project Title									
	SERVICE PUMP 1 CONTROL PANEL		<hr/> <hr/> <b>COX</b> <hr/> <hr/> Research and Technology, Inc. <hr/> <hr/>		P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER			
					DRAWING NUMBER CP-1885					
					SHEET NUMBER				3	



VIEW OF SWING OUT PANEL

NAMEPLATE SCHEDULE

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

NP-1	PUMP
NP-2	RUN
NP-3	HOA
NP-4	SOFT START FAULT
NP-5	SOFT START/ACROSS THE LINE

	Drawing Title					
	ENCLOSURE					
DATE 9/02/04	REFERENCE DRAWING S/N	NO. C.C.	REVISION-LOCATION DRAWN BY C. RACHAL	ECN	DATE APPROVED BY DATE	BY
	Project Title					
	SERVICE PUMP 1 CONTROL PANEL		COX Research and Technology, Inc.		PURCHASE ORDER NUMBER	
					DRAWING NUMBER CP-1885	
					SHEET NUMBER 4	

# BILL OF MATERIALS

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION	
1	1	EBE	S302410REPL	ENCLOSURE	
1a	1	EBE	3024P	BACKPLATE	
1b	1	EBE	A3024SP	DEAD FRONT	
2	1	ABB	S3N100TW	CB1 480V 3P 100A	
3	1	ABB	TA75DU80	O.L. RELAY (60-80A)	
4	1	ABB	PST72-600-70	SOFT START	
5	1	ABB	DB80	MOUNT KIT FOR O.L.	
6	1	ABB	75N3-30-11-84	BYPASS CONTACTOR	
7	2	MARATHON	1323580	DISTRIBUTION BLOCK	
8	1	DELTA	LA603	LIGHTNING ARRESTER	
9	1	SSAC	PLMU-11	PHASE MONITOR	
10	2	A-B	800H-QRT10R	RED PTT LIGHT	
11	1	A-B	800H-JR2A	HOA SWITCH	
12	1	REDINGTON	711-0190	ETM	
13	1	OMRON	MK3PN5SAC120	CR1	
14	1	OMRON	H3YN2AC120	TD1	
15	1	A-B	800H-HR2A	2 POSITION SWITCH	
16	1	FRANKLIN ELECTRIC	SUBMONITOR	PUMP PHASE PROTECTION	
17	1	ABB	K5VDM	MECHANISM	
18	1	ABB	OXP10X500	SHAFT	
19	1	ABB	OHB65J10	HANDLE	
20	2	ABB	K4TC	LUGS FOR C.B.	
21	1	ABB	T4350PSF1	TRANSFORMER W/COVERS	
22	2	ABB	K4LCH	SHROUD FOR C.B.	
23	1	ABB	CAL5-11	AUX. CONTACT	
*	24	1	SIEMENS	3RW3046-1AB14	SOFT START
*	25	1	SIEMENS	CQD 3100	CB1
*	26	1	SIEMENS	RHOCQVD	THRU DOOR HANDLE
*	27	1	SIEMENS	40HP32A	BYPASS CONTACTOR
*	28	1	SIEMENS	48BSK3M10	O.L.
	29				

\* ALTERNATE MATERIALS

Drawing Title  BILL OF MATERIALS						
	REFERENCE DRAWING S/N		NO. C.C.	REVISION-LOCATION DRAWN BY C. RACHAL		ECN
DATE 9/02/04	Project Title  SERVICE PUMP 1 CONTROL PANEL		<b>COX</b> <small>Research and Technology, Inc.</small>		P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)756-1030	
					PURCHASE ORDER NUMBER  DRAWING NUMBER CP-1885  SHEET NUMBER 5	