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# COX

Research and Technology, Inc.

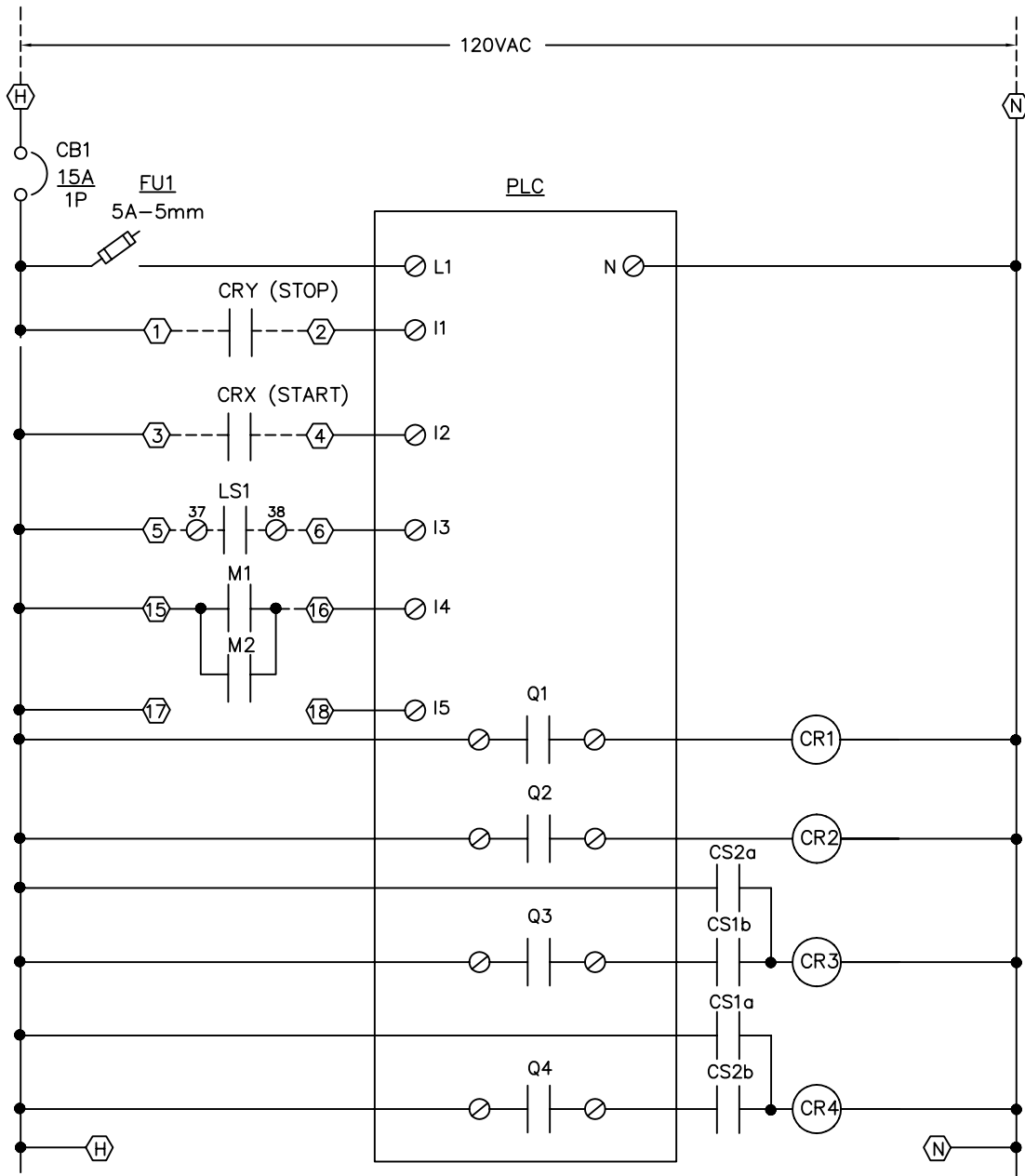
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## SIMPLEX PUMP CONTROL PANEL

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

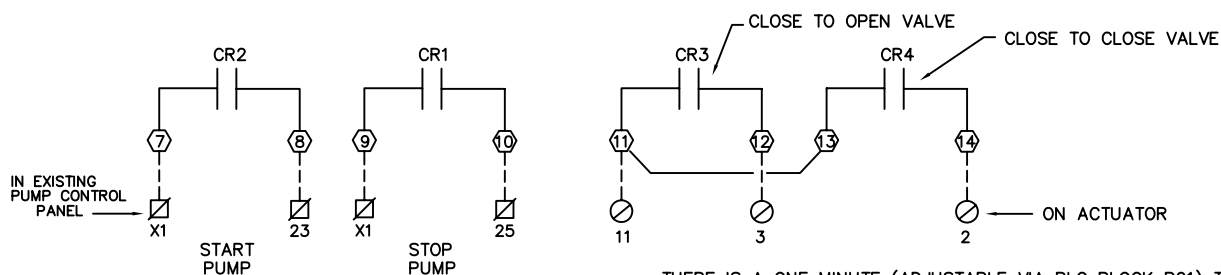
CP-1550



SWITCH DEVELOPMENT			
	CLOSE	AUTO	OPEN
CS1a	X		
CS1b		X	
CS2a			X
CS2b		X	

SEE NOTE

**NOTE:**  
THE VALVE WILL NOT CLOSE  
IF A PUMP IS NOT RUNNING.



THERE IS A ONE MINUTE (ADJUSTABLE VIA PLC BLOCK B01) TIME DELAY  
BEFORE PUMPS ARE ALLOWED TO RESTART AFTER RESTORATION OF POWER

**ON RISING LEVEL:**

- CONTROL VALVE IS OPEN
- FS1 CLOSES
- FS2 CLOSES
- LEAD PUMP STARTS
- CONTROL VALVE STARTS TO CLOSE
- LS1 OPENS
- AFTER \_\_\_\_\_ SECONDS, CONTROL VALVE FULLY CLOSES

**ON FALLING LEVEL:**

- FS2 OPENS
- FS1 OPENS
- CONTROL VALVE STARTS TO OPEN
- AFTER \_\_\_\_\_ SECONDS, CONTROL VALVE FULLY OPENS
- LS1 CLOSES
- LEAD PUMP STOPS

PROGRAM: SANTA INES

Drawing Title	CONTROL DIAGRAM		1	REVISION-LOCATION	ECN	DATE	BY
DATE 4/11/03	Project Title		Sales Engineer C.C.	Application Engineer R.C.	BY C. RACHAL	APPROVED	DATE
CONTROL PANEL		COX		P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER	
		Research and Technology, Inc.		Ph. (225)756-3271 Fax (225)756-1030		DRAWING NUMBER CP-1550	
						SHEET NUMBER 1	

# BILL OF MATERIAL

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	VYNCKIER	VJ1412HWPL	ENCLOSURE
2	1	VYNCKIER	MP1412	BACKPLATE
3	1	SQUARE D	QOU170	CB1
4	1	ABB	A40 30 10 84	MS1
5	1	ABB	TA42DU42	OL (29-42A)
6	1	EZ SWITCH	STOCK	TOGGLE HOA
7	1	ACI	JR22FR	RUN LIGHT
8	1	INGRAM	MX-15	ALARM LIGHT
9				
10				

	Drawing Title						
	<h2 style="margin: 0;">BILL OF MATERIALS</h2>						
DATE 4/11/03		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN	DATE	BY
	Project Title	<div style="border-top: 3px double black; border-bottom: 3px double black; padding: 5px 0;"> <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)756-1030		PURCHASE ORDER NUMBER  DRAWING NUMBER <div style="text-align: right;">CP-1550</div> SHEET NUMBER <div style="text-align: right;">2</div>
	<h2 style="margin: 0;">SIMPLEX PUMP CONTROL PANEL</h2>						