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# COX

Research and Technology, Inc.

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## DUPLEX BLOWER CONTROL PANEL

### LAKE BRUIN MAINTENANCE OFFICE

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

CP-2353

VOLTAGE	120/240V	(480V, 277/480V, 240V, 120/240V, 208V, 120/208V)
PHASE/HZ	1/60	
NO. MOTORS	2	
HP	1.5	
FLA	12	
TYPE OF PUMP	Blower	
MANUFACTURER		
CATALOG NUMBER		
CONTROL VOLTAGE	120V	(120V, Other)
ENCLOSURE	NEMA 4X	(NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)
ENCLOSURE MATERIAL	Stainless Steel	(Painted Steel, Stainless Steel, Fiberglass)
CONTROL SENSOR		(Floats, Bubbler, Other)
CAPACITORS		(Yes, No)
CAPACITOR WIRING FIGURE		
THERM. & SEAL FAIL WIRING FIGURE		

OPTIONS:

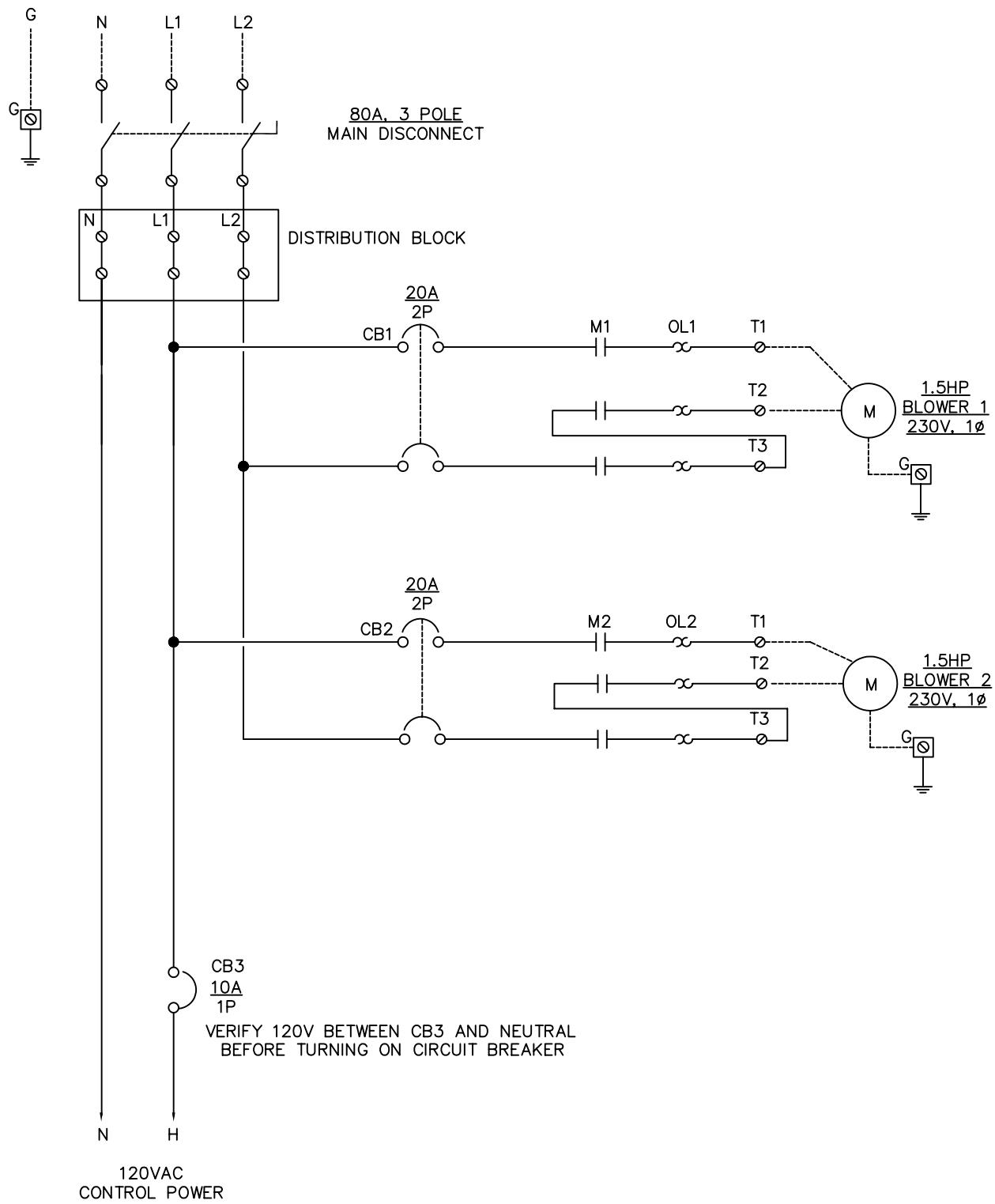
SEAL FAIL LIGHTS		(Submersible Only)
SEAL FAIL RELAYS		(Submersible Only)
SEAL FAIL PUMP SHUTDOWN		(Submersible Only)
HT PUMP SHUTDOWN		(Self-Primer, Submersible)
ALARM HORN		
ALARM LIGHT		
LIGHT PANEL MTD		
LIGHT REMOTE MTD		
LIGHT FLASHER		
LIGHTNING ARRESTER		
ELAPSED TIME METER		
PHASE MONITOR		
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: Delta Process Equipment, Inc. - Ruston, LA  
TAG : LAKE BRUIN MAINTENANCE OFFICE

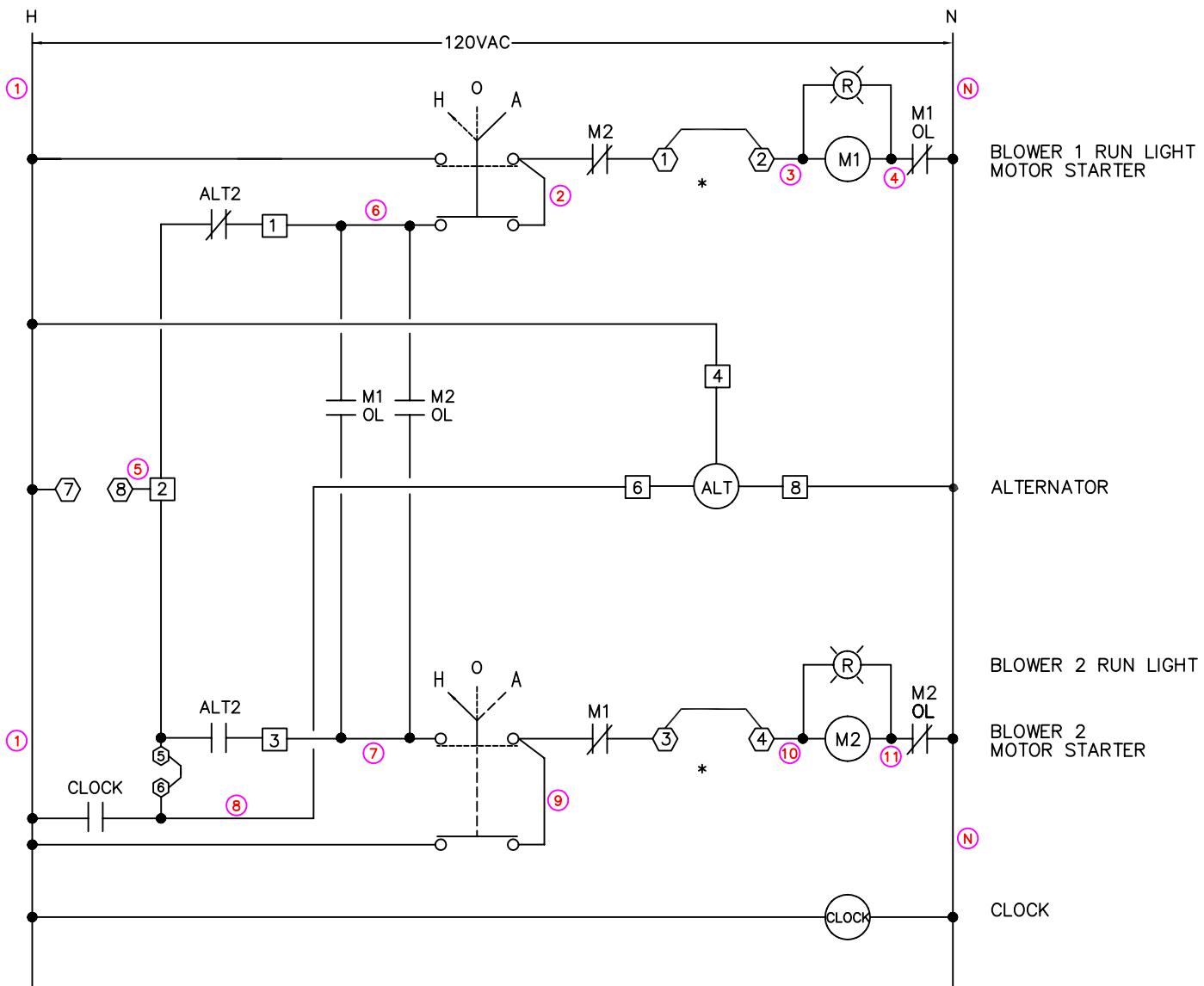
SHIP TO: Delta Process Equipment, Inc. - Ruston, LA

Drawing Title  PANEL DESCRIPTION								
	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  DUPLEX BLOWER CONTROL PANEL	<u>COX</u> Research and Technology, Inc.				P.O. Box 77808 Baton Rouge, LA 70809		PURCHASE ORDER NUMBER	
							DRAWING NUMBER	
							CP-2353	
							SHEET NUMBER	
							1	

MAIN SERVICE  
120/240V, 1Ø



	Drawing Title  POWER DIAGRAM				
DATE 4/04/06	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN Application Engineer R.C.	ECN DRAWN BY C. RACHAL	DATE APPROVED BY DATE
	Project Title  DUPLEX BLOWER 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-2353 SHEET NUMBER 2	

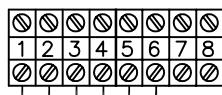
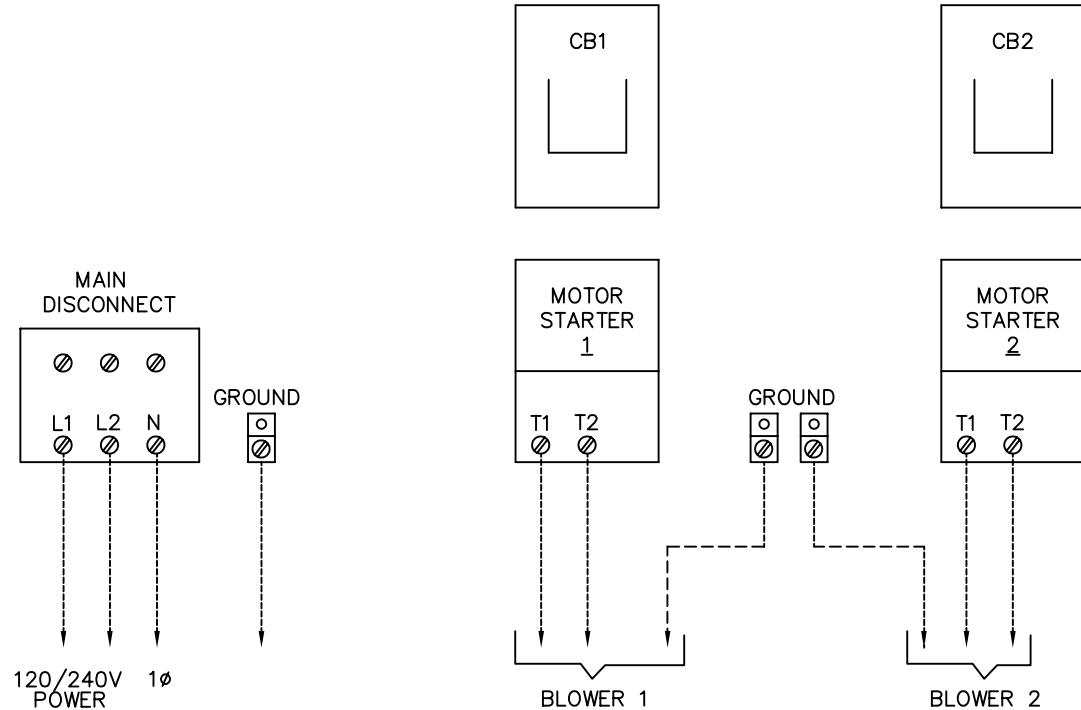


PANEL IS DESIGNED TO RUN BLOWERS WITH A MINIMUM OF 15 MINUTES OF OFF TIME BETWEEN ALTERNATION. PINS PUSHED OUT ON CLOCK INDICATE RUN TIME. PINS PUSHED IN INDICATE OFF TIME. EACH PIN IS EQUAL TO 15 MINUTES.

IF NO OFF TIME IS REQUIRED BETWEEN ALTERNATION, REMOVE JUMPER FROM TERMINALS ⑤ AND ⑥. PLACE JUMPER ACROSS TERMINALS ⑦ AND ⑧. NOW BLOWERS WILL RUN CONTINUOUSLY. SET 1 PIN IN AT THE TIME YOU WISH THE BLOWERS TO ALTERNATE. ALL REMAINING PINS SHOULD BE PUSHED OUT.

\* REMOVE JUMPERS AND INSTALL LOCKOUT DEVICES IF REQUIRED

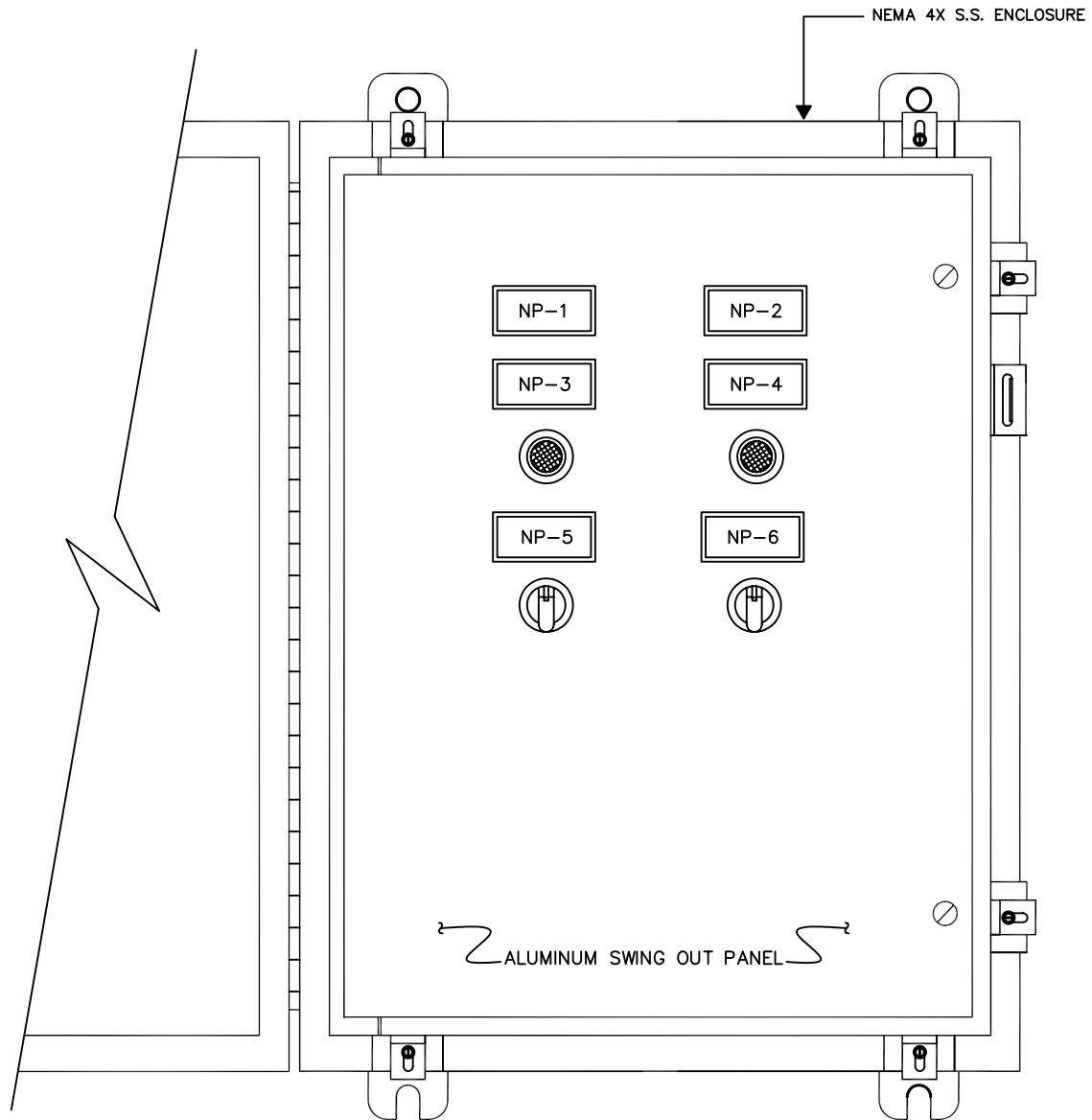
	Drawing Title  CONTROL DIAGRAM				
DATE 4/04/06		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN Application Engineer R.C.	ECN APPROVED BY C. RACHAL BY DATE
	Project Title  DUPLEX BLOWER CONTROL PANEL		COX Research and Technology, Inc.	P.O. Box 77808 Baton Rouge, LA 70809 Ph. (225)756-3271 Fax (225)755-1030	PURCHASE ORDER NUMBER  DRAWING NUMBER CP-2353 SHEET NUMBER 3



REMOVE JUMPERS & INSTALL  
LOCKOUT DEVICES IF REQUIRED

IF NO OFF TIME IS REQUIRED BETWEEN  
ALTERNATION, REMOVE JUMPER FROM  
TERMINALS ⑤ AND ⑥. PLACE JUMPER ACROSS  
TERMINALS ⑦ AND ⑧. NOW BLOWERS WILL RUN  
CONTINUOUSLY. SET 1 PIN IN AT THE TIME YOU  
WISH THE BLOWERS TO ALTERNATE.  
ALL REMAINING PINS SHOULD BE PUSHED OUT.

	Drawing Title					
	EXTERNAL CONNECTIONS					
DATE 4/04/06		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY C. RACHAL	DATE APPROVED BY DATE
	Project Title  DUPLEX BLOWER 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-2353  SHEET NUMBER 4	



VIEW OF FRONT OF ENCLOSURE

NAMEPLATE SCHEDULE

NP-1	BLOWER 1
NP-2	BLOWER 2
NP-3	RUN
NP-4	RUN
NP-5	HOA
NP-6	HOA

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

Drawing Title  <b>ENCLOSURE</b>						
	REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION Application Engineer R.C.	ECN DRAWN BY C. RACHAL	DATE APPROVED BY	BY
Project Title  <b>DUPLEX BLOWER CONTROL PANEL</b>	<b>COX</b> 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-2353  SHEET NUMBER 5	

# BILL OF MATERIAL

ITEM	QTY	MANUFACTURER	PART NO.	DESCRIPTION
1	1	C & I	C-201610ST4X	ENCLOSURE
2	1	C & I	CI-2016P	BACKPLATE
3	1	C & I	CI-2016SPA	SWING PANEL
4	2	ABB	A16NO-30-10-84	STARTER
5	2	ABB	TA25DU11	O.L. (7.5-11A)
6	2	SQUARE D	QUO220	CIRCUIT BREAKER 1,2
7	1	MARATHON	1323580	DISTRIBUTION BLOCK
8	2	ACI	JR22P3M20B	H.O.A. SWITCH
9	2	ACI	JR22FR	RED PILOT LIGHTS
10	1	TIMEMARK	261DT120	ALTERNATING RELAY
11	1	GRASSLIN	FM1/STUZL	TIMER
12	1	ABB	OT63E3	MAIN DISCONNECT
13	1	SQUARE D	QUO110	CIRCUIT BREAKER 3

DATE 4/04/06	Drawing Title  <b>BILL OF MATERIALS</b>					
		REFERENCE DRAWING S/N	NO. Sales Engineer C.C.	REVISION-LOCATION DRAWN R.C.	ECN APPROVED BY C. RACHAL	DATE BY BY DATE
Project Title  <b>DUPLEX BLOWER CONTROL PANEL</b>	 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-2353	
					SHEET NUMBER 6	