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# COX

Research and Technology, Inc.

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DUPLEX PUMP  
CONTROL PANEL  
SIMSBORO  
LIFT STATION 11

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

CP-2256

|                                  |             |  |
|----------------------------------|-------------|--|
| VOLTAGE                          | 120/240V    | (480V, 277/480V, 240V, 120/240V, 208V, 120/208V) |
| PHASE/HZ                         | 3/60        |  |
| NO. MOTORS                       | 2           |  |
| HP                               | 15          |  |
| FLA                              | 38          |  |
| TYPE OF PUMP                     | Submersible | (Self-Priming, Submersible)                      |
| MANUFACTURER                     | Barnes      |  |
| CATALOG NUMBER                   |             |  |
|                                  |             |  |
| CONTROL VOLTAGE                  | 120V        | (120V, Other)                                    |
| ENCLOSURE                        | NEMA 4X     | (NEMA 1, NEMA 3R, NEMA 4, NEMA 4X)               |
| ENCLOSURE MATERIAL               | Fiberglass  | (Painted Steel, Stainless Steel, Fiberglass)     |
| CONTROL SENSOR                   | Floats      | (Floats, Bubbler, Other)                         |
| CAPACITORS                       | No          | (Yes, No)  |
| CAPACITOR WIRING FIGURE          |             |  |
| THERM. & SEAL FAIL WIRING FIGURE |             |  |

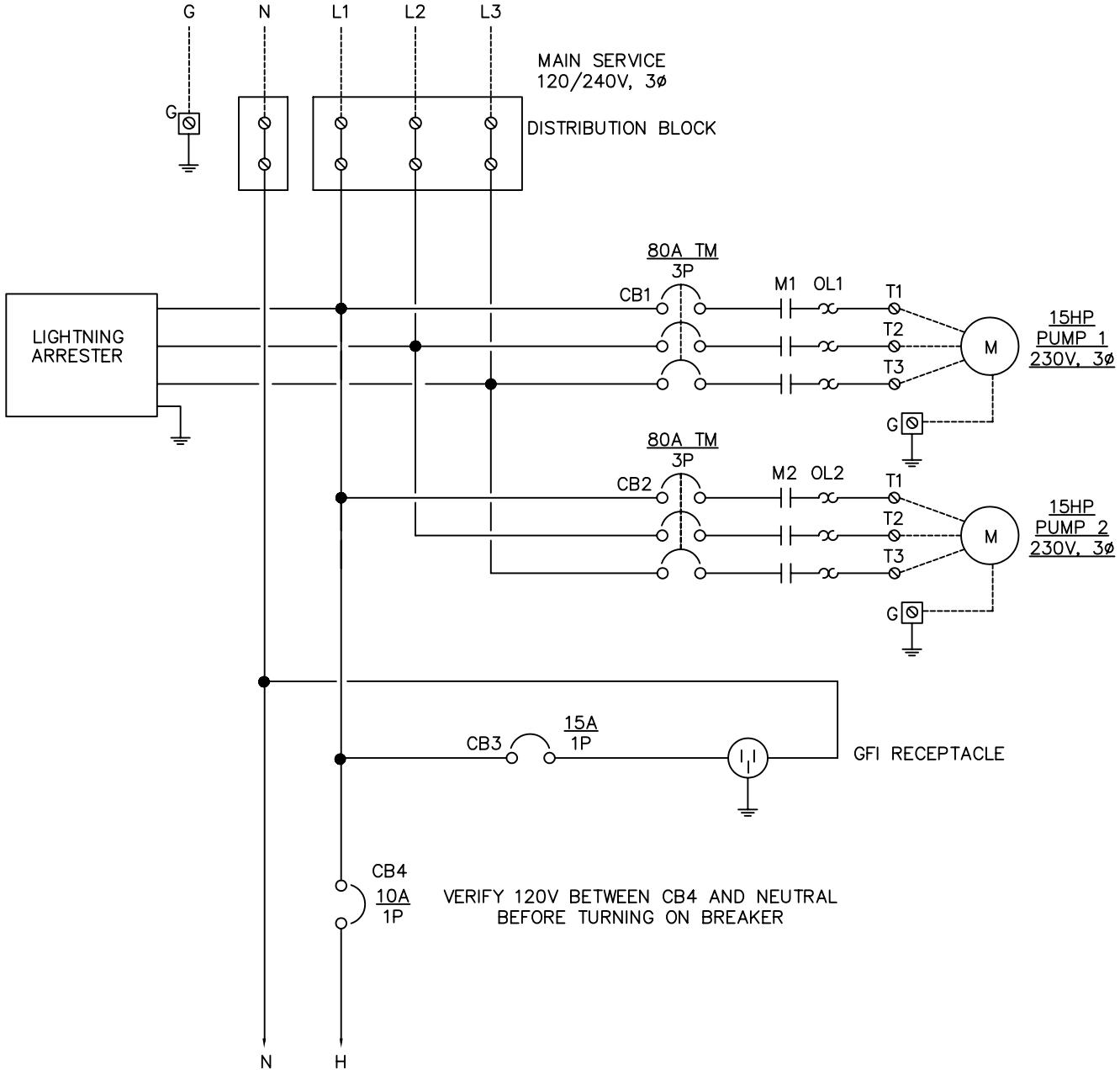
OPTIONS:

|                                  |       |                            |
|----------------------------------|-------|----------------------------|
| SEAL FAIL LIGHTS                 | X     | (Submersible Only)         |
| SEAL FAIL RELAYS                 |       | (Submersible Only)         |
| SEAL FAIL PUMP SHUTDOWN          |       | (Submersible Only)         |
| HT PUMP SHUTDOWN                 | X     | (Self-Primer, Submersible) |
| ALARM HORN                       |       |                            |
| ALARM LIGHT                      | X     |                            |
| LIGHT PANEL MTD                  | X     |                            |
| LIGHT REMOTE MTD                 |       |                            |
| LIGHT FLASHER                    |       |                            |
| LIGHTNING ARRESTER               | X     |                            |
| ELAPSED TIME METER               | X     |                            |
| PHASE MONITOR                    |       |                            |
| NEMA RATED STARTERS              | X ABB |                            |
| GROUND FAULT RECPT.              | X     |                            |
| GREEN RUN LIGHTS VS. RED         |       |                            |
| POLE, BOX, SEAL                  |       |                            |
| INTRINSICALLY SAFE RELAYS        |       |                            |
| HIGH TEMP. LOCKOUT, MANUAL RESET |       |                            |
| ECONOMY VERSION                  |       |                            |

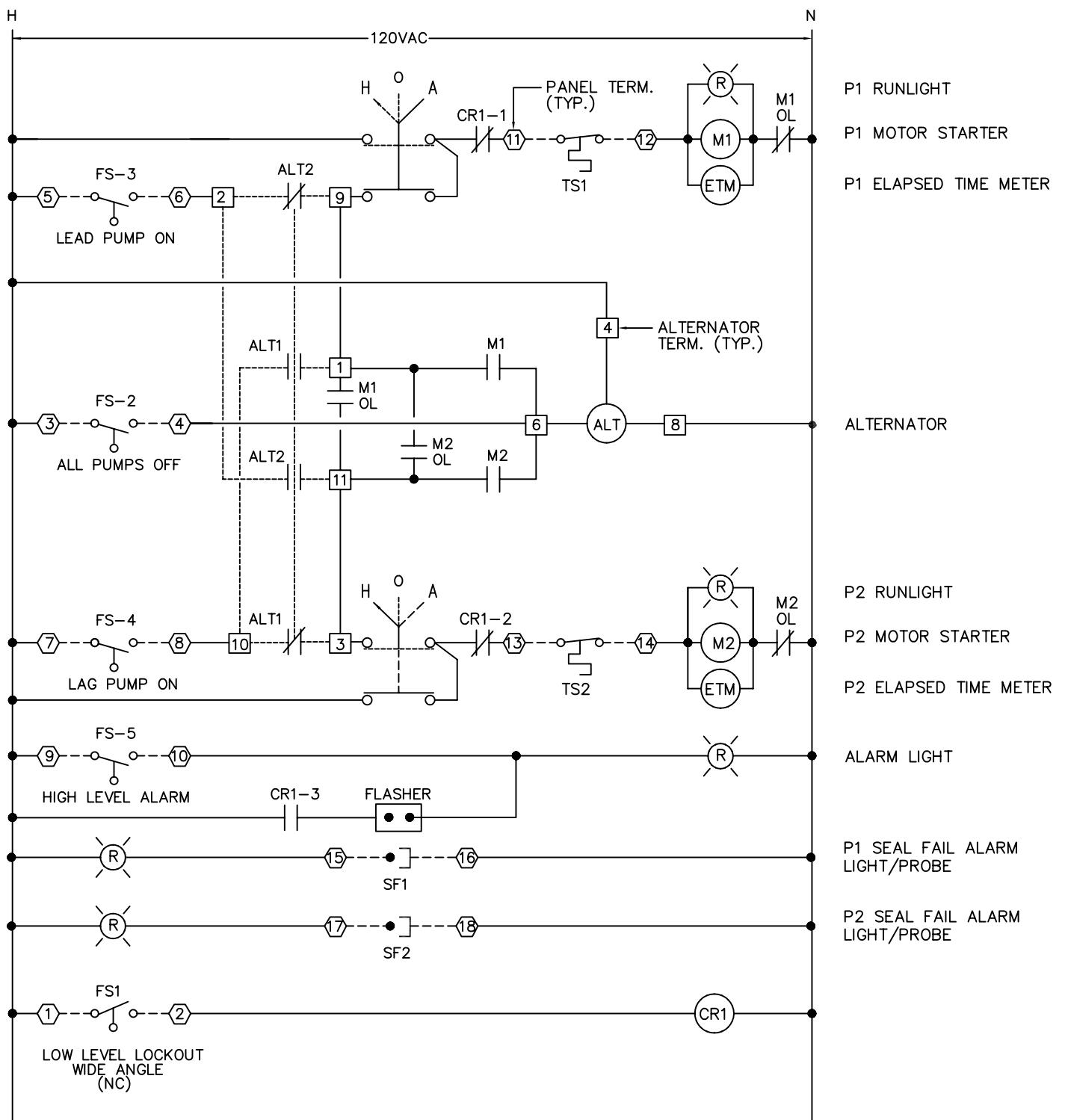
SOLD TO: Delta Process - Ruston, LA  
TAG : Simsboro Lift Station 11

SHIP TO: Delta Process - Ruston, LA

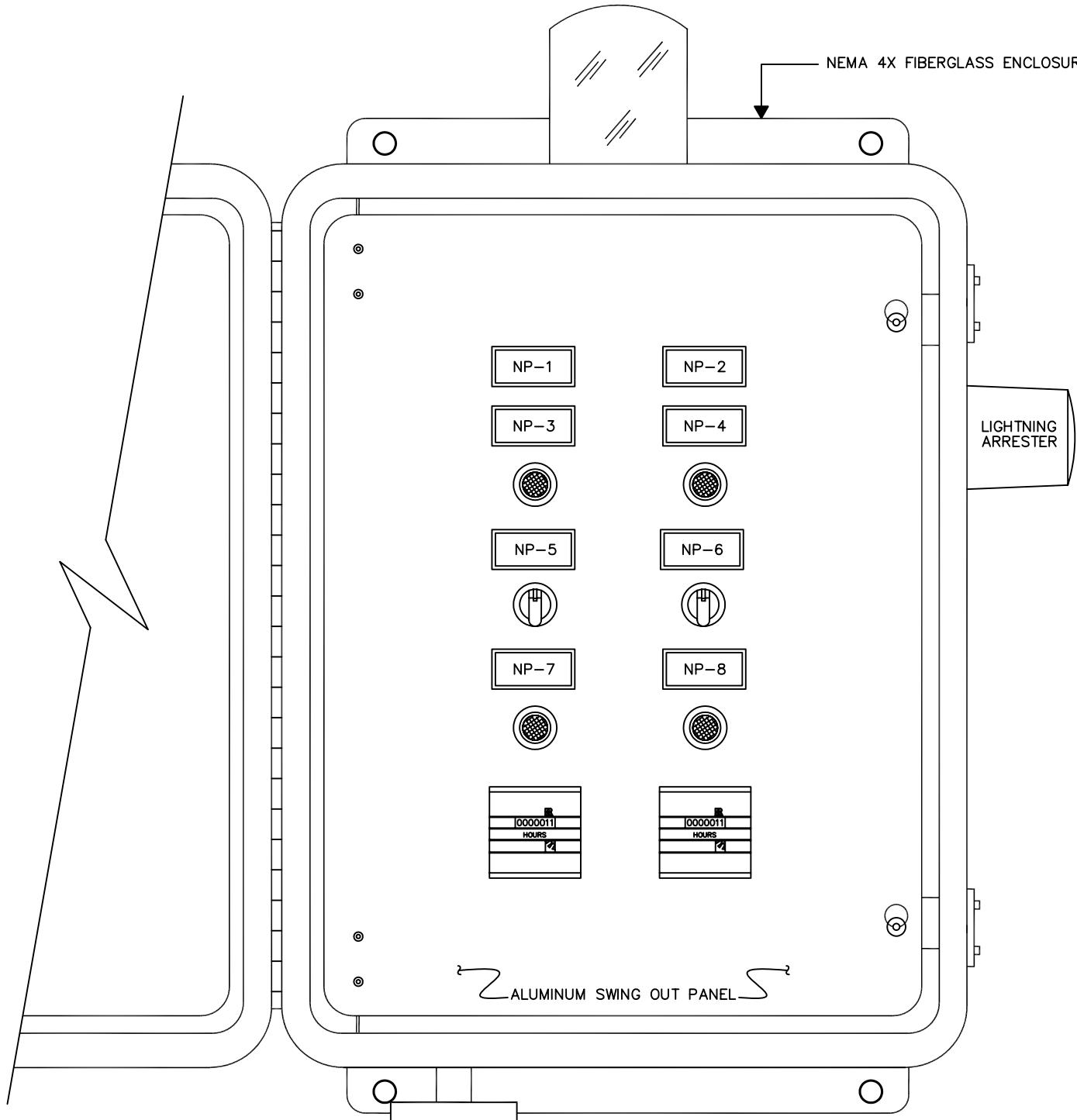
|                  | Drawing Title<br><br>PANEL DESCRIPTION            |                          |                                       |   |  |     |            |                           |  |
|------------------|---|--------------------------|---------------------------------------|---|--|-----|------------|---------------------------|--|
|                  |   | REFERENCE DRAWING<br>S/N | DRAWING NO.<br>Sales Engineer<br>C.C. | REVISION-LOCATION<br>Application Engineer<br>R.C. | DRAWN<br>BY C. RACHAL                      | ECN | DATE<br>BY | APPROVED<br>BY            |  |
| DATE<br>12/30/05 | Project Title<br><br>DUPLEX PUMP<br>CONTROL PANEL |                          |                                       |   | P.O. Box 77808<br>Baton Rouge, LA<br>70809 |     |            | PURCHASE ORDER NUMBER     |  |
|                  |   |                          |                                       |   | Ph. (225)756-3271<br>Fax (225)755-1030     |     |            | DRAWING NUMBER<br>CP-2256 |  |
|                  |   |                          |                                       |   |  |     |            | SHEET NUMBER<br>1         |  |



|                              |   |                               |   |  |   |    |    |
|------------------------------|---|-------------------------------|---|--|---|----|----|
|                              | Drawing Title                               |                               |   |  |   |    |    |
|                              | POWER DIAGRAM                               |                               |   |  |   |    |    |
| DATE<br>12/30/05             | REFERENCE DRAWING<br>S/N                    | NO.<br>Sales Engineer<br>C.C. | REVISION-LOCATION<br>Application Engineer<br>R.C. | ECN<br>DRAWN<br>BY C. RACHAL   | DATE<br>APPROVED<br>BY  | BY | BY |
| Project Title                |   |                               |   |  |   |    |    |
| DUPLEX PUMP<br>CONTROL PANEL | <b>COX</b><br>Research and Technology, Inc. |                               |   | P.O. Box 77808<br>Baton Rouge, LA<br>70809<br><br>Ph. (225)756-3271<br>Fax (225)755-1030 | PURCHASE ORDER NUMBER<br><br>DRAWING NUMBER CP-2256<br><br>SHEET NUMBER 2 |    |    |



|   |                                      |  |                               |  |
|---|--------------------------------------|--|-------------------------------|--|
|   | Drawing Title<br><br>CONTROL DIAGRAM |  |                               |  |
| DATE<br>12/30/05                                  |                                      | REFERENCE DRAWING<br>S/N                   | NO.<br>Sales Engineer<br>C.C. | REVISION-LOCATION<br>DRAWN<br>BY C. RACHAL |
|   |                                      |  |                               | ECN<br>APPROVED<br>BY                      |
|   |                                      |  |                               | DATE<br>BY                                 |
| Project Title<br><br>DUPLEX PUMP<br>CONTROL PANEL | COX<br>Research and Technology, Inc. | P.O. Box 77808<br>Baton Rouge, LA<br>70809 | PURCHASE ORDER NUMBER         |  |
|   |                                      | Ph. (225)756-3271<br>Fax (225)755-1030     | DRAWING NUMBER<br>CP-2256     |  |
|   |                                      |  | SHEET NUMBER<br>3             |  |



**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 | PUMP 1    |
| NP-2 | PUMP 2    |
| NP-3 | RUN       |
| NP-4 | RUN       |
| NP-5 | HOA       |
| NP-6 | HOA       |
| NP-7 | SEAL FAIL |
| NP-8 | SEAL FAIL |

|   |   |  |   |                              |
|---|---|--|---|------------------------------|
| Drawing Title<br><br><b>ENCLOSURE</b>                     |   |  |   |                              |
|   | REFERENCE DRAWING<br>S/N                    | NO.<br>Sales Engineer<br>C.C.              | REVISION-LOCATION<br>Application Engineer<br>R.C. | ECN<br>DRAWN<br>BY C. RACHAL |
| DATE<br>12/30/05  |   |  |   | DATE<br>APPROVED<br>BY       |
| Project Title<br><br><b>DUPLEX PUMP<br/>CONTROL PANEL</b> | <b>COX</b><br>Research and Technology, Inc. | P.O. Box 77808<br>Baton Rouge, LA<br>70809 | PURCHASE ORDER NUMBER                             |                              |
|   |   | Ph. (225)756-3271<br>Fax (225)755-1030     | DRAWING NUMBER<br>CP-2256                         |                              |
|   |   |  | SHEET NUMBER                                      | 4                            |

# BILL OF MATERIALS

| ITEM | QTY | MANUFACTURER | PART NO.     | DESCRIPTION         |
|------|-----|--------------|--------------|---------------------|
| 1    | 1   | STAHLIN      | RJ1816HPLDF  | ENCLOSURE           |
| 1a   | 1   | STAHLIN      | BP1816AL     | BACKPLATE           |
| 2    | 1   | MARATHON     | 1323580      | DISTRIBUTION BLOCK  |
| 3    | 2   | ABB          | A40-30-10-84 | MOTOR STARTER       |
| 4    | 2   | ABB          | TA42DU42     | O.L. RELAY (29-42A) |
| 5    | 2   | SQUARE D     | QUO380       | CB1, CB2            |
| 6    | 1   | TIMEMARK     | 261DT120     | ALTERNATING RELAY   |
| 7    | 4   | ACI          | JR22FR       | RED PILOT LIGHT     |
| 8    | 2   | ACI          | JR22P3M20B   | HOA SWITCH          |
| 9    | 1   | AC/DC        | BL5-R120     | ALARM LIGHT         |
| 10   | 1   | SSAC         | FS126RC      | FLASHER             |
| 11   | 1   | IDECA        | RU4          | CR1                 |
| 12   | 2   | REDINGTON    | 711-0190     | ELAPSED TIME METER  |
| 13   | 1   | DELTA        | LA603        | LIGHTNING ARRESTER  |
| 14   | 1   | STOCK        |              | GFI RECEPTACLE      |
| 15   | 1   | SQUARE D     | QUO115       | CB3                 |
| 16   | 1   | SQUARE D     | QUO110       | CB4                 |
| 17   |     |              |              |                     |
| 18   |     |              |              |                     |
| 19   |     |              |              |                     |
| 20   |     |              |              |                     |
| 21   |     |              |              |                     |
| 22   |     |              |              |                     |
| 23   |     |              |              |                     |
| 24   |     |              |              |                     |
| 25   |     |              |              |                     |

|   |      |                   |                |                      |                   |              |                       |          |    |
|---|------|-------------------|----------------|----------------------|-------------------|--------------|-----------------------|----------|----|
| Drawing Title                                     |      |                   |                |                      |                   |              |                       |          |    |
|   |      |                   |                |                      |                   |              |                       |          |    |
| BILL OF MATERIALS                                 |      | REFERENCE DRAWING |                | NO.                  | REVISION-LOCATION |              | ECN                   | DATE     | BY |
|   |      | S/N               | Sales Engineer | Application Engineer | DRAWN             |              |                       | APPROVED |    |
| DATE<br>12/30/05                                  | C.C. | R.C.              | BY C. RACHAL   |                      |                   | BY           | DATE                  |          |    |
| Project Title<br><br>DUPLEX PUMP<br>CONTROL PANEL |      |                   |                |                      |                   |              | PURCHASE ORDER NUMBER |          |    |
|   |      |                   |                |                      |                   |              | DRAWING NUMBER        |          |    |
|   |      |                   |                |                      |                   |              | CP-2256               |          |    |
|   |      |                   |                |                      |                   | SHEET NUMBER |                       |          |    |
|   |      |                   |                |                      |                   | 5            |                       |          |    |