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# COX

Research and Technology, Inc.

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TRIPLEX PUMP  
CONTROL PANEL  
PLAQUEMINE

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

CP-2283

|                                  |                 |  |
|----------------------------------|-----------------|--|
| VOLTAGE                          | 120/240V        | (480V, 277/480V, 240V, 120/240V, 208V, 120/208V) |
| PHASE/HZ                         | 3/60            |  |
| NO. MOTORS                       | 3               |  |
| HP                               | 15              |  |
| FLA                              | 42 (est)        |  |
| 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                 | X              | (Submersible Only)         |
| SEAL FAIL RELAYS                 | X              | (Submersible Only)         |
| SEAL FAIL PUMP SHUTDOWN          |                | (Submersible Only)         |
| HT PUMP SHUTDOWN                 | X              | (Self-Primer, Submersible) |
| ALARM HORN                       |                |                            |
| ALARM LIGHT                      | X              |                            |
| LIGHT PANEL MTD                  | X (pilot only) |                            |
| LIGHT REMOTE MTD                 |                |                            |
| LIGHT FLASHER                    |                |                            |
| LIGHTNING ARRESTER               | X              |                            |
| ELAPSED TIME METER               | X              |                            |
| PHASE MONITOR                    | X (3)          |                            |
| NEMA RATED STARTERS              | X              |                            |
| 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 - New Orleans, LA

TAG : PLAQUEMINE

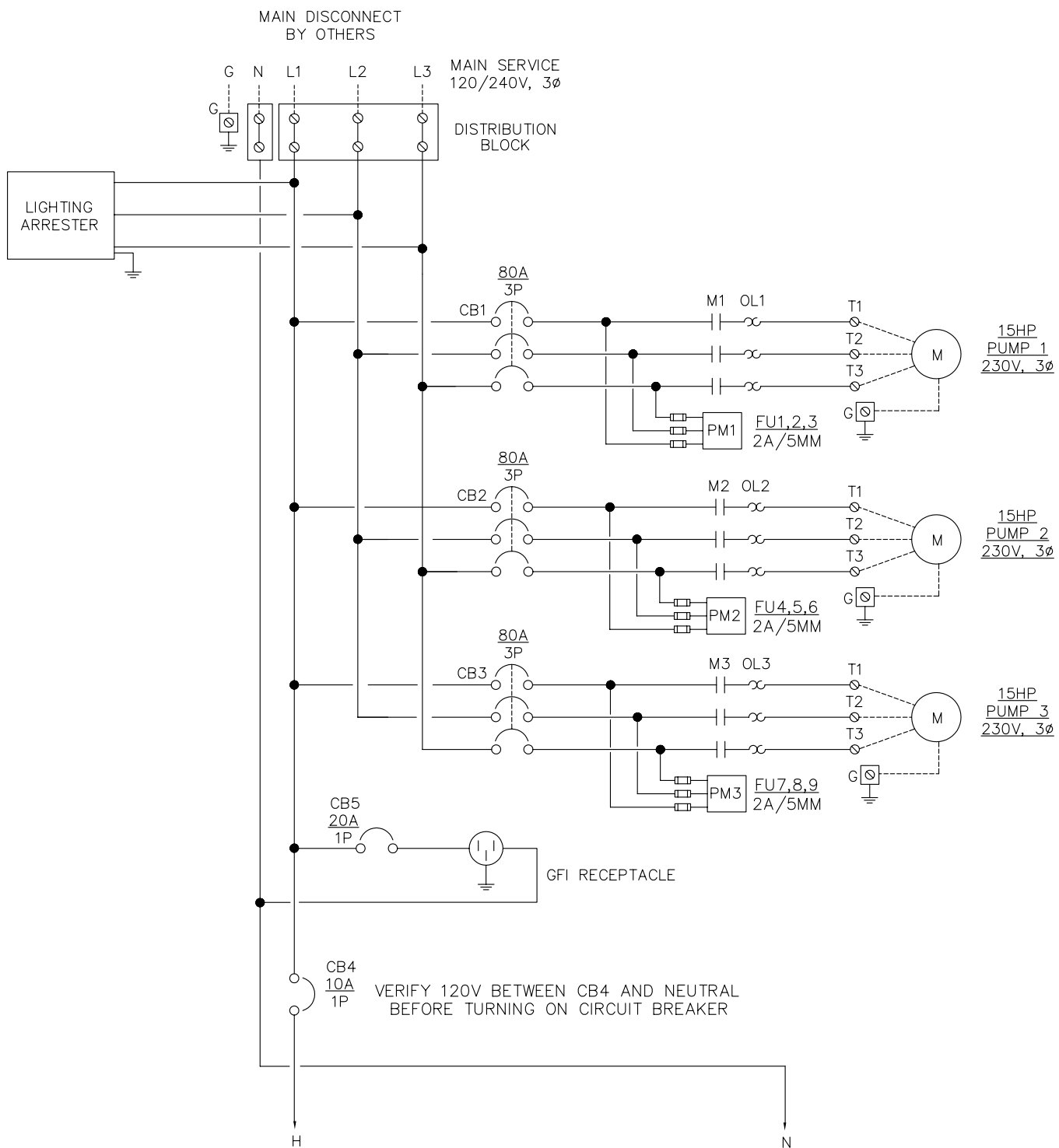
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SHIP TO: Delta Process - Denham Springs, LA

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|                 |                               |  |                               |   |  |     |                           |    |
|-----------------|-------------------------------|--|-------------------------------|---|--|-----|---------------------------|----|
|                 | Drawing Title                 |  |                               |   |  |     |                           |    |
|                 | PANEL DESCRIPTION             |  |                               |   |  |     |                           |    |
|                 |                               |  |                               |   |  |     |                           |    |
| DATE<br>1/31/06 |                               | REFERENCE DRAWING<br>S/N   | NO.<br>Sales Engineer<br>C.C. | REVISION-LOCATION<br>Application Engineer<br>R.C. | DRAWN<br>BY CTR                            | ECN | DATE                      | BY |
|                 | Project Title                 | <div style="text-align: center;"> <b>COX</b><br/> Research and Technology, Inc. </div> |                               |   | P.O. Box 77808<br>Baton Rouge, LA<br>70809 |     | PURCHASE ORDER NUMBER     |    |
|                 | TRIPLEX PUMP<br>CONTROL PANEL |  |                               |   | Ph. (225)756-3271<br>Fax (225)755-1030     |     | DRAWING NUMBER<br>CP-2283 |    |
|                 |                               |  |                               |   |  |     | SHEET NUMBER<br>1         |    |



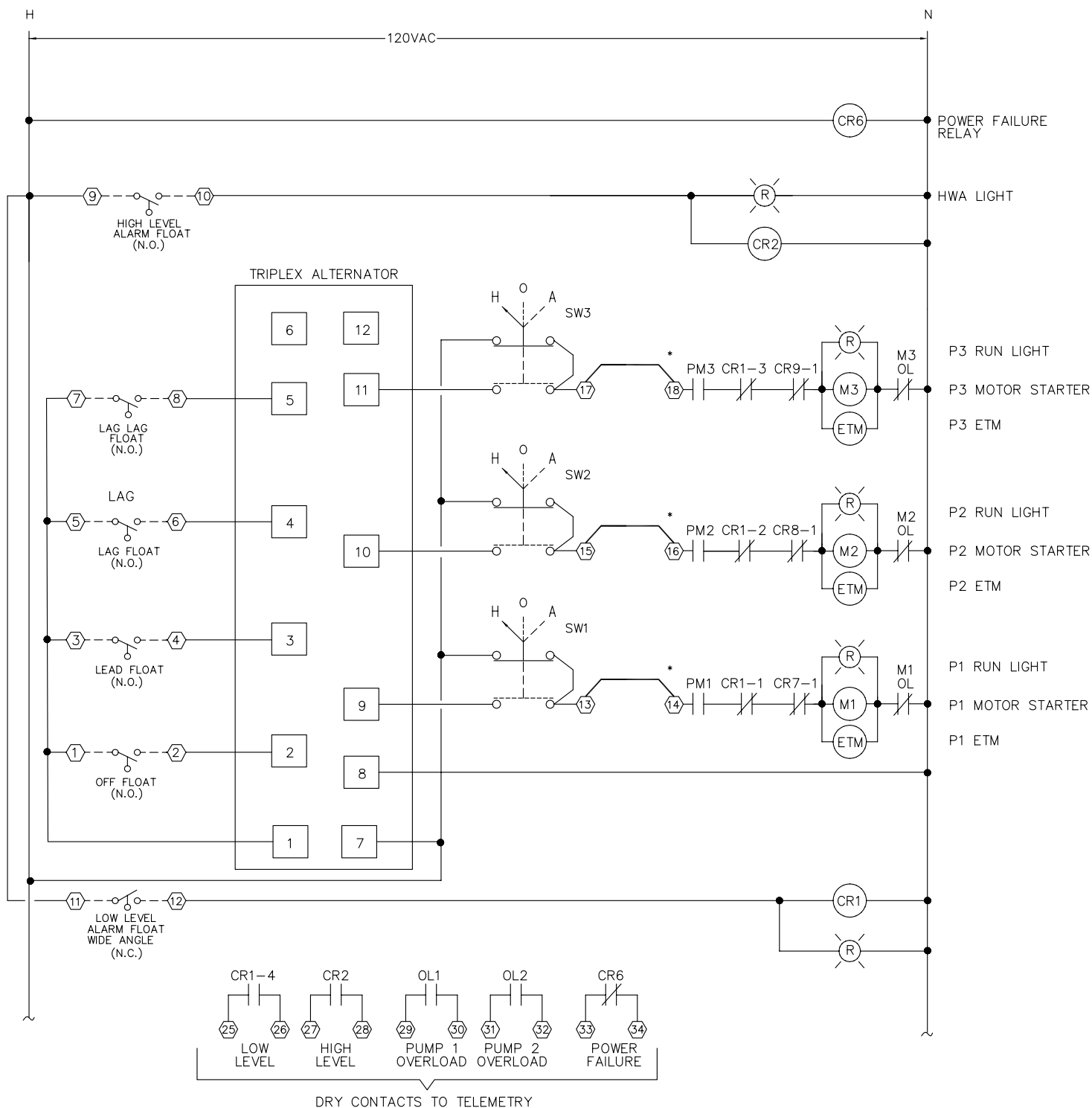
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|-----------------|-------------------------------|--------------------------|-------------------------------|---|-----|------|----------|---------------------------|---|
|                 | Drawing Title                 |                          |                               |   |     |      |          |                           |   |
|                 | POWER DIAGRAM                 |                          |                               |   |     |      |          |                           |   |
| DATE<br>1/31/06 |                               | REFERENCE DRAWING<br>S/N | NO.<br>Sales Engineer<br>C.C. | REVISION-LOCATION<br>Application Engineer<br>R.C. | ECN | DATE | BY       |                           |   |
|                 | Project Title                 |                          |                               |   | BY  | CTR  | APPROVED |                           |   |
|                 | TRIPLEX PUMP<br>CONTROL PANEL |                          |                               |   |     |      |          | PURCHASE ORDER NUMBER     |   |
|                 |                               |                          |                               |   |     |      |          | DRAWING NUMBER<br>CP-2283 |   |
|                 |                               |                          |                               |   |     |      |          | SHEET NUMBER              | 2 |

**COX**

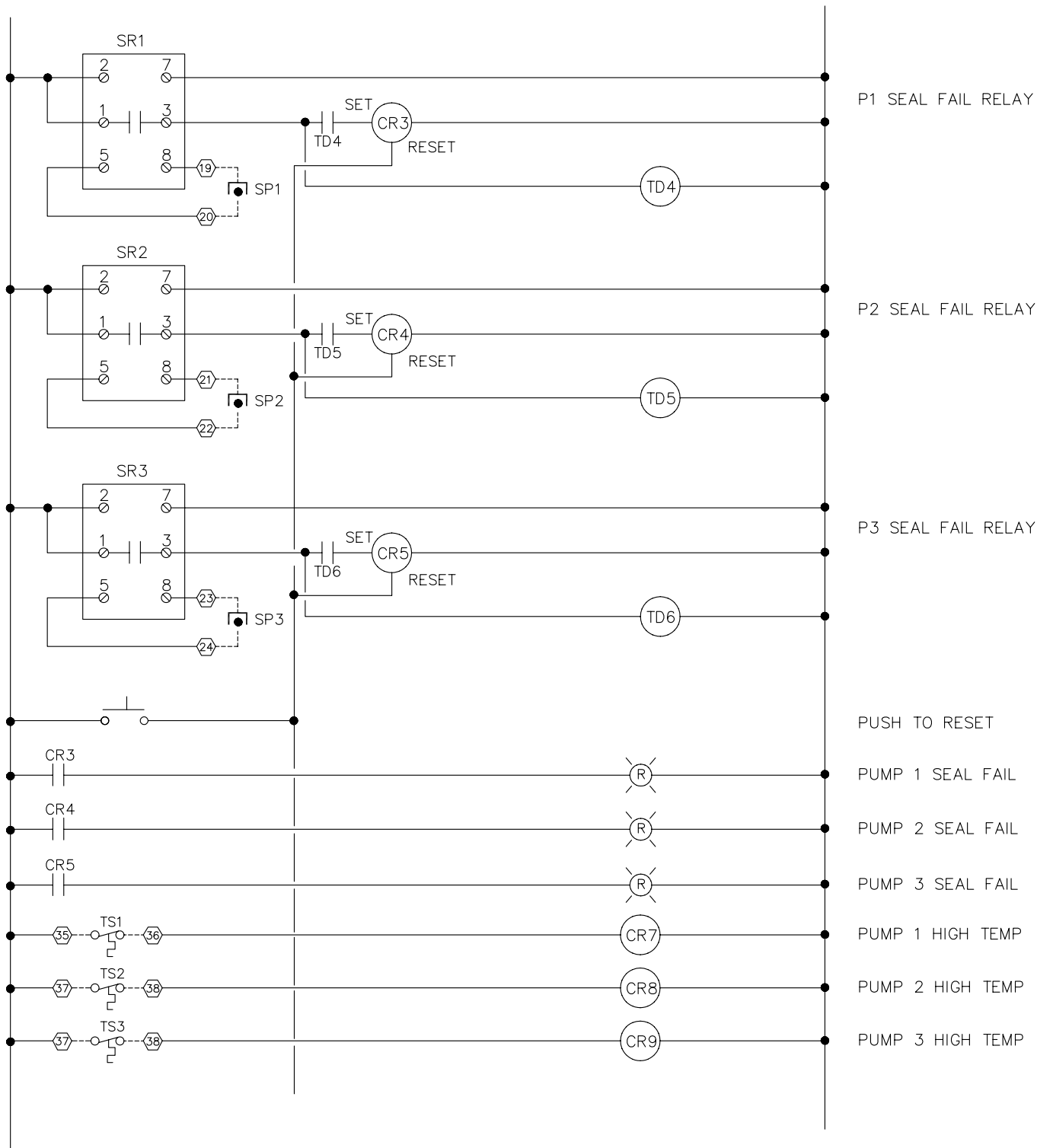
Research and Technology, Inc.

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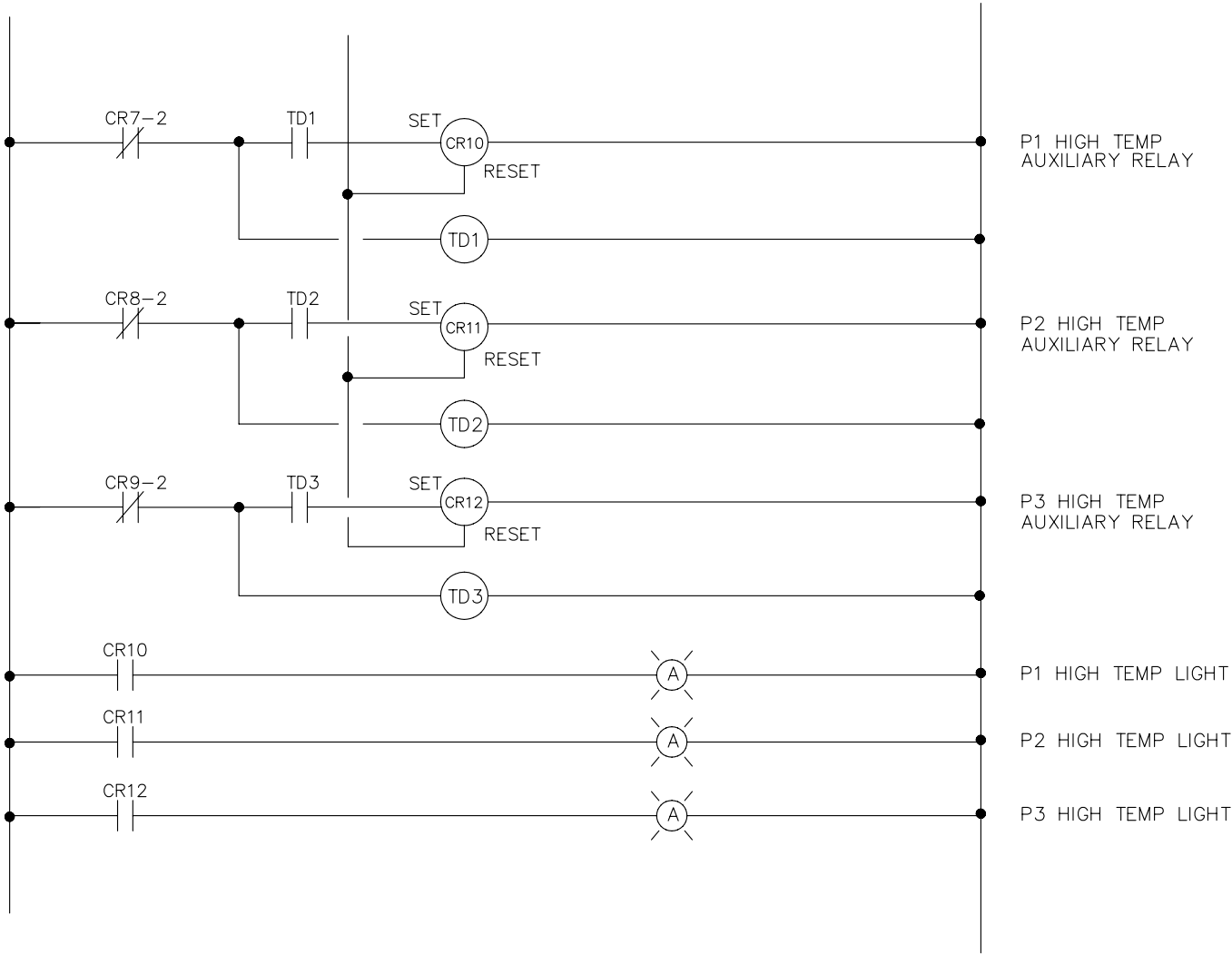
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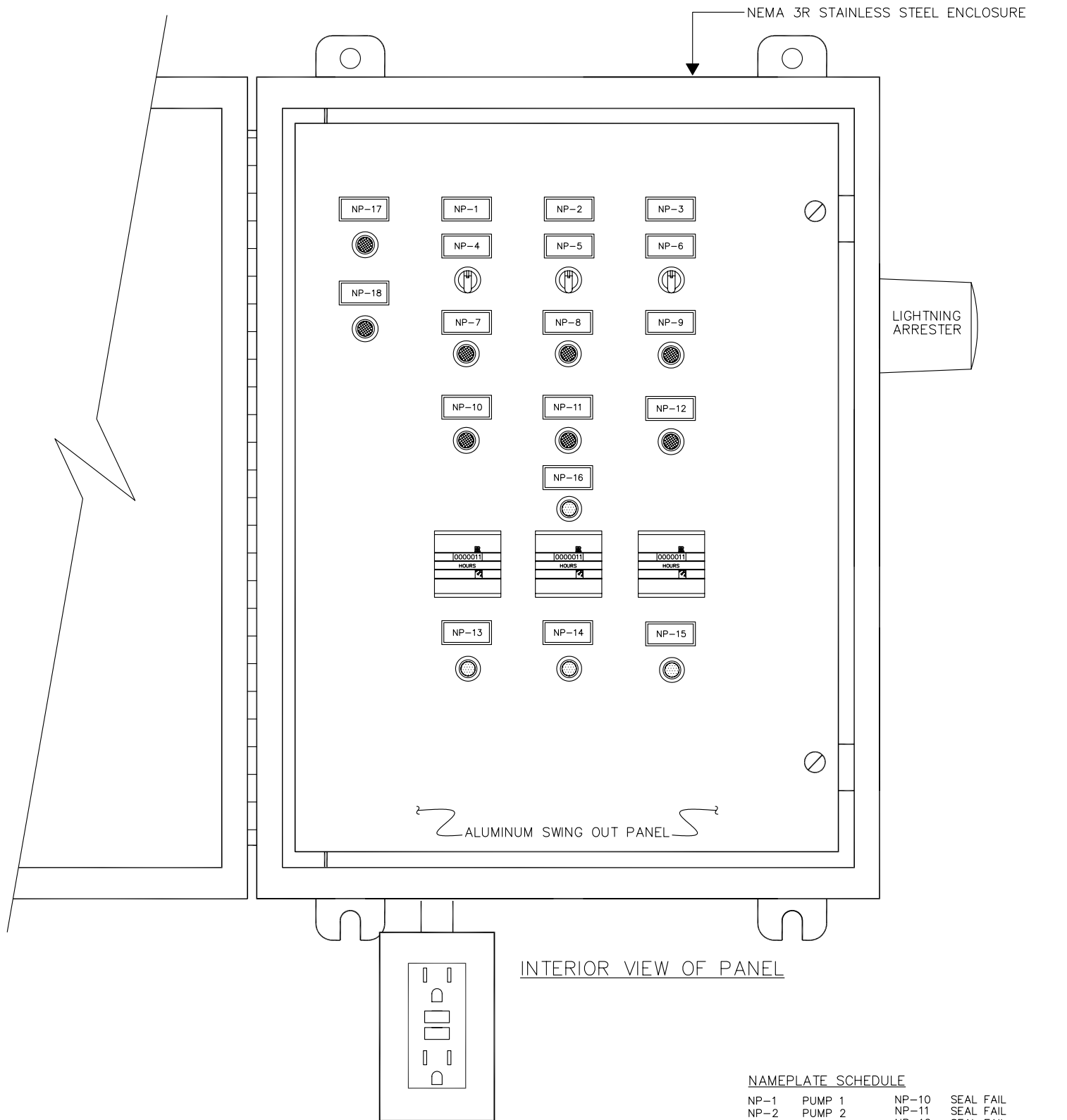
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|----------------------------|---------|-------------------|----------------|----------------------|-------|-----------------------|----------|------|
| Drawing Title              |         |                   |                |                      |       |                       |          |      |
| CONTROL DIAGRAM            |         |                   |                |                      |       |                       |          |      |
| DATE                       | 1/31/06 | REFERENCE DRAWING | NO.            | REVISION-LOCATION    | ECN   | DATE                  | BY       |      |
|                            |         | S/N               | Sales Engineer | Application Engineer | DRAWN |                       | APPROVED |      |
|                            |         |                   | C.C.           | R.C.                 | BY    | CTR                   | BY       | DATE |
| Project Title              |         |                   |                |                      |       | PURCHASE ORDER NUMBER |          |      |
| TRIPLEX PUMP CONTROL PANEL |         |                   |                |                      |       | DRAWING NUMBER        |          |      |
|                            |         |                   |                |                      |       | CP-2283               |          |      |
|                            |         |                   |                |                      |       | SHEET NUMBER          |          |      |
|                            |         |                   |                |                      |       | 3                     |          |      |



|                 |                               |                                      |                               |   |  |     |                           |      |    |
|-----------------|-------------------------------|--------------------------------------|-------------------------------|---|--|-----|---------------------------|------|----|
|                 | Drawing Title                 |                                      |                               |   |  |     |                           |      |    |
|                 | CONTROL DIAGRAM               |                                      |                               |   |  |     |                           |      |    |
| DATE<br>1/31/06 |                               | REFERENCE DRAWING<br>S/N             | NO.<br>Sales Engineer<br>C.C. | REVISION-LOCATION<br>Application Engineer<br>R.C. | BY   | CTR | ECN                       | DATE | BY |
|                 | Project Title                 | COX<br>Research and Technology, Inc. |                               |   | P.O. Box 77808<br>Baton Rouge, LA<br>70809<br>Ph. (225)756-3271<br>Fax (225)755-1030 |     | PURCHASE ORDER NUMBER     |      |    |
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|                 |                               |                                      |                               |   |  |     | SHEET NUMBER<br>4         |      |    |



|                 |                               |                          |                               |   |    |     |                       |      |
|-----------------|-------------------------------|--------------------------|-------------------------------|---|----|-----|-----------------------|------|
|                 | Drawing Title                 |                          |                               |   |    |     |                       |      |
|                 | CONTROL DIAGRAM               |                          |                               |   |    |     |                       |      |
| DATE<br>1/31/06 |                               | REFERENCE DRAWING<br>S/N | NO.<br>Sales Engineer<br>C.C. | REVISION-LOCATION<br>Application Engineer<br>R.C. | BY | CTR | ECN                   | DATE |
|                 | Project Title                 |                          |                               |   |    |     | APPROVED              | BY   |
|                 | TRIPLEX PUMP<br>CONTROL PANEL |                          |                               |   |    |     | DATE                  | BY   |
|                 |                               |                          |                               |   |    |     | PURCHASE ORDER NUMBER |      |
|                 |                               |                          |                               |   |    |     | DRAWING NUMBER        |      |
|                 |                               |                          |                               |   |    |     | CP-2283               |      |
|                 |                               |                          |                               |   |    |     | SHEET NUMBER          |      |
|                 |                               |                          |                               |   |    |     | 5                     |      |



#### NAMEPLATE SCHEDULE

|      |           |       |             |
|------|-----------|-------|-------------|
| NP-1 | PUMP 1    | NP-10 | SEAL FAIL   |
| NP-2 | PUMP 2    | NP-11 | SEAL FAIL   |
| NP-3 | PUMP 3    | NP-12 | SEAL FAIL   |
| NP-4 | HOA       | NP-13 | O.L. RESET  |
| NP-5 | HOA       | NP-14 | O.L. RESET  |
| NP-6 | HOA       | NP-15 | O.L. RESET  |
| NP-7 | HIGH TEMP | NP-16 | ALARM RESET |
| NP-8 | HIGH TEMP | NP-17 | HIGH LEVEL  |
| NP-9 | HIGH TEMP | NP-18 | LOW LEVEL   |

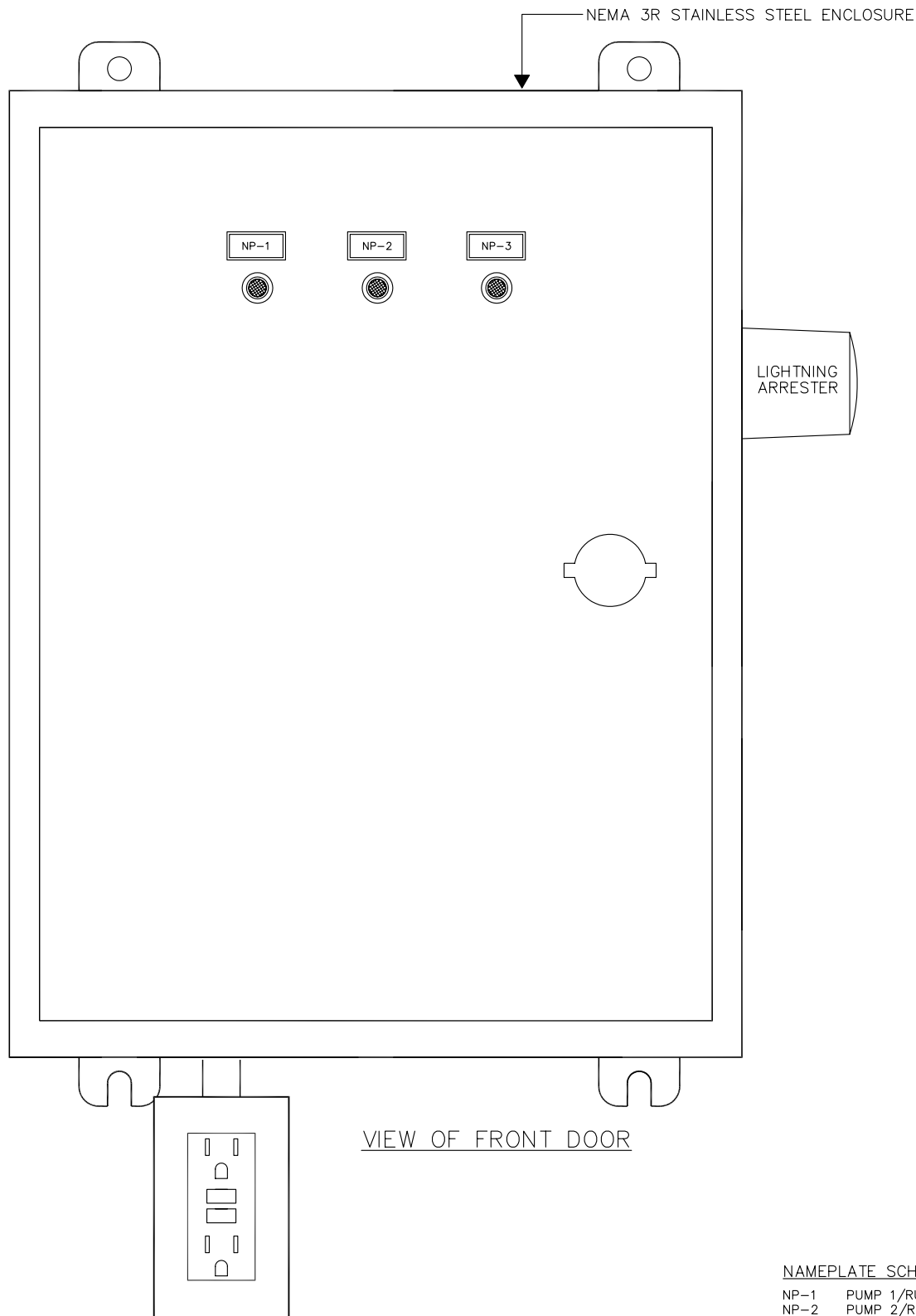
|                               |         |                   |                |                      |                       |      |          |      |  |
|-------------------------------|---------|-------------------|----------------|----------------------|-----------------------|------|----------|------|--|
| Drawing Title                 |         |                   |                |                      |                       |      |          |      |  |
| ENCLOSURE                     |         |                   |                |                      |                       |      |          |      |  |
| DATE                          | 1/31/06 | REFERENCE DRAWING | NO.            | REVISION-LOCATION    | ECN                   | DATE | BY       |      |  |
|                               |         | S/N               | Sales Engineer | Application Engineer | DRAWN                 |      | APPROVED |      |  |
|                               |         |                   | C.C.           | R.C.                 | BY                    | CTR  | BY       | DATE |  |
| Project Title                 |         |                   |                |                      | PURCHASE ORDER NUMBER |      |          |      |  |
| TRIPLEX PUMP<br>CONTROL PANEL |         |                   |                |                      | DRAWING NUMBER        |      |          |      |  |
|                               |         |                   |                |                      | CP-2283               |      |          |      |  |
|                               |         |                   |                |                      | SHEET NUMBER          |      |          |      |  |
|                               |         |                   |                |                      |                       |      |          |      |  |

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70809

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#### NAMEPLATE SCHEDULE

|      |            |
|------|------------|
| NP-1 | PUMP 1/RUN |
| NP-2 | PUMP 2/RUN |
| NP-3 | PUMP 3/RUN |

**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<br>1/31/06 |                               | REFERENCE DRAWING<br>S/N                                | NO.<br>Sales Engineer<br>C.C. | REVISION-LOCATION<br>Application Engineer<br>R.C. | DRAWN<br>BY CTR   | ECN | DATE                      | BY |  |
|                 | Project Title                 | <div>COX</div> <div>Research and Technology, Inc.</div> |                               |   | P.O. Box 77808<br>Baton Rouge, LA 70809<br><br>Ph. (225)756-3271<br>Fax (225)755-1030 |     | PURCHASE ORDER NUMBER     |    |  |
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|                 |                               |   |                               |   |   |     | SHEET NUMBER<br>7         |    |  |



# BILL OF MATERIALS

| ITEM | QTY | MANUFACTURER | PART NO.       | DESCRIPTION         |
|------|-----|--------------|----------------|---------------------|
| 1    | 1   | C & I        | C-363010SRHPL  | 3R S.S. ENCLOSURE   |
| 1a   | 1   | C & I        | CI-36P30       | BACK PLATE          |
| 1b   | 1   | C & I        | CI-3630SPA     | DEAD FRONT          |
| 2    | 1   | BUSSMANN     | 16371-3        | DISTRIBUTION BLOCK  |
| 3    | 3   | SQUARE D     | QOU380         | CB 1,2,3            |
| 4    | 3   | ABB          | A50N2-30-11-84 | MS 1,2,3            |
| 5    | 3   | ABB          | TA75DU52       | O.L. 1,2,3 (36-52A) |
| 6    | 1   | DIVERSIFIED  | ARM-120-ACE    | TRIPLEX ALTERNATOR  |
| 7    | 3   | SSAC         | PLMU-11        | PHASE MONITOR       |
| 8    | 1   | DELTA        | LA603          | LIGHTNING ARRESTOR  |
| 9    | 3   | SSAC         | LLC54AA        | SEAL FAIL RELAYS    |
| 10   | 3   | A-B          | 800H-JR2A      | HOA                 |
| 11   | 8   | A-B          | 800H-QR10R     | PILOT LIGHT-RED     |
| 12   | 1   | A-B          | 800H-AR2A      | PUSH BUTTON         |
| 13   | 3   | ABB          | KPR3-104BMR    | O.L. RESET P.B.     |
| 14   | 3   | REDINGTON    | 711-0190       | ELAPSED TIME METER  |
| 15   | 6   | MAGNECRAFT   | W388AMLCPX-9   | CR3,4,5,10,11,12    |
| 16   | 5   | IDEC         | RY2S-UAC-120V  | CR2,6,7,8,9         |
| 17   | 3   | A-B          | 800H-QR10A     | AMBER PILOT LIGHTS  |
| 18   | 1   | IDEC         | RU4SA110V      | CR1                 |
| 19   | 6   | OMRON        | H3YN2AC120     | TIME DELAYS         |
| 20   |     |              |                |                     |
| 21   |     |              |                |                     |
| 22   |     |              |                |                     |
| 23   |     |              |                |                     |
| 24   |     |              |                |                     |
| 25   |     |              |                |                     |
| 26   |     |              |                |                     |
| 27   |     |              |                |                     |
| 28   |     |              |                |                     |
| 29   |     |              |                |                     |
| 30   |     |              |                |                     |

|                 |                   |   |                               |   |   |     |   |
|-----------------|-------------------|---|-------------------------------|---|---|-----|---|
|                 | Drawing Title     |   |                               |   |   |     |   |
|                 | BILL OF MATERIALS |   |                               |   |   |     |   |
| DATE<br>1/31/06 |                   | REFERENCE DRAWING<br>S/N  | NO.<br>Sales Engineer<br>C.C. | REVISION-LOCATION<br>Application Engineer<br>R.C. | BY CTR  | ECN | DATE  |
|                 |                   |   |                               | DRAWN   | APPROVED  |     | BY  |
|                 | Project Title     | <div style="border-top: 3px double black; border-bottom: 3px double black; padding: 5px;"> <h2 style="margin: 0;">COX</h2> <p style="margin: 0;">Research and Technology, Inc.</p> </div> |                               |   | P.O. Box 77808<br>Baton Rouge, LA 70809<br><br>Ph. (225)756-3271<br>Fax (225)755-1030 |     | PURCHASE ORDER NUMBER<br><br>DRAWING NUMBER<br>CP-2283<br>SHEET NUMBER<br>8 |