**MECHANICAL DRAWING INDEX**

<table>
<thead>
<tr>
<th>DRAWING NO.</th>
<th>DRAWING DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL-00742-01-01</td>
<td>TRAILER LAYOUT</td>
</tr>
<tr>
<td>PL-00742-02-02</td>
<td>HYDROGEN &amp; NITROGEN BULK (3 SHEETS)</td>
</tr>
<tr>
<td>PL-00742-02-02</td>
<td>HAZARDOUS AREA DRAWING</td>
</tr>
<tr>
<td>PL-00742-03-01</td>
<td>PROCESS FLOW DIAGRAM</td>
</tr>
<tr>
<td>PL-00742-04-01</td>
<td>PROCESS AND INSTRUMENTATION DIAGRAM</td>
</tr>
<tr>
<td>PL-00742-04-02</td>
<td>DETAILED PROCESS AND INSTRUMENTATION DIAGRAM</td>
</tr>
<tr>
<td>PL-00742-04-03</td>
<td>MECHANICAL BILL OF MATERIALS</td>
</tr>
</tbody>
</table>

**PAID SYMBOLS**

- [ ] Needle valve (NVD)
- [ ] Air Activated valve (AAV)
- [ ] Ball Valve (BV)
- [ ] Check Valve (CV)
- [ ] Globe Valve (GV)
- [ ] Pressure Reducing Regulator (PRR)
- [ ] Rupture Disc (RD)
- [ ] Pressure Relief Valve (PRV)
- [ ] Thermal Pressure Relief Device (TPRD)
- [ ] Valve Actuator (VA)
- [ ] Filter (F)
- [ ] Tee (T)
- [ ] Cross (C)
- [ ] Temperature Transmitter (TT)
- [ ] Pressure Transducer (PT)
- [ ] Pressure Indicator (PI)

**Powertech**

**PROJECT NO.:** PL-00742

**DATE:**

**MECHANICAL DRAWING INDEX**

**PAGE:** 1 OF 1
NOTES:
1. SEE DRAWING PL-00742-01-02 FOR HYDROGEN AND NITROGEN RACK DETAILS
2. FOR SIMPLICITY, BRACKETS FOR VENT STACK STORAGE, SPARE TIRE, AND TRAILER TONGUE DETAILS ARE NOT SHOWN ON DRAWING
HyStEP Nitrogen Rack

PL-00742-01-02

Material: Steel

Dimensions are in millimeters.
Surface Finish: Debur and break sharp edges.

UNLESS OTHERWISE SPECIFIED:
FINISH: DEBUR AND BREAK SHARP EDGES
TOLERANCES:
LINEAR:
ANGULAR:

NAME SIGNATURE DATE
DRAWN LQ 02-SEP-15
CHG/D 5M 02-SEP-15
APPROVED GM 02-SEP-15

Q&A MATERIAL:
WEIGHT:
SHEET 3 OF 3
Main Functions
H2 Receiving System = Receive hydrogen from dispenser
Sequencing System = Direct gas flow
Tank System = Store H2 during fueling tests
Defuel System = Controlled release of stored H2 to atmosphere
Purge System = Introduce inert gas for transportation
Control System = Monitor/record sensors and control valve positions
Data Report = Process data into report format
<table>
<thead>
<tr>
<th>Device Tag #</th>
<th>ID</th>
<th>System</th>
<th>Component Name</th>
<th>Specification</th>
<th>Manufacturer</th>
<th>PartNumber #</th>
</tr>
</thead>
<tbody>
<tr>
<td>33</td>
<td>P2</td>
<td>22</td>
<td>Hose</td>
<td>High Pressure 5/8&quot; x 1/4&quot; NPT</td>
<td>Speroni</td>
<td>BDW-038A-03</td>
</tr>
<tr>
<td>33</td>
<td>P2</td>
<td>22</td>
<td>Hose</td>
<td>Quick Disconnect Female Coupler with Check Valve 1/2&quot; GFT Male</td>
<td>Speroni</td>
<td>SPC001-1MBR</td>
</tr>
</tbody>
</table>