**Electrical Manhole -- Permit Required Confined Space Entry Permit**

1. **Electrical Manhole ENTRY PROCEDURE AND PERMIT**
   **(All Shaded areas must be completed by Entry Supervisor or Entrant)**

2. **Work to be Performed:**

3. **Date Issued:** / /
   **Time Issued:** : □ a.m. □ p.m.

4. **Permit Space Hazards** *(X = Potential Hazard or Testing Rqmt.)*

<table>
<thead>
<tr>
<th>Hazard</th>
<th>X or O</th>
<th>O or X</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxygen</td>
<td>X</td>
<td>O</td>
</tr>
<tr>
<td>Hydrogen Sulfide</td>
<td>X</td>
<td>O</td>
</tr>
<tr>
<td>Carbon Monoxide</td>
<td>X</td>
<td>O</td>
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<tr>
<td>Flammable Gases</td>
<td>X</td>
<td>O</td>
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<tr>
<td>Other Toxics:</td>
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</tbody>
</table>

5. **Additional Permits or Forms** *(Please attach if required)*

6. **Equipment Required for Entry & Work** *(Check box when complete)*

7. **Communication method used by attendants and entrants** *(Check all that apply)*

   - Radio
   - Voice
   - Other:

8. **Confined Space Rescue**

9. **Authorized Entrants** *(List by name or attach roster)*

10. **Authorized Attendants** *(List by name)*

11. **Preparation for Entry** *(Check boxes when complete)*

   - Notify affected departments of service interruption and complete the Confined Space Entry Permit and other related permits or forms.
   - Inspect all required equipment, tools and PPE prior to entry.
   - Barricade the area to prevent unauthorized entry or access.
   - Set up rescue tripod with 4 way hauling system to pull out entrant in the event of emergency.
   - Ensure that all Hazardous Energy is isolated per the specific Hazardous Energy Control Procedure.
   - Full ventilation is required before and during entry.
   - Notify affected departments of service interruption and complete the Confined Space Entry Permit and other related permits or forms.

12. **Atmosphere Testing Record Acceptable Conditions**

<table>
<thead>
<tr>
<th>Condition</th>
<th>Time:</th>
<th>Time:</th>
<th>Time:</th>
<th>Time:</th>
<th>Time:</th>
<th>Time:</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH4 - Less than 10% of LEL / LFL</td>
<td>Entry #1 Results</td>
<td>Entry #2 Results</td>
<td>Entry #3 Results</td>
<td>Entry #4 Results</td>
<td>Entry #5 Results</td>
<td>Entry #6 Results</td>
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<tr>
<td>OXY - Oxygen Range - Minimum allowable = 19.6% to Maximum allowable = 23.4%</td>
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<tr>
<td>H2S - Hydrogen Sulfide - &lt; than 10 PPM</td>
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<tr>
<td>CO - Carbon Monoxide - &lt; than 35 PPM</td>
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<td>Other Toxic:</td>
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</table>

13. **Authorization by Entry Supervisors**

   - I certify that all required precautions have been taken and necessary equipment is provided for safe entry and work in this electrical manhole confined space.

   **Printed Name**
   **Signature**
   **Date**
   **Time** □ a.m. □ p.m.

14. **Permit Cancellation** *(Complete at the end of job not to exceed 24 hours)*

   **Date**
   **Time** □ a.m. □ p.m.

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This permit must be posted at the job site -- One Copy to Dept File and One Copy to EH&S Office (Fax 7-5302 or EHS Building)

16-Sep-10  3-Dec-14