# Outline of Emergency Safety Measures for Reprocessing Facilities

## Measures against total station blackout

### Cooling the water of spent fuel storage pools, highly radioactive liquid waste, and plutonium solution / Hydrogen scavenging of highly radioactive liquid waste and plutonium solution

<table>
<thead>
<tr>
<th>Required capacity</th>
<th>Secured capacity</th>
<th>Storage locations, etc.</th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>Storage location</strong></td>
<td><strong>Allowance</strong></td>
<td><strong>Required capacity</strong></td>
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<td><strong>Allowance</strong></td>
<td><strong>Required capacity</strong></td>
</tr>
<tr>
<td>In-plant (elevation: approx. 55 m)</td>
<td>2 times</td>
<td>10,000 m³</td>
<td>1.84 m³</td>
<td>5 nitrogen gas cylinders (21 L/h)</td>
<td>6 hours</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>In-plant (elevation: approx. 18 m)</td>
<td>2.8 m³/min</td>
<td>48 hours</td>
<td>1.84 m³</td>
<td>5 nitrogen gas cylinders (21 L/h)</td>
<td>6 hours</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fire engine (vehicle)</td>
<td>2 times</td>
<td>1.109 kVA (1,800 kW)</td>
<td>Submersible pump</td>
<td>40 m³/h</td>
<td>6 hours</td>
<td></td>
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<tr>
<td><strong>Power source vehicle</strong></td>
<td><strong>Supply water to the heat exchanger and replenish the pool water to compensate for natural evaporation</strong></td>
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</tr>
</tbody>
</table>

### Preventive measures

- The resident members of the firefighting crew will move the pump trucks and hoses to rising ground (elevation: 18 m) if a major building warning is issued.
- Securing power supply and alternating water injections, etc.
- Improvements and documentation resulting from trainings.
- Revision of the instructions for supplying pool water with the fire pumper truck.
- Revision of the instructions on connecting the emergency power supply.
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