# Investigation Results of the Inside of Unit 1 PCV at Fukushima Daiichi Nuclear Power Station

**October 11, 2012**

**Tokyo Electric Power Company**

## Investigation items

The following items are to be investigated by inserting an equipment from X100B penetration (where a hole was punched on September 26).

<table>
<thead>
<tr>
<th>No.</th>
<th>Date</th>
<th>Investigation</th>
<th>Device</th>
<th>Maximum Individual radiation exposure dose [mSv/person per day]</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Oct. 9</td>
<td>Videotape the inside of PCV using a pan-tilt camera (Above the grating on the first floor)</td>
<td>Pan-tilt camera</td>
<td>2.74</td>
</tr>
<tr>
<td>2</td>
<td>Oct. 10</td>
<td>Measure the accumulated water level and the atmosphere dose</td>
<td>CCD camera Dosimeter</td>
<td>2.13</td>
</tr>
<tr>
<td>3</td>
<td>Oct. 11</td>
<td>Videotape the inside of PCV using a CCD camera (Below the grating on the first floor)</td>
<td>CCD camera</td>
<td>1.83</td>
</tr>
<tr>
<td>4</td>
<td>Oct. 12</td>
<td>Collect samples of accumulated water</td>
<td>Sampling device</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Oct. 13</td>
<td>Install the permanent monitoring instrument (Ambient temperature, accumulated water temperature/level)</td>
<td>Thermocouple, water level sensor</td>
<td></td>
</tr>
</tbody>
</table>

* Planned radiation exposure dose: 10mSv/person per day
Videotaping the Inside of PCV Using a CCD Camera (Below the First Floor Grating)

- **X100B penetration**
- **Grating OP 9,708**
- **Actual water level OP approx. 9,000**
- **D/W bottom OP 6,180**
- **Jet deflector**
- **Guide pipe**
- **PLR monorail beam**
- **CRD pipe support beam**
- **Equipment hatch monorail**
- **CCD camera**

Enlarged image:

- **Approx. 1,000**
- **Approx. 3,500**
- **Approx. 2,800**
- **Approx. 3,500**

Unit [mm]