Life Cycle Cost

- It is unnecessary to check interrupter by overhaul (10,000 times of switching under no-load and loaded conditions)
- It is unnecessary to treat decomposed gases at the time of demolition (only recovery of gases is necessary)
- Comparison of incurred expenses between VCB and GCB

Conditions for investigation
(1) investigation is based on 24 years of use.
(2) At the time of inspection after 18 years of use:
  - No overhauled checks are needed in the case of VCB.
  - Overhauled checks are needed after 18 years for GCB.
(3) At the time of demolition:
  - Only expenses for recovery of gases are needed for VCB.
  - Expenses for recovery of gases and treatment of gases are needed for GCB.

Result of investigation
(1) Life cycle cost for maintenance and inspection: VCB < GCB
(2) Incurred cost for VCB is 40% that of GCB.

Comparison of incurred expenses between VCB and GCB

<table>
<thead>
<tr>
<th>Models</th>
<th>6 years</th>
<th>12 years</th>
<th>18 years</th>
<th>24 years</th>
</tr>
</thead>
<tbody>
<tr>
<td>VCB</td>
<td>Regular</td>
<td>Detailed</td>
<td>Regular</td>
<td>Demolition</td>
</tr>
<tr>
<td>GCB</td>
<td>Regular</td>
<td>Detailed</td>
<td>Overhaul</td>
<td>Demolition</td>
</tr>
</tbody>
</table>

Graph showing comparison of accumulated incurred expenses between tank type VCB and GCB.