**Overview**
The Marley® NC cooling tower has OSHPD pre-approved cooling solutions for all levels of seismic requirements.

**Primary Benefits**
- There are over 450 hospitals in California that require OSHPD approved equipment for cooling.
- Marley's NC pre-approval $S_{DS}$ levels exceed those of any other manufacturer of cooling towers for applications on roof or with isolators.
- Marley has many tested and pre-approved options available.

**$S_{DS}$ Level and Design g**
- The Marley NC tower was tested with isolators for on-roof conditions (toughest pre-approval condition).
- The 2.0 $S_{DS}$ value at this test condition equates to a 4.5 design g equivalent.
- For at-grade without isolators, a 4.5 design g has a calculated $S_{DS}$ value of 10. This is higher than any current pre-approved level.

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**OSHPD OSP Pre-Approval Levels — $S_{DS}$ g**

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>With Isolators</th>
<th>Without Isolators</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Located on Roof</strong></td>
<td><strong>Located At Grade</strong></td>
<td><strong>Located At Grade</strong></td>
</tr>
<tr>
<td>Marley NC</td>
<td>Evapco AT</td>
<td>BAC</td>
</tr>
<tr>
<td>2.0</td>
<td>1.93</td>
<td>N/A</td>
</tr>
</tbody>
</table>

† Marley calculated $S_{DS}$ equivalent
‡ Only pre-approved up to 502 tons
What is OSHPD and OSP?

Low Maintenance:
- OSHPD is the Office of Statewide Health and Planning Development (OSHPD) which reviews and pre-approves special seismic certification of equipment and components to be used in health facility construction under a program called OSHPD Special Seismic Certification Pre-approval (OSP).
- The specific level of seismic activity ($S_{DS}$) required is based on site location, height of the installation (on roof or at grade), and use of isolators.

Source: oshpd.ca.gov