RISK ASSESSMENT – Each identified hazard is assigned a Risk Assessment Score (RAS). This RAS represents the degree of safety/health risk associated with the identified hazard.

A RAS is established by multiplying two factors associated with an identified hazard:

- the severity of the hazard (represented by a hazard severity score)
- the probability that exposure to the hazard will result in a mishap (represented by a mishap probability score)

### RISK ASSESSMENT SCORE (RAS)

<table>
<thead>
<tr>
<th>HAZARD SEVERITY</th>
<th>MISHAP PROBABILITY</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MP1 = 4</td>
</tr>
<tr>
<td>HS1 = 4</td>
<td>16¹</td>
</tr>
<tr>
<td>HS2 = 3</td>
<td>12¹</td>
</tr>
<tr>
<td>HS3 = 2</td>
<td>8²</td>
</tr>
<tr>
<td>HS4 = 1</td>
<td>4⁴</td>
</tr>
</tbody>
</table>

¹ Equivalent to Risk Assessment Code (RAC) 1, Critical
² Equivalent to RAC 2, Serious
³ Equivalent to RAC 3, Moderate
⁴ Equivalent to RAC 4, Minor
⁵ Equivalent to RAC 5, Negligible

HAZARD SEVERITY – An evaluation of the worst possible consequence(s) that could result from exposure to the identified hazard, defined by the degree of injury, occupational illness or property damage.

Category HS1 (HS Score = 4): Death, permanent total disability, loss of facility or major asset(s)

Category HS2 (HS Score = 3): Severe injury/illness, permanent partial disability, temporary total disability (>3 months), major property damage

Category HS3 (HS Score = 2): OSHA-recordable injury/illness, compensable injury/illness, minor property damage

Category HS4 (HS Score = 1): Minimal threat to personnel or property, non-recordable injury/illness, but still a violation of a standard

MISHAP PROBABILITY – The probability that a hazard will result in a mishap, based on an evaluation of such factors as location, exposure in terms of cycles of hours of operation, and affected population.

Category MP1 (MP Score = 4): Likely to occur immediately or within a short time period

Category MP2 (MP Score = 3): Probably will occur in time

Category MP3 (MP Score = 2): Possibly will occur in time

Category MP4 (MP Score = 1): Unlikely to occur