

**RISK ASSESSMENT** – Each identified hazard is assigned a Risk Assessment Code (RAC). This RAC represents the degree of risk associated with the identified hazard.

RAC	DEGREE OF RISK
1	Critical
2	Serious
3	Moderate
4	Minor
5	Negligible

A **RAC** is established by considering two factors associated with an identified hazard: (1) the severity of the hazard and (2) the probability that exposure to the hazard will result in a mishap.

HAZARD SEVERITY	MISHAP PROBABILITY			
	Category A	Category B	Category C	Category D
Category I	1	1	2	4
Category II	1	2	3	4
Category III	2	3	4	5
Category IV	4	4	5	5

**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 I      Death, permanent total disability, loss of facility or major asset(s)
- Category II    Severe injury/illness, permanent partial disability, temporary total disability (>3 months), major property damage
- Category III    OSHA-recordable injury/illness, compensable injury/illness, minor property damage
- Category IV    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 A      Likely to occur immediately or within a short time period
- Category B      Probably will occur in time
- Category C      Possibly will occur in time
- Category D      Unlikely to occur