

# OSHA'S RAGAGEP

## EXPLAINED

### DEFINITION

RECOGNIZED  
AND  
GENERALLY  
ACCEPTED  
GOOD  
ENGINEERING  
PRACTICES

THE PSM STANDARD, 29 CFR 1910.119, DIRECTLY REFERENCES OR IMPLIES THE USE OF RAGAGEP IN THREE PROVISIONS:

- (D)(3)(II): EMPLOYERS MUST DOCUMENT THAT ALL EQUIPMENT IN PSM-COVERED PROCESSES COMPLIES WITH RAGAGEP;
- (J)(4)(II): INSPECTIONS AND TESTS ARE PERFORMED ON PROCESS EQUIPMENT SUBJECT TO THE STANDARD'S MECHANICAL INTEGRITY REQUIREMENTS IN ACCORDANCE WITH RAGAGEP; AND
- (J)(4)(III): INSPECTION AND TEST FREQUENCY FOLLOWS MANUFACTURER'S RECOMMENDATIONS AND GOOD ENGINEERING PRACTICE, AND MORE FREQUENTLY IF INDICATED BY OPERATING EXPERIENCE.

### EXAMPLES

WIDELY ADOPTED CODES

NFPA 70 NATIONAL ELECTRIC CODES

CONSENSUS DOCUMENTS

ASME B31.3 PROCESS PIPING CODE

INTERNAL STANDARDS

EMPLOYERS MAY DEVELOP INTERNAL STANDARDS FOR USE WITHIN THEIR FACILITIES

NON-CONSENSUS DOCUMENTS

CHLORINE INSTITUTE'S (CI)  
"PAMPHLETS"

OSHA REFERENCES CI PAMPHLETS  
AS AN EXAMPLE OF  
"NON-CONSENSUS DOCUMENTS"

### SHOULD VS. SHALL

OSHA-DEFINED LANGUAGE

SHALL / MUST

=

MANDATORY MINIMUM  
REQUIREMENT

IF EMPLOYER CHOOSES "SHALL" OR "MUST" AND DEVIATES, OSHA WILL PRESUME A VIOLATION

SHALL NOT/PROHIBITED

=

UNACCEPTABLE

IF EMPLOYER CHOOSES "SHALL NOT" OR "PROHIBITED" AND DEVIATES,  
OSHA WILL PRESUME A VIOLATION

SHOULD

=

ACCEPTABLE, PREFERRED

IF EMPLOYER CHOOSES "SHOULD" AND DEVIATES, OSHA WILL NOT PRESUME  
A VIOLATION IF NOT FOLLOWED

SHOULD NOT

=

DISFAVORED

IF EMPLOYER CHOOSES "SHOULD NOT" AND DEVIATES, OSHA WILL  
NOT PRESUME A VIOLATION IF NOT FOLLOWED