



**Driving Operational Excellence™**



**Mechanical Integrity  
Standard**

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# 1 Introduction

Commitment to the safe operation of all facilities requires that potential safety hazards are systematically identified and the risk from these hazards is managed in a way that employees, the public, and the environment are protected. Risk management is integrated in the design, construction, maintenance, and operation of all facilities. This Mechanical Integrity (MI) Standard provides the requirement for each facility to comply with Process Safety Management (PSM) and the Environmental Protection Agency (EPA) Risk Management Program (RMP) requirements for MI.

# 2 Purpose

The purpose of this Standard is to establish comprehensive management systems that focus on Process Safety Management and Risk Management Program (PSM/RMP). It's consistent with company health and safety values, principles of Responsible Care and regulatory compliance to achieve process safety excellence in our operations. This Standard should assist in achieving best in class performance at your facilities.

This Standard outlines the requirements to ensure compliance with:

- 29 CFR 1910.119 paragraph (j) Mechanical Integrity (MI) of the Occupational Safety and Health Administration (OSHA) PSM regulation
- The MI requirements of the EPA RMP rule 40 CFR 68.73

This document identifies the Process Safety Critical Equipment (PSCE) Determination as a subset of the site's overall maintenance and reliability (M&R) program.

# 3 Scope

The MI program shall include as a minimum, the PSCE within PSM Covered areas, plus site PSCE, such as emergency equipment that are supporting PSM covered areas, as identified by the Process Safety Critical Equipment Determination Procedure.

Each facility shall develop its own written MI program that:

- Provides a management system that sustains the long-term reliability of your Chemical Process Safety Critical Equipment
- Includes the MI roles and responsibilities associated with development and implementation of the MI management system
- Includes the specific list of PSCE and a method for keeping the list current
- Includes the procedures required to comply with the elements of this Standard

The MI Program shall contain the following elements:

- Process Safety Critical Equipment Determination
- Equipment Deficiencies
- Quality Control (QC) of Equipment and Spare Parts
- Maintenance & Reliability (M&R) Procedures