

**HANFORD MISSION SUPPORT CONTRACT**

# **Machinery and Machine Guarding**

**MSC-PRAC-30485**

**Revision 0**

**Effective Date: January 15, 2010**

**Topic: Safety and Health**

## Machinery and Machine Guarding

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<b>PURPOSE</b>	This practice identifies a key aspect of the Safety and Health (S&H) program, and establishes ways to protect personnel from the hazards associated with moving machine parts.
<b>SCOPE</b>	<p>This practice includes the general requirements for machinery and machine guarding.</p> <p>These requirements are consistent with the requirements published in the Mission Support Contract (MSC) Safety and Health virtual manual.</p>
<b>APPLICATION</b>	This practice applies to Mission Support Alliance (MSA) construction personnel.
<b>GENERAL REQUIREMENTS</b>	<p>Records generated during the performance of this activity are to be included in the Construction Work Package and will be managed in accordance with <a href="#">MSA-PRAC-30374</a>, <i>Construction Work Package</i>.</p> <p>The following are some examples of machines that normally require guards at the point of operation:</p> <ul style="list-style-type: none"><li>• Guillotine cutters</li><li>• Shears</li><li>• Alligator shears</li><li>• Power presses</li><li>• Milling machines</li><li>• Power saws</li><li>• Jointers</li><li>• Portable power tools</li><li>• Forming rolls and calendars.</li></ul> <p>Shut down and secure equipment as required by DOE-0336, <i>Hanford Site Lockout/Tagout</i> before maintenance or repair work is performed on guarded machinery.</p> <p>Where necessary, provide special hand tools so that operator's hands remain out of danger zones. These special tools do not take the place of the guards required by this practice.</p> <p>Use the manufacturer's recommendations and requirements or contact MSA S&amp;H for specific guarding requirements for each machine.</p> <p>Protect fan blade tips with 12-millimeter (1/2-inch) or less mesh guards if installed less than 2.1 meters (7 feet) above the floor or working level.</p>

## Machinery and Machine Guarding

Securely anchor machines designed for fixed installations to prevent motion or “walking.”

Guard belts, gears, shafts, pulleys, sprockets, spindles, drums, flywheels, chains, or other reciprocating, rotating, or moving parts exposed to employee contact or that may otherwise create a hazard.

Attach guard(s) to the machine (where possible) or secure elsewhere if the guard(s) cannot be attached to the machine for any reason. Install the guard(s) so a hazard is not created.

Guard nip points or points of operation on machines that expose employees to injury. If this is not possible or practical (such as for drill presses or belt sanders), use personal protective equipment and work practices that are adequate to ensure that the work can be performed safely.

Guard machines and operations that expose employees to chips, sparks, flying particles, or other debris.

Guard conveyor belts, head pulleys, tail pulleys, single-tension pulleys, dip tank-in pulleys, and idlers that are exposed to contact by employees.

Do not operate equipment unless guards are in place and functioning properly.

### FORMS

None

### RECORDS IDENTIFICATION

**Records Capture Table**

<b>Name of Document</b>	<b>Submittal Responsibility</b>	<b>Retention Responsibility</b>
Construction Work Package	Construction Supervisor/Superintendent	Project Document Control

### REFERENCES

[MSC-PRAC-30374](#), *Construction Work Package*

DOE-0336, *Hanford Site Lockout/Tagout*