ABSTRACT

Purpose: This instruction establishes policies and strategies for a Local Emphasis Program (LEP) designed to identify and reduce workplace hazards which are causing or are likely to cause amputations.

References: Utah Occupational Safety and Health Division (UOSH) Field Operations Manual (UFOM).

OSHA Instruction CPL 02-00-025, January 4, 1995, Scheduling System for Programmed Inspections.

OSHA Instruction CPL 02-00-051, December 18, 2018, Enforcement Exemptions and Limitations under the Appropriations Act (Appendix A updated annually).

OSHA Instruction CPL 03-00-019, August 13, 2015, National Emphasis Program on Amputations.

Distribution: UOSH Staff; Federal Occupational Safety and Health Administration (OSHA) Region VIII Area Office; H-Drive Accessible; and Internet Accessible.

Expiration: This directive expires October 31, 2024. EXCEPTION: Any inspection begun prior to this date may continue until its conclusion.

Originating Office: State of Utah, Labor Commission, UOSH

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</table>
I. **Goal:**
The goal of this directive is to continue an enforcement initiative to identify and reduce workplace hazards that cause or are likely to cause amputations. The intent of the LEP is to identify and focus on workplaces with machines that cause or are capable of causing amputations, as well as workplaces where amputations have occurred, in order to reduce amputation injuries while maximizing the agency’s inspection resources. This LEP will enable UOSH to review and analyze injury and illness records to determine whether amputations, avulsions, lacerations or other related injuries have occurred. This LEP also establishes a scheduling system for conducting safety and health inspections to address hazards associated with machine guarding.

II. **Scope:**
This directive applies to general industry workplaces identified, where any machinery and equipment that are likely to cause amputations are present [See Appendix A (not inclusive) for guidance on the types of machinery and equipment most often associated with amputations].

III. **Expiration:**
This directive expires on October 31, 2024, but may be renewed as necessary.

IV. **Background:**
Inadequate or improperly applied machine guarding techniques and inadequate control of associated energy during servicing and/or maintenance activities are the primary cause of amputations in manufacturing.

Injuries involving machinery and equipment often result in death or permanent disability. UOSH's inspection history indicates that employee exposures to unguarded or inadequately guarded machinery and equipment, together with associated hazardous energy exposures during servicing and maintenance activities, occur in many workplaces. The operation of machinery and equipment can be extremely dangerous and compliance with UOSH's machine guarding and hazardous energy control standards needs to be improved throughout industry.

Utah Administrative Code (UAC) R614 and 29 CFR 1910 (Subparts J, O, and P) provide for safety measures that need to be used for the safe operation, servicing and maintenance of machinery and equipment. Machinery and equipment are covered by UOSH standards such as, but not limited to:

- UAC R614-6-1. Crushing, Screening, and Grinding Equipment.
- UAC R614-6-10. Food Processing.
- 29 CFR 1910.147 - The control of hazardous energy (lockout/tagout).

V. Action:
The director or designee shall ensure the procedures outlined in this directive are followed during the effective period of this directive. This directive is not to conflict with inspection priorities as established in the Utah Field Operations Manual (UFOM).

When an inspection is not conducted because the employer has refused entry, a warrant may be sought in accordance with the current procedures for handling such refusals.

VI. Selection and Scheduling of Sites for Inspection:
Inspections conducted under this LEP shall be scheduled as follows:

A. Using local government sources, telephone directories, trade manuals and other available sources, UOSH will develop an inspection scheduling list of establishments that meet the requirements for inspection under this LEP. This list will be updated annually, but may also be updated at any time as necessary.

B. Establishments with 10 or fewer employees are not to be included in the inspection scheduling list. UOSH will not conduct programmed safety inspections of small employers (10 or fewer employees) in low hazard industries listed in Appendix A of CPL 02-00-051, Enforcement Exemptions and Limitations under the Appropriations Act.

C. To help in developing the inspection scheduling list, UOSH has identified industries, listed below, which typically have equipment and/or machinery that are known to cause serious injury, including amputations, and death. There may be other industries not listed below that fall under the scope of this LEP.

North American Industry Classification System (NAICS)

<table>
<thead>
<tr>
<th>Code</th>
<th>Industry Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>311111</td>
<td>Dog and Cat Food Manufacturing</td>
</tr>
<tr>
<td>311119</td>
<td>Other Animal Food Manufacturing</td>
</tr>
<tr>
<td>311211</td>
<td>Flour Milling</td>
</tr>
<tr>
<td>311225</td>
<td>Fats and Oils Refining and Blending</td>
</tr>
<tr>
<td>311230</td>
<td>Breakfast Cereal Manufacturing</td>
</tr>
<tr>
<td>311340</td>
<td>Non-Chocolate Confectionery Manufacturing</td>
</tr>
<tr>
<td>311351</td>
<td>Chocolate and Confectionery Manufacturing from Cacao Beans</td>
</tr>
<tr>
<td>311352</td>
<td>Confectionery Manufacturing from Purchased Chocolate</td>
</tr>
<tr>
<td>311411</td>
<td>Frozen Fruit, Juice, and Vegetable Manufacturing</td>
</tr>
</tbody>
</table>
311412  Frozen Specialty Food Manufacturing
311421  Fruit and Vegetable Canning
311422  Specialty Canning
311423  Dried and Dehydrated Food Manufacturing
311511  Fluid Milk Manufacturing
311512  Creamery Butter Manufacturing
311513  Cheese Manufacturing
311514  Dry, Condensed, and Evaporated Dairy Product Manufacturing
311520  Ice Cream and Frozen Dessert Manufacturing
311611  Animal (except Poultry) Slaughtering
311612  Meat Processed from Carcasses
311613  Rendering and Meat Byproduct Processing
311615  Poultry Processing
311710  Seafood Product Preparation and Packaging
311811  Retail Bakeries
311812  Commercial Bakeries
311821  Cookie and Cracker Manufacturing
311824  Dry Pasta, Dough, and Flour Mixes Manufacturing from Purchased Flour
311830  Tortilla Manufacturing
311911  Roasted Nuts and Peanut Butter Manufacturing
311919  Other Snack Food Manufacturing
311920  Coffee and Tea Manufacturing
311930  Flavoring Syrup and Concentrate Manufacturing
311941  Mayonnaise, Dressing, and Other Prepared Sauce Manufacturing
311942  Spice and Extract Manufacturing
311991  Perishable Prepared Food Manufacturing
311999  All Other Miscellaneous Food Manufacturing
312111  Soft Drink Manufacturing
312112  Bottled Water Manufacturing
312113  Ice Manufacturing
312120  Breweries
312130  Wineries
312140  Distilleries
312230  Tobacco Manufacturing
313110  Fiber, Yarn, and Thread Mills
313210  Broadwoven Fabric Mills
313220  Other Millwork (including Flooring)
313230  Nonwoven Fabric Mills
313310  Textile and Fabric Finishing Mills
314110  Carpet and Rug Mills
314120  Curtain and Linen Mills
314910  Textile Bag and Canvas Mills
<table>
<thead>
<tr>
<th>Code</th>
<th>Industry Description</th>
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</thead>
<tbody>
<tr>
<td>314994</td>
<td>Rope, Cordage, Twine, Tire Cord, and Tire Fabric Mills</td>
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<tr>
<td>314999</td>
<td>All Other Miscellaneous Textile Product Mills</td>
</tr>
<tr>
<td>315110</td>
<td>Hosiery and Sock Mills</td>
</tr>
<tr>
<td>315190</td>
<td>Other Apparel Knitting Mills</td>
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<tr>
<td>315210</td>
<td>Cut and Sew Apparel Contractors</td>
</tr>
<tr>
<td>315220</td>
<td>Men's and Boys' Cut and Sew Apparel Manufacturing</td>
</tr>
<tr>
<td>315240</td>
<td>Women's, Girls', and Infants' Cut and Sew Apparel Manufacturing</td>
</tr>
<tr>
<td>315280</td>
<td>Other Cut and Sew Apparel Manufacturing</td>
</tr>
<tr>
<td>315990</td>
<td>Apparel Accessories and Other Apparel Manufacturing</td>
</tr>
<tr>
<td>316110</td>
<td>Leather and Hide Tanning and Finishing</td>
</tr>
<tr>
<td>316210</td>
<td>Footwear Manufacturing</td>
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<tr>
<td>316992</td>
<td>Women's Handbag and Purse Manufacturing</td>
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<tr>
<td>316998</td>
<td>All Other Leather Good and Allied Product Manufacturing</td>
</tr>
<tr>
<td>321113</td>
<td>Sawmills</td>
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<tr>
<td>321114</td>
<td>Wood Preservation</td>
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<tr>
<td>321211</td>
<td>Hardwood Veneer and Plywood Manufacturing</td>
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<tr>
<td>321213</td>
<td>Engineered Wood Member (except Truss) Manufacturing</td>
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<tr>
<td>321214</td>
<td>Truss Manufacturing</td>
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<tr>
<td>321911</td>
<td>Wood Window and Door Manufacturing</td>
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<tr>
<td>321912</td>
<td>Cut Stock, Resawing Lumber, and Planing</td>
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<tr>
<td>321918</td>
<td>Other Millwork (including Flooring)</td>
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<tr>
<td>321920</td>
<td>Wood Container and Pallet Manufacturing</td>
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<tr>
<td>321991</td>
<td>Manufactured Home (Mobile Home) Manufacturing</td>
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<td>321992</td>
<td>Prefabricated Wood Building Manufacturing</td>
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<td>321999</td>
<td>All Other Miscellaneous Wood Product Manufacturing</td>
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<td>322121</td>
<td>Paper (except Newsprint) Mills</td>
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<tr>
<td>322211</td>
<td>Corrugated and Solid Fiber Box Manufacturing</td>
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<tr>
<td>322212</td>
<td>Folding Paperboard Box Manufacturing</td>
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<tr>
<td>322219</td>
<td>Other Paperboard Container Manufacturing</td>
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<tr>
<td>322220</td>
<td>Paper Bag and Coated and Treated Paper Manufacturing</td>
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<tr>
<td>322230</td>
<td>Stationery Product Manufacturing</td>
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<tr>
<td>322291</td>
<td>Sanitary Paper Product Manufacturing</td>
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<tr>
<td>322299</td>
<td>All Other Converted Paper Product Manufacturing</td>
</tr>
<tr>
<td>323111</td>
<td>Commercial Printing (except Screen and Books)</td>
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<tr>
<td>323113</td>
<td>Commercial Screen Printing</td>
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<tr>
<td>323117</td>
<td>Books Printing</td>
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<tr>
<td>323120</td>
<td>Support Activities for Printing</td>
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<tr>
<td>324110</td>
<td>Petroleum Refineries</td>
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<tr>
<td>324121</td>
<td>Asphalt Paving Mixture and Block Manufacturing</td>
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<tr>
<td>324122</td>
<td>Asphalt Shingle and Coating Materials Manufacturing</td>
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<tr>
<td>324191</td>
<td>Petroleum Lubricating Oil and Grease Manufacturing</td>
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<tr>
<td>324199</td>
<td>All Other Petroleum and Coal Products Manufacturing</td>
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<tr>
<td>325120</td>
<td>Industrial Gas Manufacturing</td>
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</table>
325130  Synthetic Dye and Pigment Manufacturing
325180  Other Basic Inorganic Chemical Manufacturing
325199  All Other Basic Organic Chemical Manufacturing
325211  Plastics Material and Resin Manufacturing
325212  Synthetic Rubber Manufacturing
325220  Artificial and Synthetic Fibers and Filaments Manufacturing
325311  Nitrogenous Fertilizer Manufacturing
325312  Phosphatic Fertilizer Manufacturing
325314  Fertilizer (Mixing Only) Manufacturing
325320  Pesticide and Other Agricultural Chemical Manufacturing
325411  Medicinal and Botanical Manufacturing
325412  Pharmaceutical Preparation Manufacturing
325413  In-Vitro Diagnostic Substance Manufacturing
325414  Biological Product (except Diagnostic) Manufacturing
325510  Paint and Coating Manufacturing
325520  Adhesive Manufacturing
325611  Soap and Other Detergent Manufacturing
325612  Polish and Other Sanitation Good Manufacturing
325613  Surface Active Agent Manufacturing
325620  Toilet Preparation Manufacturing
325910  Printing Ink Manufacturing
325920  Explosives Manufacturing
325991  Custom Compounding of Purchased Resins
325992  Photographic Film, Paper, Plate, and Chemical Manufacturing
325998  All Other Miscellaneous Chemical Product and Preparation Manufacturing
326111  Plastics Bag and Pouch Manufacturing
326112  Plastics Packaging Film and Sheet (including Laminated) Manufacturing
326113  Unlaminated Plastics Film and Sheet (except Packaging) Manufacturing
326121  Unlaminated Plastics Profile Shape Manufacturing
326122  Plastics Pipe and Pipe Fitting Manufacturing
326130  Laminated Plastics Plate, Sheet (except Packaging), and Shape Manufacturing
326140  Polystyrene Foam Product Manufacturing
326150  Urethane and Other Foam Product (except Polystyrene) Manufacturing
326160  Plastics Bottle Manufacturing
326191  Plastics Plumbing Fixture Manufacturing
326199  All Other Plastics Product Manufacturing
326212  Tire Retreading
326220  Rubber and Plastics Hoses and Belting Manufacturing
326291  Rubber Product Manufacturing for Mechanical Use
326299  All Other Rubber Product Manufacturing
327110  Pottery, Ceramics, and Plumbing Fixture Manufacturing
327120  Clay Building Material and Refractories Manufacturing
327211  Flat Glass Manufacturing
327212  Other Pressed and Blown Glass and Glassware Manufacturing
327215  Glass Product Manufacturing Made of Purchased Glass
327310  Cement Manufacturing
327320  Ready-Mix Concrete Manufacturing
327331  Concrete Block and Brick Manufacturing
327332  Concrete Pipe Manufacturing
327390  Other Concrete Product Manufacturing
327410  Lime Manufacturing
327420  Gypsum Product Manufacturing
327991  Cut Stone and Stone Product Manufacturing
327992  Ground or Treated Mineral and Earth Manufacturing
327993  Mineral Wool Manufacturing
327999  All Other Miscellaneous Nonmetallic Mineral Product Manufacturing
331110  Iron and Steel Mills and Ferroalloy Manufacturing
331210  Iron and Steel Pipe and Tube Manufacturing from Purchased Steel
331221  Rolled Steel Shape Manufacturing
331222  Steel Wire Drawing
331318  Other Aluminum Rolling, Drawing, and Extruding
331410  Nonferrous Metal (except Aluminum) Smelting and Refining
331420  Copper Rolling, Drawing, Extruding, and Alloying
331491  Nonferrous Metal (except Copper and Aluminum) Rolling, Drawing, and Extruding
331492  Secondary Smelting, Refining, and Alloying of Nonferrous Metal (except Copper and Aluminum)
331511  Iron Foundries
331512  Steel Investment Foundries
331513  Steel Foundries (except Investment)
331523  Nonferrous Metal Die-Casting Foundries
331524  Aluminum Foundries (except Die-Casting)
331529  Other Nonferrous Metal Foundries (except Die-Casting)
332111  Iron and Steel Forging
332114  Custom Roll Forming
332117  Powder Metallurgy Part Manufacturing
332119  Metal Crown, Closure, and Other Metal Stamping (except Automotive)
332215  Metal Kitchen Cookware, Utensil, Cutlery, and Flatware (except Precious) Manufacturing
332216  Saw Blade and Handtool Manufacturing
332311  Prefabricated Metal Building and Component Manufacturing
332312  Fabricated Structural Metal Manufacturing
332313  Plate Work Manufacturing
332321  Metal Window and Door Manufacturing
332322  Sheet Metal Work Manufacturing
332323  Ornamental and Architectural Metal Work Manufacturing
332410  Power Boiler and Heat Exchanger Manufacturing
332420  Metal Tank (Heavy Gauge) Manufacturing
332439  Other Metal Container Manufacturing
332510  Hardware Manufacturing
332613  Spring Manufacturing
332618  Other Fabricated Wire Product Manufacturing
332710  Machine Shops
332721  Precision Turned Product Manufacturing
332722  Bolt, Nut, Screw, Rivet, and Washer Manufacturing
332811  Metal Heat Treating
332812  Metal Coating, Engraving (except Jewelry and Silverware), and Allied Services to Manufacturers
332912  Fluid Power Valve and Hose Fitting Manufacturing
332913  Plumbing Fixture Fitting and Trim Manufacturing
332919  Other Metal Valve and Pipe Fitting Manufacturing
332992  Small Arms Ammunition Manufacturing
332994  Small Arms, Ordnance, and Ordnance Accessories Manufacturing
332996  Fabricated Pipe and Pipe Fitting Manufacturing
332999  All Other Miscellaneous Fabricated Metal Product Manufacturing
333111  Farm Machinery and Equipment Manufacturing
333112  Lawn and Garden Tractor and Home Lawn and Garden Equipment Manufacturing
333120  Construction Machinery Manufacturing
333131  Mining Machinery and Equipment Manufacturing
331132  Oil and Gas Field Machinery and Equipment Manufacturing
333241  Food Product Machinery Manufacturing
333242  Semiconductor Machinery Manufacturing
333243  Sawmill, Woodworking, and Paper Machinery Manufacturing
333244  Printing Machinery and Equipment Manufacturing
333249  Other Industrial Machinery Manufacturing
333314  Optical Instrument and Lens Manufacturing
333316  Photographic and Photocopying Equipment Manufacturing
333318  Other Commercial and Service Industry Machinery Manufacturing
333413  Industrial and Commercial Fan and Blower and Air Purification Equipment Manufacturing
333414  Heating Equipment (except Warm Air Furnaces) Manufacturing
333415  Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Manufacturing
333511  Industrial Mold Manufacturing
333514 Special Die and Tool, Die Set, Jig, and Fixture Manufacturing
333515 Cutting Tool and Machine Tool Accessory Manufacturing
333517 Machine Tool Manufacturing
333519 Rolling Mill and Other Metalworking Machinery Manufacturing
333611 Turbine and Turbine Generator Set Units Manufacturing
333612 Speed Changer, Industrial High-Speed Drive, and Gear Manufacturing
333618 Other Engine Equipment Manufacturing
333912 Air and Gas Compressor Manufacturing
333914 Measuring, Dispensing, and Other Pumping Equipment Manufacturing
333921 Elevator and Moving Stairway Manufacturing
333922 Conveyor and Conveying Equipment Manufacturing
333923 Overhead Traveling Crane, Hoist, and Monorail System Manufacturing
333924 Industrial Truck, Tractor, Trailer, and Stacker Machinery Manufacturing
333991 Power-Driven Handtool Manufacturing
333992 Welding and Soldering Equipment Manufacturing
333993 Packaging Machinery Manufacturing
333995 Fluid Power Cylinder and Actuator Manufacturing
333997 Scale and Balance Manufacturing
333999 All Other Miscellaneous General Purpose Machinery Manufacturing
334111 Electronic Computer Manufacturing
334118 Computer Terminal and Other Computer Peripheral Equipment Manufacturing
334210 Telephone Apparatus Manufacturing
334220 Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing
334290 Other Communications Equipment Manufacturing
334310 Audio and Video Equipment Manufacturing
334412 Bare Printed Circuit Board Manufacturing
334413 Semiconductor and Related Device Manufacturing
334416 Capacitor, Resistor, Coil, Transformer, and Other Inductor Manufacturing
334418 Printed Circuit Assembly (Electronic Assembly) Manufacturing
334419 Other Electronic Component Manufacturing
334510 Electromedical and Electrotherapeutic Apparatus Manufacturing
334511 Search, Detection, Navigation, Guidance, Aeronautical, and Nautical System and Instrument Manufacturing
334512 Automatic Environmental Control Manufacturing for Residential, Commercial, and Appliance Use
334513 Instruments and Related Products Manufacturing for Measuring, Displaying, and Controlling Industrial Process Variables
334514 Totalizing Fluid Meter and Counting Device Manufacturing
334515 Instrument Manufacturing for Measuring and Testing Electricity and
<table>
<thead>
<tr>
<th>NAICS Code</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>334516</td>
<td>Analytical Laboratory Instrument Manufacturing</td>
</tr>
<tr>
<td>334517</td>
<td>Irradiation Apparatus Manufacturing</td>
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<tr>
<td>334519</td>
<td>Other Measuring and Controlling Device Manufacturing</td>
</tr>
<tr>
<td>334613</td>
<td>Blank Magnetic and Optical Recording Media Manufacturing</td>
</tr>
<tr>
<td>334614</td>
<td>Software and Other Prerecorded Compact Disc, Tape, and Record Reproducing</td>
</tr>
<tr>
<td>335121</td>
<td>Residential Electric Lighting Fixture Manufacturing</td>
</tr>
<tr>
<td>335122</td>
<td>Commercial, Industrial, and Institutional Electric Lighting Fixture Manufacturing</td>
</tr>
<tr>
<td>335129</td>
<td>Other Lighting Equipment Manufacturing</td>
</tr>
<tr>
<td>335210</td>
<td>Small Electrical Appliance Manufacturing</td>
</tr>
<tr>
<td>335311</td>
<td>Power, Distribution, and Specialty Transformer Manufacturing</td>
</tr>
<tr>
<td>335312</td>
<td>Motor and Generator Manufacturing</td>
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<tr>
<td>335313</td>
<td>Switchgear and Switchboard Apparatus Manufacturing</td>
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<tr>
<td>335314</td>
<td>Relay and Industrial Control Manufacturing</td>
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<tr>
<td>335911</td>
<td>Storage Battery Manufacturing</td>
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<td>335929</td>
<td>Other Communication and Energy Wire Manufacturing</td>
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<td>335931</td>
<td>Current-Carrying Wiring Device Manufacturing</td>
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<tr>
<td>335991</td>
<td>Carbon and Graphite Product Manufacturing</td>
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<tr>
<td>335999</td>
<td>All Other Miscellaneous Electrical Equipment and Component Manufacturing</td>
</tr>
<tr>
<td>336120</td>
<td>Heavy Duty Truck Manufacturing</td>
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<tr>
<td>336211</td>
<td>Motor Vehicle Body Manufacturing</td>
</tr>
<tr>
<td>336212</td>
<td>Truck Trailer Manufacturing</td>
</tr>
<tr>
<td>336214</td>
<td>Travel Trailer and Camper Manufacturing</td>
</tr>
<tr>
<td>336310</td>
<td>Motor Vehicle Gasoline Engine and Engine Parts Manufacturing</td>
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<tr>
<td>336320</td>
<td>Motor Vehicle Electrical and Electronic Equipment Manufacturing</td>
</tr>
<tr>
<td>336330</td>
<td>Motor Vehicle Steering and Suspension Components (except Spring) Manufacturing</td>
</tr>
<tr>
<td>336340</td>
<td>Motor Vehicle Brake System Manufacturing</td>
</tr>
<tr>
<td>336350</td>
<td>Motor Vehicle Transmission and Power Train Parts Manufacturing</td>
</tr>
<tr>
<td>336360</td>
<td>Motor Vehicle Seating and Interior Trim Manufacturing</td>
</tr>
<tr>
<td>336370</td>
<td>Motor Vehicle Metal Stamping</td>
</tr>
<tr>
<td>336390</td>
<td>Other Motor Vehicle Parts Manufacturing</td>
</tr>
<tr>
<td>336411</td>
<td>Aircraft Manufacturing</td>
</tr>
<tr>
<td>336412</td>
<td>Aircraft Engine and Engine Parts Manufacturing</td>
</tr>
<tr>
<td>336413</td>
<td>Other Aircraft Parts and Auxiliary Equipment Manufacturing</td>
</tr>
<tr>
<td>336414</td>
<td>Guided Missile and Space Vehicle Manufacturing</td>
</tr>
<tr>
<td>336415</td>
<td>Guided Missile and Space Vehicle Propulsion Unit and Propulsion Unit Parts Manufacturing</td>
</tr>
<tr>
<td>336419</td>
<td>Other Guided Missile and Space Vehicle Parts and Auxiliary Equipment Manufacturing</td>
</tr>
</tbody>
</table>
336510  Railroad Rolling Stock Manufacturing
336611  Ship Building and Repairing
336612  Boat Building
336991  Motorcycle, Bicycle, and Parts Manufacturing
336999  All Other Transportation Equipment Manufacturing
337110  Wood Kitchen Cabinet and Countertop Manufacturing
337121  Upholstered Household Furniture Manufacturing
337122  Nonupholstered Wood Household Furniture Manufacturing
337124  Metal Household Furniture Manufacturing
337125  Household Furniture (except Wood and Metal) Manufacturing
337127  Institutional Furniture Manufacturing
337211  Wood Office Furniture Manufacturing
337212  Custom Architectural Woodwork and Millwork Manufacturing
337214  Office Furniture (except Wood) Manufacturing
337215  Showcase, Partition, Shelving, and Locker Manufacturing
337910  Mattress Manufacturing
337920  Blind and Shade Manufacturing
339112  Surgical and Medical Instrument Manufacturing
339113  Surgical Appliance and Supplies Manufacturing
339114  Dental Equipment and Supplies Manufacturing
339115  Ophthalmic Goods Manufacturing
339910  Jewelry and Silverware Manufacturing
339920  Sporting and Athletic Goods Manufacturing
339930  Doll, Toy, and Game Manufacturing
339940  Office Supplies (except Paper) Manufacturing
339950  Sign Manufacturing
339991  Gasket, Packing, and Sealing Device Manufacturing
339992  Musical Instrument Manufacturing
339994  Broom, Brush, and Mop Manufacturing
339999  All Other Miscellaneous Manufacturing

D. UOSH may add to the inspection scheduling list individual establishments where serious injuries, amputations, or fatalities related to saws, shears, slicers, power presses of all types and other machines have occurred in the last five years. Local evidence of amputations will be based on OIS accident data and, if available, by Bureau of Labor Statistic (BLS) and/or Utah Labor Commission Industrial Accidents Division (IAD) data, OSHA 300 data, National Institute for Occupational Safety and Health (NIOSH) data, and other reliable sources of information (e.g., reports of amputations from hospital admissions, emergency medical services, fire department, and police reports).

E. Establishments which have had a comprehensive safety inspection in the previous 24 months and have not had an amputation or significant injury during this period will not be added to the inspection scheduling list until the 24 month time period has elapsed.
F. No more than one amputation LEP inspection will be conducted at each establishment/site every 24 months. Unprogrammed inspections, including monitoring inspections, follow-up inspections, referral inspections, complaint inspections, and accident investigations may be conducted at any time as applicable.

G. Inspections shall concentrate on industries and establishments where saws, shears, slicers, power presses of all types and other machines as described in Appendix A are used, and/or where there have been serious injuries, amputations, or fatalities related to guarding of machines or equipment.

H. Establishments identified under this LEP will be added to an inspection scheduling list. From this inspection scheduling list, a random list will be developed using a random number list (see Appendix C of CPL-02-00-025 for guidance) or an internet-based randomized sequence generator. The first cycle of one hundred establishments, starting from the top of the randomized list, will be selected and assigned to Compliance Safety and Health Officers (CSHOs) for inspection. Once a cycle is completed, the establishments selected in that cycle will be removed from the inspection scheduling list and placed on the completed establishment list. After completion of the cycle, the next one hundred establishments will be selected from the top of the randomized list and assigned to CSHOs. If any new establishments are added to the inspection scheduling list, the list will be re-randomized prior to selecting the next one hundred establishments. This process will be repeated until the entire scheduling list is completed. A cycle may be generated prior to completion of the previous cycle if there are no available establishments for CSHO assignment.

I. Due to Utah’s dispersed and rural population centers, the director or designee may select other establishments from the inspection scheduling list within a geographical region for an inspection. This will be done to reduce travel time to remote locations and improve efficiency of the inspection process. The director must ensure that all establishments from the scheduling list within UOSH’s jurisdiction will be inspected within a reasonable time period.

J. If any changes in the selection process are necessary, the director or designee must approve the change and document the justification for the desired change.

K. Prior to the compliance section supervisor assigning an unprogrammed inspection to the CSHO, the supervisor will check the inspection scheduling list to determine if the establishment assigned for inspection is on the list. If it is on the list, the unprogrammed inspection will be expanded to include the LEP inspection.

L. Voluntary Protection Program (VPP) and Safety and Health Achievement Recognition Program (SHARP) sites will be removed from UOSH’s inspection scheduling list for the duration of approved participation in the VPP and SHARP. The site will remain off the list until the approved VPP or SHARP participant has withdrawn or been terminated from its respective program.
VII. **Inspection Procedures:**

A. All inspections, conducted under this LEP, will be comprehensive machine guarding and lockout/tagout (LOTO) inspections, with the primary purpose of identifying amputation hazards. All inspections will include an evaluation of any equipment that may cause an amputation and should focus on hazards associated with power presses, saws, shears, slicers and other machines identified in Appendix A.

B. To prepare for inspections under this LEP, all CSHOs should become familiar with the following OSHA standards and publications, as well as the OSHA eTools website regarding machine guarding:
   1. OSHA Instruction CPL 03-00-019, August 13, 2015, National Emphasis Program on Amputations.
   5. OSHA Publication 3157, A Guide for Protecting Workers from Woodworking Hazards.

C. Once an inspection has been scheduled and assigned, the CSHO shall search the Federal OSHA website and OIS for the employer’s inspection history to ascertain whether the establishment has received an amputation LEP inspection or a comprehensive inspection within the last 24 months.

D. The CSHO will enter the establishment and conduct the inspection according to the UFOM.

E. During the opening conference, the CSHO shall request and review the establishment’s OSHA 300 and 300A logs for the past three (3) years and the current year, looking for amputations and similar injuries that will direct the focus of the inspection.

F. If the CSHO learns the employer employs 10 or fewer employees, within the state of Utah, currently and at all times during the last 12 months and the employer is in a low-hazard industry listed in Appendix A of CPL 02-00-051, Enforcement Exemptions and Limitations under the Appropriations Act, the CSHO will not conduct a programmed safety inspection and will enter the scope of inspection in OIS as “no inspection.”
G. If the CSHO enters an establishment and determines there are no machines that present an amputation hazard, the CSHO will determine if an inspection should be conducted under another UOSH LEP. A programmed planned inspection will not be conducted at an establishment if there are no machines that present an amputation hazard and if no other LEP applies. The CSHO will mark the scope of such inspection in OIS as “no inspection.” However, if the CSHO observes other serious hazards at said establishment, the CSHO will open a referral inspection to address such hazards, unless the employer is exempt from inspection in accordance with CPL 02-00-051, Enforcement Exemptions and Limitations under the Appropriations Act.

H. During the walkthrough portion of the inspection, the CSHO will conduct a thorough inspection of the machine(s) with particular attention to employee exposure to nip points, pinch points, shear points, cutting actions, and other point(s) of operation. During the inspection, employee exposure to the following will be evaluated, in addition to other machine guarding-related issues observed:
   1. Regular operation of the machine.
   2. Setup/threading/preparation for regular operation of the machine.
   3. Clearing jams or upset conditions.
   4. Making running adjustments while the machines are operating.
   5. Cleaning of the machine.
   6. Oiling or greasing of the machine or machine parts.
   7. Scheduled/unscheduled maintenance.
   8. Lockout/tagout.

I. CSHOs will evaluate and inspect other hazards that are discovered or witnessed during the inspection.

J. If during an unprogrammed inspection the CSHO discovers that an establishment has machines or equipment that are covered under this LEP, the CSHO will expand the inspection to include the elements of this directive. The CSHO will report the LEP inspection to their supervisor who will add the establishment information to the completed inspection list.

VIII. **OSHA Information System (OIS) Coding:**

A. For any programmed or unprogrammed inspection under this LEP, “GUARDLOCK” will be selected in the Inspection Emphasis Programs field under State Emphasis Program.

B. In the Inspection Emphasis Programs field of the OIS, select all National Emphasis Programs/Local Emphasis Programs (NEP/LEP) OIS codes applicable to the inspection.
IX. **Program Evaluation:**

   A. Abatement documentation/verification will be submitted to or otherwise collected by UOSH for all violations. Proof of abatement must be placed in the case file immediately upon verification.

   B. UOSH will, at least annually, prepare and submit a written evaluation of this LEP to the director or designee. The evaluation will include a recommendation for the continuation or elimination of this program.

X. **Outreach and Education**

   The director or designee will assure that Consultation and Education Services Section staff are familiar with this directive and actively promote the LEP when conducting outreach sessions and meetings. Machine guarding and lockout/tagout hazards covered by this LEP will be pointed out and discussed during outreach sessions and meetings. Handouts and publications that address these hazards, which are already developed and available, will be provided at outreach sessions and meetings. A copy of this LEP will be provided to interested parties upon request.
APPENDIX A

(To be used for guidance/not inclusive)

- Agricultural, Garden Machinery, Bailers
- Aerial Lift Platforms
- Benders, Rollers and Shapers
- Casting Machinery
- Conveyors – Belt, Chain, Live Roller, and Auger Screw Conveyors
- Cranes (unspecified)
- Drills – Stationary
- Extruding Machinery
- Food and Beverage Processing
- Grinders, Abraders and Meat Grinders
- Heating and Cooking Machinery and Appliances
- Material and Personnel Handling Machinery
- Metal, Woodworking and Special Material Machinery
- Milling Machines
- Mixers, Blenders, Whippers, Slicers, and Food Beverage Processing Equipment
- Mowing Machinery
- Packing, Wrapping, Bundling Machinery
- Plastic Injection Molding Machinery
- Press Brakes (All Types)
- Presses (Mechanical, Hydraulic, and Pneumatic)
- Printing Presses
- Sawing Machinery – (Band, Table, Radial Arm Saws)
- Shears (All Types)

Descriptions of most of these machines, their amputation hazards and methods of controlling their amputation hazards can be found in OSHA Publication 3170-07R, Safeguarding Equipment and Protecting Workers from Amputations.
APPENDIX B

Related ANSI and ASME Standards:

(This appendix is not an inclusive list of all ANSI standards that are associated with hazardous machinery and equipment)

1. ANSI B11.1- Mechanical Power Presses
2. ANSI B11.2- Hydraulic Power Presses
3. ANSI B11.3- Power Press Brakes
4. ANSI B11.4- Shears
5. ANSI B11.5- Ironworkers
6. ANSI B11.6- Lathes
7. ANSI B11.7- Cold Headers and Cold Formers
8. ANSI B11.8- Drilling, Milling, and Boring Machines
9. ANSI B11.9- Grinding Machinery
10. ANSI B11.10- Metal Sawing Machines
11. ANSI B11.11- Gear Cutting Machines
12. ANSI B11.12- Roll-Forming and Roll-Bending Machines
13. ANSI B11.14- Coil-Slitting Machines
14. ANSI B11.15- Pipe, Tube, and Shape Bending Machines
15. ANSI B11.16- Metal Powder Compacting Presses
16. ANSI B11.17- Horizontal Hydraulic Extrusion Presses
17. ANSI B11.18- Machinery and Machine Systems for Processing Strip, Sheet or Plate from Coiled Configuration
18. ANSI B11.19- Safeguarding When Referenced by the Other B11 Machine Tool Safety Standards
19. ANSI B5.37- External Cylindrical Grinding Machines (Centerless)
20. ANSI B5.42- External Cylindrical Grinding Machines (Universal)
21. ANSI B65.1- Printing Press Systems
22. ANSI B65.2- Safety Standard – Binding and Finishing Systems
23. ANSI B65.3- Safety Standard for Guillotine Paper Cutters
24. ANSI B7.1- Use, Care, and Protection of Abrasive Wheels
25. ANSI B151.5- Plastic Film and Sheet Winding Equipment
26. ANSI B151.20- Plastic Sheet Production Machinery
27. ANSI B155.1- Packaging Machinery and Packaging-Related Converting Machinery
28. ANSI B177.1- Three Roller Printing Ink Mills
29. ANSI O1.1- Woodworking Machinery
30. ANSI Z244.1- Control of Hazardous Energy - Lockout/Tagout and Alternative Methods
31. ASME B5.52M- Mechanical Power Presses, General Purpose Single Point
32.  ASME B15.1- Mechanical Power Transmission Apparatus
33.  ASME B15.1A- Addenda to B15.
34.  ASME B15.1B- Addenda to B15.1
35.  ASME B20.1- Conveyors and Related Equipment, with Interpretations A and B
36.  ASME B20.1A and B20.1B- Addenda to B20.1
37.  ASME/CEMA 350- Screw Conveyors
38.  ASME/CEMA 401- Unit Handling Conveyors – Roll Conveyors – Non-Powered
39.  ASME/CEMA 402- Unit Handling Conveyors – Belt Conveyors
40.  ASME/CEMA 403- Unit Handling Conveyors – Belt Driven Live Conveyors
41.  ASME/CEMA 404- Unit Handling Conveyors – Chain Driven Live Conveyors
42.  ASME/CEMA 405- Packaging Handling Conveyors – Slant Conveyors