



Utah Occupational Safety and Health Division (UOSH)

DIRECTIVE NUMBER: 2019-002	EFFECTIVE DATE: November 1, 2019
SUBJECT: Local Emphasis Program for Amputations	AMENDED DATE: N/A

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.
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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 R614-5-2. Conveyors.
- UAC R614-6-1. Crushing, Screening, and Grinding Equipment.
- UAC R614-6-9. Filters and Centrifuges.
- UAC R614-6-10. Food Processing.
- 29 CFR 1910.147 - The control of hazardous energy (lockout/tagout).

- 29 CFR 1910.212 - General requirements for all machines.
- 29 CFR 1910.213 - Woodworking machinery requirements.
- 29 CFR 1910.217 - Mechanical power presses.
- 29 CFR 1910.219 - Mechanical power-transmission apparatus.
- 29 CFR 1910.243 - Guarding of portable powered tools.

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)

311111	Dog and Cat Food Manufacturing
311119	Other Animal Food Manufacturing
311211	Flour Milling
311225	Fats and Oils Refining and Blending
311230	Breakfast Cereal Manufacturing
311340	Non-Chocolate Confectionery Manufacturing
311351	Chocolate and Confectionery Manufacturing from Cacao Beans
311352	Confectionery Manufacturing from Purchased Chocolate
311411	Frozen Fruit, Juice, and Vegetable Manufacturing

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

314994	Rope, Cordage, Twine, Tire Cord, and Tire Fabric Mills
314999	All Other Miscellaneous Textile Product Mills
315110	Hosiery and Sock Mills
315190	Other Apparel Knitting Mills
315210	Cut and Sew Apparel Contractors
315220	Men's and Boys' Cut and Sew Apparel Manufacturing
315240	Women's, Girls', and Infants' Cut and Sew Apparel Manufacturing
315280	Other Cut and Sew Apparel Manufacturing
315990	Apparel Accessories and Other Apparel Manufacturing
316110	Leather and Hide Tanning and Finishing
316210	Footwear Manufacturing
316992	Women's Handbag and Purse Manufacturing
316998	All Other Leather Good and Allied Product Manufacturing
321113	Sawmills
321114	Wood Preservation
321211	Hardwood Veneer and Plywood Manufacturing
321213	Engineered Wood Member (except Truss) Manufacturing
321214	Truss Manufacturing
321911	Wood Window and Door Manufacturing
321912	Cut Stock, Resawing Lumber, and Planing
321918	Other Millwork (including Flooring)
321920	Wood Container and Pallet Manufacturing
321991	Manufactured Home (Mobile Home) Manufacturing
321992	Prefabricated Wood Building Manufacturing
321999	All Other Miscellaneous Wood Product Manufacturing
322121	Paper (except Newsprint) Mills
322211	Corrugated and Solid Fiber Box Manufacturing
322212	Folding Paperboard Box Manufacturing
322219	Other Paperboard Container Manufacturing
322220	Paper Bag and Coated and Treated Paper Manufacturing
322230	Stationery Product Manufacturing
322291	Sanitary Paper Product Manufacturing
322299	All Other Converted Paper Product Manufacturing
323111	Commercial Printing (except Screen and Books)
323113	Commercial Screen Printing
323117	Books Printing
323120	Support Activities for Printing
324110	Petroleum Refineries
324121	Asphalt Paving Mixture and Block Manufacturing
324122	Asphalt Shingle and Coating Materials Manufacturing
324191	Petroleum Lubricating Oil and Grease Manufacturing
324199	All Other Petroleum and Coal Products Manufacturing
325120	Industrial Gas Manufacturing

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

Electrical Signals

334516 Analytical Laboratory Instrument Manufacturing

334517 Irradiation Apparatus Manufacturing

334519 Other Measuring and Controlling Device Manufacturing

334613 Blank Magnetic and Optical Recording Media Manufacturing

334614 Software and Other Prerecorded Compact Disc, Tape, and Record Reproducing

335121 Residential Electric Lighting Fixture Manufacturing

335122 Commercial, Industrial, and Institutional Electric Lighting Fixture Manufacturing

335129 Other Lighting Equipment Manufacturing

335210 Small Electrical Appliance Manufacturing

335311 Power, Distribution, and Specialty Transformer Manufacturing

335312 Motor and Generator Manufacturing

335313 Switchgear and Switchboard Apparatus Manufacturing

335314 Relay and Industrial Control Manufacturing

335911 Storage Battery Manufacturing

335929 Other Communication and Energy Wire Manufacturing

335931 Current-Carrying Wiring Device Manufacturing

335991 Carbon and Graphite Product Manufacturing

335999 All Other Miscellaneous Electrical Equipment and Component Manufacturing

336120 Heavy Duty Truck Manufacturing

336211 Motor Vehicle Body Manufacturing

336212 Truck Trailer Manufacturing

336214 Travel Trailer and Camper Manufacturing

336310 Motor Vehicle Gasoline Engine and Engine Parts Manufacturing

336320 Motor Vehicle Electrical and Electronic Equipment Manufacturing

336330 Motor Vehicle Steering and Suspension Components (except Spring) Manufacturing

336340 Motor Vehicle Brake System Manufacturing

336350 Motor Vehicle Transmission and Power Train Parts Manufacturing

336360 Motor Vehicle Seating and Interior Trim Manufacturing

336370 Motor Vehicle Metal Stamping

336390 Other Motor Vehicle Parts Manufacturing

336411 Aircraft Manufacturing

336412 Aircraft Engine and Engine Parts Manufacturing

336413 Other Aircraft Parts and Auxiliary Equipment Manufacturing

336414 Guided Missile and Space Vehicle Manufacturing

336415 Guided Missile and Space Vehicle Propulsion Unit and Propulsion Unit Parts Manufacturing

336419 Other Guided Missile and Space Vehicle Parts and Auxiliary Equipment Manufacturing

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.
 - 2. OSHA standards contained in 29 CFR 1910.147, The Control of Hazardous Energy (lockout/tagout).
 - 3. OSHA standards contained in 29 CFR 1910 Subpart O, Machinery and Machine Guarding.
 - 4. OSHA standards contained in 29 CFR 1910 Subpart P, Hand and Portable Powered Tools& Other Hand-Held Equipment.
 - 5. OSHA Publication 3157, A Guide for Protecting Workers from Woodworking Hazards.
 - 6. OSHA Publication 3170-02R, 2007, Safeguarding Equipment and Protecting Workers from Amputations.
 - 7. OSHA Technical Links Web Page, Machine Guarding, <https://www.osha.gov/SLTC/machineguarding/index.html>.
- 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

