




State of Alaska
Department of Labor and Workforce Development
Division of Labor Standards and Safety

AKOSH Program Directive #19-03

Date: August 13, 2019
To: All AKOSH Staff
From: Joseph Knowles, Deputy Director 
Subject: Implementing OSHA's National Emphasis Program (NEP) on Amputations under Alaska OSH jurisdiction

This program directive describes updated policies and procedures for implementing OSHA's National Emphasis Program (NEP) on Amputations for workplaces under Alaska OSH jurisdiction.

This program directive becomes effective immediately and cancels PD 16-05. Please ensure that all members of your staff receive this program directive, and understand how to implement it.

Attachment: AKOSH Amputations

cc: Arlene Lamont, Area Director, Anchorage, OSHA, Region X
Abby Lopez, State Programs Manager, OSHA, Region X

EXECUTIVE SUMMARY

This directive provides the framework for an emphasis program to reduce and/or eliminate occupational hazards associated with workplace machinery and equipment which are likely to cause amputations.

I. Purpose.

This directive updates policies and procedures for implementing a National Emphasis Program (NEP) to identify and to reduce workplace machine and equipment hazards which are causing or likely to cause amputations.

Amputation is defined as a “traumatic loss of limb or other external body part. Amputations include a part, such as a limb or appendage that has been severed, cut off, amputated (either completely or partially); fingertip amputation with or without bone loss; medical amputations resulting from irreparable damage; amputations of body parts that have since been reattached. Amputations do not include avulsions, enucleations, degloving, scalping, severed ears, or broken or chipped teeth”.

II. Scope.

This directive applies AKOSH-wide.

III. References.

- A. OSHA Instruction CPL 03-00-019 National Emphasis Program on Amputations, August 13, 2015
- B. Alaska Occupational Safety and Health Field Operation Manual (AKOSH FOM) Program Directive PD # 18-05, May 1, 2018 or current update.
- C. AKOSH Program Directive PD # 14-01 OSHA Strategic Partnership Program for Workers Safety and Health, April 25, 2014 or current update.
- D. Alaska Statutes AS 18.60.010 through AS 18.60.105
- E. Alaska Administrative Code (AAC) all safety and health standards enforced by AKOSH and contained in Title 8, Chapter 61 of the Alaska Administrative Code.
- F. 29 CFR 1910 General Industry Standards
- G. 29 CFR 1926 Construction Standards
- H. OSHA Publications – Amputation found at www.osha.gov

IV. Cancellation.

AKOSH PD 16-05, National Emphasis Program on Amputations

V. Background.

Amputation hazards are primarily caused by failure to properly apply machine guarding techniques or to adequately control hazardous energy during servicing/maintenance activities. AKOSH's inspection experience over the last few decades indicates that these hazards occur in many workplaces, but are focused on sites which involve employee use, maintenance or repair of heavy equipment, machinery and sharpened tools in processing or manufacturing operations.

VI. Program Procedures.

1. AKOSH inspection list. Using the most recent available employer information, a master list of targeted establishments under this program will be developed. This list will include establishments with the NAICS codes listed in the OSHA CPL 03-00-019 master list (Appendix A of this PD). AKOSH will add to the master list of general industry establishments where amputation injuries or fatalities related to machinery and/or equipment have occurred in the three years preceding the effective date of this directive. This will be based on incident data reported to AKOSH and/or maintained by the Alaska Division of Worker's Compensation. In addition, AKOSH will target the seafood processing industry (NAICS 311711 and 311712).

Further, any establishment, other than those where amputations are known to have occurred, that had a comprehensive enforcement safety inspection in the previous 24 months, will be deleted from the list. Prior to finalization, the target list will be reviewed by the AKOSH Chief/Assistant Chief of Consultation for removal of any sites that are covered by a Consultation and Training exclusion from programmed/planned enforcement inspections.

Once a target list has been established, all establishments on the list will be inspected before a new target list is developed.

2. Inspection scheduling. Site selection for an inspection will follow a random selection method similar to other programmed planned inspections.

The master list will be separated into lists within one day's driving distance (60 miles) from Anchorage, Juneau and Fairbanks where regional offices are located. These regional lists will be randomized and the Chief/Assistant Chief of Enforcement will assign sites to Compliance Safety and Health Officer (CSHO) for inspection activity. Areas outside of driving distance will be placed on lists by location and the Chief/Assistant Chief of Enforcement will randomize those lists for assignment based on CSHO travel schedules. Once target lists have been established, establishments will be selected for inspection based on their order on the randomized list and considerations for travel efficiencies to areas outside regional zones.

3. Relationship to Other Programs. Establishments actively participating in the Alaska OSH recognition and exemption programs AKOSH Safety and Health Achievement Recognition Program (SHARP) and AKOSH Voluntary Protection Program (VPP)

will be exempted from programmed inspections in accordance with the applicable provisions of the AKOSH Field Operations Manual (FOM).

4. Inspection Procedures. Inspections initiated under this directive will be scheduled and conducted in accordance with provisions of the AKOSH FOM except as noted below.

Once an inspection has been internally scheduled and assigned for the identified establishment, the CSHO will search the employer database for the employer's citation and fatality/accident history prior to the opening conference.

At the opening conference, the CSHO will verify with the employer whether any machinery and/or equipment in Appendix B or any other machinery and/or equipment that could cause amputations is present in the workplace. If any machinery and/or equipment associated with amputations are present in the workplace, the CSHO should exercise professional judgment in conducting an inspection of the machinery and/or equipment with particular attention to employee exposure to nip points, pinch points, shear points, cutting actions, and other point(s) of operation.

NOTE: Typical ANSI and ASME standards that are associated with hazardous machinery and equipment identified in Appendix C.

Before proceeding with the inspection, the CSHO will review OSHA 300 logs for the three most current years to identify recorded amputations associated with machinery and equipment.

The CSHO should consider and evaluate employee exposures during any of the following:

- Regular operation of the machine;
- Setup/ threading/ preparation for regular operation of the machine;
- Clearing jams or upset conditions;
- Making running adjustments while the machine is operating;
- Cleaning the machine;
- Oiling or greasing the machine or machine pans;
- Scheduled/unscheduled maintenance; and
- Locking out or tagging out.

5. Training. Because of the technical nature of some of these inspections, CSHOs who conducts inspections under this directive, and consultation staff, must have adequate training or experience with both general and specific machine guarding concepts and techniques as well as with hazardous energy control (lockout/tag out) program requirements. In situations that require specific expertise on guarding of specialized equipment, the CSHO or consultant will consult with their supervisors for guidance.

VII. Reporting, Recording and Tracking in OIS.

All inspections conducted shall be recorded in the OSHA Information System (OIS) as being “Partial” unless an inspection is expanded to comprehensive. The OIS identification code to be used in the Inspection Activity will be “Amputate” under National Emphasis as follows:

A. OIS Coding. The inspection must be marked as “Programmed Planned” as the Initiating type, “AMPUTATE” needs to be selected in the “National Emphasis Program” field and “AMPUTATE” must be selected as the “Primary Emphasis Program” (the Amputations inspections are being coded under the NEP for ease of tracking).

B. Complaint Inspections. Whenever an OSHA-7 or OIS Complaint UPA is completed by a Federal office and the applicable complaint alleges the presence of amputation hazards, complete the OSHA-7 or OIS Complaint UPA in the usual manner, and record “AMPUTATE” in the space in item 50 in IMIS. For OIS Complaint UPAs, select “AMPUTATE” as the “National Emphasis Program” on the “Program Info” tab.

C. Fatality and Catastrophe Inspections. Whenever an OSHA-36 or OIS Fat/Cat UPA is completed by a Federal office and the inspecting CSHO is able to identify at the site of the fatality/catastrophe the presence of amputation hazards, complete the OIS Fat/Cat UPA in the usual manner and record “AMPUTATE” in the space in item 36 in IMIS. For OIS Fat/Cat UPAs, select “AMPUTATE” as the “National Emphasis Program” on the “Program Info” tab.

D. Referral Inspections. Whenever an OSHA-90 or OIS Referral UPA is completed by a Federal office and the applicable referral case has amputation hazards as one of the subjects, complete the OSHA-90 or OIS Referral UPA in the usual manner and record “AMPUTATE” in the space in item 30 in IMIS. For OIS Referral UPAs, select “AMPUTATE” as the “National Emphasis Program” on the “Program Info” tab.

VIII. Establishment Identification.

If the DUNS number of an inspected establishment is known, it must be recorded in the appropriate field on the Establishment Detail Screen. The establishment Detail Screen can be accessed by selecting “Search Establishment” from the OIS-Navigation menu on the Home Page.

IX. New Rule. Occupational Injury and Illness Recording and Reporting Requirements –NAICS Update and Reporting Revisions.

Occupational accidents that result in death, inpatient hospitalization, amputation, or loss of eye involving one or more employees must be reported to AKOSH within 8 hours.

Immediately report accidents to:

- (800) 770-4940 or (907) 269-4940 (8 a.m. to 4:30 p.m. M-F, AK time)
- (800) 321-6742 (After 4:30 p.m. or on weekends and holiday)

X. Outreach.

AKOSH Consultation and Training consultants will provide outreach to employers in accordance with appropriate provisions of the AKOSH Consultation Policy and Procedure Manual (CPPM).

Appendix A

NAICS codes established by federal OSHA under the NEP for Amputations

2012 NAICS	2012 NAICS US Title
311411	Frozen Fruit, Juice, and Vegetable Manufacturing
311412	Frozen Specialty Food Manufacturing
311511	Fluid Milk Manufacturing
311512	Creamery Butter Manufacturing
311513	Cheese Manufacturing
311514	Dry, Condensed, and Evaporated Dairy Product Manufacturing
311611	Animal (except Poultry) Slaughtering
311612	Meat Processed from Carcasses
311613	Rendering and Meat Byproduct Processing
311615	Poultry Processing
311811	Retail Bakeries
311812	Commercial Bakeries
311813	Frozen Cakes, Pies, and Other Pastries Manufacturing
311991	Perishable Prepared Food Manufacturing
311999	All Other Miscellaneous Food Manufacturing
321113	Sawmills
321114	Wood Preservation
321911	Wood Window and Door Manufacturing
321912	Cut Stock, Resawing Lumber, and Planing
321918	Other Millwork (including Flooring)
321920	Wood Container and Pallet Manufacturing
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
323111	Commercial Printing (except Screen and Books)
323113	Commercial Screen Printing
323117	Books Printing
326111	Plastics Bag and Pouch Manufacturing
326112	Plastics Packaging Film and Sheet (including Laminated) Manufacturing
326113	Unlaminated Plastics Film and Sheet (except Packaging) Manufacturing
326150	Urethane and Other Foam Product (except Polystyrene) Manufacturing
326160	Plastics Bottle Manufacturing
327320	Ready-Mix Concrete Manufacturing
327390	Other Concrete Product Manufacturing
331491	Nonferrous Metal (except Copper and Aluminum) Rolling, Drawing, and Extruding
331492	Secondary Smelting, Refining, and Alloying of Nonferrous Metal (except Copper)

332111	Iron and Steel Forging
332112	Nonferrous Forging
332114	Custom Roll Forming
332117	Powder Metallurgy Part Manufacturing
332119	Metal Crown, Closure, and Other Metal Stamping (except Automotive)
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
332710	Machine Shops
332991	Ball and Roller Bearing Manufacturing
332992	Small Arms Ammunition Manufacturing
332993	Ammunition (except Small Arms) 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
333611	Turbine and Turbine Generator Set Units Manufacturing
333612	Speed Changer, Industrial High-Speed Drive, and Gear Manufacturing
333613	Mechanical Power Transmission Equipment Manufacturing
333618	Other Engine Equipment Manufacturing
334510	Electromedical and Electrotherapeutic Apparatus Manufacturing
334511	Search, Detection, Navigation, Guidance, Aeronautical, and Nautical System an
334512	Automatic Environmental Control Manufacturing for Residential, Commercial, an
334513	Instruments and Related Products Manufacturing for Measuring, Displaying, and
334514	Totalizing Fluid Meter and Counting Device Manufacturing
334515	Instrument Manufacturing for Measuring and Testing Electricity and Electrical
334516	Analytical Laboratory Instrument Manufacturing
334517	Irradiation Apparatus Manufacturing
334519	Other Measuring and Controlling Device Manufacturing
336211	Motor Vehicle Body Manufacturing
336212	Truck Trailer Manufacturing
336213	Motor Home Manufacturing
336214	Travel Trailer and Camper 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

Appendix B

Sources of Amputations: Machinery and Equipment

To be used for guidance - not inclusive

Agricultural, garden machinery, hailers
Aerial lift platforms
Benders, Rollers and Shapers
Cranes (unspecified)
Casting Machinery
Conveyors - Belt, Chain, Live Roller, and Auger Screw Conveyors
Heating and cooking machinery and appliances
Drills - Stationary
Extruding Machinery
Food and Beverage Processing
Grinders, Abraders, and Meat Grinders
Material and personnel handling machinery
Metal, woodworking, and special material machinery
Milling Machines
Mowing machinery
Mixers, Blenders, Whippers, Slicers, and Food Beverage Processing Equipment 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)

Appendix C

Related ANSI / ASME Standards

OSHA recognizes the value of national consensus standards in terms of useful guidance for employers and employees attempting to comply with specific OSHA standards. OSHA's enforcement policy provides that a violation may be *de minimis* if an employer complies with a proposed standard or amendment or a consensus standard rather than with the standard in effect at the time of the inspection, and the employer's action clearly provides equal or greater employee protection. See OSHA Instruction CPL 02-00-150, Field Operations Manual, Chapter VIII, Paragraph A (1) through A (4), April 22, 2011. In applying this principle, OSHA takes heed of its rulemaking findings.

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 B15.1
34. ASME BL5.1B- 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 - Roller Conveyors - Non-Powered
39. ASME/CEMA 402- Unit Handling Conveyors - Belt Conveyors
40. ASME/CEMA 403- Unit Handling Conveyors - Belt Driven Live Roller Conveyors
41. ASME/CEMA 404- Unit Handling Conveyors - Chain Driven Live Roller Conveyors
42. ASME/CEMA 405- Packaging Handling Conveyors - Slant Conveyors

NOTE: This appendix is not an inclusive list of all ANSI and ASME standards that are associated with hazardous machinery and equipment.