

Section 15

Control of Hazardous Energy (Lockout/Tagout)

15.1 Scope

This section establishes requirements for safely controlling hazardous energy, commonly known as “lockout/tagout,” during operations involving Bureau of Reclamation (Reclamation) employees working at Reclamation-owned, -controlled, or -occupied facilities and construction sites. This section applies to all sources of hazardous energy. For additional guidance on working safely with electrical energy, see Reclamation Safety and Health Standard (RSHS) Section 12, *Electrical Safety Requirements*.

15.2 General Requirements

15.2.1 Occupational Safety and Health Administration (OSHA) Regulations.

This section is intended to meet the hazardous energy control requirements of 29 CFR 1910.147, *The control of hazardous energy (lockout tagout)*, 29 CFR 1910.269, *Electric power generation, transmission, and distribution*, 29 CFR 1910.333, *Selection and use of work practices*, 29 CFR 1926.417, *Lockout and tagging of circuits*, and 29 CFR 1926.961, *Deenergizing lines and equipment for employee protection*.

15.2.2 Reclamation Operations.

All Reclamation-owned, -controlled, or -occupied facilities and construction sites shall implement Facilities Instructions, Standards, and Techniques (FIST) Volume 1-1, *Hazardous Energy Control Program*.

15.2.3 Construction Contractor Operations.

All construction contractor operations at Reclamation-owned, -controlled, or -occupied facilities and construction sites shall follow the requirements of FIST Volume 1-1, 29 CFR 1926.417, and 29 CFR 1926.961.

15.3 Responsibilities

15.3.1 Area Office Manager

15.3.1.1 Shall implement FIST Volume 1-1 at all facilities and construction sites.

15.3.1.2 Shall develop a facility hazardous energy control program (F-HECP) as required by FIST Volume 1-1 at all facilities and construction sites.

15.3.2 Project Manager/Acquisitions

- 15.3.2.1** Shall include statements in all applicable project specifications, solicitation packages, and contracts for the contractor to follow the requirements of FIST Volume 1-1 and applicable F-HECP.

15.4 Definitions

Hazardous Energy Any energy source that may cause injury or death. Any energy, including mechanical (e.g., power transmission apparatus, counterbalances, springs, pressure, gravity), pneumatic, hydraulic, electrical, chemical, nuclear, and thermal (e.g., high or low temperature) energy that could cause injury to employees. Danger is only present when energy may be released in quantities or at rates that could injure employees. Hazardous chemical energy, for the purposes of this standard, includes chemicals (e.g., flammable and combustible liquids, flammable gases, acids, and alkaline chemicals) that may thermally produce burn injury through high or low temperature, or are sufficient enough to displace oxygen and incapacitate employees. (Reference FIST Volume 1-1)

15.5 References

- Bureau of Reclamation. Facilities Instructions, Standards, and Techniques Volume 1-1, *Hazardous Energy Control Program*. https://www.usbr.gov/power/data/fist/fist1_1/FIST1-1.pdf.
- Occupational Safety and Health Administration. 29 CFR 1910 Subpart J General Environmental Controls 1910.147, *The control of hazardous energy (lockout tagout)*. <https://www.osha.gov/laws-regs/regulations/standardnumber/1910/1910.147>
- Occupational Safety and Health Administration. 29 CFR 1910 Subpart R Special Industries 1910.269, *Electric power generation, transmission, and distribution*. <https://www.osha.gov/laws-regs/regulations/standardnumber/1910/1910.269>
- Occupational Safety and Health Administration. 29 CFR 1910 Subpart S Electrical 1910.333, *Selection and use of work practices*. <https://www.osha.gov/laws-regs/regulations/standardnumber/1910/1910.333>
- Occupational Safety and Health Administration. 29 CFR 1926 Subpart K Electrical 1926.417, *Lockout and tagging of circuits*. <https://www.osha.gov/laws-regs/regulations/standardnumber/1926/1926.417>
- Occupational Safety and Health Administration. 29 CFR 1926 Subpart V Electric Power Transmission and Distribution 1926.961, *Deenergizing lines and equipment for employee protection*. <https://www.osha.gov/laws-regs/regulations/standardnumber/1926/1926.961>