



Compliance Standards

Ensuring Safety in Industrial Operations

Arc Guard™ is engineered to align with the safety standards that govern welding, hot work, and industrial operations. Each section below cites an applicable regulation or consensus standard and explains how Arc Guard™ helps satisfy it.

1 OSHA 1910.254(b)(4)(ii)

Welding terminal protection

THE STANDARD

"Terminals for welding leads shall be protected from accidental contact by personnel or metal objects."

HOW ARC GUARD™ ADDRESSES IT

Arc Guard™ addresses this with its spring-assisted cap that closes off the end of the energized connector, eliminating accidental contact at the terminal.

2 OSHA Section 5(a)(1) — General Duty Clause

Workplaces free from recognized hazards

THE STANDARD

"Each employer shall furnish to each of his employees employment and a place of employment which are free from recognized hazards that are causing or are likely to cause death or serious physical harm to his employees."

HOW ARC GUARD™ ADDRESSES IT

Arc Guard™ addresses and mitigates multiple recognized hazards at once — hazards that could lead to significant injury, equipment damage, or a catastrophic event around flammable materials and hydrocarbons.



3 OSHA 1910.132(h)(1) & 1926.759

Falling object protection

THE STANDARD

"All materials, equipment, and tools, which are not in use while aloft, shall be secured against accidental falling."

HOW ARC GUARD™ ADDRESSES IT

A cable connector that can vibrate loose and fall is "material or equipment." By providing a positive locking mechanism, Arc Guard™ ensures the connection is permanently secured — unlike tape, which is subject to adhesive failure from heat or UV exposure.

4 OSHA 1910.39 — Fire Prevention Plans

Proper control of ignition sources

THE STANDARD

Requires employers to identify "potential ignition sources and their proper control."

HOW ARC GUARD™ ADDRESSES IT

Arc Guard™ acts as the "Proper Control" required by OSHA. Using the device is a proactive measure in a documented Fire Prevention Plan (FPP) to mitigate the risk of an electrical arc starting a fire.

5 NFPA 70E — Arc Flash Safety

Equipment maintenance & ground-fault prevention

THE STANDARD

Focuses on the requirement to maintain electrical equipment in a manner that prevents arc flash hazards caused by failure of insulation or connections (prevention of unintended ground faults).

HOW ARC GUARD™ ADDRESSES IT

Arc Guard™ maintains the integrity of the connector interface, preventing the insulation and connection failures that lead to unintended ground faults and arc-flash events.



6 NFPA 70E (Article 110.1) — Risk Assessment

Hierarchy of risk control

THE STANDARD

Requires a risk assessment to identify hazards. If a cable connector comes apart, it creates two hazards: an electrical arc flash (a potential ignition source) and a mechanical falling object. NFPA 70E promotes the "Hierarchy of Risk Control Methods."

HOW ARC GUARD™ ADDRESSES IT

Arc Guard™ is an Engineering Control, which is ranked higher — and is more effective — than Administrative Controls such as a rule telling workers to tape cables.

7 NFPA 51B — Fire Prevention During Hot Work

Welding, cutting & other hot work

THE STANDARD

Requires that "all electrical equipment be in good working order" and that "cables be protected from damage."

HOW ARC GUARD™ ADDRESSES IT

An arc caused by a loose connector contacting a structure is essentially an unauthorized "Hot Work" event. Arc Guard™ prevents this accidental arc, removing the need for the extreme fire-watch precautions that would otherwise be required for a spark-producing environment.

8 ASME Section VIII

Stray arc burn prevention

THE STANDARD

Mandates the repair or rejection of any base metal affected by stray arc burns.

HOW ARC GUARD™ ADDRESSES IT

Arc Guard™ prevents the likelihood of an energized connector contacting metal through its spring-assisted cap and locking mechanism, ensuring full engagement and conductivity. This reduces repair time and cost.



9 ANSI/ISEA 121-2018

American National Standard for Dropped Object Prevention

THE STANDARD

Emphasizes that secondary retention must be purpose-built for the environment in which it is used.

HOW ARC GUARD™ ADDRESSES IT

Arc Guard™ is a purpose-built secondary retention device. It proves that "doing nothing" or "using tape" is an unrated, non-compliant method for securing components in high-elevation or industrial work zones.

Want Arc Guard™ deployed across your sites? Contact info@arcguardinc.com, call (225) 255-2447, or visit arcguardinc.com.

This document summarizes how Arc Guard™ helps support compliance with the cited OSHA, NFPA, ASME, and ANSI/ISEA standards. It is provided for informational purposes and does not replace site-specific hazard analysis, applicable PPE, or jurisdiction-specific regulations. Citations reflect current published provisions and may change — always verify against the most recent standards and consult qualified safety personnel. Source: arcguardinc.com/compliance-standards.