ANSI/ASSP A10.7 - 2018

Safety and Health Requirements for Construction and Demolition Use, Storage, Handling and Site Movement of Commercial Explosives and Blasting Agents

AMERICAN SOCIETY OF SAFETY PROFESSIONALS

Approved American National Standard
ANSI

ANSI®
ANSI/ASSP A10.7 – 2018

American National Standard
Construction and Demolition Operations

Safety and Health Requirements for Construction and Demolition Use, Storage, Handling and Site Movement of Commercial Explosives and Blasting Agents

Secretariat

American Society of Safety Professionals
520 N. Northwest Highway
Park Ridge, Illinois 60068

Approved July 25, 2018

American National Standards Institute

American National Standard

Approval of an American National Standard requires verification by ANSI that the requirements for due process, consensus and other criteria for approval have been met by the standards developer. Consensus is established when, in the judgment of the ANSI Board of Standards Review, substantial agreement has been reached by directly and materially affected interests. Substantial agreement means much more than a simple majority, but not necessarily unanimity. Consensus requires that all views and objections be considered, and that a concerted effort be made toward their resolution. The use of American National Standards is completely voluntary; their existence does not in any respect preclude anyone, whether they have approved the standards or not, from manufacturing, marketing, purchasing or using products, processes, or procedures not conforming to the standards. The American National Standards Institute does not develop standards and will in no circumstance give an interpretation of any American National Standard. Moreover, no person shall have the right or authority to issue an interpretation of an American National Standard in the name of the American National Standards Institute. Requests for interpretation should be addressed to the secretariat or sponsor whose name appears on the title page of this standard.

Caution Notice: This American National Standard may be revised or withdrawn at any time. The procedures of the American National Standards Institute require that action be taken periodically to reaffirm, revise or withdraw this standard. Purchasers of American National Standards may receive current information on all standards by calling or writing the American National Standards Institute.

Published September 2018 by

American Society of Safety Professionals
520 N. Northwest Highway
Park Ridge, IL 60068
(847) 699-2929 • www.assp.org

Printed in the United States of America

Foreword (This Foreword is not a part of American National Standard A10.7-2018.)

This standard is one of a series of safety standards that have been formulated by the Accredited Standards Committee on Safety in Construction and Demolition Operations, A10. It is expected that the standards in the A10 series will find a major application in industry, serving as a guide to contractors, labor and equipment manufacturers. For the convenience of users, a list of existing and proposed standards in the A10 series for Safety Requirements in Construction and Demolition Operations follows.

A10.1 Pre-Project & Pre-Task Safety & Health Planning
A10.2 Safety, Health and Environmental Training (under development)
A10.3 Powder-Actuated Fastening Systems
A10.4 Personnel Hoists and Employee Elevators
A10.5 Material Hoists
A10.6 Demolition Operations
A10.7 Use, Storage, Handling and Site Movement of Commercial Explosives and Blasting Agents
A10.8 Scaffolding
A10.9 Concrete and Masonry Construction
A10.10 Temporary and Portable Space Heating Devices
A10.11 Personnel Nets
A10.12 Excavation
A10.13 Steel Erection
A10.15 Dredging
A10.16 Tunnels, Shafts and Caissons
A10.17 Safe Operating Practices for Hot Mix Asphalt (HMA) Construction
A10.18 Temporary Roof and Floor Holes, Wall Openings, Stairways and Other Unprotected Edges
A10.19 Pile Installation and Extraction Operations
A10.20 Ceramic Tile, Terrazzo, and Marble Work
A10.21 Safe Construction and Demolition of Wind Generation/Turbine Facilities (under development)
A10.22 Rope-Guided and Non-Guided Workers' Hoists
A10.23 Safety Requirements for the Installation of Drilled Shafts
A10.24 Roofing – Safety Requirements for Low-Sloped Roofs
A10.25 Sanitation in Construction
A10.26 Emergency Procedures for Construction Sites
A10.27 Hot Mix Asphalt Facilities
A10.28 Work Platforms Suspended from Cranes or Derricks
A10.29 Aerial Platforms in Construction (under development)
A10.31 Digger-Derricks
A10.32 Personal Fall Protection Used in Construction and Demolition Operations
A10.33 Safety and Health Program Requirements for Multi-Employer Projects
A10.34 Public Protection
A10.37 Debris Nets
A10.38 Basic Elements of a Program to Provide a Safe and Healthful Work Environment
A10.39 Construction Safety and Health Audit Program
A10.40 Reduction of Musculoskeletal Problems in Construction
A10.42 Rigging Qualifications and Responsibilities in the Construction Industry
A10.43 Confined Spaces in Construction and Demolition Operations
A10.44 Lockout/Tagout in Construction
A10.46 Hearing Loss Prevention
A10.47 Highway Construction Safety
A10.48 Communication Structures
A10.49 Control of Health Hazards

One purpose of these standards is to serve as guides to governmental authorities having jurisdiction over subjects within the scope of the A10 Committee standards. If these standards are adopted for governmental use, the reference of other national codes or standards in individual volumes may be changed to refer to the corresponding regulations.

Normative Requirements

This standard uses the single column format common to many international standards. The normative requirements appear aligned to the left margin. To meet the requirements of this standard, machinery, equipment and process suppliers and users must conform to these normative requirements. These requirements typically use the verb “shall.”

> *NOTE: The informative or explanatory notes in this standard appear indented, in italics, in a reduced font size, which is an effort to provide a visual signal to the reader that this is informative note, not normative text, and is not to be considered part of the requirements of this standard; this text is advisory in nature only. The suppliers and users are not required to conform to the informative note. The informative note is presented in this manner in an attempt to enhance readability and to provide explanation or guidance to the sections they follow.*

Revisions: The A10 Committee welcomes proposals for revisions to this standard. Revisions are made to the standard periodically (usually five years from the date of the standard) to incorporate changes that appear necessary or desirable, as demonstrated by experience gained from the application of the standard. Proposals should be as specific as possible, citing the relevant section number(s), the proposed wording and the reason for the proposal. Pertinent documentation would enable the A10 Committee to process the changes in a more-timely manner.

Interpretations: Upon a request in writing to the Secretariat, the A10 Committee will render an interpretation of any requirement of the standard. The request for interpretation should be clear, citing the relevant section number(s) and phrased as a request for a clarification of a specific requirement. Oral interpretations are not provided.

No one but the A10 Committee (through the A10 Secretariat) is authorized to provide any interpretation of this standard.

Approval: Neither the A10 Committee nor American National Standards Institute (ANSI) approves, certifies, rates or endorses any item, construction, proprietary device or activity.

Appendices: Appendices are included in most standards to provide the user with additional information related to the subject of the standard. Appendices are not part of the approved standard.

Checklists: Checklists included in A10 standards may be copied and used in non-commercial settings only.

Committee Meetings: The A10 Committee meets twice per year. Persons wishing to attend a meeting should contact the Secretariat for information.

Standard Approval: This standard was processed and approved for submittal to ANSI by the American National Standards Committee on Safety in Construction and Demolition Operations, A10. Approval of the standard does not necessarily imply (nor is it required) that all Committee members voted for its approval. At the time ANSI approved this standard, the A10 Committee had the following members:

Richard King, CSP, Chair
Steven Rank, Vice Chair
Timothy R. Fisher, CSP, CHMM, ARM, CPEA, Secretary
Lauren Bauerschmidt, MS Engr, CSP, Assistant Secretary
Jennie Dalesandro, Administrative Technical Support

Organization Represented	Name of Representative
3M	Raymond A. Mann Mike Boraas
Accident Prevention Corporation	Frank Burg, CSP, P.E. Terry Krug, CSP, CIH
AGC of America	Michael McCaffrey Kevin Cannon
American Insurance Services Group	Thad Nosal James G. Borchardt, CSP, CPE, CPSM, CRIS
American Society of Civil Engineers	John O'Connor, P.E. Harlan Fair, P.E.
American Society of Safety Professionals	Ken Shorter, CSP, ARM, TCDS A. David Brayton, CSP, CPC
American Wind Energy Association	Christopher Daniels Michele Myers Mihelic
American Work Platform Training Inc. APT Research, Inc. Associated Builders and Contractors, Inc.	Dennis W. Eckstine Saralyn Dwyer Stephen Wiltshire, MSc Greg Sizemore
A-Z Safety Resources, Inc. Barton Malow Company	Jane F. Williams, CPEA, CCA Jeffrey Oliver, CSP, CHST Mark Haggenmaker
Black & Veatch	Richard F. King, CSP John H. Johnson, CSP
Building & Construction Trades Department	Chris Cain, CIH Gary Gustafson
Century Elevators	Paula Manning Eric Schmidt, P.E.
Clark Construction Group Cole-Preferred Safety Consulting, Inc. Construction & Realty Safety Group, Inc.	Kurt Dunmire, CSP, CHST Barry Cole Ron Lattanzio Frank Marino
CPWR – The Center for Construction Research & Training Edison Electric Institute	Bruce Lippy, Ph.D., CIH, CSP Babak Memarian, Ph.D. Jonathan Kerns Adam Frederick
Elevator Industry Work Preservation Fund	Michael D. Morand James Demmel
Ellis Fall Safety Solutions, LLC	J. Nigel Ellis, Ph.D., P.E., CSP, CPE John T. Whitty, P.E.
Engineering Systems, Inc.	David Ahearn, P.E. Edward J. Tuczak, P.E.
Fluor Corporation	Michael Weatherred, CSP Jim Bates, CSP
Gilbane Building Co.	Robert Hinderliter, ASP Thomas Trauger, CSP, ARM, CRIS
Richard D. Hislop	Richard Hislop Shawn Bradfield

Independent Electrical Contractors, Inc.	Paul Dolenc Jerry Rivera
Innovative Safety, LLC	Daniel M. Paine Barbara Paine
Institute of Makers of Explosives	Joshua Hoffman Susan JP Flanagan
International Association of Bridge, Structural, Ornamental and Reinforcing Iron Workers	Steven Rank
International Association of Heat & Frost Insulators & Allied Workers	Tim Keane
International Brotherhood of Boilermakers	Mark Garrett Bridget Connors
International Brotherhood of Electrical Workers	David Mullen Dan Gardner
International Brotherhood of Teamsters	LaMont Byrd, CIH Asher Tobin
International Safety Equipment Association	Cristine Fargo
International Union of Bricklayers & Allied Craftworkers	Michael Kassman, CHST Gerard Scarano
International Union of Operating Engineers	Christopher Treml Barbara McCabe
IUPAT	Kenneth Seal
Kiewit Power Constructors Co.	Rusty Brown, CSP Dave Hinz
Laborers' International Union of North America	Walter A. Jones, MS, CIH Travis Parsons
Lamar Advertising	Chuck Wigger, CSP Beth Phelps
Lendlease Corporation	Joel Pickering, CET, CHMM Michael Lentz
Liberty Mutual	Daniel P. Lavoie, CSP, ARM Stan Williams, ARM, CHST
Marsh LLC	Timothy Bergeron, CSP
Maryland Occupational Safety & Health	Mischelle Vanreusel Michael Daughaday
Mechanical Contractors Association of America	Peter Chaney, MS, CSP Dennis Langley
Miller & Long Concrete Construction	Frank Trujillo Alex Rodas, CHST
National Association of Home Builders	Robert Matuga Chelsea Vetick
National Association of Railroad Safety Consultants & Investigators	Lewis Barbe, P.E., CSP, CRSP
National Electrical Contractors Association	Michael J. Johnston Wesley Wheeler
National Institute for Occupational Safety & Health	Thomas G. Bobick, Ph.D., P.E., CSP, CPE G. Scott Earnest, Ph.D., P.E, CSP
National Railroad Construction & Maintenance Association	Jeffrey D. Meddin, CSP, CHEP, CHCM
National Roofing Contractors Association	Harry Dietz Tom Shanahan
National Society of Professional Engineers	E. Ross Curtis, P.E., DFE, F.ASCE, F.NSPE Paul Swanson, P.E.
NESTI, Inc.	Michael Hayslip, P.E., CSP Jack Madeley, P.E., CSP

Operative Plasterers and Cement Masons International Association	Deven Johnson
PATMI	James A. Borchers Craig Pratt
Phoenix Fabricators and Erectors, Inc.	Luke Humphrey Frank Massey
Professional Safety Consultants, Inc.	Jim E. Lapping, MS, P.E., CSP Kathryn Stieler
Safety Environmental Engineering, Inc.	Matthew Murphy
Scaffold & Access Industry Association	Ted Beville DeAnna Martin
Shafer Safety Solutions, LLC	Carmen Shafer, CSP, CHST
Sheet Metal & Air Conditioning Contractors National Association	Mike McCullion, CSP, ARM
SMART Union	Randall Krocka Charles Austin, MS
SPA Incorporated	Stanley Pulz, CSP, P.E.
Stock Enterprises	Steve Stock, P.E., PLS
The Association of Union Constructors	Wayne Creasap, II Kathleen Dobson, CSP, CHST, STS.C
Turner Construction Company	Cindy L. DePrater, ALCM Abdon Friend, CSP
U.S. Army Corps of Engineers	Michelle Brain Steven Washington
U.S. Department of Energy	Terry Meisinger Maurice Haygood
United Association of Plumbers & Pipefitters	Cheryl Ambrose, CHST, OHST Rich Benkowski
United Brotherhood of Carpenters and Joiners of America	William Irwin Dale Shoemaker
United Union of Roofers, Waterproofers & Allied Workers	Richard Tessier Keith J. Vitkovich
West Virginia University Extension Service	Brandon Takacs, CSHM Mark Fullen, Ed.D., CSP
ZBD Constructors, Inc.	Greg Thompson, CSP Jeffrey D. Meddin, CSP, CHEP, CHCM

Independent Experts & Observers:

Alliance of Hazardous Materials Professionals	Carl Heinlein, CSP, ARM, CRIS
Conner Strong & Buckelew	Eric Voight Ken Bogdan
Lockton Companies	Jason Scollin, CSP, ASP, MS, STC-C
National Association of Tower Erectors	John P. Jones Kathryn Stieler
U.S. Department of Labor – OSHA	Dean McKenzie Scott Ketcham
Warfel Construction Company	Jeffrey I. Pierce Kevin Stoltzfus

Subgroup A10.7 had the following members:

Lon Santis, Chair
J. Winston Forde, Vice Chair
Susan JP Flanagan
Mike Koehler
Jerry Wallace

Contents

AMERICAN NATIONAL STANDARD A10.7
SAFETY AND HEALTH REQUIREMENTS FOR CONSTRUCTION AND DEMOLITION USE, STORAGE, HANDLING AND SITE MOVEMENT OF COMMERCIAL EXPLOSIVES AND BLASTING AGENTS

1. Scope and Purpose

1.1 Scope

1.1.1 This standard is applicable to all entities involved in any construction or demolition project that requires the use of commercial explosives and blasting agents.

1.1.2 This standard is intended to work with the other federal, state and local regulations for use of commercial explosives and blasting agents.

1.1.3 The requirements of this standard do not apply to display or consumer pyrotechnics, small-arms ammunition or explosive power packs in the form of explosive-activated or explosive-charged construction devices such as explosive rivets, explosive bolts, explosive charges for driving pins or studs, cartridges for explosive-actuated power tools, and powder-actuated fastening systems.

1.2 Purpose

The purpose of this standard is to provide the construction industry with recommendations for establishing and maintaining a level of safety and health for the off-highway transportation, storage, storage, and use of commercial explosives and blasting agents for construction and demolition.

2. References

2.1 Referenced American National Standards.

The following ANSI/ASSE A10 standards, in addition to others listed at the front of this document, provide guidance for development of safe and healthful operations.

ANSI/ASSP A10.1, *Pre-Project & Pre-Task Safety & Health Planning*

ANSI/ASSP A10.3, *Safety Requirements for Powder-Actuated Fastening Systems*

ANSI/ASSP A10.6, *Safety & Health Program Requirements for Demolition Operations*

ANSI/ASSP A10.8, *Scaffolding Safety Requirements*

ANSI/ASSP A10.12, *Safety Requirements for Excavation*

ANSI/ASSP A10.13, *Safety Requirements for Steel Erection*

ANSI/ASSP A10.15, *Safety Requirements for Dredging*

ANSI/ASSP A10.16, *Safety Requirements for Tunnels, Shafts and Caissons*

ANSI/ASSP A10.19, *Safety Requirements for Pile Installation & Extraction Operations*

ANSI/ASSP A10.23, *Safety Requirements for the Installation of Drilled Shafts*

ANSI/ASSP A10.25, *Sanitation in Construction*

ANSI/ASSP A10.26, *Emergency Procedures for Construction & Demolition Sites*