Maritime Compliance Assistance Tools and eProducts

Ruth McCully, Director
Directorate of Science, Technology and Medicine

Fall 2003
Types of eProducts Developed for the Maritime Industry

- Maritime Section of the OSHA Website
- Maritime-related Safety & Health Topic Pages
- Shipyard Employment eTool
- S & H Injury Prevention Sheets (SHIPS)
- Animated Video of Fatality Cases
- Summary of Longshoring Fatality Cases
- Maritime Targeted CD-ROM
OSHA Website

- Repository of Safety & Health information – Available 24/7.
- Over 4 million visitor sessions per month.
- Repository of OSHA information
  - Offices and Contacts
  - Documents
  - Inspection Data and Statistics

A major section is dedicated to the Maritime Industry.
These pages are part of OSHA’s commitment to provide employers and maritime workers with information and assistance to help in complying with OSHA standards and in ensuring a safe workplace.

- **Maritime Standards and Guidance**: Links to maritime related standards, and to the OSHA Office of Maritime.

- **MACOSH Page**: The Maritime Advisory Committee for Occupational Safety and Health (MACOSH) is a committee which provides additional viewpoints to OSHA on maritime safety issues. This page provides MACOSH contacts, workgroup assignments, meeting minutes, and recommendations.
  - **New** MACOSH Members Selected
  - **New** MACOSH has announced their next meeting will be held on October 15 & 16, 2003, at the Department of Labor Building in Washington, DC.
    - Federal Register Notice
    - OSHA News Release

- **Maritime Enforcement Information**: Links to OSHA compliance information including directives, letters of interpretation, Review Commission decisions, and crane certification, and to the OSHA Office of Maritime Enforcement.

- **Maritime Safety and Health Topics**: Provides access to maritime publications and training materials, as well as web pages addressing specific maritime topics.
  - The Longshore Industry Green Book is now available. For a paper copy, please contact the Publications Office.
  - Safety and Health Injury Prevention Sheets (SHIPS). Directorate of Science, Technology, and Medicine (2002, October) 33 pages, 7.3 MB PDF. Shipyard operating in the United States often do not have the benefit of full-time, on-board safety and health specialists. To meet this need and help prevent...
injuries, the shipyard community and OSHA have jointly developed Safety and Health Injury Prevention Sheets (SHIPS).

- **Shipyard Employment: Ship Repair** - Shipyard work has traditionally been hazardous, with an injury-accident rate more than twice that of construction and general industry. OSHA has targeted the industry in its Strategic Plan to reduce injuries and illnesses and prevent fatalities. This eTool addresses the entire 1915 regulation as it pertains to Ship Repair which includes activities such as altering, converting, installing, cleaning, painting, and maintaining vessels.

### Maritime Alliances and Partnerships

#### National Alliances

- **American Shipbuilding Association** signed July 15, 2003.

#### Regional Alliances

- **Region I - Braintree Area Office**
  - **US Coast Guard** signed April 14, 2003. (Alliance is also with Providence Area Office)

- **Region IV - Jackson Area Office**
  - **Northrop Grumman Ship Systems and its Unions** signed May 9, 2003. (Alliance is also with Baton Rouge Area Office)

- **Region VI - Baton Rouge Area Office**
  - **Northrop Grumman Ship Systems and its Unions** signed May 9, 2003. (Alliance is also with Jackson Area Office)

- **Region XI**
  - **Hawaii Occupational Safety & Health Division, Occupational Safety & Health Administration, Educational Institutions and the Primary Business, Safety & Health, and Government Organizations in Hawaii** signed November 25, 2002.

- **Region X**
  - **Shipbuilders Council of America** signed October 22, 2002.

#### Strategic Partnerships

- **Region III**
  - **Metro Machine Company/International Brotherhood of Boilermakers/Delaware County Community College - Philadelphia Ship Disposal**
  - **Baltimore Marine Industries/Industrial Union of Marine and Shipbuilding Workers of America (IUMSWA)/International Association of Machinists and Aerospace Workers (IAMAW) - Baltimore Ship Disposal**
South Tidewater Association of Ship Repairers (STASR)
Region VI
Shipbuilders Council of America (SCA)
Region IX
Port of San Diego Ship Repair Association (PSDSRA)

Voluntary Protection Program
For a listing of VPP sites, see the Voluntary Protection Program website.

Revised: 30 September 2003
THANKS TO OUR CONTRIBUTORS

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Tom Savage, Raleigh Area Office; Raleigh, NC
Safety and Health Topic Pages

• Web pages of reference-links on a specific S&H topic, such as asbestos, scaffolding, and respiratory protection.

• Links to various sources, including government agencies, academia, and trade associations.

  – Includes links to OSHA standards, directives, publications, and training materials

• Editorial boards help keep pages up-to-date.

• Over 150 technical topics available.

  Safety and Health Topics are located on the Web at: http://www.osha.gov/SLTC/index.html
October 16, 2003

Technical Links

to Safety and Health Topics

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http://www.osha.gov/SLTC/index.html
Construction: Confined Spaces
Construction: Crane, Derrick, and Hoist Safety
Construction: Demolition
Construction: Electrical
Construction: Fall Protection
Construction: Fire Safety
Construction: Hand and Power Tools
Construction: Heat Stress
Construction: Laser Hazards
Construction: Lead
Construction: Motor Vehicle Safety
Construction: Noise and Hearing Conservation
Construction: Personal Protective Equipment (PPE)
Construction: Power Transmission and Distribution
Construction: Scaffolding
Construction: Silica
Construction: Trenching and Excavation
Construction: Walking/Working Surfaces
Construction: Welding, Cutting, and Brazing
Control of Hazardous Energy (Lockout/Tagout)
Cotton Dust
Crane, Derrick, and Hoist Safety
Crystalline, Silica

D TOP
Demolition
Dentistry
Dermal Exposure
Diesel Exhaust
Direct-Reading Instruments
Directorate of Science, Technology and Medicine (DSTM)
Docket Office
Dry Cleaning

E TOP
ELF Radiation (see Non-Ionizing Radiation)
Electric Power Generation, Transmission, and Distribution Industry
Electrical
Electrical Contractors Industry
Emergency Preparedness and Response Epidemiology, Occupational
Ergonomics
Ethylene Oxide
Eye and Face Protection

F TOP
Fall Protection
Field Federal Safety and Health Councils
Fire Safety
Foodborne Disease
Pressure Vessels
Printing Industry
Process Safety Management (PSM)
Pulp, Paper, and Paperboard Mills

Q TOP
Radiation
Radiation: Ionizing
Radiation: Non-Ionizing
Radiation: Radiological Dispersal Devices (RDD)/ Dirty Bombs
Radiofrequency and Microwave Radiation (see Non-Ionizing Radiation)
Recordkeeping
Reproductive Hazards
Respirator Change-out Schedules
Respiratory Protection
Restaurant Safety for Teen Workers
Robotics

S TOP
Safety and Health Information Bulletins (SHIBs)
Safety and Health References, General
Safety and Health Programs
Salt Lake Technical Center (SLTC)
Sampling and Analysis
Sampling and Analytical Methods
Scaffolding
Sealant, Waterproofing and Restoration Industry (SWRI)
Semiconductors
Ship Building and Repair
Silica, Crystalline
Small Business
Small Business Training
Smallpox
Solvents
Spanish
Spray Operations
Steel Erection
Styrene
Surface Contamination
Synthetic Mineral Fibers

T TOP
Technical Information Bulletins (TIBs)
Teen Workers
Textiles
Toxic Metals
Trenching and Excavation
Trucking Industry
Tuberculosis
Forklifts, Powered Industrial Trucks
Formaldehyde

G TOP
General Safety and Health References
Grain Handling

H TOP
Hand and Power Tools
Hantavirus
Hazard Communication
Hazard Information Bulletins (HIBs)
Hazardous Drugs
Hazardous and Toxic Substances
Hazardous Waste
Health Care Facilities
Health Guidelines, NIOSH/OSHA/DOE
Health Professionals, Occupational
Heat Stress
Heavy Metals, Toxic Metals
Hexavalent Chromium
Highway Work Zones and Signs, Signals, and Barricades
Homeland Security, Emergency Preparedness
and Response

I TOP
Indoor Air Quality
Ionizing Radiation
Isocyanates

J TOP

K TOP

L TOP
Laboratories
Laser Hazards
Laser/Electrosurgery Plume
Latex Allergy
Lead
Lead, Approved Blood Laboratories
Lead Test Kit
Legionnaires' Disease
Lockout/Tagout, Control of Hazardous Energy
Logging

Revised: 06 October 2003
Noise, or unwanted sound, is one of the most pervasive occupational health problems. Approximately 30 million people in the U.S. are occupationally exposed to hazardous noise. About 10 million people have noise-induced hearing loss, nearly all of which were caused by occupational exposures. Fortunately, the incidence of noise-induced hearing loss can be reduced, or often eliminated, through the successful application of engineering controls and hearing conservation programs.

Related Safety and Health Topics

- Construction: Noise and Hearing Conservation

How do I recognize noise and assess the risk it poses?

- Noise-Induced Hearing Loss
  - Medicine (ACOEM) (2000) and occupational noise-induced hearing loss
  - OSHA 3074, Hearing Conservation: A guide to the basic elements of a hearing conservation program that provides a generic, practical approach to hearing conservation
  - Work-Related Hearing Loss (NIOSH), 1 page, A brief introduction to the causes, prevention.

THANKS TO OUR CONTRIBUTORS

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Related Safety and Health Topics

- Construction: Noise and Hearing Conservation

How do I recognize noise and its health effects?

- **Noise-Induced Hearing Loss.** American College of Occupational and Environmental Medicine (ACOEM) (2000). This position statement/guideline describes what occupational noise-induced hearing loss is, its characteristics, and more.
- **OSHA 3074, Hearing Conservation.** OSHA (1995), 14 pages. An informational booklet that provides a generic, non-exhaustive overview of the issue.
- **Work-Related Hearing Loss.** National Institute for Occupational Safety and Health (NIOSH), 1 page. A brief discussion of the issue in terms of magnitude, cost, and prevention.
Electronic Technical Assistance Tools (eTools)

- Easy to use due to familiar Web interface.

- Hyperlinks allow users to choose how much detail they want – entry level to S&H professional.

- Special elements help teach complex ideas, such as photos, animations, video-clips, and self-tests.

Shipyard Employment eTool is located on the web at:
Shipyard work is traditionally hazardous, with an injury-accident rate more than twice that of construction and general industry. OSHA has targeted the industry in its Strategic Plan to reduce injuries and illnesses and prevent fatalities. This eTool describes common hazards and possible solutions for tasks performed during the ship repair process.
Shipyard Employment eTool » Ship Repair

Click on an area for more specific information.
Hot Work Operations » Hot Work in Enclosed Spaces

Hot work in shipyards is often performed in enclosed spaces that may expose workers to hazards. Listed below are the specific safety and health requirements for the majority of hot work operations. (Please see additional requirements for hot work in confined spaces and other locations.)

Specific Safety and Health Requirements

- Hot Work Operations
- Inspection and Tests to Maintain Safe Conditions
- Fall Hazards
- Ventilation Requirements
- Fire Prevention Requirements
- PPE Requirements

Also see: Fire Watch, Rescue Team, Ventilation, Warning Signs and Labels, and Welder.

The Confined/Enclosed Spaces and Other Dangerous Atmospheres module should be reviewed before continuing with this section. Also, this module, outlining the requirements for hot work in Enclosed Spaces, should be reviewed before reviewing the modules regarding hot work requirements for Confined Spaces and Other Locations.
Hot Work Operations

Potential Hazards:

Workers performing hot work or working in spaces adjacent to hot work are exposed to the following risks:

- Fire and explosions caused by flammable or combustible materials or airborne gases, vapors, and particulates
- Toxic gases and metal fumes produced from the hot operations (such as nitrogen oxides, and lead fumes)
- Ultraviolet radiation from electric arcs

Requirements and Example Solutions:

Before beginning hot work, the following tasks must be performed:

- Review the marine chemist certificate and shipyard competent person inspection record. [1915.7 and 1915.14] If hot work permits are available, they should be reviewed.
- Ensure that the hot work surface is free of flammable and combustible materials. [1915.53]
- Maintain good housekeeping conditions. [1915.91 and 1915.52(a)(2)]

- Ensure the availability of adequate fire watch/fire protection equipment. [1915.52]

- Inspect welding and cutting equipment before use [e.g., for arc or gas welding/burning]. [1915.55 and 1015.56]
Animated Videos

• Animations can show situations which can not be captured on video.

• Used to illustrate the hazardous conditions and results of actual serious and fatal accidents.
Summaries of Case Examples

• Longshoring and Marine Terminals: Hazard and Abatement Summaries

• 37 case summaries included in the current document.

Longshoring and Marine Terminals: Hazard and Abatement Summaries are located on the web at:
eProducts Designed for “Hard-Copy” Distribution

• Printer friendly version (Pdf) of eTool modules, such as “Tank Cleaning”.
This eTool is designed to assist industrial hygienists in the assessment of worksites for potential Legionnaires' disease. It provides information on disease recognition, investigation procedures to identify probable water sources, and control strategies. The majority of legionellosis is caused by Legionella pneumophila, and so this eTool will deal exclusively with that organism. Diseases in which other species of Legionella are involved should be dealt with in a similar manner.

**What is Legionnaires' disease?**
- Learn about disease symptoms, transmission, diagnosis, and treatment

**Are the water systems in my workplace a potential source of disease?**
- Source identification and control procedures
- Water sampling guidelines

**How do I determine if my workplace is experiencing an outbreak?**
- Investigation protocol

**What actions are required when an outbreak of Legionnaires' disease has been confirmed?**
- Outbreak response

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*eTools are "stand-alone," interactive, Web-based training tools on occupational safety and health topics. As indicated in the disclaimer, this eTool is not an OSHA standard or regulation, and it creates no legal obligations. Likewise, the eTool does not eliminate or limit any obligations that may be created by the OSH Act or by OSHA standards or regulations.
Legionnaires' Disease

Disease Recognition | Source and Control | Water Sampling Guidelines | Investigation Protocol | Outbreak Response

eTool Home | Scope | FAQs | Viewing/Printing Instructions | Credits

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eProducts Designed for “Hard-Copy” Distribution

• Also, training tools based on the content developed for both an eTool module, and tools designed specifically for downloading and printing; i.e., S.H.I.P.S,

Safety and Health Injury Prevention Sheets are located on the Web at: http://www.osha.gov/dts/maritime/sltc/ships/ships_combined.pdf
What’s Replacing the OSHA CD?

Standard Series:
– General Industry
– Construction
– Maritime
– Healthcare
– Wood Products

Specialty:
– Steel Erection
– Spanish
– Lead
– Ergonomics

These Targeted CD-ROMs replicate the OSHA Website including Safety and Health Topic pages, eTools, and PowerPoint Presentations.
Proposed Maritime eProduct Development for FY’04

Website
- Maintenance of existing maritime-related pages
- Consider: New S&H topic pages

SHIPS
- Enhance/develop content for six new eTool modules
- Package content for distribution as SHIPS.
- Consider: Develop SHIPS for other seven topics.

Animated Videos
- Update initial video
- Develop second video of 8 new case examples
- Consider: Third video of 8 cases from longshoring
Proposed Maritime eProduct Development for FY’04 (cont.)

eTools
- Review and posting of Ship Breaking modules
- Consider: Completion of Ship Building modules
- Consider: Enhancements including “Test Yourself” and illustrated Maritime Glossary (over 900 terms)
- Consider: Section on Support Operations and Shops
- Consider: eTool on Longshoring

Projects selected for FY04 will depend on:
- OSHA budget
- Technical expertise provided by industry
- Priority recommendations from MACOSH and maritime Alliances.