



# American Wind Energy Association Update

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EEI Safety & Health Conference  
April 2008



# What is AWEA?

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- Over 1,100 members & advocates, AWEA is the hub of the wind energy industry.
- **The American Wind Energy Association (AWEA)** promotes wind energy as a clean source of electricity for consumers around the world.
- **AWEA** is a national trade association representing wind power project developers, equipment suppliers, services providers, parts manufacturers, utilities, researchers, and others involved in the wind industry - one of the world's fastest growing energy industries.
- In addition, AWEA represents hundreds of wind energy advocates from around the world.

<http://www.awea.org/>

The screenshot shows the homepage of the American Wind Energy Association (AWEA). At the top, there is a blue header with the text "american wind energy association®" on the left and "Shop | Contact" on the right. Below the header is a large banner image of a wind farm. In the center of the banner is the AWEA logo, which consists of a stylized white wind turbine icon above the text "American Wind Energy Association®". Below the logo is the tagline "wind: powering a cleaner, stronger America". On the left side of the banner, there is a white box with the text "> join us stay up-to-date on everything wind" and navigation arrows below it. Below the banner is a horizontal navigation menu with the following items: Member Center, News, About AWEA, Events, Legislative, Policy, Small Wind, Publications, Resources, and Utility. Below the navigation menu, there are three main content areas. The first area on the left is titled "New!" and features a section for the "Wind Energy Siting Handbook". It includes a small image of the handbook cover and a paragraph of text: "Developed by the AWEA Siting Committee, the **Siting Handbook** provides technical information and useful tools for siting wind energy projects." The middle area is titled "upcoming events" and lists three events: "AWEA Wind Power Project Siting Workshop - (February 14 - 15, 2008)", "AWEA Lobby Day - (March 6, 2008)", and "AWEA and CanWEA Wind & Transmission Workshop - (March 18 - 19, 2008)". Below these is a partially visible event "WINDPOWER 2008 (June 1 - 4, 2008)". The right area is titled "what's new" and features a section for "Careers in Wind JOB BOARD". It includes a small image of a person in a hard hat and a paragraph of text: "The premiere online destination for wind energy jobs". Below this is a link: "Visit the Careers in Wind Job Board". At the bottom left of the page, there is a green button labeled "news highlights".

american wind energy association® Shop | Contact

> join us stay up-to-date on everything wind

American Wind Energy Association®  
wind: powering a cleaner, stronger America

Member Center News About AWEA Events Legislative Policy Small Wind Publications Resources Utility

**New!**

**Wind Energy Siting Handbook**

Developed by the AWEA Siting Committee, the **Siting Handbook** provides technical information and useful tools for siting wind energy projects.

**upcoming events**

**AWEA Wind Power Project Siting Workshop**  
- (February 14 - 15, 2008)

**AWEA Lobby Day**  
- (March 6, 2008)

**AWEA and CanWEA Wind & Transmission Workshop**  
- (March 18 - 19, 2008)

**WINDPOWER 2008**  
(June 1 - 4, 2008)

**what's new**

**Careers in Wind JOB BOARD**  
The premiere online destination for wind energy jobs

**Visit the Careers in Wind Job Board**

news highlights



# AWEA Health & Safety Seminar

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- First annual - November, 2007
- Second annual – Oct/Nov 2008 in Denver.
- AWEA Safety Committee members with EEI connections:
  - Gary LeMoine, PPM Energy
  - Bill Alfera, FPL
  - Carlos Diaz, Midwest Generation

# Great pictures

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# Great pictures



# Issues from Meeting

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- Standards don't address needs.
- Problems with Lockout/Tagout, CPR, Fire Protection.
- NFPA 850, Fire Protection in Generating Plants, being revised to address wind turbines.
- Emergency response



# OSHA letter on Wind Farms and LOTO

U.S. Department of Labor

Occupational Safety and Health Administration  
Washington, D.C. 20210

Reply to the attention of:

DEP/GIE/WRS



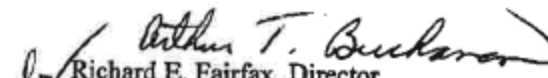
JUN 24 2007

Ms. Sally J. Scott  
Franczek Sullivan, P.C.  
300 South Wacker Drive  
Suite 3400  
Chicago, IL 60606

Dear Ms. Scott:

Thank you for your April 20, 2007, letter to the Occupational Safety and Health Administration's (OSHA's) Directorate of Enforcement Programs (DEP) regarding hazardous energy control (lockout/tagout or LOTO) on wind turbines. This letter constitutes OSHA's interpretation only of the requirements discussed and may not be applicable to any questions not delineated within your original correspondence. Your paraphrased scenario, question, and our reply follow:

Sincerely,

  
Richard E. Fairfax, Director  
Directorate of Enforcement Programs



## Letter:

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- On wind farm...employees perform work requires equipment to be tagged.....climb 200 feet to top....determine if tagout required....climb 200 feet to bottom to do tagout.....Company would like to use procedure that would allow tower employee to climb to top of tower, if tagout is required, radio to employee at base to de-energize/isolate/tag..... Is that acceptable?
- OSHA's Answer: NO.
  - Prohibited by 1910.269. Climb down and put on personal LOTO device or re-design the system to put energy isolating device at top of tower.

# Issues

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- Fitness for Duty for O&M Technicians

- Major ergonomic issues (climbing 80 meter towers; working in cramped spaces).
- PPM Energy requires task analysis by outside medical professionals to establish physical demands.



# Issues

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- Training

- AWEA training subcommittee working on programs for graduates, technicians, certification.

# Construction Issues

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- Significant issues with fall protection, walking and working surfaces, and mobile equipment.
- Dealing with high and low temperature extremes is a challenge.
- Turning over cranes, trucks, and mobile equipment is an issue on the construction sites.
- Temporary/dirt roads are used for equipment access.

# Transportation Issues

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- Transporting parts (blades, towers, nacelles) from the ship/rail to the construction site is a huge challenge.
- Survey the entire route and gather information on width, weight restrictions, turning radius, shoulders.
- GE Energy sends scouts from the port to the site to review all potential routes.
- Roads built on site – need to handle the heavy equipment.



## AWEA Activities

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- Meeting with OSHA February 2008 to discuss CSHO training package developed by OSHA Region 5.
  - OSHA trained region 5 officers. May spread to national officers. Alliance?
- Safety Conference in November, 2008 in Denver.
- Working on AWEA H&S Guidelines.
  - BWEA version available at:
    - <http://www.bwea.org/safety/index.html>



# AWEA Activities

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- Safety Steering Committee
  - Gary LeMoine, PPM
  - Carlos Diaz, Midwest Gen
  - Bill Alfera, FPL
  - Manufacturers
  - GE
  - Etc.



# Contact Information

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