



WATER ENVIRONMENT ASSOCIATION OF TEXAS

Preserving & Enhancing the Water Environment of Texas

WHAT YOU SHOULD KNOW BEFORE PUTTING ON A RESPIRATOR; WHAT TCEQ & OSHA HAVE TO SAY.

DATE August 16, 2017

Presentation Title: *What You Should Know Before Using a Respirator; what TCEQ & OSHA's Has to Say*

Presenter: Joseph Baldwin - President Baldwin EHS Consultants, LLC.

Presenter(s) bio(s): Joseph Baldwin is the President and Senior Consultant for Baldwin EHS Consulting LLC. Joe is a Certified Instructor for OSHA's "Outreach Training Program" and he is also an Authorized Training Provider for TCEQ - #732. Joe is an active member of WEAT and Co-chairs the Safety & Cyber Security Committee. Joe has been in safety for the past 25 years; including 7 years as Corporate Safety Manager at Dannon Yogurt (Fort Worth, TX). Joe currently works as a consultant to several cities and Water Districts in Texas. Joe's well-rounded communication style has contributed to his ability to talk with executives in the board room and work side-by-side with men and women who work with their tools.

Presenter: Dave Milligan, CSP – Health & Safety Manager, North Texas Municipal Water District.

Presenter(s) bio(s): As the Health and Safety Manager for NTMWD, David leads a team of Health and Safety Professionals dedicated to the safety of employees and family members. The health and safety team works closely with the operating divisions and staff to identify and abate hazards in the workplace, and provide efficient risk mitigation strategies.

In addition to his duties with NTMWD, David currently serves as a member of the Z490 Accredited Standards Committee of the American National Standards Institute Z490 Criteria for Accepted Practices in Safety, Health & Environmental Training standard. Prior to joining the North Texas Municipal Water District, David served as the Safety and Occupational Health Manager for the Southwestern Division, U.S. Army Corps of Engineers and is a recipient of the Director of Army Safety's Risk Management Award. David also served as a Safety and Occupational Health Specialist for NASA, Office of Inspectors General, assigned to the Science & Aeronautics Research Directorate of the Office of Audits. Prior to joining NASA, David served as Director of the Texas A&M University Engineering Extension Service's Professional and Regulatory Training Division and as the Director of the OSHA Training Institute's Region VI Southwest Education Center in Mesquite, Texas. David also served as Guest Safety Manager,



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and was later promoted to Manager of Operations Safety for Disneyland Resort, Anaheim, California.

David is a graduate of the U.S. Army Rotary Wing Aviator Course. As a graduate of the Army Aviation Safety Officer course, he was a recipient of the Army Aviation Association of America's James H. McClellan Aviation Safety Award for his professional contributions to aviation safety. David held positions of increasing responsibility as a safety & occupational health management professional, supervising both military and civilian personnel. He served both as an accident investigator and as a safety & occupational health trainer for the Chief of Staff of the Army, and as Chief of Operations while assigned to the U.S. Army Safety Center.

At the invitation of the Assistant Secretary of Labor, OSHA, David served as a U.S. Delegate to the 5th EU-US Joint Conference on Occupational Safety and Health, 2007, Cascais, Portugal. David's other past professional positions include serving as an instructor at the U.S. Army School of Aviation Medicine's Aeromedical Psychology Training Course, as a voting member of the U.S. Army Aeromedical Research Laboratory Institutional Review Board (Human Subject Research), and adjunct faculty member for Embry-Riddle Aeronautical University. David served on both the Steering Committee and the Technical Advisory Committee for the Mary Kay O'Connor Process Safety Center, Texas A&M University.

Presentation Overview/Synopsis: This webinar will provide the audience with the following information:

- 1) Choosing the Correct Respirator
- 2) Medical and Physical conditions and
- 3) Regulatory Requirements.

Additionally, it will review cases where a Respirator could have saved lives.

Area of Interest: Water/Wastewater Industrial Safe Work Practices.

Presentation Questions:

Question: Do Cities and Municipalities fall under OSHA?

Answer: Cities and Municipalities may not fall under direct jurisdiction of OSHA, however the Texas Administrative Code (TAC-30) has adapted by reference the OSHA Respiratory Protection Regulations found in the 29CFR 1910.134.



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Question: What are the basic types of respirators

Answer:

- a. Air-purifying respirator
- b. Supplied-air respirator (SAR) or airline respirator
- c. Self-contained breathing apparatus (SCBA)

Question: Name one of the common hazards that workers face in the Water & Wastewater industry?

Answer: Any of the responses below will suffice:

- a. Oxygen concentration less than 19.5 percent;
- b. flammable gas or vapor at 10 percent or more of the lower flammable limit (LFL);
- c. hydrogen sulfide at or above 10 ppm
- d. or carbon monoxide at or above or 35 ppm, measured as an 8-hour time-weighted average

Question: Name two medical conditions discussed in this presentation that could prevent you from using a respirator.

Answer: Any of the responses below will suffice:

- a. heart conditions
- b. lung disease
- c. psychological conditions like claustrophobia

Question: Name one case presented in this webinar in which the use of respirators could have saved lives.

Answer: Any of the responses below will suffice:

- a. Petal, Mississippi - Wastewater Lift Station
- b. Wichita Falls, Texas – Wastewater Lift Station
- c. Montgomery, Alabama – Sewer Pipe Repair