

Example Topics and Format

Mr. Puskar can customize the content to your business or industries fuels and combustion systems issues.



Fuels & Combustion Systems Safety Minimizing Risks for the Energy Industry

Overview of the day

This is a day to consider the topic of fuels and combustion systems safety. It is meant as a primer for those who are **NOT** immersed in the subject day to day. It provides for everyone an awareness of the types of incidents that have occurred in the industry, the overall consequences, codes and standards that exist to prevent these incidents, and a review of hazards that may exist within the somewhat diverse business units that exist within the company. The idea is to come away with a few ideas that can be considered for minimizing risks within each business unit related to this topic.

The sessions are split into two half day areas of focus: Gas processing and Distribution and Power Generation.

Gas processing and distribution (topics covered)

1. Why this is important

- Things that have happened
- Review of three incidents and root causes

2. The RULES

- Codes and standards, what are they where do they come from?
- What codes and standards apply to us?
- How do I read and interpret these codes and standards?
- What are things that we need to be really focusing on within these codes and standards

3. Focus on NFPA 54 and 56 for gas purging and piping systems commissioning and maintenance.

4. Brief overview of fuel trains and combustion systems safety

- What is a fuel train and how does it function
- Important issues related to API related standards and NFPA 86 for gas processing equipment
- Preventive maintenance and safety related requirements

Power Generation (topics covered)

1. Why this is important

- Things that have happened
- Review of three incidents and root causes

2. The RULES

- Codes and standards, what are they where do they come from?
- What codes and standards apply to us?
- How do I read and interpret these codes and standards?
- What are things that we need to be really focusing on within these codes and standards

3. Focus on NFPA 54 and 56 for gas purging and piping systems commissioning and maintenance.

4. Brief overview of fuel trains and combustion systems safety

- What is a fuel train and how does it function
- Important issues related to NFPA 85 for boilers that we should understand
- Preventive maintenance and safety related requirements

Presented by: John R. Puskar, P.E.

Mr. Puskar is currently the President of Prescient Technical Services in Cleveland, Ohio. His firm provides strategic safety solutions related to flammable gas safety and the prevention of fires and explosions related to piping systems and combustion equipment in the oil and gas industry. Mr. Puskar is a licensed professional engineer in Ohio and 6 other states. Mr. Puskar holds a Bachelor's degree in Mechanical Engineering from Youngstown State University and MBA from the Weatherhead School of Management at Case Western Reserve University in Cleveland, Ohio.



Mr. Puskar is the 2015 National American Society of Mechanical Engineers (ASME) Barnett-Uzgiris medal winner for a lifetime of safety contributions to industry. Mr. Puskar has served on several National Fire Protection Association (NFPA) standards and code committees including 86 (ovens and furnaces), 85 (boilers), 820 (waste water treatment plants), and 56 (flammable gas piping safety). Mr. Puskar has also been a member of API 54 (Oil & Gas Well Drilling Safety) and ASME CSD-1 for boiler safety. Mr. Puskar served as a Senior Energy Systems

Engineer at Standard Oil of Ohio before leaving in 1984 to start the world's largest industrial fuels and combustion equipment safety testing firm in the world in 1984. He later sold the company with 43 employees and worldwide operations in 2011 to Eclipse Combustion. His firm lead the creation of corporate safety programs related to fuels and combustion for Ford Motor Company, General Motors, Alcoa, ConAgra, US Steel, and dozens of others. Mr. Puskar has published and presented more than 50 papers at conferences and in peer reviewed journals.

Mr. Puskar's first book was released in 2014 by John S. Wiley & Sons, "Fuels and Combustion Systems Safety, What You Don't Know Can KILL You".

