

Are you prepared for EPA's Tier 4 Final Regulation?

Join us October 13

PRESENTED BY

CATERPILLAR®

Exploring Tier 4F: Compliance Considerations for Drilling and Frac Operations Workshop

Thursday, October 13 | 1:00 pm to 3:00 pm | Chicago McCormick Place

Full implementation of U.S. EPA's Tier 4 Final regulation is imminent, and the impacts on drilling and pressure pumping operations will be substantial. Operators in the U.S. and Canada will be required to purchase Tier 4F equipment in approximately one year.

Join Caterpillar at the 2016 Natural Gas for High Horsepower Summit to learn how all partners in the supply chain—including E&P companies, drilling contractors, pressure pumping operators, equipment suppliers, engine manufacturers and others—can work together to optimize Tier 4F compliance solutions, mitigate costs, and minimize operational impacts, including:

- Increased concerns about site noise
- Impacts on rig moves and site layouts due to larger equipment size and weight
- Application of additional emission reduction technologies required to meet Tier 4F standards
- Increased complexity for engine operations, and emission control equipment, fuels, and fluid
- Customer preference for Tier 4F engines and the impact on the installed Tier 2 asset base
- Opportunities for activist groups to target companies continuing to use Tier 2 engines
- New considerations for dual-fuel engine deployment
- Potential complications resulting from consistent low engine load
- New performance optimization strategies that may impact cost of ownership on Tier 4F engines

Ensure your operation is prepared for this potential “cliff event.” This workshop will cover the basic parameters and timelines of the rule, and provide operators with information on:

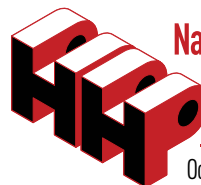
- How to plan for and effectively manage all of the potential impacts
- How natural gas power can provide a more effective and cost-efficient compliance solution
- Common misconceptions around the continued use of Tier 2 engine technologies
- How Tier 4F emissions retrofit requirements will impact equipment already operating in the field
- Mandatory Tier 4F retrofit requirements that are already being put into place in the Marcellus, Bakken and elsewhere via Sustainable Shale Development programs
- The advantages, disadvantages, and overall Tier 4F compliance considerations for the various technology options, including dual-fuel, dedicated spark gas, and retrofit
- The challenges and opportunities in managing noise, power, fuel efficiency, exhaust after-treatment, and fluids/fuel delivery and storage on the well pad

Sign up today to learn how clean-burning, domestic natural gas power can provide a more effective and cost-efficient Tier 4F compliance solution.

REGISTER NOW:

FULL CONFERENCE ➤

WORKSHOP ONLY ➤



Natural Gas for High Horsepower

SUMMIT

October 11-13, 2016 | Chicago – McCormick Place

Add on the workshop for \$50 when registering for the 2016 HHP Summit. Learn more at:

www.hhpsummit.com