

Engines at Oil and Gas Sites

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Overview of Topics

- Other rules in addition to OGS PBR/SP
- Pollutants of concern
- Control technology
- Calculation methodology
- OGS PBR/SP issues specific to engines



Rules

- NSPS/MACT
- 30 TAC Chapter 117



Pollutants of Concern

- NO_x
- SO_2
- Formaldehyde



Control Technology

- Rich burn engines
 - Catalysts and advanced AFR
- Lean burn engines
 - Operating parameter changes/retrofits



Calculation Methodology

- Manufacturer/vendor data
- Site/company sampling data
- AP-42



OGS PBR/SP Engine Issues

- Startup for rich burn engines
- Importance of ratio of NO_2 to total NO_x
- Stringency of PBR/SP



Conclusion

- OGS PBR/SP is not an all inclusive engine rule
- Certain pollutants are scrutinized more
- Only certain options are available for control of engines
- How emissions are determined is important
- There are known issues for certain OGS

