



Air Emissions Testing Accreditation and Certification

Programs and regulations

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What I intend to cover

- ▶ History and other background
- ▶ Available programs
- ▶ Regulatory applications
- ▶ Status of SES QSTI/QSTO program



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Some terminology

▶ Accreditation

- Criteria addressing administrative, quality, and technical systems (e.g., a testing company or laboratory)
- Focus on operations, performance, and competency
- May involve auditing

▶ Certification

- Process to establish minimum qualifications (e.g., for a source testing individual)
- Usually involves performance evaluation and knowledge testing



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History

- ▶ 1974 – Source Evaluation Society formed partly to establish quality criteria for source testers
- ▶ 1990–2000 – EPA and SES draft structure for qualifying individuals
- ▶ 2003 – SES establishes QSTI program with three methods groups exams and volunteer operating committee
- ▶ 2004 – ASTM publishes D7036–04 for air emissions testing bodies



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Programs

- ▶ Air emissions testing bodies
 - Stack Testing Accreditation Council (STAC)
 - Not-for-profit organization
 - For implementing ASTM D7036-04
 - Sources can self-accredit
- ▶ Qualified individuals
 - Source Evaluation Society (SES)
 - Volunteer run, not-for-profit organization
 - Provides approvals for individuals for four methods groups
 - Not aware of any other program



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Regulatory applications

- ▶ EPA – part 75, appendix A revisions
 - Published 12/2010
 - ASTM D7036–04 now applies to AETB's
 - Must have qualified individual on site for CEMS RATA and Hg tests
- ▶ No such plans for NSPS or MACT testing
- ▶ Some states have accreditation programs



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Some Source Evaluation Society QSTI/QSTO Program basics

- ▶ QSTI – Qualified Source Testing Individual
- ▶ QSTO – Qualified Source Testing Observer
- ▶ Qualifications
 - Experience – mirror ASTM D7036–04 standard
 - Pass at least one methods group exam
- ▶ Application process
 - Document experience
 - Describe two projects per methods group
 - Include three letters of reference
- ▶ Guidelines and forms are on SES website



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More SES QSTI/QSTO Program basics

Five emissions measurements groups

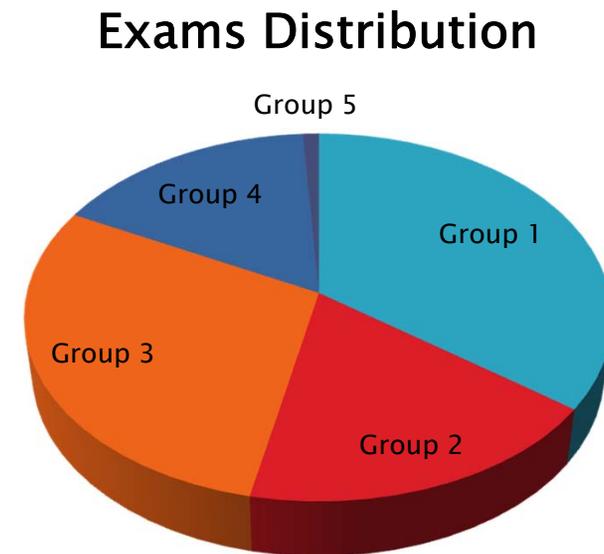
- Group 1 – Isokinetic and flow test methods (2004)
- Group 2 – Wet chemistry gaseous pollutant test methods (2004)
- Group 3– Instrumental gaseous test methods and CEMS performance specifications for both parts 60 and 75 (2005)
- Group 4 – Hazardous metals test methods (2007)
- Group 5 – Part 75 CEMS RA/RATA methods



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Some statistics (through January 2013)

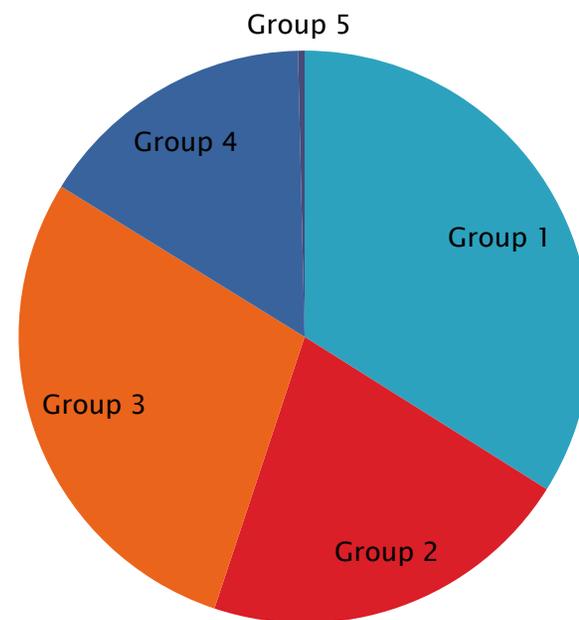
- ▶ >6720 exams administered
- ▶ >1439 individuals have taken one or more exams (some more than once per exam)
- ▶ >3482 exams passed



More Statistics (through January 2013)

- ▶ QSTI approvals
 - >1889 approvals
 - >705 individuals
 - ~228 different organizations
- ▶ QSTO approvals
 - 13 individuals

Methods Group Approvals
Distribution



Questions?

Any QSTIs or QSTOs here?



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