

# Agenda



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Open Questions & Comments

# Significant Changes Between V2.1 and V3.0



- **Qualification Criteria**
  - AFUE level raised for both Gas and Oil Boilers
- **Combined space-heating and water-heating appliances**
  - Metrics - Combined Appliance Annual Fuel Utilization Efficiency (CAafue) metric requirement removed
  - Test Method - CAafue test method is removed
  - Definitions - CAafue definition is removed
- **Rounding and Sampling Requirements**
  - Updated to be consistent with DOE requirements

# Qualification Criteria



## Performance Criteria for ENERGY STAR Certified Boilers

Fuel Type	Annual Fuel Utilization Efficiency (AFUE)
Gas	90%
Oil	87%

- Gas – AFUE for gas boilers raised to condensing level.
- Oil – AFUE for oil boilers raised to near-condensing level.

# Combination Appliances

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- Use of CAafue metric removed
- Accordingly, the test method reference to the CAafue test method is removed
- Combination appliances should be tested for AFUE, using the federal test method, 10 CFR 430 Subpart B, Appendix N

# Rounding Requirements



- Rounding requirements updated to be consistent with DOE requirements
- AFUE shall be rounded to the nearest whole percentage point, as specified in 10 CFR 430.23(n)(2).
  - For example, 95.3% shall be rounded to 95% AFUE and 95.5% shall be rounded to 96% AFUE.

# Sampling Requirements



- Sampling requirements updated to be consistent with DOE requirements
- Units should be selected for testing and results calculated according to the sampling requirements defined in 10 CFR Part 429, Subpart B § 429.18