Survey Objectives **Proposed Field Protocol for Gas Range Carbon Monoxide Emissions Testing** Write Field Protocol for Gas Range Carbon Monoxide Emissions Testing. For the Protocol. Chicago Regional Diagnostics Working Group Range inspection, client education, etc. July 2001 Range top burners. Project Manager Best method for measuring. Tim Lenahan Oven burners. Best method for measuring. Research and Protocol by Rick Karg Allowable burner emission levels. © 2001 R.J. Karg Associates www.karg.com 2 Ral Karg Associate



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roposed Field Protocol for Gas Range Carbon Monoxide Emissions Testing

Laboratory/Chamber Testing Method

Five tests one top burner repeated three times.

• Each test 30 minutes, with 15 minute decay and 15 minute chamber purge.

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 CO, O₂, and CO₂ readings taken at range top burner test device and chamber ambient.











































Oven mitten.

Phase 1: Inspection Range top inspection (pg. 2 of protocol) Oven area inspection (pg. 2-3) Code compliance (pg. 3) Verify gas set up/gas supply match (pg. 3-4) Check flexible connector (pg. 4) Check for gas leaks (pg. 4) Pass/fail, analyst use discretion if problem outside scope of protocol (pg.4)

Proposed Field Protocol for Gas Range Carbon Monoxide Emissions Testing
Phase 1: Client Education
Oven bottom vent hole blockage (pg. 4 of protocol)
Don't use range as space heater (pg. 4)
Install CO alarm in house (pg. 4)
Have range checked & tuned every 2 years (pg. 5)

Use protocol.
Test gas pressure.
Make necessary adjustments.

Keep oven clean at all times (pg. 5)
Client flame awareness (pg. 5)

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Phase 2: Measurement of Emissions

- A. Safety During the Test Period (pg. 5 of protocol)
- B. Emission Testing Equipment (pg. 5)
- C. Preparation for Burner Testing (pg. 6)
- D. Range Top Burner Testing (pg. 6-7)
- E. Oven Bake Burner Testing (pg. 7-8)
- F. Burner or Range Failure (pg. 8-9)
- G. Closure of Test Procedure (pg. 9) Tools Required for Protocol (pg. 9)







































