



# NIST GCR 10-929 Hydrogen Release and Combustion Measurements in a Full Scale Garbage

By U. S. Department Of Commerce

CreateSpace Independent Publishing Platform. Paperback. Condition: New. This item is printed on demand. 54 pages. Dimensions: 11.0in. x 8.5in. x 0.1in.ln compliance with the National Institute of Standards and Technology (NIST) requirements of RFP SB1341-09-RQ-0200, a reinforced concrete block garage system was constructed for the purpose of testing hydrogen dispersion in a garage configured with and without a vehicle. The inside dimensions of the garage were 6.1 m 6.1 m 3.05 m. The front wall and ceiling were stick built to relieve pressure strain and to determine the impact on wood frame construction. The garage was instrumented with hydrogen sensors arrayed on a vertical axis spaced every 0.38 m from the floor to the ceiling except for an additional sensor located at the ignition point 2.59 m above the floor. Thermocouples were arranged in both the vertical and horizontal direction (at the same height as the ignition point spaced every 60 cm) to measure the thermal distribution from each test. Additional instrumentation included two radiometers, two blast pressure probes, and six ion probes. The blast pressure probes and the ion probes were configured for high speed data collection at a scan rate of 10 s...



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