

**INTERMEDIATE-SCALE UNDERGROUND MAGAZINE TESTS:
ANALYSIS OF THERMAL INSTRUMENTATION AND PREDICTION TECHNIQUES**

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A series of decoupled detonations were conducted to evaluate techniques for the measurement and prediction of thermal effects from simulations of accidental detonations in underground magazines. The 1/3-scale underground magazine tests were instrumented to record thermal effects within the detonation and adjacent chambers, and to indicate mass flow effects within the tunnel system. This paper presents the analyses of the experimental data and a comparison with predictions.