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## **AIRBLAST PROPAGATION WITHIN TUNNELS FROM PORTAL DETONATIONS**

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A series of small-scale experiments were conducted to evaluate the effect of burst location, charge size, and number of charges on the airblast and impulse generated inside a long straight tunnel of constant cross-section. Three-dimensional hydrocode calculations were used to analyze and extend the data for development of an engineering model capable of generating pressure time histories at any point in the tunnel. This paper will present the small-scale data, discuss the hydrocode analysis, and describe the development of the engineering model.

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