

INVESTIGATION OF THE PRESSURE WAVE AND NOISE MEASUREMENTS OUTSIDE THE LARGE BLAST SIMULATOR

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This paper describes experiments carried out to measure the shock wave outside the 2.4m diameter shock tube. These measurements are compared to empirical results obtained by D.J.JAMES from the Atomic Weapons Research Establishment.

The good correlation permitted us to predict the over pressures outside the Large Blast Simulator in order to take precautions in the siting of this simulator. Particularly it must be avoided to damage the structures in the vicinity and it was necessary to determine safety distances for the personnel. Overpressure and noise were measured at different locations outside the Large Blast Simulator and the comparison between experimental and empirical results is shown.