

## **A HISTORY OF THE USE OF ANFO FOR NUCLEAR WEAPONS BLAST AND SHOCK SIMULATION**

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The history of ANFO as an explosive for nuclear weapon blast and ground shock simulation is only the years long. This paper presents the trials, tribulations, and triumphs of this history. By citing names, dates, and places, it traces the origin of a concept in 1966 through its development to its ultimate utilization in 1976 when a 628-ton domed cylindrical ANFO charge was fired successfully on Operation DICE THROW. The merits of ANFO over TNT were demonstrated on this test: predictable airblast and ground motion effects, the occurrence of a minimum number of blast perturbations, ease of charge construction, safety in operations, and low cost.