

EXERCISE DISTANT IMAGE - JUNE 1991 LARGE SCALE SYNERGISTIC NUCLEAR SIMULATION TEST ON MILITARY CLOTHING AND EQUIPMENT

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This paper describes the performance of the experimental set-up used to obtain results on military textiles, clothing and other personal equipment exposed to the simulated nuclear blast and thermal effects of a 4 kiloton weapon at Exercise "Distant image", a United States Defense Nuclear Agency sponsored, large scale, high explosive field test conducted at White Sands Missile Range on 20 June 1991. For the first time in this series of large scale synergistic simulation tests, freely reacting, anthropometric manikins were fielded to test the protective properties Of NBC ensembles. This new experimental set-up performed to design expectations. Fire, caused by the thermal pulse, was extinguished by the blast on the free moving manikins as had previously been observed with tethered manikins. No re-ignition occurred on any of the clothing or equipment.