

FUEL AIR BOMB SIMULATION CLOSE TO TUNNEL INLETS

ERIKSSON,S.

The pressure effects of a Fuel Air Bomb is simulated by rupturing a barrel containing propyleneoxyde and the pancake shaped cloud being initiated at the proper time. In a test the cover and the inlets (one vertical and one horizontal) of a modified Swedish troop shelter (SK 10 kupol) have been loaded by charges of this type. As expected the limited pressure (ca 2 Mpa) inside the cloud did not affect the shelter. But it was verified that the relative TNT-equivalence of a charge of this type is depending on the geometry close to the charge. from being over 3 when the fuel is distributed over a flat surface it was reduced to ca 1 when the charge was placed in the ditch justoutside the vertical inlet.