

ATTENUATION OF BLAST WAVES GENERATED BY LARGE BLAST SIMULATORS IN THE FAR FIELD

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Since the construction of our LBS in 1984 it has been a concern to minimize the environmental impact of our testing. Therefore foam has been used quite successfully for the first years. The measurable attenuation effect of foam in the far field is documented in [1].

Due to British investigations on a water spray system (2) we started a campaign of our own in the MBS of the WTD 52. The results of this measure being not totally convincing made us investigate [3] the effect of converging baffles in the end section of a blast simulator(see Fig. 1). The baffle design was inspired by the passive RWE concept, documented in many reports and papers, for example [4,5].

This paper attempts to compare, these methods in their efficiency for far distance effects and the usefulness of pressure time profiles for testing inside the simulator.