The Buncefield accident—why was the explosion so severe.

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Abstract:

In the early morning of December 2005, a vapour cloud explosion occurred at the Buncefield oil depot in Heme UK. The vapour cloud was a result of the spillage of aboUt 300 tonnes of winter- grade gasoline following the ov the storage tanks on the site. The resultant explosion was very severe. Fortunately, there was no fatality but 43 p and there was extensive damage to the oil depot, its immediate surrounding areas and widespread damage up t damages were of order £1 billion. An oil depot, such as the one in Buncefield, had not been considered to have Unlike a refinery, there was little equipment and pipework congestion in an oil depot. There did not appear to b present that could lead to a severe vapour cloud explosion. An initial investigation report stated that the damage consistent with the current understanding of vapour cloud explosions. The Buncefield Major Incident Investigation commissioned the Explosion Mechanism Advisory Group to carry out a review of possible explanations. This w Joint Industry Project (JIP) which examined the evidence in detail and carried out experimental work to fill som gap. The results of Phase 1 of this JIP are published in a report (HSE, 2009a); key conclusions are summarised he examined a range of explosion mechanisms and concluded that the most likely explanation was that a deflagrat the dense vegetation alongThree Cherry Tree Lane. The deflagration progressed to a detonation. Phase 2 of the developed. Its objectives are to verify the deflagration to detonation transition hypothesized in Phase 1, the viab plausible explosion mechanism, and produce data to allow the development of a guidance for the industry to m effectively product overspill, generation of flammable vapour and consequence of explosion. Participation of in world would help Phase 2 to better achieve its objectives.

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