

Title	Review of Explosion Mitigation for Platform Legs	
Publisher/Author	HSE	
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Executive Summary	<p>There have been a number of instances on offshore installations where an accidental release of hydrocarbons has resulted in the accumulation of a flammable atmosphere within one of the legs of the platform. Concerns have arisen that if there was an ignition and explosion within a platform leg, which is essentially a confined volume, there is the potential for an explosion that is powerful enough to cause serious structural damage to the leg and in the worst case scenario the collapse of the platform.</p> <p>In response to these concerns the Offshore Safety Division of HSE have asked HSL for assistance with looking into the problem. As a first step a review has been commissioned with the following objectives:</p> <ul style="list-style-type: none"> <li>• To review the specific explosion hazards associated with a flammable vapour or liquid release into the leg of an offshore platform</li> <li>• To review existing methods of explosion prevention and protection and new methods currently under development, and assess their suitability for employment in platform legs.</li> <li>• To make recommendations on suitable explosion prevention and protection measures for platform legs and for further work that may be required to validate their effectiveness.</li> </ul>	
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