

Title	Development of walkdown procedures and pilot study for the assessment of topsides equipment subject to blast induced vibrations	
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Executive Summary	<p>This report documents a study performed by EQE International for the Health &amp; Safety Executive (HSE) on the assessment of offshore platform topsides equipment for blast induced vibration loading.</p> <p>In this study, a methodology was developed for assessing equipment relying on “walkdown” techniques. The walkdowns are methodical, onsite, visual evaluations of the equipment considering its as-installed condition. A procedure has been produced for this methodology by developing screening criteria for performing the walkdown review.</p> <p>The methodology was then proven by use in a pilot study of a mid 1980’s vintage North Sea platform. Two critical safety related systems with representative mechanical and electrical equipment were selected for demonstration purposes.</p> <p>This report documents the methodology and the pilot study walkdown of the platform. Conclusions are presented which show the feasibility of this method, along with the key points required for its correct implementation, limitations to its use, and potential further applications (e.g. vibrations resulting from ship impact or earthquakes).</p>	
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