

Title	Fire and Explosion Guidance
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Objectives	<p>Objectives</p> <p>The primary objective of this document is to offer guidance on practices and methodologies which can lead to a reduction in risk to life, the environment and the integrity of offshore facilities exposed to fire and explosion hazards.</p> <p>Risk is defined as the likelihood of a specified undesired event occurring within a specified period or resulting from specified circumstances.</p> <p>Preventative measures are the most effective means of minimising the probability of an event and its associated risk. The concepts of Inherently Safer Design or ‘Inherent Safety’ are central to the approach described in this document both for modifications of existing structures and new designs.</p> <p>This document consolidates the R&D effort from 1988 to the present day, integrates fire type and scenario definition, fire loading and response development and provides a rational design approach to be used as a basis for design of new facilities and the assessment of existing installations.</p> <p>This Guidance is intended to assist designers and duty holders during the design of, and in making operational modifications to, offshore installations in order to optimise and prioritise expenditure where it has most safety benefit.</p> <p>An additional intent of this Guidance is to move the decision-making processes within the fire and explosion design field as much as possible towards a ‘Type A’ process from ‘Type B or C’ as defined in UKOOA’s document on decision-making, the key figure of which is illustrated in Figure 1.1 below [1.19].</p> <div style="text-align: center;"> <p>Significance to decision making process</p> <p>←—————→</p> </div> <p style="text-align: center;">Figure 1.1 - The UKOOA Risk Based Decision Making Framework</p> <p>The framework defines the weight given to various factors within the decision making process, ranging from decisions dominated by purely technical matters to those where company and societal values predominate.</p> <p>Design decisions required for a number of installations will lie in Areas A or B of</p>

	<p>the chart resulting in an approach which involves codes and Guidance based on experience and ‘best practice’ as described in this document and supplemented by risk based arguments where required.</p> <p>This Guidance will look to build past experience of the development of fire and explosion scenarios and the prediction of design load cases and their timelines as part of a developing “Type A” approach.</p>
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