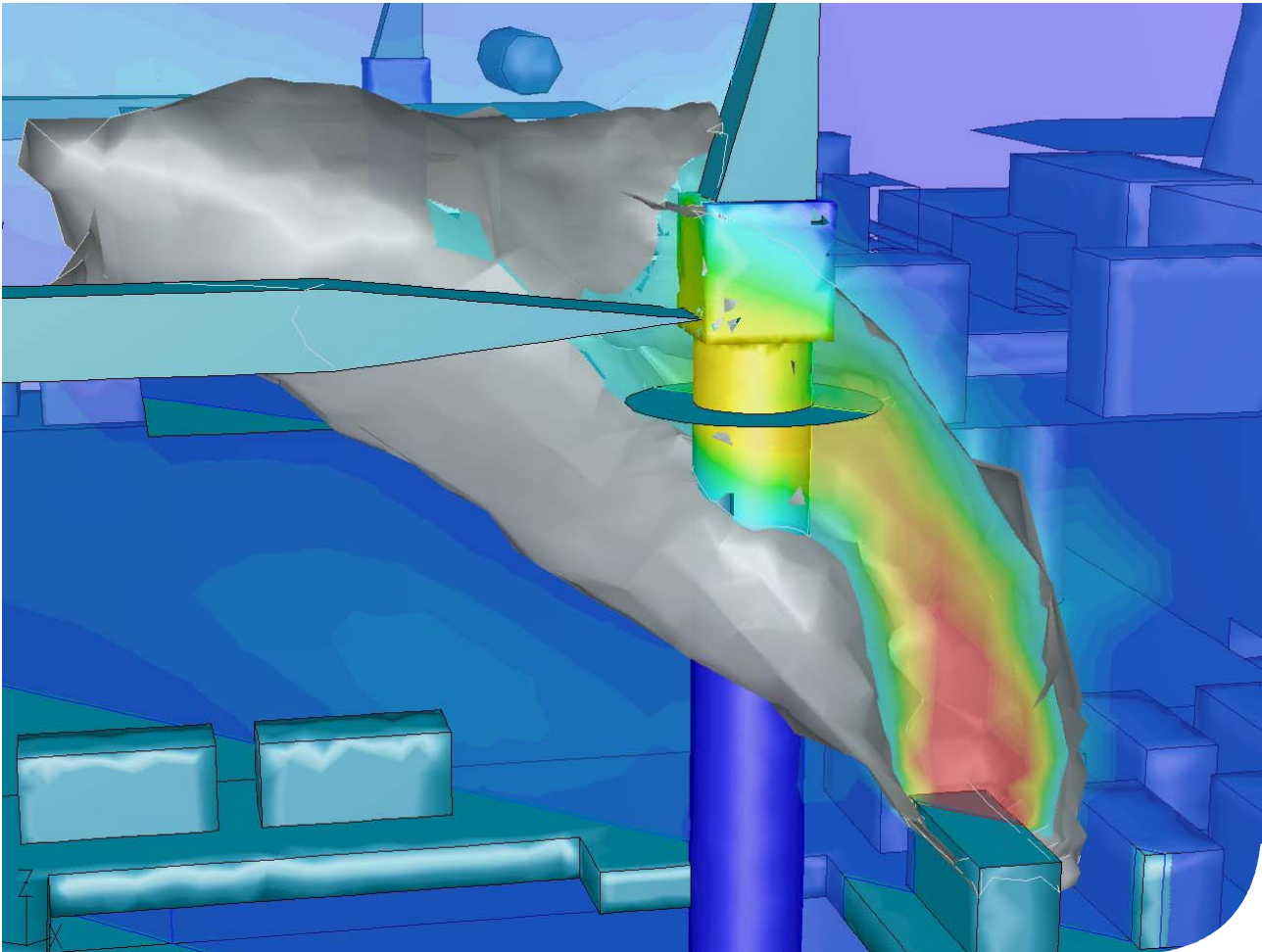


Integrated Fire Action and Structural Response



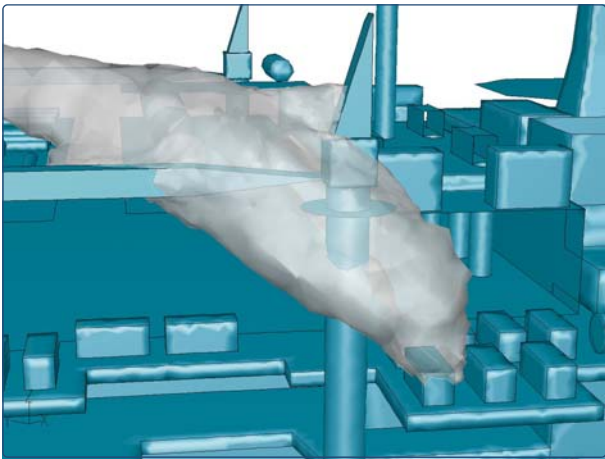
Integrated assessment of fire and structural response is available at FORCE Technology. The work will be performed in one team enhancing efficiency and quality of the multidisciplinary work.

Leakage point and leakage rate give the basis for addressing the heat flow. Multiple contributors drive heat flow from a fire. These are radiation, convection and conduction of heat.

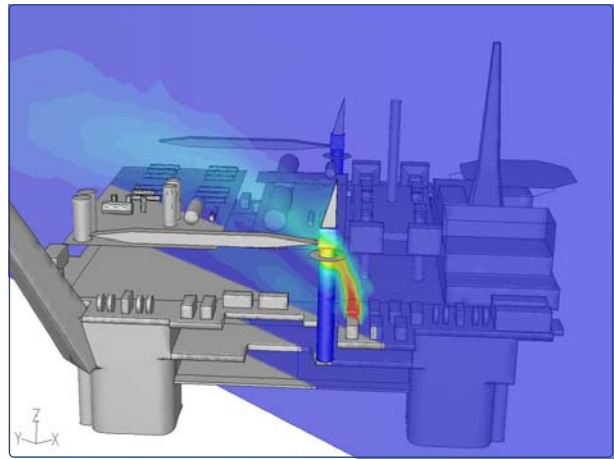
The heat action will then be exposed toward the structure. The fire will typically be highly time transient in behaviour.

The structure is subject to operational condition, that includes environmental action. Static action as a minimum, will then also be exposed to a transient change in temperature. Consequently material properties in most materials will change and the system will degrade through the temperature history.

Progressive degradation may also incur as pipe racks and other equipment may collapse and enhance the fire action.



Gas dispersion



Heat development in fire

Objective

The objective for an assessment toward fire is that the facility should be capable of sustaining fire scenarios that exceed the load exposure corresponding to a specified level of recurrence.

This is based on that the facility should have a defined level of safety with respect to:

- human life
- environment and
- economy.

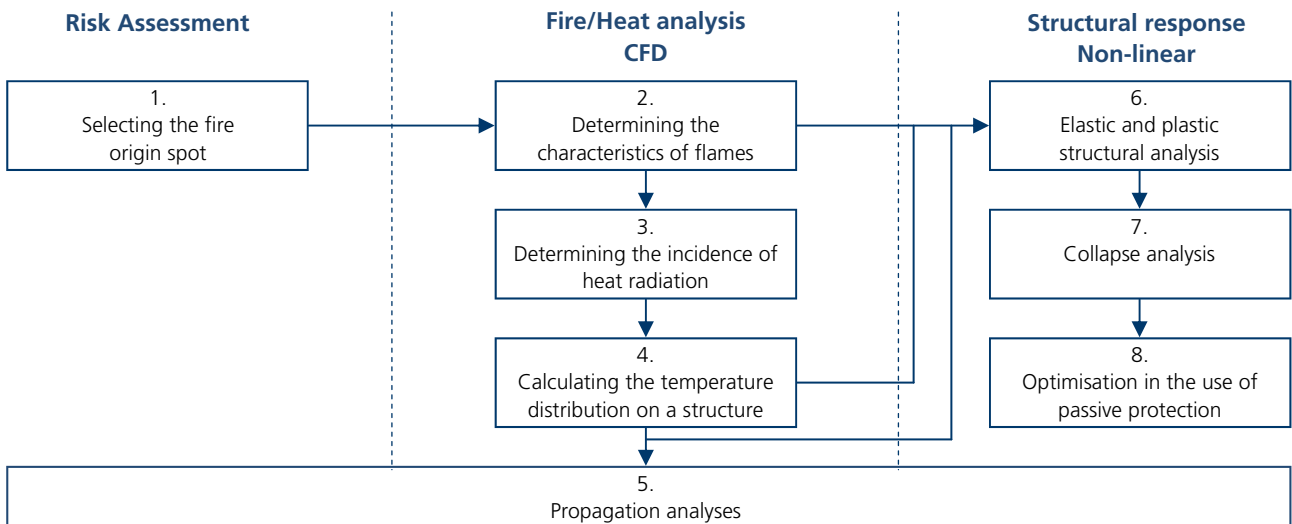
Deliverables

Technical report recommendations.

Options

Animated video of heat flow and structural response
 Reanalysis System for addressing changed conditions from:

- Changed process flow
- Modifications from Tie-ins, Extensions.



Schematic overview of fire assessment on consequence toward design and mitigation

Further information: FORCE Technology Norway AS

Subject to changes without notice

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