

SCENARIOS AND CONSEQUENCES OF EXPLOSIONS IN INDOOR NATURAL GAS LEAKS

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Abstract: Explosions in indoor natural gas leaks pose a serious threat to human life and health as well as infrastructure. The article considers possible scenarios of accidental explosions and possible consequences of explosive transformation in indoor natural gas leaks. An event tree for indoor gas leaks is constructed. Understanding the classification of such explosions by scenarios and consequences plays an important role in the development of effective measures to prevent and minimize damage in accordance with the risk-based approach to explosion safety.

Keywords: indoor natural gas leakage; event tree; types of indoor explosions

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Figure Caption

Event tree for indoor natural gas leaks

Table Caption

Scenarios of emergency processes in indoor

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