### 技术及应用

# 含H<sub>2</sub>S天然气井事故与核电厂址适宜性评价

谭承军;上官志洪;沙向东

苏州热工研究院有限公司, 江苏 苏州 215004

收稿日期 修回日期 网络版发布日期:

摘要 为评价含H2S天然气井潜在事故对其附近核电厂主控室可居留性的可能影响,假定了含H2S天然气井潜在的最大可信事故及其源项,保守选取污染气象条件,利用核电厂主控室可居留性毒性极限浓度阈值来初步评价含H2S天然气井外部人为事件对核电厂安全运行的潜在不利影响。工程实例计算结果表明,这种方法可供核电厂选址阶段外部人为事件初步评价参考。

关键词 <u>含H2S天然气井</u> <u>外部人为事件</u> <u>最大可信事故及源项</u> <u>主控室可居留性</u> <u>毒性极限浓度阈值</u> 分类号

# Accident for Natural Gas Well With Hydrogen Sulfide in Relation to Nuclear Power Plant Siting

TAN Cheng-jun; SHANGGUAN Zhi-hong; SHA Xi ang-dong

Suzhou Nuclear Power Research Institute, Suzhou 215004, China

#### **Abstract**

In order to make assessment to the potential impact from accident of natural gas wells with hy drogen sulfide on the habitability of main control room of nuclear power plant (NPP), several assumptions such as source terms of maximum credible accident, conser vative atmospheric conditions and release characteristics were proposed in the paper, and the impact on the habitability of main control room was evaluated using toxicity thresholds recommended by foreign authority. Case results indicate that the method can provide the reference for the preliminary assessment to external human-induced events during the siting phrase of NPP.

Key wordsnaturalgaswellwithhydrogensulfideexternalhuman-inducedeventsmaximumcredibleaccidentandsourcetermshabitabilityofmaincontrolroomtoxicitythreshold

DOI

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