

## 摘 要

核伦理话题贯穿了人类经济社会发展，关乎人类的切身利益与命运，彰显着人性的善恶与利益追求。伴随人类社会科技、经济和文明的不断进步，核电工程在一次次发展机遇中，也会出现新的伦理问题。对于核工程伦理建设应该保持常态化，将核电伦理体系与责任伦理相联系，不断调整自身理论内容，让核电事业更好地持续健康发展。

2011年3月，日本福岛特大地震海啸引发了福岛第一核电站核泄漏事故，对当地民众以及周边环境带来巨大的威胁，由此引发了国际社会针对未来是否应继续发展核电事业的广泛争议。针对日本福岛核泄漏事故以及全球总体核电工程发展状况，立足科技伦理角度，核电工程的发展应获得支持。当然核电事业的发展并非全然无条件的，而是需要针对核电工程伦理规范做出进一步的优化，并建立起完善的核电工程伦理体系。当前最迫切的就是要明确核电工程建设发展过程当中所需坚持的具有普适性的核伦理原则。在核电工程伦理问题当中所涉及到的各个责任主体，其中包括了日本政府、核电企业（东京电力公司）、核工程师及公众，责任主体确立后，各个责任主体所需承担的伦理责任可以被厘清。据此，本文结合当前各国核电工程实践当中所面临的主要困难问题，分析探讨了核电工程伦理建设所需涵盖的主要主题，提出福岛核事故的伦理问题的治理原则和治理措施，以及对于我国产生的启示，期望核电工程的未来更加安全高效，更好地完成为人类谋福祉的终极目的。

**关键词：**福岛核事故；核电工程；责任伦理；科技伦理；安全伦理

## ABSTRACT

The topic of nuclear ethics runs through the development of human economy and society, concerning the vital interests and destiny of mankind, it reveals the good and evil of human nature and the pursuit of interests. With the continuous progress of human social economic level, cultural level and scientific and technological level, new ethical problems will appear in the development opportunities of nuclear power project. Regarding ethical issues, we should maintain normalization of the ethical construction of nuclear engineering, adapt the ethical system of nuclear power to the ethics of responsibility, and constantly adjust the theoretical content along with the development, so as to make the nuclear power industry develop vigorously and healthily.

At March 2011, the massive earthquake and tsunami in Fukushima, Japan, led to a major nuclear meltdown at the Fukushima Daiichi nuclear power plant, which has triggered an international debate on whether nuclear power should continue to develop and what to do next. By analyzing the Fukushima nuclear leakage accident and the development of nuclear power engineering in the world as a whole, from the point of view of sci-tech ethics, the development of nuclear power engineering is worthy of support. However, this development is not without conditions. The development requires us to improve the ethical norms of nuclear power engineering as soon as possible, and build an ethical system of nuclear power engineering. The first thing to be made clear is that some general nuclear ethical principles should be followed in the construction and development of nuclear power projects, and these principles should have wide applicability. It also points out that all responsible subjects in the ethical issues of nuclear power engineering include the Japanese government, nuclear power enterprises (Tokyo Electric Power Company), nuclear engineers and the public. After the establishment of the responsible subjects, the ethical responsibilities should be gradually clear. On this basis, combined with the existing problems and difficulties in the practice of nuclear power engineering in the world today, the paper discusses some specific topics that should be included in the ethical construction of nuclear power engineering, and tries to give some suggestions.

Through in-depth research on the ethical issues of the Fukushima nuclear accident, a major nuclear accident, this paper analyzes the ethical issues in the accident through the tool

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