

· 航空机组人员职业照射与健康安全管理 ·

韩国航空机组人员职业健康管理及机组人员“辐射工伤”

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【摘要】 随着航空业发展, 机组人员因长期暴露于高空宇宙辐射面临职业健康风险。国际放射防护委员会 (ICRP) 在 2007 年发布的第 103 号出版物中, 正式将航空机组人员纳入辐射暴露职业群体范畴。近年来, 韩国陆续出现多起机组人员因罹患白血病、胃癌等辐射相关性疾病, 成功获得工伤赔偿的案例。为应对这一职业健康挑战, 韩国政府根据 ICRP 标准修订了《生活周边辐射安全管理法》, 专门制定了针对航空机组人员的辐射剂量限值管理规定。系统研究宇宙辐射对机组人员的健康影响, 为优化防护措施、完善行业政策提供科学依据, 对保障从业者职业健康权益有重大意义。

【关键词】 航空机组人员; 宇宙辐射; 职业照射; 辐射防护; 工伤认定

Occupational health management and "radiation-induced occupational injury" for Korean airline crew

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【Abstract】 With the development of the aviation industry, aircrew face occupational health risks due to their long-term exposure to high-altitude cosmic radiation. The International Commission on Radiological Protection (ICRP) officially included aircrew in the category of occupational groups exposed to radiation in its Publication 103 in 2007. In recent years, there have been multiple cases in South Korea where some members of aircrew have successfully obtained work-related injury compensation due to radiation related diseases such as leukemia and stomach cancer. To address this occupational health challenge, the South Korean government has revised the Radiation Safety Management Law for Living Areas based on ICRP recommendations, and specifically formulated regulations for managing radiation dose limits for aircrew. The systematic study of the impact of cosmic radiation on the health of aircrew could provides scientific basis for optimizing protective measures and improving industry policies, which is of great significance for safeguarding the occupational health rights and interests of practitioners.

【Key words】 Aircrew; Cosmic radiation; Occupational exposure; Radiation protection; Occupational disease recognition

2023 年 11 月, 韩国一名航空机组人员因胃癌死亡, 韩国劳动福祉公团与职业病裁定委员会 (COMWEL) 根据其病情与职业工作的因果关联分析, 认定为工伤。这一事件经国内多家媒体报道后^[1], 引起社会各界对航空机组人

员宇宙射线暴露问题的关注, 尤其是宇宙射线照射对健康的潜在危害及防护措施等成为公众讨论的焦点。本文基于这一事件展开深入分析, 一方面探究韩国航空机组人员在职业环境中面临的宇宙射线暴露剂量水平, 另一方面梳理

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