

China's Nuclear Emergency Preparedness and Response during the COVID-19 Epidemic



**Emergency Preparedness and Response Related Regulator Challenges
due to the Covid-19 Outbreak (Session II)**

IAEA Senior Safety and Security Regulators' Meeting (Virtual)

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September 24, 2020



**We deeply respect the work carried out by the Agency
during the COVID-19 pandemic.**



On the premise of regular epidemic prevention and control, China has orderly resumed work, production and school. The economic development and the production and life order have been steadily recovered and turned for the better.





The radiation sterilization technique



The electron beam is tried to treat medical wastewater and wastes in hospitals





Adhering to the overall national security

Advocating a rational,
coordinated and progressive
concept of nuclear safety

The EPR Orientational Principles

**Constant Vigilance,
Versatile Compatibility,
Unified Direction,
Active Co-ordination,
Public Safeguard,
Environmental Protection**



CAEA fully draws lessons from the practical experience of epidemic response, and makes an in-depth analysis for the challenge faced by nuclear emergency preparedness and response, in the storage and guarantee of nuclear emergency supplies, the innovation and application of relevant techniques, the release of information and public communication, and the improvement of international cooperation mechanism. We will formulate measures, scientifically adjust and optimize the layout, enhance efficiency, continuously strengthen and improve nuclear emergency preparedness and response, and promote the modernization of the national nuclear emergency management system and its capability.



7 aspects of work of China's Nuclear EPR

1. Give full play to the role of nuclear EPR coordination mechanism

2. Improve the EPR law and regulation system & plan system

3. Continuously promote and build the nuclear EPR capability

4. Strengthen the training & exercise

5. Earnestly carry out public communication and psychological self-regulation

6. Expand international exchange and cooperation

7. Strengthen the duty preparation



1. Give full play to the role of nuclear emergency coordination mechanism

We give full play to the overall and coordinated role of the National Nuclear EPR Coordination Committee, earnestly fulfill the duties of CAEA as the leading department for national nuclear EPR management, and consolidate the responsibilities of nuclear EPR organizations at all levels. We guide nuclear EPR organizations at all levels to move forward, strengthen supervision and inspection, eliminate hidden risks, strengthen EPR, improve response capacity, and ensure the smooth and effective operation of the nuclear EPR system.



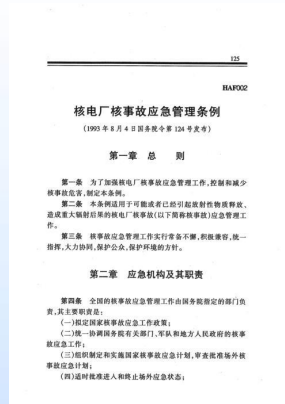
2.Improve the EPR law and regulation system & plan system



中华人民共和国 核安全法

含草案说明

中国法制出版社



核电厂核事故应急管理条例

(1995年8月4日国务院令 第124号发布)

第一章 总 则

第一条 为了加强核电厂核事故应急管理工作,控制和减少核事故危害,制定本条例。

第二条 本条例适用于可能造成或者已经引起放射性物质释放,造成重大辐射后果的核电厂核事故(以下简称核事故)应急管理工作。

第三条 核事故应急管理工作实行常备不懈,积极预防,统一指挥,大力协同,保护环境,保护公众,保护环境的方针。

第二章 应急机构及其职责

第四条 全国的核事故应急管理工作由国务院确定的部门负责,其主要职责是:

(一)制定国家核事故应急工作政策;

(二)协调核事故应急有关部门,军队和地方人民政府的核事故应急工作;

(三)组织制定和实施国家核事故应急计划,审查批准场外核事故应急计划;

(四)适时批准进入和停止场外应急状态;



国家核应急预案

(2015年6月15日修订)

1 总则

1.1 编制目的

依法科学统一,及时有效应对处置核事故,最大程度控制、减轻或消除事故及其造成的人员伤亡和财产损失,保护环境,维护社会正常秩序。

1.2 编制依据

《中华人民共和国突发事件应对法》、《中华人民共和国放射性污染防治法》、《核电厂核事故应急管理条例》、《放射性物品运输安全管理条例》、《国家突发公共事件总体应急预案》和《国际原子能机构的等。

1.3 适用范围

本预案适用于我国境内核设施及有关核活动已经或可能发生的核事故,境外发生的对我国大陆已经或可能造成严重影响的核事故应对工作参照本预案进行响应。

1.4 工作方针和原则

国家核应急工作贯彻执行常备不懈,积极预防,统一指挥,大力协同,保护公众,保护环境的原则,坚持统一领导,分级负责,条块结合,快速反应,科学处置的工

Nuclear Safety Law

*Nuclear Power Plant Nuclear
Accident EPR Management
Regulations*

National Nuclear EPR Plan



3. Continuously promote and build the nuclear EPR capability



We strengthen to build the basic capacity and professional strength of nuclear EPR, promote the application of information and intelligence in this field, and improve the reserve system and allocation mechanism for nuclear EPR supplies.



We optimize the national nuclear EPR rescue forces and expert evaluation, and promote the construction of national nuclear EPR rescue team.

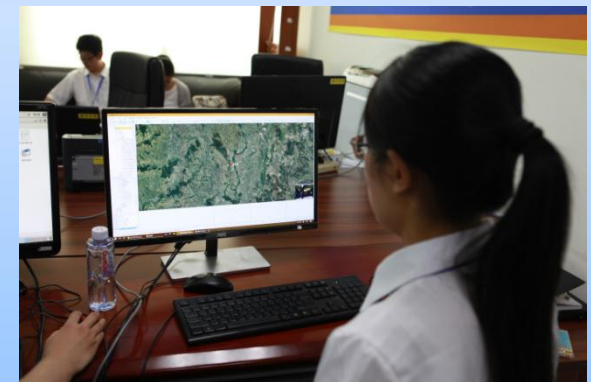




4. Strengthen the training & exercise

We hold training courses on nuclear EPR management.

We participate in the ConvEx series of nuclear EPR convention exercises held by the IAEA-IEC.

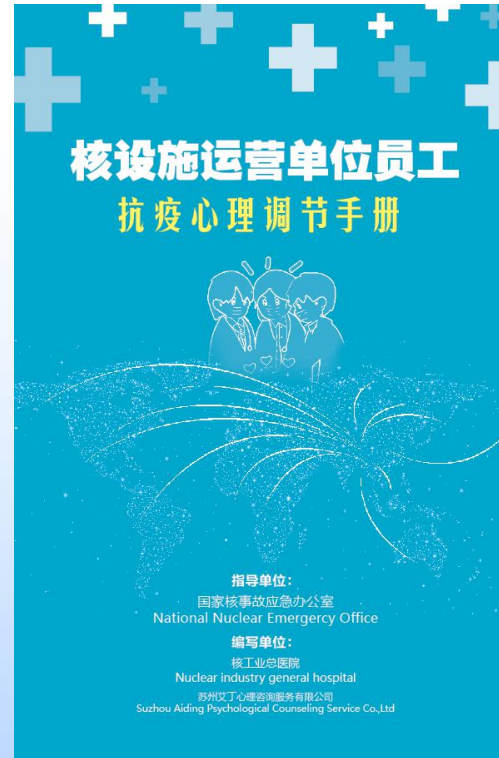




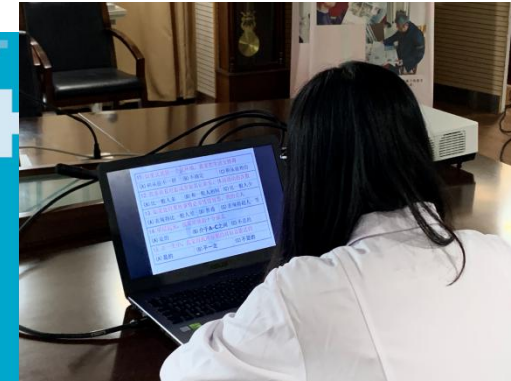
国家原子能机构

CHINA ATOMIC ENERGY AUTHORITY

5. Earnestly carry out public communication and psychological self-regulation



Psychological Self-regulation Manual for Combating the Epidemic



“Nuclear+X” Creative Competition



6. Expand international exchange and cooperation

10th EPR Competent Authorities Meeting





7. Strengthen the duty preparation

We strengthen the duty preparation for the epidemic and flood season, and strictly prevent the superposition of the epidemic and safety accidents of nuclear facilities.

The effective operation of the national nuclear EPR duty network and the nuclear EPR command systems at all levels is ensured.

And the risks that may be caused by all kinds of emergencies can be quickly, accurately and effectively resolved.



The impact of nuclear accident is without country boundary, and nuclear EPR management is by no means a small matter. China is willing to support all activities of the IAEA continuously, share our experiences on nuclear EPR management with other member states, and join hands with other countries to meet the challenge under the epidemic situation.





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Thank you !