



Document: ISO/TC 85/SC 5/WG 8/ISO-14943:2004 Summary

Nuclear fuel technology — Administrative criteria related to nuclear criticality safety

This document provides a summary of the following:

ISO-14943:2004 *Nuclear fuel technology — Administrative criteria related to nuclear criticality safety*
Technologie du combustible nucléaire — Critères administratifs concernant la sûreté-criticité nucléaire

What is this standard?

This international standard provides criteria for the administration of nuclear criticality-safety-related activities for operations which take place outside of reactors and for which there exists a potential for criticality accidents. The responsibilities of management, supervision, and the nuclear criticality-safety staff are addressed. The objectives and characteristics of operating and emergency procedures are included in this international standard.

What does it cover?

The standard details the responsibilities, in relation to maintaining nuclear criticality safety of activities, for:

- Management
- Operations supervisors
- Nuclear criticality safety staff

It also covers the objectives and characteristics of:

- Operating procedures, including contents, checks, deviations and reviews
- Process evaluations, including contents, validation and reviews
- Materials control during transport, handling and storage
- Planned response to nuclear criticality accidents

These topics set out the key principles and on occasion are developed further in other Nuclear Criticality Safety (NCS) ISO standards.

Why is it useful?

An effective nuclear criticality safety programme relies upon each employee conforming to operating procedures. Although the extent and complexity of safety related activities may vary greatly with the size and type of operation with fissile material, certain safety elements are common. This standard represents an international consensus of such elements related to nuclear criticality safety.

Who should use it?

An individual or body who has responsibility in the development and maintenance of the administration of NCS related activities. These individuals would typically include management, operations supervisors and nuclear criticality safety staff. Also, individuals or bodies with responsibilities of oversight and regulation of facilities and processes may find it useful to evaluate the adequacy of arrangements that involve the provision of NCS.

Where can I find out more?

The ISO-14943 standard can be found at the ISO website:

<https://www.iso.org/standard/38057.html>