

ISOE-SYMPOSIUM IN TOURS, FRANCE 2022

REGULATORY BODY MEETING – 20 JUNE 2022

**SIGNIFICANT EVENTS RELATED TO RADIATION PROTECTION
OF WORKERS IN NUCLEAR POWER PLANTS**

OBJECTIVES AND PROGRAM OF THE “RB MEETING”

Objectives: To provide a forum for open information, exchange and discussion regarding a relevant issue in occupational radiation protection from a regulatory viewpoint

2022 selected topic:

“Significant events related to radiation protection of workers in nuclear power plants”

PREPARATION OF THE “RB MEETING”

The following questionnaire was send to all regulatory bodies inside ISOE:

How are radiological events related to radiation protection of workers defined in national regulations/ guidelines?

As a regulatory body, do you sometimes ask licensees to upgrade events initially classified as weak signals, or impose the declaration of a radiological events (following an observation made during an inspection for example...)?

Information of the regulatory body

- *What are the events which must be brought to the attention of the regulatory body (criteria)?*
- *How quickly should events be reported to the regulatory body?*
- *What informations should be reported to the regulatory body?*
- *As a regulatory body, how do you use those informations ? (Database?)*
- *What are the most frequent problems in terms of radiation protection of workers reported in significant events in recent years ?*

Analysis of the event by the licensee (Transmission to the regulatory body? If yes, within what time period?)

11 answers to the questionnaire returned: **Canada, Finland, France, Germany, Japan, The Netherlands, Slovenia, Spain, Sweden, Switzerland, The United Kingdom**

Participants from 8 countries took part on the meeting

MAIN POINTS WHICH WERE DISCUSSED

Synthesis of the responses to the questionnaire and country presentations:

- **Regulatory frameworks and requirements**

Definition of significant events, criteria

Timeframe to report and analyse the events

- **Information reported by the licensees to the RB**

Description of the event, root causes, actual and potential radiological consequences to the workers, corrective measures taken and planned to prevent the recurrence of identified deficiencies

- **Feedback and analyse of the events**

Database of the national significant events

Uses of the feedback from radiological events to draft inspection programs, during periodic assessment of the licensees...

- **Sharing information about radiological events**

To national authorities and international organisations, Internally (as OPEX), to the public (on RB web pages, on National Annual Report on radiation protection and nuclear safety...), to other nuclear facilities and training facilities

MAIN POINTS WHICH WERE DISCUSSED

Examples of particular significant events related to radiation protection of workers in NPPs, and lessons learned

- **Events involving excessive exposure of workers**

Trend over the last few years

- **Events involving significant deviation in radiological cleanliness**
(Increased dose rate, detection of radioactive contamination outside a controlled area...)

