

Session 8: Nuclear Security Culture

Efforts to Enhance Nuclear Security Culture in Japan

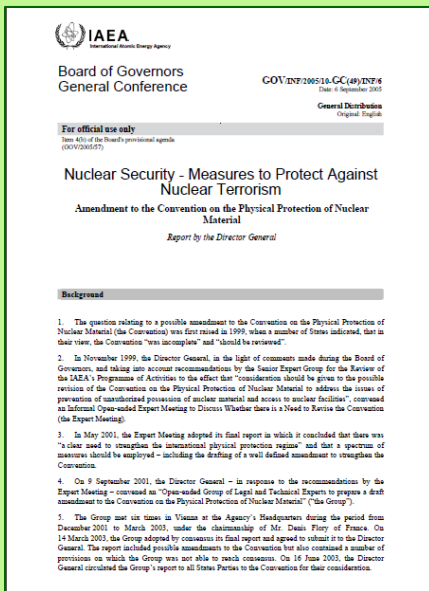
Nobuaki EGUCHI

Director, Nuclear Security Office

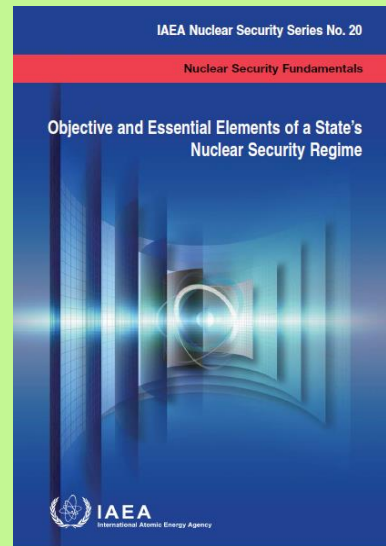
Emergency Preparedness/Response and Nuclear Security Division

Radiation Protection Department

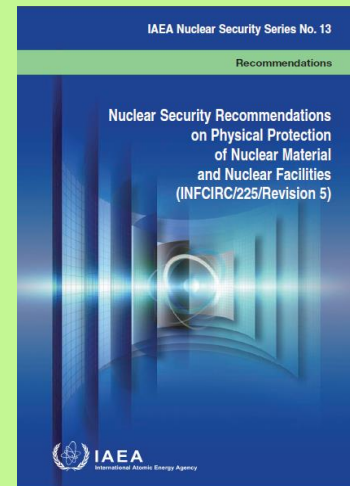
International Documents relevant to Nuclear Security Culture



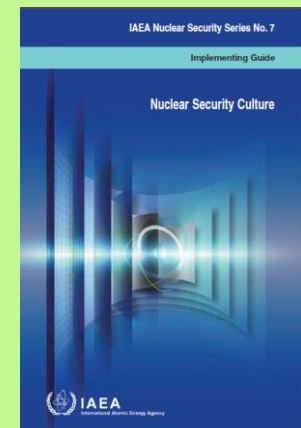
CPPNM Amendment



FUNDAMENTALS NSS #20



RECOMMENDATIONS INFCIRC/225/Rev.5 NSS #13



IMPLEMENTING GUIDE NSS #7

Policy Development

- NRA Code of Conduct on Nuclear Security Culture adopted in Jan. 2015

- Main Elements:

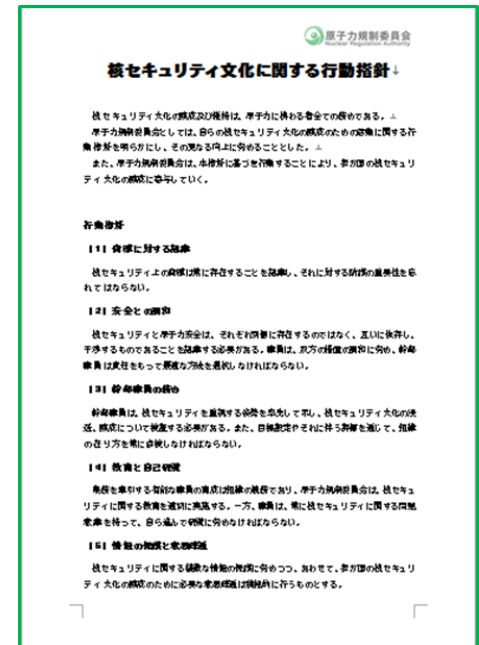
1. **Recognizing threat**

2. Interface with safety

3. Responsibilities of senior management

4. Capacity building & self-improvement

5. **Confidentiality** & communication





Roles of Regulatory Body in Improving Operators' Nuclear Security Culture

Nuclear Regulatory Framework in Japan

Atomic Energy Basic Act

Reactor Regulation Act

Order for the Enforcement of Reactor Regulation Act

Relevant NRA Ordinances

Usage

Use of NM

Transport

Transport of NM

Fuel Cycles

Fabrication and Enrichment

Reprocessing

Refining

Reactors

Commercial NPP

NPP in R&D Phase

Research Reactor

Exceptional Case

Fukushima-Daiichi

Spent Fuel

Interim Storage of Spent Fuel

Waste

Disposal of HLW

Disposal of TRU Waste

Waste Management for Wastes Contaminated by NM

Regulatory Framework

- Amendment of Regulations -

- **December 2011, new requirements on security culture added**
 - **Article 96** (Ordinance on Installation, Operation, etc., of Commercial Power Reactors)

“A person who intends to obtain approval for a security plan shall specify the plan concerning the following matters....”

 - (i) matters concerning the system for complying with the relevant laws and regulations...
 - (ii) matters concerning on **how to foster nuclear security culture (including senior management’s involvement)**
 - (iii)
 - (xx)

Elements Should be Included in Security Plan



Develop Guidelines



HEAD of NPS

**PLAN
&
DO**

Develop & Implement Action Plan



CEO

ACT

Review Guidelines



CEO

CHECK

Give Instructions

Implementation is checked during PP inspections

Awareness Raising Activities for Operators

□ Interviews, briefings etc.

- Held a security culture briefing for executives of operators
- Conducted interviews to executives of operators individually

□ Educational video

【Introduction】 https://www.youtube.com/watch?v=1yVUcaiM__E

【For Managers】 <https://www.youtube.com/watch?v=>

【Employees】 <https://www.youtube.com/watch?v=c>

□ Model self assessment survey

- Distributed to all operators
- All operators developed their own questionnaires



Efforts by Operators

AWARENESS



SENIOR MANAGEMENT LEADERSHIP



RECOGNITION



EDUCATION & AWARENESS RAISING



Conclusions: Lessons Learned

- Various ways to foster nuclear security culture.
 - Sharing experiences and good practices are important
- Collaboration between the regulator and operators:
 - Regulators give necessary guidance to CEO and have dialogues with them
- Assign a nuclear security culture promotor with necessary power, responsibilities and budget

THANK YOU!