

Strengthened provisions for EP&R under the Basic Safety Standards Directive

**Aarhus Convention and Nuclear
Roundtable on EP&R**

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European Commission

DG ENER

Directorate D - Nuclear Energy

**Unit D3 – Radiological Protection and
Nuclear Safety**



Basic Safety Standards

- **Strengthened requirements**
 - **Chapter on intervention** (inc emergency planning and response, coordination between neighbouring countries) **in old BSS Directive replaced with more detailed requirements**
 - **Requires thorough EP&R arrangements nationally**
 - **Follows the situation based approach introduced by ICRP** (existing, planned, emergency exposure situations)
 - **Fukushima lessons discussed with Member State input**



Directive 2013/87/Euratom, EP&R

**Strengthened requirements,
a comprehensive approach,
lessons from Fukushima**

- **Occupational exposure, em. response** (Art 53,69)
- **Emergency management system** (Art 97)
- **Emergency preparedness** (Art 98)
- **International cooperation** (Art 99)
- **Strategies for long-term** (Art 100-101)
- **Public information** (Art 70,71)



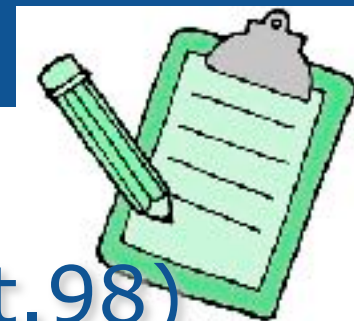
Emergency exposure situations

- **At a national level, a comprehensive approach:**
 - **Emergency management system**
 - **Assessment of potential emergency situations**
 - **Emergency preparedness, response plans**
 - **International cooperation**



Emergency management system (Art. 97, Annex XI)

- **Based on assessment of potential emergency exposure situations**
 - **Assessment of situations and associated public and worker doses**
 - **Organisation and allocation of responsibilities**
 - **Reliable, effective communication, cooperation, coordination at national/international levels**
 - **Public information, involvement of stakeholders**
 - **Emergency plans**



Emergency Preparedness (Art.98)

- **Prepare emergency response plans**
 - **Based on an assessment of potential emergencies**
 - **Content of plans defined**
 - **Plans to be tested, reviewed, revised (inc emergency exercises)**
 - **Provision for transition from emergency exposure situation to existing exposure**



Emergency Plans (Annex XI)

- **Elements to be included**
 - **Defined protection strategies for different postulated events**
 - **Reference levels for public and occupational exposure**
 - **Arrangements for coordination between organisations**
 - **Prompt implementation of protective measures, based on prevailing conditions**
 - **Review and revision of plans**



Public information(Art.70,71)

- **Information provision**
 - **Prior information on health protection to the public likely to be affected in the event of an emergency**
 - **Prompt information on protection measures in case of an emergency to those actually affected**



International Cooperation (Art 99)

- **Strengthened cooperation between Member States and with 3rd countries**
 - **Arrangements to include organisations in neighbouring countries (eg facility near border)**
 - **Cooperation with other MS and third countries who may be affected**
 - **Sharing the assessment of the emergency, coordinating protective measures, public information**

Strategies for long term(Art.100,101)

- **Existing exposure situations**
 - **Establish strategies for managing existing exposure situations and for longer term**
 - **Evaluate exposures and provide for remedial and protective measures**
 - **Determine objectives and effectiveness**
 - **Provide information to exposed population on potential health risks and exposure reduction**



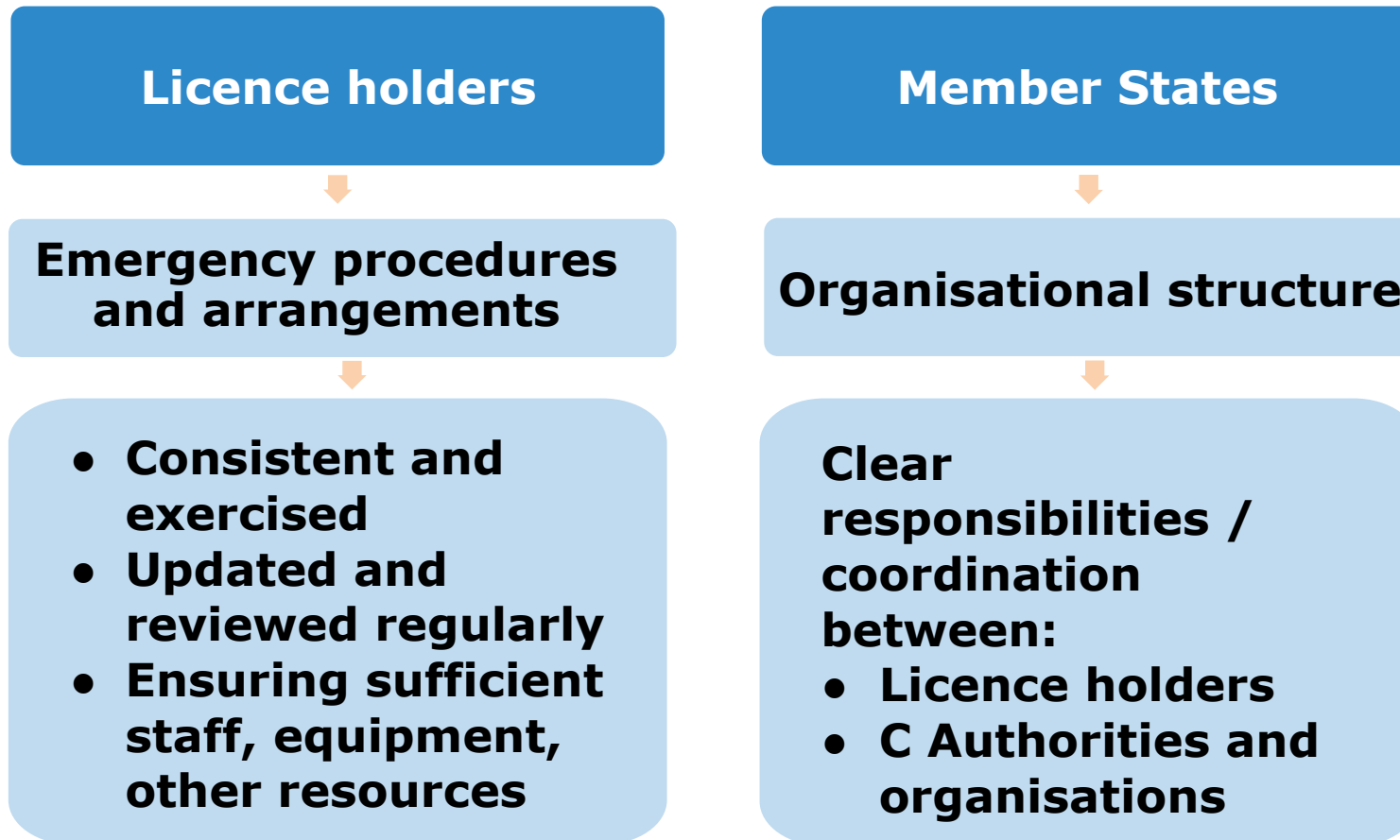
Nuclear Safety Directive Amendment

Directive 2014/87/Euratom

- **Reinforced requirements**
 - **Independence and role of national regulatory authorities** (Art 5)
 - **EU-wide safety objective** (Art 8a)
 - **Defence-in-depth, accident prevention mitigation** (Art 8b,d)
 - **Consistency, continuity on-site EPR and the BSS provisions** (Art 8d)
 - **European system of topical peer reviews** (Art 8e)

Directive 2014/87/Euratom: On-site EP&R

To prevent and mitigate accident





Council Conclusions EP&R (Dec 2015)

- **Importance of coherent protective measures along adjacent national borders,**
- **Invites MS's to cooperate closely on EP&R especially when emergency planning zones extend beyond the borders of a Member States,**
- **Take account of expert work on cross-border approaches when transposing and implementing the provisions of Council Directive 2013/59/Euratom,**
- **MS's to intensify their efforts for joint training sessions and emergency exercises,**
- **Maintain and develop, bilateral arrangements for better cross-border coordination of protective measures**



Council Conclusions EP&R

- **EC and BSS Directive**
 - **Transposition and implementation of Council Directive 2013/59/Euratom gives an opportunity to improve coherence of EP&R in the EU,**
 - **EC to organise workshops to facilitate the consistent transposition and implementation of Council Directive 2013/59/Euratom, aiming at developing a coherent approach to EP&R provisions of the directive**



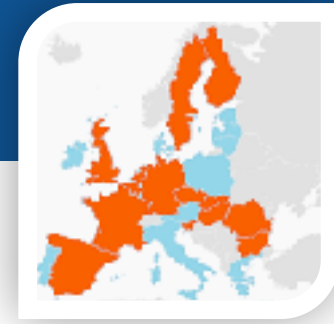
Basic Safety Standards

- **Follow up of the transposition and implementation is a priority for Commission services**
- **Pre-transposition phase:**
- **EC to facilitate the process, by organising workshops, MS meetings, bilateral discussions, supporting work of expert groups, international organisations, research activities**
- **Aim to promote common approaches, share good practices, raise issues that require attention and identify further work**



Basic Safety Standards

- **Goal: Timely transposition and proper implementation**
- **2018: Legal and technical conformity checks on MS's national legislation and administrative provisions will start**
- **>2018: Monitor the implementation of the BSS with a focus on the new provisions**

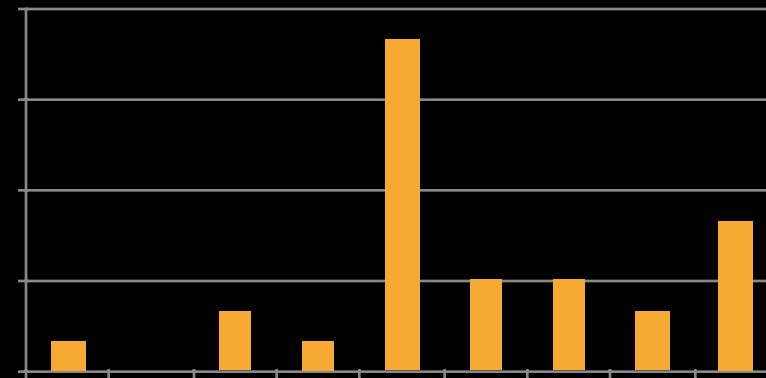


RiskAudit Survey 2015

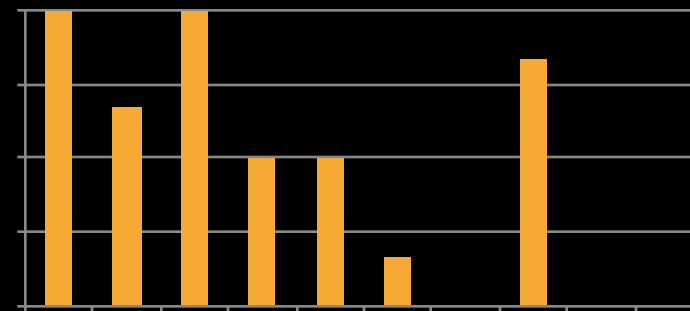
- **Initial survey – to collect general information on Member States' strategies and plans for transposition and implementation**
- **Followed by topical surveys including EP&R**



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RiskAudit EP&R survey 2015

➤ Which areas needing clarification/guidance?

Example: Reference levels (Article 7)

- “Practical implementation (protection strategies)”
- “The link between reference values, dose restrictions and operational intervention levels should be clarified”
- “Existing exposure situations”
- Promote DS474 (Termination) at European level

Developing 'guidelines' for more consistency

- **On-going study (VNS-Belgium) to identify priority topics and the basis of guidelines at the EU-level to support a more consistent approach to BSS implementation**
- **Council Conclusions, findings of ENCO and RiskAudit survey provide the background for this VNS study**
- **This study aims to review existing international standards (IAEA), views of expert groups to identify "guidelines" to support common approaches**
 - Protection strategies, optimisation approaches, reference levels,
 - Generic criteria, operational criteria, default triggers,
 - Transition from emergency to existing exposure situation,
 - Emergency response arrangements and information to the public



BSS Transposition and Implementation

Pre-transposition

Opportunity for better consistency 2015-2018
Dialogue with MS:



Transposition checks

Goal is the full and timely transposition of the BSS Directives



Implementation monitoring

- >2018: EC to monitor implementation with a focus on the new provisions
- Report to Council