# MAIN RESULTS OF THE INTEGRATED REGULATORY REVIEW SERVICE (IRRS)

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## **A World First**

### IAEA's First Full Scope IRRS Mission including Nuclear Security

### **Mission Team**

Team of twenty three experts
Eighteen international experts from 15 different member states
Two observers
Three experts from the IAEA
And an IAEA administrative assistant

### Purpose

Share experiences and learn from each other for regulatory improvements by both reviewees and reviewers through evaluation of the effectiveness of the nuclear and radiation regulatory authority Consejo de Seguridad Nuclear and

to help further improve effectiveness and efficiency of CSN through the application of IAEA safety standards and lessons learned from Conferences and Review Meetings among Senior Regulators

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### **Areas Covered**

- **1. Legislative and Governmental Responsibilities**
- 2. Authority, Responsibilities and Functions of the Regulatory Body
- **3.** Organization of the Regulatory Body
- 4. Activity of the Regulatory Body
  - 4.1 Authorization Process
  - 4.2 Review and Assessment
  - 4.3 Inspection and Enforcement
  - **4.4** Development of Regulations and Guides
- 5. Safety and Security of Radioactive Sources
- **6.** Emergency Preparedness
- 7. Transport of Radioactive Material
- 8. Infrastructure for Radwaste, Decommissioning and Remediation and Environmental Surveillance
- 9. Management System
- **10.** Nuclear Security (separate report)

#### Inspections, Discussions, Observations

#### **Inspections at**

- Nuclear Power Plants
- Research Centre (Ciemat)
- Fuel Cycle Facility
- Medical and Industrial Practices
- Waste Facilities

#### **Discussions with**

- Ministry of Industry, Tourism and Commerce
- Ministry of Interior
- ENRESA
- NPPs Plant and Corporate Manager
- Research Centre (Ciemat)

#### Observed

• Emergency drill

### The Team Found

16 Good Practices
26 Suggestions
5 Recommendations
+ Nuclear Security

## **Common Themes**

Strengths

**Issues for Improvement** 

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### **Strengths** (1) Identified in several review areas

- A comprehensive legal infrastructure that includes all the relevant international conventions being in force;
- By law CSN is the sole competent authority in nuclear safety and radiological protection in Spain
- CNS is fully independent with regard to safety in making regulatory decisions;
- A suite of supporting regulations, including binding regulations made by CSN.

### **Strengths** (2) Identified in several review areas

- Highly capable professional staff whose competence is well respected by licence holders;
- A strong supporting infrastructure, including a very effective internal regulatory information and documentation system;
- Detailed working processes and procedures.

### **Strengths** (3) Identified in several review areas

- The ongoing modernization of CSN's nuclear regulatory approaches
  - The use of probabilistic risk assessment to its licensing
  - The newly established reactor oversight approach (SISC) similar to the one used by the US-NRC.
- A well trained emergency preparedness organization being in place together with very modern and well equipped emergency center (SALEM).
- The commitment to and actions taken in recent times towards achieving effective transparency and communication with the public and Parliament.

### **Strengths** (4) Identified in several review areas

- The effective collaboration between CSN and ENRESA in Radioactive Waste Management strategy and programs and the effective oversight and completion of decommissioning projects.
- Progress with implementation of the Code of Conduct on the Safety and Security of Radioactive Sources.
- The collaboration between CSN and MIR in physical protection related activities and the use of regulatory and licensing activities to enhance physical security at nuclear facilities.

# High Priority Issues for Improvement

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### **Issues for Improvement (1)**

 Need for careful judgements of priorities for meeting the ongoing improvements in CSN's current activities; new activities; and the implementation of the new law for being transparent.

 Nothing should diminish the first priority of CSN to oversight the safety of the nuclear and radioactive installations.

### **Issues for Improvement (2)**

- Building of a greater flexibility and broader coverage into the recruitment of above base-level staff and non technical professionals to CSN
- Establish a technical advisory committee of experienced experts in the nuclear and radioprotection field.
  - Advise the technical directors on important issues
  - Give a second opinion for the decision makers.
  - Improve the public credibility of CSN.

### **Issues for Improvement (3)**

 Strengthening the oversight on Human and Organizational Factors in all areas to improve a good safety culture of the licensee's organisation.

 Continue focus on ongoing efforts to strengthen CSN's activities in physical protection through collaboration with relevant governmental bodies on a forthcoming Royal Decree and related instructions and internal procedures.

### **Issues for Improvement (4)** Identified from the security team

 Increased CSN participation in national radioactive waste management planning and encouragement of the development of planning and communication of plans for final disposal of spent fuel and HLW

## **The Mission and Report**

Helps to strengthen CSN
Is objective, evidence and fact based
Based on IAEA requirements

## We all take away Information and Ideas

Through This Mission Spain & IAEA Member States Have Helped To Improve Regulation and Nuclear & Radiation Safety Worldwide

### THANKS TO SPAIN, ESPECIALLY TO CSN

- For its openness
- For the well prepared self-assessment, including evaluation of strengths and proposed actions to improve
- For the extensive preparation at all CSN staff level
- For the full cooperation in technical regulatory and policy discussions
- For the outstanding administrative and logistical support throughout the mission

# Thank you for your attention

