

## IRRS Workshop Sevilla, 3-4 November, 2008 IRRS Spain Part. 3<sup>rd</sup> "Execution & Main Results" 27 January – 08 February, 2008

Juan Carlos Lentijo Radiation Protection Technical Director

CSN



## Content

### Conduct of mission

- Main results summary
- CSN Action Plan
- Main remarks & conclusions

# **S** Conduct of mission (IRRS Guidelines)

- Calendar: 27<sup>th</sup> January to 8<sup>th</sup> February
- Sunday 27<sup>th</sup> O Members with 0



eting: IRRS Team Officers

- Monday 28<sup>th</sup>. Entrance meeting: IRRS Team Members, CSN staff
- Tuesday 29<sup>th</sup> /Thursday 7<sup>th</sup>. Investigations, Policy Issues & Report
- Friday 8<sup>th</sup> Exit Meeting

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First contact: IRRS Team Members / CSN senior management, liaison officers, counterparts...

>Well prepared and trained. Oral presentations of counterparts introduce CSN vision of each topic: rehearsed in advance

Meeting open to CSN staff and representatives from Ministries and other institutions

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# S Investigations, Policy Issues & Report

Detailed Agenda. Conduct remaining flexible

**>** How to construct the Agenda and examples...

**External interviews** 

**Direct observation** 

**Daily meeting** 



Module III

Organization of the Regulatory Body

General

Staffing & Training

Advisory Bodies

Interfaces with other bodies

Relation with the operator / licensee

International cooperation

Infrastructures



### Modules grouped (Part II)

#### Part II: Generic Requirements - Regulatory Activities

#### Module IV Module V Module VI Module VII Authorization Review& Inspection Regulations Assessment & Guides Review and assessment Inspection and General issues enforcement - General General issues in the issues Definition of the principles Development of Authorization process and criteria of the regulation and guides Inspection type, Guidance for the operator judgments and decision General issues inspection procedures on the format and content process Feedback and Inspection findings and of documents Compliance of available experience reflected in consecutive remedial Formal action for information on the activity action guides granting or refusal of or facility with safety Feedback from Enforcement actionsauthorization objectives, principles and internationally graded approach criteria Process for amendment. recognized standards Curtailing, suspending, renewal, suspension or Review and assessment and recommendations revoking of authorization revocation of the regulatory body authorization programme Inspector's competency

#### Nuclear Safety (5 Experts)

- Radiation Safety (5 Experts): Practices, Transport, Public (Waste-Decomm-Env...)
- Regulations and Guides Common Process (3 Experts)
- Physical Protection (3 Experts)
- Emergency Preparedness (1 Expert)

## Betailed Agenda. Example 1

#### Part 1 (Modules: I, II, III, VIII and Policy Issues). 1<sup>st</sup> WEEK Rev.: 270108

Mod. I, II, III and VIII. Common Requirements	Mon, 28	Tues, 29	Wed, 30	Thurs, 31	Fri, 1
IRRS-1: SCHMOCKER, LOY, REYES, JENDE CSN-1: MELLADO, LENTIJO, TORRES, ZARZUELA & RODRÍGUEZ. CEPAS (Mod. VIII) Support: MÉNDEZ, PELAYO, SANZ	Entrance meeting -Welcome, introduction of CSNGroup interactions. Possible "one to one" interactions. to be programmed on line Teams: IRRS-1 / CSN-1 Room: Permanent IRRS (Floor 4) Time: 8:30ER, LOY, REYES,Entrance meeting -Welcome, introduction of CSN Senior Staff, IRRS team & counterparts -Detailed presentations (Counterparts) Teams: d. VIII)Group interactions. Possible "one to one" interactions. Teams: IRRS-1 / CSN-1 Room: Permanent IRRS (Floor 4) Time: 8:30	ne" interactions: on line CSN-1	Interview Plant Manager: <i>Almaraz NPP</i> Teams: IRRS-1 (Partial) Room: Meeting Room (Floor 3) Time: 9:00 to 10:45 Interview <i>Ministry of Industry</i> , <i>Tourism and Trade</i> Teams: IRRS-1 (Part.)/CSN-1 (P) Place: Ministry Headquarters Time: 11:15 to 13:00 Rest of the day. Typical daily agenda for Teams IRRS-1 / CSN- 1	Interview Corporative Manager: Cofrentes NPP Teams: IRRS-1 (Partial) Room: Meeting Room (Floor 3) Time: 9:00 to 11:00 Group interactions. Teams: IRRS-1 / CSN-1 Room: Permanent IRRS (Floor 4) Time: 11:00 – Rest of day	
				Mod. VIII. One to one: JENDE / CEPAS Room: SIC-Cepas (Floor: 0). Time: typical daily agenda	
		<b>General discussions Policy Issues:</b> Risk informed approach, Natural radiation, RB Efficiency, Transparency Teams: IRRS (All) / CSN (Liaison officers and others as needed). Time: 15:30 to 16:30. Perm. IRRS (Floor 4)			

# Betailed Agenda. Example 2

#### Part 2.1. Nuclear Safety (Modules: IV, V and VI + specific issues of VII). 1st WEEK Rev.: 270108

Mod. IV, V and VI + VII (specific) Nuclear Safety	Mon, 28	Tues, 29	Wed, 30	Thurs, 31	Fri, 1
IRRS-2: HERTTRICH, BIRO, HALL, JÄVINEN, MATSUURA CSN-2: ZARZUELA (@) VÁZQUEZ (IV), MUNUERA (V) DE LA VEGA+J. GIL (@@) (VI) @ Tues, 29. Rest as needed @@ Support to other groups in generic inspection matters (VI)	Entrance meeting -Welcome, introduction of CSN Senior Staff, IRRS team & counterparts -Detailed presentations (Counterparts) Teams: IRRS-All / CSN-All / MITC Room: Conference Room (Floor: -1) Time: 9:00	Group interactions One to one interact programmed on lin Teams: IRRS-2 / C Room: IRRS-NS (	tions: to be ne CSN-2	Plant Inspection NS <i>Garoña NPP#I</i> Interview: <i>Resident Inspector Garo</i> Teams: IRRS (2 Exp.) / CSN (1 Cou Time: Thurs. (afternoon) to Fri (afte (*) <i>Alternative plan in case of adver</i> Group interactions. One to one interactions: to be progra Teams: IRRS-2 (Rest) / CSN-2 (Res Room: IRRS-NS (Floor 2) Note: Possible Interview <i>Ministry o</i> Topic: Authorization. Place/Time: C	<i>ña NPP</i> Interpart) rnoon) <i>se weather</i> ammed on line t) <i>f Industry, Tourism and Trade</i>

## Detailed Agenda. Example 3

CSN

#### Part 2.2. Radiation Safety (Modules: IV, V and VI + specific issues of VII). 2nd WEEK

**Rev.: 270108** 

Mod. IV, V and VI + VII (spcific) Radiation Safety	Mon, 4	Tues, 5	Wed, 6	Thurs, 7	Fri, 8
Medical & Industrial Practices & Radiation Protection Services IRRS-3: OLERUD, KREMBEL (medical),DUFFY),MAKAROVS KA (Industrial) CSN-3: RODRÍGUEZ (@)	Inspection RP Industrial gammagrafy (SCI)#4Inspection RP Industrial accelerator (Ionmed)#4Teams: IRRS-3 (Duffy – Makarovska)Teams: IRRS-3 (Duffy – Makarovska)CSN-3 (1 Count.)CSN-3 (1 Count.)Time: MorningTime: Morning		Group interactions. One to one interactions: to be programmed on line Teams: IRRS-3 / CSN-3 Room: IRRS-RP (Floor 1)		Exit Meting Teams: IRRS / CSN (All) / MITC Room: Conference
ÁLVAREZ (Practices), AMOR (Rad. Services) C GIL+J GIL (@@) (VI) @ Tues, 29. Rest as needed @@ Support generic inspect. (VI)	Group interactions. One to one interactions: to be pr Teams: IRRS-3 / CSN-3 Room: IRRS-RP (Floor 1). Tim	-		Room (Floor: -1) Time: 9:00	
<b>Transport:</b> IRRS-4: DUFFY <b>CSN-4</b> : ZAMORA <b>Code of Conduct</b> MAKAROVSKA		_		One to one Teams: IRRS-4 / CSN-4 Room: 052 (Floor 0)	
Radioactive Waste, decommissioning & remediation & environmental surveillance IRRS-5: OSOJNIC, LARSSON CSN-5: RAMOS, CID	Plant Inspection RP <i>Trillo</i> <i>NPP#7</i> Teams: IRRS (1 Exp.) / CSN (1 Count.) Time: Sunday afternoon to Monday afternoon	Group interactions Teams: IRRS-5 / CSN-5 Room: SRA-Ramos (Floor 4)			
Support: LÓPEZ, RUÍZ, REVILLA	Inspection RP <i>El Cabril</i> <i>LIRW Repository#8</i> Teams: IRRS (1 Exp.) / CSN (1 Counterpart) Time: Sunday afternoon to Monday afternoon				

# **S** Typical Daily Agenda

#### Typical daily agenda for experts Rev.: 270108

	Mon	Tues	Wed	Thurs	Fri	Sat		
Time:								
8:30 - 10:30	Group or "one to or	Special daily meeting: Sat,						
10:30 - 11:00	Coffee break	Coffee break						
11:00 - 13:00	Group or "one to or	2 <sup>nd</sup> Time: 9:30 Permanent IRRS meeting						
13:00 - 14:30	Lunch							
14:30 - 15:30	Group or "one to or	room						
15:30 - 16:30	1 <sup>st</sup> Week: Policy issues / 2 <sup>nd</sup> Week: Group or "one to one" interactions							
16:30 - 17:00	Coffee break							
17:00 - OPEN	Daily meeting (Permanent IRRS meeting room: Floor 4). Except Fri, 1 <sup>st</sup>							



## Visits (interviews, inspection...)

		Thurs, 31	Fri, 01	Mon, 04	Tues, 05
	1. slative & ernmental	■MITC. Interview			
	onsibility Ilatory	Almaraz NPP Plant Manager. Interview	Cofrentes NPP Corp. Manager. Interview	Ciemat (R&D Centre). Interview	
Auth	orization		■MITC. Interview		
	Public Exp.•MITC & Enresa(Waste)Interview				
Nucle Radia Safet Exp. deco Phys	ections: ear Safety, ation ty, Public (Waste and mm.), ical ection	<ul> <li>SM Garoña NPP. N Exchangers and UH Interview Resident</li> <li>Cof. NPP. Physical</li> <li>Saelices M&amp;M. RP Surv.</li> <li>Ciemat R&amp;D. RP In</li> </ul>	S Inspectors Protection Insp. Insp.: Env. Rad.	Juzbado. Insp. NS: Operation Trillo NPP. RP Insp.: Rad. Efluents El Cabril LIW-DF. RP Insp.: LILW Management	
100 A		Hospital "Ramón y Medical Practices: R		SCI. RP Insp. Industrial Practice (gammagraphy)	<ul> <li>Ionmed. RP Insp Industrial Practice (accelerator)</li> </ul>
Emer	rgency				SALEM. Emerg. Drill ASO NPP

## Investigations, Policy Issues & Report

### Detailed Agenda. Conduct remaining flexible

### Interviews & discussions:

- Counterparts. CSN **staff fully available**
- Documents, data bases, management system...

### External interviews:

- Ministries Industry, Interior, Enresa...
- Ciemat (TSO)
- Licensees

#### **Direct observation**:

- Inspections. Real CSN Inspection Program
- CSN facilities. Emergency drill: SALEM (CSN Emerg. Centre)
- Daily meeting. Coordination & feedback





# S Investigations, Policy Issues & Report

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### External interviews:

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# Investigations, Policy Issues & Report

### Policy Issues

- Selected current challenges & subj. of interest
- Not too many: Agenda, deep discussions...
- Good opportunity to share experience and learnt from each other without pressure
- Helps increase self-understanding



## Investigations, Policy Issues & Report

Report preparation:



- Continuous process. Good practice and necessary
- Sat. 2<sup>nd</sup>. Very advanced technical notes: potential recommendations and suggestions. Discussion with LO
- Mon. 4<sup>th</sup>-Tue. 5<sup>th</sup>. Detailed discussions & feedback experts/counterparts
- Wed. 5<sup>th</sup>. Draft Report given/discussed with Liaison Officers. Counterparts requested for final comments
- > Thur. 6<sup>th</sup>. Final Draft Version Report



7 Months (Sep). Final Report after comments

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  Policy Issues & Report
- Friday 8<sup>th</sup> Exit Meeting

## Results. Numerical summary

SSN

	Module (According Final Report)	Recom.	Suggest.	Good Practice
1	Leg. & Govern. Responsabil.		2	1
2	Responsab. & Functions RB			
3	Organizat. & Interfaces RB		4	
4	Reg. Activities (Auth./Insp./Rul.)	2	8	9
5	Safety & Security RS		1	2
6	Transport		1	2
7	Emergency Preparedness		3	2
8	Radwaste, public exposure	1	2	2
9	Management System	2	5	1
10	Security	-	-	-
	TOTAL	5	26	19

Final report also includes: comments, observations, etc.

## Recommendations (1/3) Area: Regulatory activities

- Nuclear facilities: CSN should implement a systematic way of compiling and presenting results obtained, trends and consequences drawn from inspections and review and assessment for all nuclear installations where applicable, and should give feedback to licensee. This should be taken in a periodic basis.
- 2.

**Radioactive facilities**: From inspections in X-ray diagnostic and radiation facilities, CSN should built and express an opinion about results obtained, trends and consequences drawn in different practices using radioactive sources, and to give feedback to licensee. This should be taken in a periodic basis.

## Recommendations (2/3) Area: radwaste, public exposure

- 3. Radioactive waste: CSN should work with
  - other competent authorities to encourage the development and communication of plans for final disposal of spent fuel and HLW, and contribute to setting the appropriate targets and conditions that would, from all points of view, govern the process, so that theres is no unnecessary delay in the solution of the problem, and that also gradually would improve the estimates of future costs for the final radwaste management.

## Recommendations (3/3) Area: Management System (MS)

- 4.
  - 4. <u>Audits</u>: CSN should formalize & implement internal audit program of management processes. Programme should ensure all processes are audited within defined time period. To support this a number of internal auditors should be selected among staff and given training. In connection, a systematic approach to management of non-conformances of processes and products should be developed and formalized

#### 5.

### Management System Reviews: CSN

should develop methodology and implement MS reviews conducted & planned intervals by internal and external resources. Programme should ensure continuing suitability and effectiveness of MS and ability to enable objectives organization to be accomplished



### Main aim: enhance CSN Action Plan

### Topics (presentation of Team Leader)

- Introduction new activities. Balance priorities: safety (1<sup>st</sup> priority) & transparency
- New Technical Advisory Committee
- CSN Personnel: recruitment, skills, training...
- Oversight program to strengthen Human & Organizational Factors
- > .../...



### Motivation of CSN staff

### Topics (presentation of Team Leader)

- CSN sole competent authority NS & RP. Independent. Transparency. Competent staff
- Mangment Syst. Information & documentation
- Modern tools. SPA, Rx oversight system (SISC)
- Emergency preparedness and capabilities
- Waste management system
- Code of conduct for RS
- Security



## **CSN Action Plan**

### Evolving from previous Action Plan

- **CSN** Methodology:
  - Foster & decision: Highest organization level
  - Coordination: Management System Committee
  - Fitted real CSN process map (differs from IRRS modules) & CSN organization (process owners)
  - Organization involvement: motivation
  - Many actions: Priorities, focus on important
  - Future: implement, assessment, follow-up...

## Remarks and conclusions (1/3)

Conduct a Full scope mission: huge challenge

- Real/comprehensive view. Balance of areas
- Difficult to manage.

- Special care with security: confidentiality, Team Leader coordination...
- IRRS Guidelines. OK, but improvement welcomed
- **Integrated approach** very useful. Needs flexibility to fit real scope installations/activities & organization in country

#### Policy Issues.

- Not many & well selected
- Open discussions to share experience and learn from each other

## Remarks and conclusions (2/3)

### Programming & conducting

- Good preparation: key of success. IRRS team and RB: prepare/review in advance documentation, interviews, presentations...
- Detailed programme needs introduce flexibility
- Discussions: open, frank...
- Availability of staff, facilities...

### Co-ordination

- Continuous interaction: experts/counterparts
- Double feedback loops: counterparts/Liaison Officers & experts/IRRS team
- Daily meeting: excellent framework for co-ordination. Open, frank and focused
- Language is a challenge. Misunderstandings

## Remarks and conclusions (2/3)

#### **Report preparation**

- Continuous process. Good practice
- First technical notes. Deliver soon as possible helps to focus discussions and avoid last time misunderstandings and nervous
- Consolidated version report. Only for minor changes

### Participation of staff

Challenge but motivation



### Main conclusion





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