



Gobierno de Chile

### 67<sup>th</sup> REGULAR SESSION OF THE IAEA GENERAL CONFERENCE SENIOR SAFETY AND SECURITY REGULATORS' MEETING September 28, 2023

# Chile's initiatives, efforts and valuable perspectives in the domain of organizational readiness and agility

Dr. Luis Huerta Torchio

Director Chilean Nuclear Energy Commission

**CCHEN - Chile** 





### VISION

To be a competent regulatory body and example in the nuclear field, with technical autonomy and effective and transparent processes

### MISSION

Regulate and supervise the peaceful and safe use of nuclear energy for society and the environment.



### GOAL

Effectiveness in regulatory work and optimization of public resources







### **Regulatory Scope**

The array of facilities and personal authorized









01. Social Impact Endeavours



**02.** The Modernisation of Public Management



**03.** Human Resource Capacity



04.

Prospective Vision



## 01. Social Impact Endeavours

Comisión Chilena de Energía Nuc

2







### Our initiatives and figures in Sep 2023

- <sup>1</sup> Promote an organizational culture with a high sense of urgency
- <sup>2</sup> Monitor and control all the regulatory processes (authorization, inspection and user attention) using IT tools and Key Performance Indicators (KPI)
- <sup>3</sup> Intensive use of communication channels and constant reporting to the legal representatives of facilities



## 02. Modernization of management



IAEA

### Usuario: CIRO FABIAN CARDENAS EYZAGUIRRE Perfil: OFICIAL DE PROTECCIÓN RADIOLÓGICA



PC 🎎

C



Solicitudes



de Incidentes Radiológicos o Denuncias



Notificación de los Explotadores

Preguntas	
al Regulador	



Internal	External
sername	8
assword	۵
LO	GIN

Access Request Form

## Tasks and Challenges in the Nuclear Area





## OUR RESEARCH REACTOR WILL BE 50 YEARS OLD NEXT YEAR...

Nuclear Tasks

Challenges

- <sup>1</sup> Update the risk analysis report
- 2 Conduct a review and safety assessment of the reactor and related facilities
- <sup>3</sup> Integrated team to RR licensing this year

- Strengthen the technical capabilities of regulatory staff in the nuclear field
- <sup>2</sup> Update the nuclear regulatory framework



### Our Initiatives...



I.1 STATUS SS En Proceso por Sección y Etapa 🛛 🖓

- **1** Intensive use of IT tools to encourage a style of management
- 2 Key Performance Indicators (KPI)
- **3** Digital positioning using interactive platforms (Portal of the Regulator and the Regulated)
- 4 An Active Inspection Model using self-assessment tools.(What is happening when we are not there)







- **5** The incorporation of RAIS+ to our licensing processes:
  - First pilot: authorization of operators
  - Operator licensing process modeled in RAIS+ (see diagram)
  - Next challenge: authorizations of facilities and related activities (transport, import-export)





## 03. Human Resource Capacity





## Regional Training Center for Regulators







Our Initiatives... Strengthening of soft and behavioural skills in order to achieve an effective regulatory role

To launch a Regional Training Center with a focus on specific technical competences and soft and behavioural skills:

Locations: Santiago of Chile Duration: 4 months Background: specialization in radiological safety. Work experience greater than two years





Ref: IAEA-TECDOC-2005













all sales the







1 Linked up with the local academic in order to develop tools as a means to support regulatory activity



Incorporate predictive Analysis Tools

- Risk models for facilities and regulated activities
- A mathematical model to quantify the team workload.



Incorporate real-time simulation tools (e.g., virtual reality)

Operator exams based on simulated situations: more efficient processes, better evaluation of operator skills.

# Conclusions



- 1 CCHEN makes efforts in different fields to be effective in its regulatory task.
- 2 Strengthening the capacity of human resources in soft and behavioral skills allows us to improve our regulatory and inspection role.
- **3** The incorporation of informatics tools allows us to optimize our processes, reducing response times and balancing the staff's workload.
- **4** The launch of a Regional Training Center will allow us to share our regulatory model and the experience acquired.
- 5 CCHEN has important challenges in the nuclear regulatory area: many efforts are currently being made, mainly through technical cooperation with other countries.
- 6 The link with local academia allows us to develop open innovation projects, focused on the fields of data science. These initiatives will better integrate forward-looking capabilities into our work teams and improve processes and decision-making.





Ministerio de Energia

Gobierno de Chile

# Thank you!