



# **C**hallenges and Enhancements to the Safety Culture of the Regulatory Body

A CNRA/CSNI/CRPPH Workshop

Paris, France

3 June 2015

**Programme**

# **Challenges and Enhancements to the Safety Culture of the Regulatory Body**

**A CNRA/CSNI/CRPPH Workshop**

**Paris, France**

**3 June 2015**

**Programme**

Nuclear Energy Agency  
Organisation for Economic Co-operation and Development

## NUCLEAR ENERGY AGENCY

---

The OECD Nuclear Energy Agency (NEA) was established on 1 February 1958. Current NEA membership consists of 31 countries: Australia, Austria, Belgium, Canada, the Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Japan, Luxembourg, Mexico, the Netherlands, Norway, Poland, Portugal, Korea, Russia, the Slovak Republic, Slovenia, Spain, Sweden, Switzerland, Turkey, the United Kingdom and the United States. The European Commission also takes part in the work of the Agency.

The mission of the NEA is:

- to assist its member countries in maintaining and further developing, through international co-operation, the scientific, technological and legal bases required for a safe, environmentally friendly and economical use of nuclear energy for peaceful purposes;
- to provide authoritative assessments and to forge common understandings on key issues, as input to government decisions on nuclear energy policy and to broader OECD policy analyses in areas such as energy and sustainable development.

Specific areas of competence of the NEA include the safety and regulation of nuclear activities, radioactive waste management, radiological protection, nuclear science, economic and technical analyses of the nuclear fuel cycle, nuclear law and liability, and public information.

The NEA Data Bank provides nuclear data and computer program services for participating countries. In these and related tasks, the NEA works in close collaboration with the International Atomic Energy Agency in Vienna, with which it has a Co-operation Agreement, as well as with other international organisations in the nuclear field.

## **COMMITTEE ON NUCLEAR REGULATORY ACTIVITIES**

The Committee on Nuclear Regulatory Activities (CNRA) shall be responsible for the programme of the Agency concerning the regulation, licensing and inspection of nuclear installations with regard to safety. The Committee shall constitute a forum for the effective exchange of safety-relevant information and experience among regulatory organisations. To the extent appropriate, the Committee shall review developments which could affect regulatory requirements with the objective of providing members with an understanding of the motivation for new regulatory requirements under consideration and an opportunity to offer suggestions that might improve them and assist in the development of a common understanding among member countries. In particular it shall review current management strategies and safety management practices and operating experiences at nuclear facilities with a view to disseminating lessons learnt. In accordance with the NEA Strategic Plan for 2011-2016 and the Joint CSNI/CNRA Strategic Plan and Mandates for 2011-2016, the Committee shall promote co-operation among member countries to use the feedback from experience to develop measures to ensure high standards of safety, to further enhance efficiency and effectiveness in the regulatory process and to maintain adequate infrastructure and competence in the nuclear safety field.

The Committee shall promote transparency of nuclear safety work and open public communication. The Committee shall maintain an oversight of all NEA work that may impinge on the development of effective and efficient regulation.

The Committee shall focus primarily on the regulatory aspects of existing power reactors, other nuclear installations and the construction of new power reactors; it may also consider the regulatory implications of new designs of power reactors and other types of nuclear installations. Furthermore it shall examine any other matters referred to it by the Steering Committee. The Committee shall collaborate with, and assist, as appropriate, other international organisations for co-operation among regulators and consider, upon request, issues raised by these organisations. The Committee shall organise its own activities. It may sponsor specialist meetings and working groups to further its objectives.

In implementing its programme the Committee shall establish co-operative mechanisms with the Committee on the Safety of Nuclear Installations in order to work with that Committee on matters of common interest, avoiding unnecessary duplications. The Committee shall also co-operate with the Committee on Radiation Protection and Public Health and the Radioactive Waste Management Committee on matters of common interest.

## **COMMITTEE ON THE SAFETY OF NUCLEAR INSTALLATIONS**

The NEA Committee on the Safety of Nuclear Installations (CSNI) is an international committee made up of senior scientists and engineers with broad responsibilities for safety technology and research programmes, as well as representatives from regulatory authorities. It was created in 1973 to develop and co-ordinate the activities of the NEA concerning the technical aspects of the design, construction and operation of nuclear installations insofar as they affect the safety of such installations.

The committee's purpose is to foster international co-operation in nuclear safety among NEA member countries. The main tasks of the CSNI are to exchange technical information and to promote collaboration between research, development, engineering and regulatory organisations; to review operating experience and the state of knowledge on selected topics of nuclear safety technology and safety assessment; to initiate and conduct programmes to overcome discrepancies, develop improvements and reach consensus on technical issues; and to promote the co-ordination of work that serves to maintain competence in nuclear safety matters, including the establishment of joint undertakings.

The priority of the CSNI is on the safety of nuclear installations and the design and construction of new reactors and installations. For advanced reactor designs, the committee provides a forum for improving safety-related knowledge and a vehicle for joint research.

In implementing its programme, the CSNI establishes co-operative mechanisms with the NEA Committee on Nuclear Regulatory Activities (CNRA), which is responsible for issues concerning the regulation, licensing and inspection of nuclear installations with regard to safety. It also co-operates with other NEA Standing Technical Committees, as well as with key international organisations such as the International Atomic Energy Agency (IAEA), on matters of common interest.

## **COMMITTEE ON RADIATION PROTECTION AND PUBLIC HEALTH**

The NEA's Committee on Radiation Protection and Public Health (CRPPH) is a valuable resource for its member countries. The committee is made up of regulators and radiation protection experts, with the broad mission to provide timely identification of new and emerging issues, to analyse their possible implications and to recommend or take action to address these issues to further enhance radiation protection regulation and implementation. The regulatory and operational consensus developed by the CRPPH on these emerging issues supports policy and regulation development in Member countries, and disseminates good practice.

The most significant challenge currently facing the radiation protection community is how to better integrate radiation protection within modern concepts of and approaches to risk governance. In response to this issue, the internationally accepted principles of radiation protection, upon which virtually all national legislation is based, are in the process of being reviewed and updated. The CRPPH goal is to ensure that consensus on directions for improvement is reached among radiation protection experts from national regulatory authorities, and that this consensus is taken into account during the development of new approaches and international recommendations. This will be the main focus of the committee's work for the coming years. The CRPPH will also actively pursue collaborative efforts to address cross-cutting areas such as stakeholder involvement and environmental protection.

The CRPPH works in close co-operation with the Radioactive Waste Management Committee (RWMC), the Committee on Nuclear Regulatory Activities (CNRA) and the Committee on the Safety of Nuclear Installations (CSNI), the Nuclear Development Committee (NDC) and with other NEA Committees as appropriate.

# General information

---

## Objective

The 2011 Fukushima Daiichi nuclear power plant accident in Japan marks a turning point in terms of reviewing how the safety culture of the regulatory body (SCRB) has evolved over time.

The Committee on Nuclear Regulatory Activities (CNRA), the Committee on the Safety of Nuclear Installations (CSNI) and the Committee on Radiation Protection and Public Health (CRPPH) felt that it was important that lessons learnt are used to further discuss the priorities, principles and implementation challenges of the SCRB. As a consequence the CNRA, with the support of the CSNI and the CRPPH, is reviewing the way forward for the SCRB, including possible enhancements. The CNRA plans to issue a new guidance document on this topic at the end of 2015.

## Expected results

The workshop will provide an invaluable opportunity for the exchange of information and views on the priorities, challenges and guiding principles to SCRB. It is expected that speakers and participants will be able to discuss enhancement and possible developments to help ensure and improve the SCRB. The summary of the workshop will be submitted to the CNRA for endorsement.

## Workshop topics and format

The workshop will open with presentations by both the NEA Director-General and the chairs of the three committees involved with the SCRB. The opening session will set the scene and give an overview of the SCRB together with presentations and discussions on priorities and challenges. The main session will focus on the principles of the SCRB, its implementation and the challenges and enhancements that are being raised and considered. The workshop will conclude with a session that will look at findings, conclusions and the way forward.

## **Webcast on the Workshop**

Due to space limitations and a high interest in the workshop, it has been decided to provide a live broadcast of the workshop on the NEA website to allow access to a wider audience.

The link to the webcast will be available on this page:

[www.oecd-nea.org/nsd/workshops/scrb2015/](http://www.oecd-nea.org/nsd/workshops/scrb2015/)

## **Venue**

The workshop will take place at the Union Internationale des Chemins de Fer (UICP).

### **Union Internationale des Chemins de Fer (UICP)**

16 rue Jean Rey  
75015 Paris, France

Tel: +33 (0) 1 44 49 20 20

Fax: +33 (0) 1 44 49 20 29

## **Registration**

Workshop participants must first go to the registration desk to confirm their registration. A security badge will be issued upon your arrival.

Registration will start on Wednesday, 3 June 2015, from 8:00 a.m.

## **Reception**

Participants are invited a reception which will be held from 6:15 p.m to 7:30 p.m on 3 June 2015.

Mezzanine 1<sup>st</sup> Floor at the UICP  
16 rue Jean Rey  
75015 Paris, France

# 3 June 2015

---

08:00-09:00 **Registration**

09:00-10:00 **Opening session**

*Chair: Mr William D. Magwood, IV  
NEA Director-General*

**Introduction:**

*Dr Jean-Christophe Niel, CNRA Chair*

*Dr Brian Sheron, CSNI Chair*

*Mr Michael Boyd, CRPPH Chair*

- Background and objectives of the workshop
- Setting the scene and overview of the safety culture of the regulatory body
- Priorities and challenges
- Guiding principles

10:00-10:30 *Coffee break*

## 3 June 2015 (Cont'd)

---

10:30-12:30

**Main session on the Safety Culture of the  
Regulatory Body**

*Chair: Mr Lennart Carlsson, STG SCRB Chair*

**Principles for the Safety Culture of the  
Regulatory Body**

*Mr Petteri Tiippana, MDEP Policy Group Chair,  
STUK Director-General*

**NRC Views on Internal Safety Culture:  
Successes, Challenges, and the Path Forward**

*Mr Stephen Burns, NRC Chair*

**Insights on the Canadian Nuclear Safety  
Commission's Safety Culture Journey**

*Mr Terry Jamieson, CNSC Vice-President*

**Lessons Learnt from the Fukushima Daiichi  
Accident Regarding Safety Culture of Regulatory  
Body**

*Dr Toyoshi Fuketa, NRA Commissioner*

**Discussion, questions and answers**

12:30-14:00

*Lunch break*

## 3 June 2015 (Cont'd)

---

14:00-16:00

**Main session on the Safety Culture of the Regulatory Body** (Continued)

*Chair: Mr Lennart Carlsson, STG SCRB Chair*

**Challenges to Regulatory Bodies' Safety Culture**

*Mr Pierre Franck Chevet, ASN Chair*

**Regulatory Safety Culture: International Perspective**

*Dr Greg Rzentkowski, IAEA Director of the Division of Nuclear Installation Safety*

**Integration of Safety Research into Safety Culture Concepts**

*Prof Frank Peter Weiss, GRS Director-General*

**Radiological Protection and Emergency Management Aspects**

*Dr Bernard Le Guen, CRPPH member, IRPA Executive Officer*

**Discussion, questions and answers**

16:00-16:30

*Coffee break*

16:30-17:45

**Closing session**

*Chair: Mr William D. Magwood, IV  
NEA Director-General*

**Panel members:**

*Dr Jean-Christophe Niel, CNRA Chair*

*Dr Brian Sheron, CSNI Chair*

*Mr Michael Boyd, CRPPH Chair*

*Mr Lennart Carlsson, STG SCRB Chair*

- Findings and conclusions
- Outcomes and the way forward for the NEA programme of work

**Closing remarks**

*Mr William D. Magwood, IV  
NEA Director-General*

# Notes

---

# List of Restaurants close to the UICP

N° of plan	Name of restaurant	Type of food	Address
1	Hôtel Mercure	Traditional Cuisine  	20 rue Jean Rey
2	Castel Café	Traditional Cuisine  	5 av de Suffren
3	Le Bailli de Suffren	Traditional Cuisine  	7 av de Suffren
4	Ribe	Traditional Cuisine  	15 av de Suffren
5	Pacific Eiffel	International Buffet	18 av de Suffren
6	Le Beaujolais	Traditional Cuisine  	28 av de Suffren
7	Au ciel de Shanghai	Asian Food	33 av de Suffren
8	38 Eiffel	Traditional Cuisine  	38 av de Suffren
9	Le Beaupré	Traditional Cuisine  	40 av de Suffren
10	Sable Rouge	Fast Food	41 av de Suffren
11	Le Chamade Café	Traditional Cuisine  	42 bis av de Suffren
12	Le Rosco	Traditional Cuisine  	14 rue Desaix
13	De la Tour	Traditional Cuisine  	6 rue Desaix
14	Golden	Fast Food	17 rue Desaix
15	Luna	Italian Food	19 rue Desaix
16	Parc Eiffel café	Traditional Cuisine  	23 rue Desaix
17	Traiteur Kelly	Asian Food	23 bis rue Desaix
18	Chez Gustave	Traditional Cuisine  	56 rue de la Fédération
19	MILU Restaurant	Korean Food	62 rue de la Fédération
20	Pont de Seine	Traditional Cuisine  	1 bvd de Grenelle
21	Pizza Fiorantina	Italian Food	7 bvd de Grenelle
22	Fukushima	Japanese Food	17 bvd de Grenelle
23	Samaya	Lebanese Food	21 bvd de Grenelle
24	L'Atome café	Traditional Cuisine  	29 bvd de Grenelle
25	Di Napoli	Italian Food	31 bvd de Grenelle
26	Mabi	Korean Food	31 bvd de Grenelle
27	La Gitane	Traditional Cuisine  	47 bvd de Grenelle
28	Le Bistrot d'en Face	Traditional Cuisine  	24 rue du Docteur Findlay
29	Pizza Iolanda	Italian Food	105 quai Branly
30	DAWA	Korean Food	5 rue Humblot
31	Royal Rajasthan	Indian Food	8 rue Humblot

# Map with restaurant numbers

