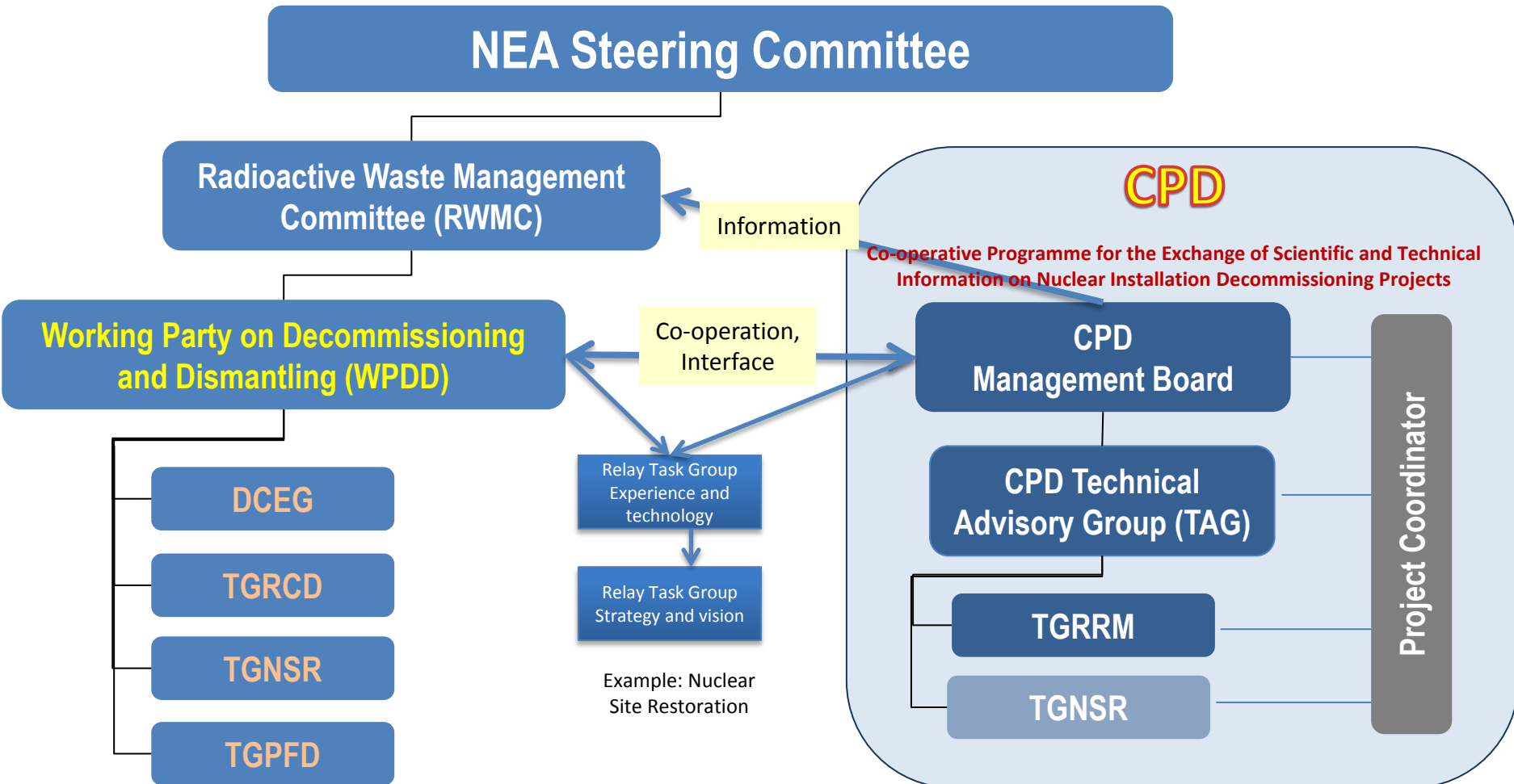


Decommissioning and Dismantling at NEA

Claudio Pescatore, PhD
OECD Nuclear Energy Agency

**#128: Roundtable – Working Party on Decommissioning and Dismantling
Key Activities and Findings
WM2015 – Phoenix, AZ – 19 March 2015, pm**

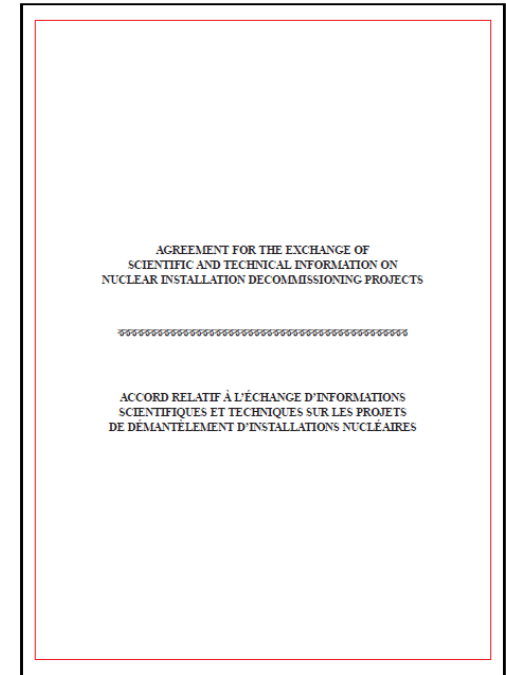
Decommissioning and Dismantling at NEA



CPD: 30 years of exchange of information

Co-operative Programme for the exchange of Scientific and Technical Information Concerning Nuclear Installation Decommissioning Projects

- Joint undertaking of 66 **decommissioning projects**. Great majority from NEA countries. **No policy maker or regulator**.
- The fundamental principle is that of sharing, i.e. “Give & Take” technical and scientific information. Each project provides funding for running the CPD.
- Confidentiality and funding assured by Agreement (access by protected password) **maintained**
- However, important interactions and synergies searched with WPDD (see the work on the Nuclear Site Restoration)



CPD: 30 years of exchange of information

66 Projects, 26 Organisations, 14 Countries + EC

- ✓ 38 NPP's and Research Reactors (26 cat. 1)
 - PWR, BWR
 - GCR, AGR, HTGR, VVER
 - FBR (sodium cooled)

- ✓ 25 Fuel Cycle Facilities (20 cat. 1)
 - Radio-chemical labs, fuel storage bay,
 - Reprocessing facilities
 - Fuel material plants

- ✓ Chinshan NPP 1&2 project has been recently added and Danish Decommissioning accepted
- ✓ Russian Bochvar Institute is already in the pipeline of affiliation
- ✓ Other new entries are expected soon



The WPDD

- Working Party on Decommissioning and Dismantling (WPDD)
- A discipline-oriented group of the Radioactive Waste Management Committee (RWMC)
- Composed of nominees from NEA Member countries with responsibility, overview, and/or experience in the field of decommissioning.

The WPDD

- The WPDD takes advantages of a mixed regulator/ implementer/ R&D/policy membership
- It operates at a strategic and policy level: it observes which are the emerging issues, provides an overview of the status of the art and, also, works to advance the issues.
- The WPDD has a number of technical subgroups

WPDD

Decommissioning Cost Estimation Group (DCEG)

- Since 2008
- Extended mandate till 2016
- Members: ~45 (16 countries)
- DCEG Core Group
- **Current focus:** uncertainties in decommissioning cost estimations

Publications: 5 (+1)

Expert Group
on Uncertainties
(joint WG with IAEA)
(DCEG-EGU)

Task Group on Radiological Characterisation and Decommissioning (TG-RCD)

- Since 2011
- Extended mandate till 2015
- Members: ~15 (8 countries)
- **Current focus:** strategies for optimisation of characterisation in a waste and materials end-state perspective

Publications: 1

Task Group on Nuclear Site Restoration (TG-NSR)

- Since 2014
- Mandate till 2015
- Members: ~25 (11 countries)
- **Focus:** recommendations to consider in the development of strategies and plans for site remediation

Task Group on Preparation for Decommissioning during Operation and after Final Shutdown

- Launched in March 2015
- Mandate till 2017
- Members: ~15 (10 countries)
- **Focus:** optimisation of activities and measures with regard to preparation of the dismantling

Former Task Groups:

- Task Group on the **Decommissioning Safety Case**
- Task Group on **Release of Materials, Buildings and Sites**
- Task Group on **Large Components**
- Task Group on **Funding**
- Task Group on **Strategy Selection**
- Task Group on **Future R&D and Innovation Needs for Decommissioning**

Future Topics

Topics raised at latest WPDD meeting (to be discussed in future):

- Decommissioning strategies: Deferred Decommissioning, slow dismantling, safe storage
- Reuse of Nuclear Sites after Decommissioning
- Graphite management and disposal
- Disposal of hazardous (chemical), low radioactive substances

Planned Topics in the work programme

- Waste management logistics for decommissioning
- Organisational aspects of decommissioning
- Knowledge and record management
(knowledge & experience retention and transfer; training & education; record keeping)
- Decommissioning in harsh and atypical conditions
(transfer of decom experience from facilities after accident to normally operated ones)

Next meeting (WPDD-16):

- 23-25 November 2015 (3 days) at NEA Offices, Issy-les-Moulineaux
- Topical Sessions to be defined

Conferences / Workshops / Symposia

NEA Co-Organisation:

- "Decommissioning of Nuclear Facilities: Strategies, Practices and Challenges" (Russian Federation) **10-12 Nov 2015**
- IAEA-NEA Conference "Advancing the Global Implementation of Decommissioning and Environmental Remediation Programmes" (Madrid, Spain) **23-27 May 2016**

NEA Organisation:

- „Preparation of Nuclear Facilities for Decommissioning“ (working title)
(Lyon, France) **16-18 Feb 2016**

Example recent publications

In press	The Practice of Cost Estimations for Decommissioning of Nuclear Facilities
2014	Guide for International Peer Reviews of Decommissioning Cost Studies for Nuclear Facilities
2014	Nuclear Site Remediation and Restoration during Decommissioning of Nuclear Installations. A report by the NEA Co-operative Programme on Decommissioning (CPD)
2014	R&D and Innovation Needs for Decommissioning Nuclear Facilities
2014	Sourcebook of the IAEA, EC and NEA References in Decommissioning – February 2014

Thank you