

WORKING GROUP ON RADIOLOGICAL PROTECTION ASPECTS OF DECOMMISSIONING ACTIVITIES AT NUCLEAR POWER PLANTS (WGDECOM)

Ignacio Calavia (icg@csn.es)
Consejo de Seguridad Nuclear, Spain
WGDECOM Vicechairman

ISOE European Symposium, Upsala 2018

BACKGROUND

WGDECOM was created in 2015. Terms of Reference can be found on:

<http://isoe-network.net/decommissioning/wgdecom/2891-wgdecom-terms-of-reference/file.html>

The working group will report regularly to the ISOE Management Board and will identify:

- the areas of operational RP for NPPs planning Decommissioning or in the process of decommissioning that are most relevant for effective management of occupational exposure;

The working group will report regularly to the ISOE Management Board and will identify:

- the operational data that can be collected through the ISOE databases in order to suggest trends and aspects that can be studied and used for benchmarking as a starting point for more in-depth analyses;

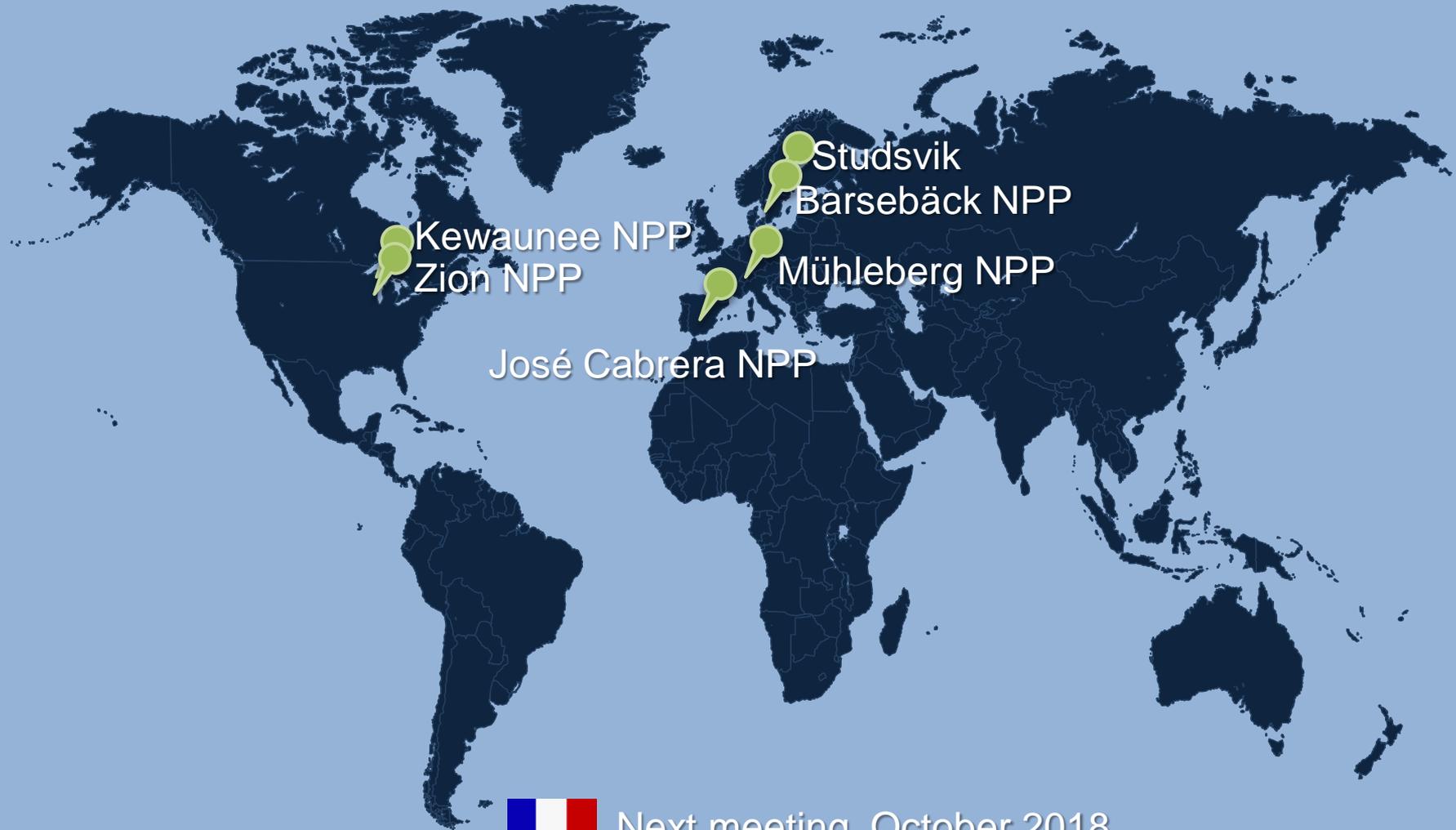
The working group will report regularly to the ISOE Management Board and will identify:

- a network of operational RP experts at NPPs who are planning decommissioning or who are in the process of decommissioning for the ISOE Management Board to see how they can be integrated into the ISOE programme to effectively exchange occupational exposure management experience;

The working group will report regularly to the ISOE Management Board and will identify:

- factors and aspects that play key roles in achieving good practices in decommissioning (knowledge and institutional memory, experience, technology, regulatory requirements and guidance, worker involvement, information exchange and networking, radioactive low and medium level waste management, etc.), and analysing and quantifying their possible impact on occupational doses.

WGDECOM MEETINGS



Next meeting, October 2018

WGDECOM ACTIVITES (2015-2017)

Milestones so far:

- Programme of Work (rev. 1 & rev. 2) (<http://isoe-network.net/decommissioning/wgdecom/3410-wgdecom-programme-of-work/file.html>)
- Benchmarking template
- RP decommissioning experts database
- Agreement on the basic shape and features of the future database
- Collaboration with various WPDD task groups

WGDECOM ACTIVITIES (2015-2017)

Benchmarking template:

- Information from the plant, including operational data, staffing, etc
- Most of the information included here won't likely change during decom.
- Provides context information about the plant.

WGDECOM ACTIVITIES (2015-2017)

14.0		RP Training Strategies Changes/Modifications through D&D phases		
14.1	Radiation protection Support Staff		YES	
14.2	Workers Radiation Selfprotection approach			
14.3	Number of Level of Qualification			
14.4	Upgrading training for internal contamination		YES	
15.0		Buildings Dormancy Strategy		
15.1	Cold and Dark			
15.2	Warm and Dim			
15.3	Mixed Scenarios			
15.4	Methodology			
15.5				
16.0		Alpha Monitoring/Dosimetry		
16.1	Baseline surveys bioassays for incoming workers		YES	
16.2	Surveys during work only and dose calculation if needed			
16.3	Fuel Failure Experience			
16.4	Random Bioassay Sampling		YES	
16.5	Bioassy Type Description		URINE 24 H	
17.0		Emergency Preparedness		
17.1	Number of people required		7	
17.2	Meteo Tower still required		YES	
17.3	Online monitoring/Survey		YES	
17.4	On site / Off site		ON SITE	
17.5	Simplified Dose calculation System			
17.6				
17.7				
18.0		Environment Monitoring		
18.1				
18.2	Radiological Control Release Criterias for Land		YES	
18.3	Effluent Monitoring (Liquid and Gaseous)		YES	
18.4				
18.5				

WGDECOM ACTIVITIES (2015-2017)

Radiation protection experts in decommissioning database:

- Template with contact information and agreement form created.
- Contains relevant experience of the contact
- Hosted and maintained by ISOE

WGDECOM ACTIVITIES (2015-2017)

Radiation protection experts in decommissioning database:

Personal Information			
*Name of Person:			
Availability Days and Timeframe:			
Time Zone:			
*Language(s):			
*Contact Preference: (fill in one or if no preference fill in both)			
*EMAIL:		*PHONE:	
Company / Organisation:			
Site Name:		Unit:	Reactor Type:
Current Job / Position:			
Link to professional profile: LinkedIn, etc.			
*Area(s) of expertise:			
	Decommissioning and Dismantling (D&D)		RP Training Strategies Changes/Modifications through D&D phases
	RP Characterization Strategy (ex. Radiological Control Area (Zones changes))		Buildings Dormancy Strategy
	Rad Material Shipping and Handling		License Termination/Transfer Scenarios
	Waste management (for example : Chemistry Control Operating Experience)		Emergency Preparedness
	Spent Fuel Management (ex. Dry, wet Fuel Storage)		Environment Monitoring
	RP Programme changes / transition		Doses Monitoring/Control
	None		Alpha Monitoring/Dosimetry

WGDECOM ACTIVITES (2015-2017)

Future operational dose database:

- Review of previous task groups on the same subject
NEA/CRPPH/ISOE(2011)XXX

Basic features agreed upon:

- Use the existing infrastructure as much as possible (implies the use of standardized forms for data collection)
- Provide context alongside operational dose data
(Benchmarking template plus other relevant information).

Previous attempts

WGDA Task Team on Decommissioning (2006-2011):

- Simplified standard list of tasks.
- Report on completed works.
- "Influencing parameters", that comprise the following:
 - Dose rate fields and contaminations: Initial overview of the radiological inventory, dose rates, waste treatment systems available, etc
 - Conduct of decommissioning activities: Parameters that can influence the collective exposure. (lessons learned and best practices should come from here)

WGDECOM ACTIVITIES (2015-2017)

WPDD task groups collaborations:

- Review the TGRCD (Task Group on Radiological Characterization for Decommissioning) to identify if the initial strategies are adequate to provide the required RP information.
- Provide input to the TGPFDD (Task Group for Preparing for Decommissioning)
- Provide input to the TGOM (Task Group on Optimising Management of low level radioactive materials and waste from decommissioning)

CONCLUSIONS AND CHALLENGES

Conclusions:

- There is a need for an operational experience exchange system as well as on radiation protection in decommissioning.
- The data collection during the active dismantling phase is crucial.

Challenges:

- Include the new stakeholders into the nuclear scene.
- Develop standards for data collection.

Thank you