

# MANAGEMENT OF REFUELING OUTAGES

19<sup>th</sup> – 21<sup>st</sup> September 2023, Hotel “Sol Port Cambrils, Spain

**The Workshop is organised by WANO Paris Centre in collaboration with and hosted by ANAV, Spain.**

## Background

Refuelling outage periods face particular challenges for any nuclear power plant with a high number of maintenance activities and a high number of external resources at the plant. Complex tasks must be coordinated to perform the maintenance, assure employee’s safety and to ensure long-term component and plant reliability. How to control the scope; how to assess the risks and decide in complex and changing situations, how to manage the configuration of all systems under a complex environment involving numerous concurrent activities, and how to make sure that systems are returned to their valid configuration before the plant restarts power operation. Such questions will be discussed within the workshop. The workshop will be performed with the support of INPO.

## Objectives

The workshop provides a platform for experience exchange for the WANO members about their situation and strategies in refueling outage management. It should give the opportunity to learn from each other how to improve the management of refueling outages.

## Topics

The workshop focuses on the Refuelling outage management and covers the following:

- OUTAGE ORGANIZATION AND MANAGEMENT
  - Knowledge management and Outage staff training
  - Contractor relations
- OUTAGE PLANNING AND PREPARATION:
  - Outage scheduling, Planning modifications, last minute changes
  - Resources mobilisation (human, materials and equipment)
  - Risk analysis
- OUTAGE EXECUTION
  - Readiness and handover of systems
  - Information transfer / communication
  - Decision making and risk assessments
  - Scope control process, Handling of deviations, rescheduling, Outage extensions
  - Configuration control during outage
- OUTAGE REVIEW

- Outage OPEX, lessons learnt, event analysis, outage safety reviews and continuous improvement

### Break-Out Sessions

- Breakout sessions or group work will be used to allow time for structured interaction with colleagues and to identify potential improvements for their organisations and to get insights in experienced and implementations.
- Each working group will be invited to develop lessons learned summary and to present their findings to all attendees.

### Target group

The workshop is open for all WANO PC members. Through sharing information, WANO and member presentations, each delegate is asked to take away improvements to adapt and implement at the own station.

Participants will be invited to share their experience on this topic.

### Pandemic precautions

If required, necessary precautions to minimise the risk of virus spread will be communicated later according to the Spain national, Vandellos NPP and WANO policies applicable at the time of the workshop.

### Arrival and Departure

Participants should arrive at the venue before 08:00 on 19<sup>th</sup> September 2023 morning. However, it is advised that participants arrive on the evening before on the 18<sup>th</sup> September 2023. There will be a well-come dinner at the Hotel on the 19<sup>th</sup> September 2023 in the evening. The workshop will be finished on the 21<sup>st</sup> September at 12:30. There is the possibility to visit the NPP Vandellos for a guided tour in the afternoon of the 21<sup>th</sup> June. Participants need to register for the plant tour within the registration for the workshop.

## INFORMATION

### Workshop / Seminar language

The workshop / seminar language will be **English**.

### Register on-line

Registrations should be completed online before **26<sup>th</sup> August 2023** at the following

web address:

[www.wanopariscentreregistrations.com](http://www.wanopariscentreregistrations.com).

A confirmation letter will be sent to each participant following his or her registration. The number of participants is limited to 30.

## Presentations

Participants are welcome and encouraged to give a 15 minute presentation including own experience. Please, indicate this when registering. The power-point presentations (in English) need to be sent to WANO Paris Centre organising team by e-mail (details below) until the **26<sup>th</sup> August 2023** to ensure timely preparation of the workshop presentation package.

## Venue

The workshop will be held at, **Hotel Sol Port Cambrils**. *Rambla Regueral, 11  
43850 Tarragona – Cambrils, Spain.*



## Accommodation

WANO has made a group reservation at, **Hotel “Sol Port Cambrils, Spain.’** *No direct calls with the Hotel, the only accepted bookings is thru the registration link provided’* which is also the workshop venue. The negotiated rate around **76.00 € per double room single use b&b and per day + City Tax 1, 32€**, which must be paid by each participant directly at the hotel.

## Transportation

Barcelona has two airports **Barcelona-El Prat Airport** and **Reus**, (12 km) and a **central train**.

Details can be provided by registration.

## Workshop / Seminar package

There is no fee for the workshop/ seminar package. WANO and the hosting organisation will cover the costs for the full workshop documentation, refreshments, lunches, and get-together.

## Dress Code

Business Casual

## Cancellation policy

Participants who cannot attend the seminar (after registration), please inform us as soon as possible.

**Late cancellations and ‘no-shows’ might result in a cancellation fee from the venue. This fee will be charged to the attendee or their Company.**

## Organising team

For further information, please, contact the Organising team in WANO Paris Centre:

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