
TECHNICAL ANALYSIS, ROOT CAUSE IDENTIFICATION AND CORRECTIVE ACTIONS

25 - 27 March 2025, Asco/Vandellos NPPs, Spain.

The Workshop is organised by WANO Paris Centre in collaboration with ANAV

Background

Deep and comprehensive technical analysis is a key point to investigate failure mechanism and its root cause for all unanticipated failures to prevent their recurrence, and then corrective actions put in place to improve equipment reliability. Correct identification of root cause contributes to decreasing of repeat events. Root causes can cover technical, organization and behavioral issues. In-depth and correct identification of these aspects is the key to ensure development of effective corrective actions.

This is also in line with the conclusion of the WANO Engineering Fleet Analysis Report (RPT-Engineering Fleet Analysis Report v.2.0) performed for Peer Reviews delivered in 2016-2022 period where weaknesses in cause analysis of component failures were recognized as one of the reasons of Engineering gaps for excellence. Not completely clear or understood requirements and standards for root cause identification of technical failures were also mentioned in the fleet analysis. It's also in align with the last WANO Engineering investigation that discovered 33 % of AFIs of PRs performed in 2023 and 28 % of Engineering events for 2022-2024 were due to shortfalls in technical and risk analysis.

Objectives

The main objective of this workshop is to deliver the participants knowledge and confidence to execute comprehensive technical analysis, identify correctly root causes of the equipment failures and develop effective corrective actions. It should give an understanding how to improve the quality of technical analysis and facilitate their investigation. The workshop will share experience of the WANO members and deliver proposals to enhance solution effectiveness.

Topics

The workshop focuses on strengthening the technical analysis and covers the following:

1. Improvement of technical analysis quality and identification of root cause analysis (RCA):
How do you choose the right tools to analyse the appropriate events (screening, event causal factor charts, Whys questions, etc.)?

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2. Addressing of human organizational factors (HOFs) in performing technical analysis: How do you decide if the RCA is complete and deep enough (question attitude, avoidance of engineering judgment).
 3. Justification of vendors' analysis: How to challenge/confirm vendors' analysis (independent review).
 4. Corrective action effectiveness: How do you define, select and implement the most important actions to ensure that all actions are SMART?

There is space for presentations by members, each for 30 minutes.

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.

Arrival and Departure

Participants should arrive at the venue before **08:00 on 25th March 2025** morning. However, it is advised that participants arrive on the evening before on the **24th March 2025**. There will be a well-come dinner at the Hotel on the **25th March 2025** in the evening. The workshop will be finished on the **27th March at 12:00**. In the afternoon there is the possibility to have a plant visit to Asco NPP.

INFORMATION

Workshop / Seminar language

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

Register on-line

Registrations should be completed online before **21st February 2025** at the following web address:

www.wanopariscentreregistrations.com.

A confirmation email 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 30-minute presentation about own specific experience as mentioned above. 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

10th March 2025 to ensure timely preparation of the workshop presentation package.

Venue

The workshop will be held at,
Training Centre

Vandellos/Asco NPP Unit I & II

Bus Transfers morning and evening from the hotel to the Training Centre will be provided.



Training Centre Vandellos/Asco NPP Unit I & II

Accommodation



Hotel Hostal Sport

T.: +34 977 830 078

www.hotelpriorat-hostalsport.com

WANO has made a group reservation at, **Hotel Hostal Sport**, *'please do not perform direct calls with the Hotel, the only accepted bookings are through the registration link provided'* The negotiated rate is from **135€** room per night for a room single double use breakfast included and per day, which has

to be paid by each participant directly at the hotel.

INFORMATION

Transportation

The nearest airport: Barcelona International Airport BCN/ El Prat airport., is 12 km (7.5 mi) southwest of Barcelona. The costs for the flights are borne by the participants. A bus transfer will be provided from the airport to the hotel on **Monday, 24th March** and for the return on **Thursday, 27th-March** (time and meeting point to be scheduled). In the afternoon there is the possibility to have a Plant Tour, therefore the departure for the transfers will be on **Thursday 27th March** around **15:00**. Please, let us know with the registration if you want to use the bus transfer and send us your flight information.

Details can be provided through 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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