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# Nuclear Safety and Performance Assessment

## Summary

This policy provides the overall requirements and principles associated with the WANO Nuclear Safety and Performance Assessment. At the WANO BGM in Shenzhen China in 2011, the WANO membership endorsed recommendations of the WANO Post-Fukushima Commission. One of these recommendations was to develop an assessment process of plant performance following completion of Peer Reviews. The text of the recommendation is:

“Each WANO member station receiving a peer review should have an assessment assigned that captures the overall nuclear safety risk represented by the peer review report. This will be done once WANO has developed and implemented methodology that ensures a level of consistency in quality is achieved to make such an assessment meaningful in all WANO regions. This assessment will not be published or made public, but will be shared with all WANO member CEOs at the executive session of each WANO BGM.”

The requirements of this policy fulfil this recommendation.

## Purpose of the NSPA

The NSPA is intended to provide an overall classification of plant performance following completion of a peer review. This assessment is used to detect overall trends in a station’s operational performance over time. This information will be useful to members to understand their own performance relative to excellence in the global nuclear industry and can be utilized by WANO as one input to identification of plants where additional focus and resources should be applied to improve performance.

## Scope

The NSPA will be performed for Power Reactors of members. Those nuclear facilities of members that are not Power Reactors (such as reprocessing facilities, test facilities, or commercial propulsion reactors) may have NSPA performed with the agreement of the member and the Managing Director.

## Principles

* + 1. Based on current objective information

For the NSPA classification to be credible, they must be based on current, credible inputs. The inputs are a combination of quantitative and qualitative information. As a result, the NSPA will be performed in the time period following the Regional Centre review of peer review results and before the Exit Meeting with the utility.

* + 1. Assessments are Normalized Globally

To provide a member useful information regarding their performance relative to the global nuclear power industry, the NSPA must be determined in a manner that assures consistency across regional centres. This principle results in a number of necessary elements for the process as follows:

1. The final endorsement of a station assessment will be performed by the WANO Managing Director in consultation with Regional Centre Directors and staff.
2. The same inputs will be used in each region for determination of the assessment of each station.
3. Processes that provide input to the NSPA will be managed by WANO to a consistent level of quality and standardization.
   * 1. Inputs are Operationally Focused

The NSPA is focused on operational performance of member facilities. The NSPA is not intended to weigh the inherent design features of one station against another; rather it is intended to be an assessment of how effectively a member is conducting all operational activities at a station. As a result, the following information will be used as inputs to the Assessment:

1. The results of the Peer Review just performed. This includes all products from the peer review that will be contained in the report provided to the utility (with the exception of station responses and action plans)
2. A review of Plant Performance Indicators that are reported through the WANO Performance Indicator Programme.
3. A summary and analysis of plant events reported to WANO per the WANO event reporting criteria, augmented by information regarding plant operating events gathered as part of the Peer Review process.
4. The effectiveness of station in addressing the recommendations of WANO Significant Operating Experience Reports as determined through the Peer Review process.
   * 1. Confidentiality

The NSPA classification for a particular station represents the most confidential information that is developed by WANO. The highest levels of information security will be applied to the development, communication, use, and storage of the assessment information. The following basic requirements will be applied:

1. The NSPA determination will be shared directly and privately with only the CEO of the utility by the WANO Managing Director or a WANO executive staff member representing the WANO Managing Director.
2. Processes will be developed for the security of documents and electronic information associated with NSPA results. Security will be assured thought a combination of the following:
   1. Minimization of retained information
   2. Strict limitation of staff with access to retained information
   3. Strict control of access (physical and electronic) to retained information and physical protection of hardcopy information
   4. Secure backup of retained information
   5. Periodic assessments and challenges to the information security protocols
3. NSPA results will be shared with industry CEO’s by the WANO Managing Director in a closed session at each BGM
4. Members will be strictly prohibited from sharing their individual assessment in the public arena, but are permitted to share the results within their organization as the CEO considers appropriate.

## Implementation

Responsibility for implementation of this policy rests with the London Office. Implementing guidelines or procedures will be developed by the London Office. Regional Centres will perform activities aligned with those procedures. Regional Centre autonomy will not be permitted in this WANO activity.

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Revision History

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| * + 1. Author | * + 1. Date | * + 1. Reviewer | * + 1. Approval |
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| * + 1. Reason for Changes: | | | |