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| C:\Users\tarykin\Desktop\LOGO-Full Wording-P301.jpg | **Moscow Centre** **World Association of Nuclear Operators****WANO MC**Russia, 109507, Moscow, 25 Ferganskaya Str.Tel.: +7 495 376 15 87Fax: +7 495 376 08 97info@wanomc.ru |

**REQUEST**

**to provide technical and organisational information**

**via WANO**

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| 1. NPP/Organisation: Kozloduy NPP EAD
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| 1. Request subject: Application of the pneumohydraulic aquarium method (PAM) at Kozloduy NPP to determine the leak tightness of the steam generator headers and heat-exchanging tubes between the reactor coolant system and the secondary circuit.
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| 1. Request objective: Receive information on the topic from other plants.
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| 1. Issue description: The pneumohydraulic aquarium method is performed to control the steam generator heat-exchanging tubes leak tightness. Preparation activities for and the actual performance of the pneumohydraulic aquarium method takes approximately 24 hours (or more).
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| 1. Specific questions:

1. What are the criteria and the parameters that necessitate performance of the pneumohydraulic aquarium method?2. Do you perform PAM each year and, if you do, how many steam generators do you test?3. Considering the large number of maintenance activities and operations, at which stage of the outage do you perform PAM on the steam generators? Before or after the eddy current testing (ECT)?4**.** What is the minimum time required to perform PAM?5. What is the maximum pressure for performing PAM? Why?6. What is the maximum permissible pressure increase rate in the steam generator when performing PAM? How is it determined? |
| 1. Suggested organisations to receive this request:

WANO - MC  |
| Administrative unit – request initiator: Kozloduy NPP |
| 1. Contact details of the request initiator: Head of Reactor Equipment Operations Section, phone +359 973 7 3825
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| 1. Date of request: Feb 8th, 2022
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Responsible person Veselin Nikolov, Contact person with WANO Name, surname

Responsible person

Name, surname

Telephone