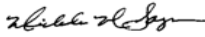




UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

March 8, 2024

MEMORANDUM TO: Tania Martinez-Navedo, Director (Acting)  
Division of Engineering and External Hazards  
Office of Nuclear Reactor Regulation

FROM: Michele Sampson, Director  Signed by Sampson, Michele  
Division of Engineering on 03/08/24  
Office of Nuclear Regulatory Research

SUBJECT: RESEARCH INFORMATION LETTER (RIL) 2024-02,  
"PROCEEDINGS OF THE WORKSHOP ON CONDITION  
MONITORING AND STRUCTURAL HEALTH MANAGEMENT  
FOR NUCLEAR POWER PLANTS

Enclosed for your information and use is Research Information Letter (RIL) 2024-02, "Proceedings of the Workshop on Condition Monitoring and Structural Health Management for Nuclear Power Plants." This workshop was in response to research assistance request NRR-2023-023, "Condition Monitoring of Mechanical Systems" dated July 26, 2023. The staff intends to move forward with posting this document on NRC's RIL public [website](#) 14 days after the date of this memo.

The Office of Nuclear Regulatory Research held a virtual public workshop on Condition Monitoring and Structural Health Management for Nuclear Power Plants on November 28-29, 2023. The two-day workshop included four technical sessions with 20 presenters for a wide range of domestic and international organizations. The workshop was well attended with approximately 200 attendees. The objectives of the workshop were to:

1. Gain a better understanding of industry activities and perspectives with respect to the application digital twin enabling technologies and prognostic tools for condition monitoring of nuclear power plant components.
2. Facilitate the exchange of knowledge and research activities on topics such as on-line monitoring techniques, predictive maintenance, structural health monitoring, diagnostic and prognostic health management.
3. Become aware of these enabling technologies and how these technologies could be used for life cycle management of plant components.

Please notify the responsible staff contact if you have any questions concerning the impending publication of this report.

Enclosure:

1. RIL 2024-02

CONTACT: John Matrachisia, RES/DE/REB  
301-415-4042

NRC Condition Monitoring Workshop Proceedings DATE March 8, 2024

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DATE	Mar 5, 2024	Mar 5, 2024	Mar 8, 2024	

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