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H-211

MAINTENANCE PRODUCTIVITY AIDS FOR REACTOR COOLANT AND RECIRCULATION PUMP SEAL MAINTENANCE

Keywords: MAINTENANCE; PRODUCTIVITY; COMPUTER PROGRAMS;
HUMAN PERFORMANCE

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Objectives: To demonstrate the effectiveness of using electronic technology for making and recording measurements during maintenance tasks.

Comments: Conventional methods used for seals maintenance on reactor coolant and recirculation pumps are time-consuming and error-prone. Advances in electronic technology for assisting in such tasks offer promise of improving maintenance productivity by speeding the task and by reducing the chance for errors that lead to uncertainty and rework. EPRI/CRIEPI's Automated Measurement and Data Recording System (AMDRS) demonstrates the viability of the concept of electronically making and recording fine-tolerance measurements during such maintenance tasks.

Potential for dose limitation: The results of the tests showed time savings and reduced errors in making measurements. While the time for measurement was cut approximately in half, the more-significant result was the virtual elimination of errors from a level of approximately 15% when performing the task using the manual tools and recording on paper. An important conclusion is that AMDRS technology will yield dose saving when it replaces existing paper procedure handling.

References: EPRI TR-103356, Final Report, December 1994

Duration: from: 1992 to: 1994

Funding: N/A

Status: Completed

Last Update: March 30, 1995