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INFRARED THERMOGRAPHY GUIDE (REVISION 2)

Keywords: OPERATIONS AND MAINTENANCE; NUCLEAR POWER; INFRARED THERMOGRAPHY; FOSSIL FUEL POWERPLANTS; PREDICTIVE MAINTENANCE

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Objectives: To develop a guide that provides a consistent approach for using IR (Infrared Thermography) as a predictive tool.

Comments: Costly equipment outages can be reduced by implementing a comprehensive predictive maintenance program. Infrared thermography (IR), a fundamental component of such program, uses nonintrusive techniques to monitor the operating condition of equipment and components. It has proved to be an effective predictive maintenance and diagnostic tool. To broaden the range of IR applications, EPRI sponsored development of a guide that would address IR diagnostic capabilities. This guide was originally published in 1990 and is being revised to incorporate user input and to update information on IR equipment and vendors.

Potential for dose limitation: This guide, which provides a compendium of information rather than definitive standards, describes IR theory, summarizes existing and potential IR application, and offers technical information necessary for developing an effective in-house IR program. This revision also provides updated information on commercial infrared sensing and imaging instruments including additional information on qualitative and quantitative focal plane array system.

References: EPRI NP-6973-R2, Final Report, February 1995.

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