

March 29, 2016

MEMORANDUM TO: John D. Monninger, Director  
Division of Safety Systems and Risk Assessment  
Office of New Reactors

FROM: Richard P. Correia, Director */RA/*  
Division of Risk Analysis  
Office of Nuclear Regulatory Research

SUBJECT: RESPONSE TO RESEARCH ASSISTANCE REQUEST TO  
DEVELOP A SCOPING STUDY ON HEAT-INDUCED SPURIOUS  
SIGNAL/ACTIONS ON DIGITAL EQUIPMENT

The Office of Nuclear Regulatory Research, Division of Risk Analysis (RES/DRA) is pleased to accept your research assistance request, dated February 25, 2016. The request is available in the Agencywide Documents Access and Management System (ADAMS), under Accession No. ML16055A055, and has been designated as NRO-2016-002-RAR for tracking purposes. RES/DRA will provide, on a limited basis, an independent evaluation of the validity and possibility of a spurious signal/action for digital equipment due to a fire or heat environment. This will be accomplished by conducting a literature review and interviewing representatives from industries that use critical digital safety systems.

Specifically, the Office of Nuclear Regulatory Research, Division of Risk Analysis (RES/DRA) will provide technical assistance to complete the work as per the scope specified under the task heading in the enclosed outline. To support the medium priority of the request, RES/DRA agrees to complete the work approximately four months from the date of the request and to adhere to the schedules under the task heading in the enclosed outline. RES/DRA agrees that 0.2 FTE and no contract resources will be needed to complete this work.

This work has been chosen to be part of a RES pilot program to enhance the tracking, reporting, and management of research projects conducted at the NRC. The inclusion of this work in the pilot program will not interfere with the completion of deliverables in the schedule enclosed.

Enclosure:  
As stated

CONTACT: Gabriel Taylor, RES/DRA  
(301) 415-0781

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**ADAMS Accession No.: ML16082A544**

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