MEMORANDUM TO: Sunil Weerakkody, Section Chief

Fire Protection Engineering and Special Projects

Plant Systems Branch

Division of Systems Safety and Analysis Office of Nuclear Reactor Regulation

FROM: Mark H. Salley, Team Leader /RA/

Fire Research Team

Probabilistic Risk Analysis Branch Division of Risk Analysis & Applications Office of Nuclear Regulatory Research

SUBJECT: TRANSMITTAL OF THESIS "AN EXAMINATION OF THE METHODS AND

DATA USED TO DETERMINE FUNCTIONALITY OF ELECTRICAL CABLES WHEN EXPOSED TO ELEVATED TEMPERATURES AS A RESULT OF A FIRE

IN A NUCLEAR POWER PLANT."

The purpose of this memorandum is to respond to your April 29, 2005 request to have the thesis entitled "An Examination of the Methods and Data Used to Determine Functionality of Electrical Cables When Exposed to Elevated Temperatures as a Result of a Fire in a Nuclear Power Plant" made publicly available. While this work is greater than 5-years old, it still provides a good introduction to the subject matter. This document investigates the functionality of critical electrical cables when exposed to an unwanted fire in a commercial nuclear power plant and should provide a useful educational tool for licensees and others who may need a better understanding of how cables perform when subjected to high-temperatures. The report can be accessed in ADAMS at ML051430552. If you require any additional information, please contact me at (x-2840).

Attachment: As stated

May 25, 2005

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^{*} See previous concurrence