

July 24, 2002

Mr. Phil Tarpinian - Risk Management Engineer
Limerick Generating Station
Evergreen & Sanatoga Rds
Pottstown, PA 19464

Dear Mr. Tarpinian:

Per your request, enclosed is a compact disk containing the Level 1, Revision 3 Standardized Plant Analysis Risk (SPAR) model for Limerick 1 & 2 and the SAPHIRE 6.75 suite of probabilistic risk assessment (PRA) computer codes. Also enclosed is a copy of the user's manual for the Limerick 1 & 2 SPAR model. The SAPHIRE code suite is required to perform analyses with the Revision 3 SPAR model. Both of these software packages are in the form of executable files that can be run directly from the compact disk. These items are for your organization's use only and are not to be distributed further without the consent of the NRC. Also please note that the information contained in the SPAR model is considered sensitive and should be treated accordingly.

These software packages are provided to facilitate your participation in the Mitigating System Performance Index (MSPI) Pilot Program being conducted by the NRC's Reactor Oversight Process. The Revision 3 SPAR model for Limerick 1 & 2 has been reviewed with your PRA staff and benchmarked against your PRA model for the plant. Subsequent to this review and benchmarking, the SPAR model: (1) was revised to address comments and issues identified during the review, (2) now yields results which are in reasonable agreement with those produced by your PRA model, and (3) has no associated outstanding modeling issues. For these reasons, we are certifying that the Limerick 1 & 2 SPAR model meets all Revision 3 SPAR model quality assurance (QA) criteria and is therefore acceptable for unrestricted use by your staff analysts.

Questions about the model should be directed to Mr. Robert Buell of the Idaho National Engineering and Environmental Laboratory (INEEL) at (208) 526-9400 (rbuel@inel.gov). Questions about the SAPHIRE code suite should be directed to Mr. Ted Wood, INEEL, at (208) 526-8729 (stw@inel.gov). Comments and suggestions may also be directed to either of these gentlemen or to Dr. Patrick O'Reilly, NRC project manager for SPAR model development, at (301) 415-7570 (pdo@nrc.gov).

If you are interested in receiving on-going technical support for SAPHIRE, you are invited to join the SAPHIRE Users' Group. Mr. John Schroeder, INEEL, at (208) 526-8755 (roe@inel.gov) can provide more details about the group and the services offered.

Due to the potential sensitivity of the information contained in the Enclosures, they are not publicly available.

Sincerely,

Original Signed By

Scott F. Newberry, Director
Division of Risk Analysis and Applications
Office of Nuclear Regulatory Research

Enclosures: As stated

cc: C. Gratton, NRR/LPD1

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REMARKS Letter to Mr. P. Tarpinian - Per your request, enclosed is a compact disk containing the Level 1, Revision 3i Standardized Plant Analysis Risk (SPAR) model for Limerick 1 & 2 and the SAPHIRE 6.75 suite of probabilistic risk assessment (PRA) computer codes. Also enclosed is a copy of the user's manual for the Limerick 1 & 2 SPAR model.					
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