

June 4, 2018

MEMORANDUM TO: Dennis C. Morey, Chief
Licensing Processes Branch
Division of Licensing Projects
Office of Nuclear Reactor Regulation

FROM: Joseph A. Golla, Project Manager */RA/*
Licensing Processes Branch
Division of Licensing Projects
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF MAY 9, 2018, PUBLIC PHONE CALL WITH
GENERAL ELECTRIC-HITACHI REGARDING AN ISSUE WITH
THE GENERAL ELECTRIC-HITACHI GESAM COMPUTER
PROGRAM

On May 9, 2018, the U.S. Nuclear Regulatory Commission (NRC) staff held a public telecom with representatives of General Electric-Hitachi (GE-H) to discuss an issue with GE-H's GESAM Computer program. GESAM is an engineering computer program that performs the Monte Carlo statistical analysis. It was discovered that the GESAM program incorrectly reseeded the pseudo-random number generator (PRNG) with a returned random number. Two plants were affected in that their safety limit minimum critical power ratio (SLMCPR) increased slightly resulting in a rounding up. The increases were not significant with respect to margin of safety. GE-H corrected the error in GESAM in March 2018. More information may be accessed from the Agency Documents Access and Management System (ADAMS) at Accession No. ML18135A083. The NRC staff discussed the issue with representatives of GE-H and concluded that no issue exists.

No members of the public provided any comment(s) during the call.

Meeting participants are listed in the enclosure.

CONTACT: Joseph A. Golla, NRR/DLP/PLPB
301-415-1002

Enclosure:
Attendees List

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NAME	JGolla	SKrepel	DMorey	JGolla
DATE	5/30/2018	5/30/2018	6/1/2018	6/4/2018

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**NRC Public Telecom Attendance
Issue with GESAM Computer Program**

May 9, 2018

James Harrison	GE-H
Charles Lamb	GE-H
Jerry Head	GE-H
Jonathan Chavers	Southern Co.
Curt Robert	GE-H
Jennifer Whitman	NRC
Robert Lukes	NRC
Ben Parks	NRC
Muhammad Razzaque	NRC
Joe Golla	NRC