

May 5, 2004

MEMORANDUM TO: Stephen Dembek, Chief, Section 2
Project Directorate IV
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

FROM: Alan B. Wang, Project Manager, Section 2 /RA/
Project Directorate IV
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

SUBJECT: SUMMARY OF CLOSED MEETING WITH GE NUCLEAR ENERGY
(GENE) AND GLOBAL NUCLEAR FUEL-AMERICA (GNF)

On April 19 and 20, 2004, the NRC staff conducted a closed meeting with GNF/GENE for the GESTAR II update. GESTAR II specifies GNF/GENE licensing methodology for performing licensing bases analyses for boiling water reactors (BWRs). GNF/GENE can perform reload analyses and new fuel introduction analyses using the NRC-approved licensing methodology, analytical methods and codes specified in GESTAR II, without explicit NRC approval. The NRC staff approved the first GESTAR II application in 1978. Initially, GENE submitted an amendment to GESTAR for every change in fuel design change or analytical methods. On July 23, 1990, the NRC staff approved Amendment 22 to GESTAR II, which established fuel design acceptance criteria. For fuel designs or changes that meet the acceptance criteria, the NRC staff approved referencing Amendment 22 to GESTAR II in reload applications, without requiring explicit NRC approval. The NRC staff's approval of GESTAR II also contained a clause that if the NRC regulations or conclusions to the acceptability of the Amendment 22 acceptance criteria is invalidated, or should circumstances arise causing some criteria to be invalid, GENE will be expected to revise or re-submit its documentation for further review by the NRC staff. Subsequently, GENE amended GESTAR II to adopt new analytical methods or codes.

The NRC staff requested GNF/GENE to conduct a GESTAR II update. GENE agreed that such an update presentation would be useful and agreed to this meeting. A list of attendees is attached. The non-proprietary presentation slides are available in ADAMS under accession number ML041130175.

During this two-day meeting, GNF/GENE presented the following topics:

- introduction and background of GESTAR II,
- overview of the process,
- generic fuel licensing of the GNF line,
- overview of the reload licensing process,
- licensing of non-GNF fuel,
- fuel and core design,
- safety limit minimum critical power ratio (SLMCPR),
- supplemental reload analyses, and
- BWR stability discussions

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GENE also provided a brief history of the TEXICO/GEGAP/GESTR thermal/mechanical models and discussed some future licensing actions regarding power uprates.

The NRC staff thanked GENE for the presentation and stated that the NRC staff looks forward to the followup and Technology Update meeting in Wilmington, NC.

Project No. 710

Attachment: List of Meeting Attendees

cc w/att: See next page

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cc w/att: See next page

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SMarshall

Meeting Notice: ML040970603

PKG: ML041260536

ACCESSION NO.: ML041260531

NRC-001

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NAME	ABWang:mp	EPeyton	SDembek
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DOCUMENT NAME: C:\ORPCheckout\FileNET\ML041260531.wpd

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MEETING WITH GE NUCLEAR ENERGY (GENE)

LIST OF ATTENDEES

April 19 and 20, 2004

GENE

G. Stramback
J. Harrison
F. Bolger
W. Marquino

GNF

M. Harding
M. Colby
J. Fawks
J. Andersen

NRC

M. Fields
S. Lu
A. Wang
F. Akstulewicz
E. Kendrick
Z. Abdullahi
U. Shoop
G. Thomas
P. Clifford
Q. Nguyen
T. Huang
S. L. Wu
S. Marshall

GE Nuclear Energy

Project No. 710

cc:

Mr. George B. Stramback
Regulatory Services Project Manager
GE Nuclear Energy
175 Curtner Avenue
San Jose, CA 95125

Mr. Charles M. Vaughan, Manager
Facility Licensing
Global Nuclear Fuel
P.O. Box 780
Wilmington, NC 28402

Ms. Margaret Harding, Manager
Fuel Engineering Services
Global Nuclear Fuel
P.O. Box 780
Wilmington, NC 28402

Mr. Glen A. Watford, Manager
Technical Services
GE Nuclear Energy
175 Curtner Avenue
San Jose, CA 95125

Mr. James F. Klapproth, Manager
Engineering & Technology
GE Nuclear Energy
175 Curtner Avenue
San Jose, CA 95125

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