



General Electric Company
175 Currier Avenue, San Jose, CA 95125

Apr. 11, 1990
MFN-932-90
JSC-012-90

ATTENTION: Robert C. Jones, Jr., Chief
Reactor Systems Branch

Director of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Mail Station PL-137
Washington, D. C. 20555

Dear Sir:

Subject: Transmittal of Non-proprietary Version of GESTAR-II, NEDE-24011-A, *General Electric Standard Application for Reactor Fuel*, Revision 9

Reference: J. S. Charnley (GE) to T. E. Murley (NRC), *Revision 9 of GE Ltr. NEDE-24011-P-A*, November 3, 1988 (attached)

Fifteen copies of the non-proprietary version of GESTAR-II (NEDE-24011-A), Rev. 9, are provided with this letter for appropriate distribution within the NRC.

Revision 9 is a complete revision with no integration necessary. Please discard the entire document and file this revision behind the appropriate tab.

Please contact P.A. Lambert of my staff at (408) 925-1417 if you have any questions.

Very truly yours,

J.S. Charnley, Manager
Fuel Licensing
M/C 188, (408) 925-3697

cc: L. S. Gifford (GE-Rockville) w/o Encl.
P. W. Marriott (GE) w/o Encl.

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GE Nuclear Energy

General Electric Company
175 Curtner Avenue, San Jose, CA 95125

November 3, 1988
MFN-76-88
JSC-108-88

Director of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Mail Station P1-137
Washington, D.C. 20555

Attention: T.E. Murley, Director
Office of Nuclear Reactor Regulation

Gentlemen:

SUBJECT: REVISION 9 OF GE LTR NEDE-24011-P-A

References: See Attachment

Provided with this letter, for appropriate distribution within the NRC, are twenty-two copies of the proprietary version of Revision 9 to GESTAR-II (NEDE-24011-P-A-9, "General Electric Standard Application for Reactor Fuel"). The non-proprietary version is currently being prepared and will be transmitted in the near future. Instructions for integrating Revision 9 into the existing version (Revision 8) of GESTAR-II are enclosed with each set.

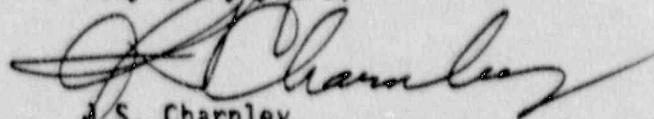
Revision 9 incorporates NRC approved Amendments 14, 15, 16, 17, 18 and 19. Amendment 14, submitted to the NRC in Reference 1, incorporated into GESTAR-II an MCPR Fuel Cladding Integrity Safety Limit that reflects the loading of current fuel bundle designs; NRC approval is given in Reference 2. Amendment 15 described an improved GEXL-PLUS thermal limits correlation (Reference 3) as well as the correlation application methodology (Reference 4); NRC approval is given in References 5 and 6. Amendment 16 (Reference 7) contained a substantial rewrite of the GESTAR-II document to more closely follow the NRC Standard Review Plan and Regulatory Guide 1.70 formats; NRC approval is given in Reference 8. The BWROG submitted Amendment 17 (Reference 9) which revised GESTAR-II to reflect the use of a single channel rod pattern control system and a reduction in the low power setpoint of the rod pattern control system; NRC approval is documented in Reference 10. Amendment 18, which incorporated the GEBx8NB fuel design into GESTAR-II, was submitted for NRC review in Reference 11 and approved

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by the NRC in Reference 12. Amendment 19 (Reference 13) proposed changes to the power distribution limits Technical Specifications and was approved by the NRC in Reference 14.

Please call G.D. Plotycia (408-925-6484) if you have any questions.

Very truly yours,

A handwritten signature in dark ink, appearing to read "J.S. Charnley", written in a cursive style.

J.S. Charnley
Fuel Licensing Manager

Attachment

cc: L.S. Gifford (GE) w/o attach.
P.W. Marriott (GE) w/o attach.
G.D. Plotycia (GE) w/o attach.

ATTACHMENT

References

1. Letter from J.S. Charnley (GE) to C.O. Thomas (NRC), "Amendment 14 to General Electric Licensing Topical Report NEDE-24011-P-A," October 2, 1985.
2. Letter from A.C. Thadani (NRC) to J.S. Charnley (GE), "Acceptance for Referencing of Amendment 14 to General Electric Licensing Topical Report NEDE-24011-P-A 'General Electric Standard Application for Reactor Fuel' (TAC NO. 60113)," December 27, 1987.
3. Letter from J.S. Charnley (GE) to C.O. Thomas (NRC), "Amendment 15 to General Electric Licensing Topical Report NEDE-24011-P-A," January 23, 1986.
4. Letter from J.S. Charnley (GE) to M.W. Hodges (NRC), "Application of GESTAR-II Amendment 15," March 22, 1988.
5. Letter from A.C. Thadani (NRC) to J.S. Charnley (GE), "Acceptance for Referencing of Amendment 15 to General Electric Licensing Topical Report NEDE-24011-P-A, 'General Electric Standard Application for Reactor Fuel' (TAC NO. 60903)," March 14, 1988.
6. Letter from A.D. Thadani (NRC) to J.S. Charnley (GE), "Acceptance for Referencing of Application of Amendment 15 to General Electric Licensing Topical Report NEDE-24011-P-A, 'General Electric Standard Application for Reactor Fuel' (TAC NO. 60903)," May 5, 1988.
7. Letter from J.S. Charnley (GE) to H.N. Berkow (NRC), "Proposed Amendment 16 to GE Licensing Topical Report NEDE-24011-P-A," August 8, 1986.
8. Letter from A.C. Thadani (NRC) to J.S. Charnley (GE), "Acceptance for Referencing of Amendment 16 to General Electric Licensing Topical Report NEDE-24011-P-A, 'General Electric Standard Application for Reactor Fuel'," April 20, 1988.
9. Letter from T.A. Pickens (BWROG) to G.C. Lainas (NRC), "Amendment 17 to General Electric Licensing Topical Report NEDE-24011-P-A," August 15, 1986.
10. Letter from A.C. Thadani (NRC) to J.S. Charnley (GE), "Acceptance for Referencing of Licensing Topical Report NEDE-24011-P-A, 'General Electric Standard Application for Reactor Fuel' Revision 8, Amendment 17," December 27, 1987.
11. Letter from J.S. Charnley (GE) to G.C. Lainas (NRC), "Proposed Amendment 18 to GE Licensing Topical Report NEDE-24011-P-A (GE8x8NB Fuel)," October 31, 1986.

12. Letter from A.C. Thadani (NRC) to J.S. Charnley (GE), "Acceptance for Referencing of Amendment 18 to General Electric Licensing Topical Report NEDE-24011-P-A, 'General Electric Standard Application for Reactor Fuel'," May 12, 1988.
13. Letter from J.S. Charnley (GE) to M.W. Hodges (NRC), "Proposed Amendment 19 to GE LTR NEDE-24011-P-A (Power Distribution Limits)," April 7, 1987.
14. Letter from A.C. Thadani (NRC) to J.S. Charnley (GE), "Acceptance for Referencing of Amendment 19 to General Electric Licensing Topical Report NEDE-24011-P-A (GESTAR-II), 'General Electric Standard Application for Reactor Fuel,' April 7, 1987," November 17, 1987.