

September 21, 2007

APPLICANT: General Electric Company

PROJECT: Economic Simplified Boiling Water Reactor (ESBWR)

SUBJECT: ESBWR DESIGN CERTIFICATION SUPPLEMENTAL AUDIT SUMMARY
DOCUMENTING THE SPECIFIC CODES THAT WERE REVIEWED BY STAFF

Staff performed two audits of the codes used in Chapters 4, 6, 15, and 21 of the Economic Simplified Boiling Water Reactor (ESBWR) design at GE-Hitachi Nuclear Americas, LLC (GEH).

The first audit took place between October 16 and October 19, 2006, resuming for the period between October 30 and November 3, 2006. This audit summary and conclusions were documented on July 19, 2007, "Summary of Audit for Nuclear Design Codes October/November 2006," ML0717000370.

The second audit took place between December 11 and December 15, 2006, resuming for the period between December 19 and December 20, 2006. This audit summary and conclusions were documented on January 4, 2007, "Summary of Exit Meeting Held on December 15, 2006, to Discuss Staffs Audit of TRACG Loss-of-Coolant Accident Analyses," ML0635403880.

The purpose of this supplemental audit summary is to clarify the codes that were reviewed during these two audits.

During these audits the staff reviewed the following codes:

October 16-19 and October 30 to November 3, 2006, Audit:

TGBLA06V
TGBLA06AE1
TGBLA06AE2
TGBLA06AE3
TGBLA06AE4
TGBLA06AE5
KRIS04
PCGEN03V
PANAC11V
PANAC11AE1
PANAC11AE2
PANAC11AE3
PANAC11AE4
PANAC11AE5
PANAC11AE6

PANAC11AE7
PANAC11AE8
PANAC11PE8

December 11-15 and December 19-20, 2006, Audit:

TRACG04A PL 40 (last version to be reviewed by the NRC, see NEDE-32177P, Rev. 2)
TRACG04A PL 41
TRACG04A PL 42
TRACG04A PL 43
TRACG04A PL 44
TRACG04A PL 45
TRACG04A PL 46
TRACG04A PL 47
TRACG04A PL 48
TRACG04A PL 49
TRACG04A PL 50
TRACG04A PL 51
TRACG04A PL 52
TRACG04P PL 52
DECAY01

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ANAC11AE7
PANAC11AE8
PANAC11PE8

December 11-15 and December 19-20, 2006, Audit:

TRACG04A PL 40 (last version to be reviewed by the NRC, see NEDE-32177P, Rev. 2)
TRACG04A PL 41
TRACG04A PL 42
TRACG04A PL 43
TRACG04A PL 44
TRACG04A PL 45
TRACG04A PL 46
TRACG04A PL 47
TRACG04A PL 48
TRACG04A PL 49
TRACG04A PL 50
TRACG04A PL 51
TRACG04A PL 52
TRACG04P PL 52
DECAY01

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