



Entergy Nuclear Operations, Inc.
Pilgrim Nuclear Power Station
600 Rocky Hill Road
Plymouth, MA 02360

April 10, 2007

Stephen J. Bethay
Director, Nuclear Assessment

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, D.C. 20555-0001

SUBJECT: Entergy Nuclear Operations, Inc.
Pilgrim Nuclear Power Station
Docket No. 50-293
License No. DPR-35

Pilgrim Repair of the Core Shroud Stabilizer Assemblies- Torsion Arm
Clamp Stress Evaluation Report (TAC NO. MD4918)

REFERENCES: 1. Entergy Letter No. 2.07.016, Request for Authorization Under the
Provision of 10 CFR 50.55a(a)(3)(1) for Modification of the Core
Shroud Stabilizer Assemblies, dated March 22, 2007

LETTER NUMBER: 2.07.035

Dear Sir or Madam:

By Reference 1, Entergy proposed a preemptive repair to the Pilgrim core shroud stabilizer assemblies (i.e., tie rods) upper support components. The proposal included installation of a clamp on each of the upper support spring torsion arm bolts. Pilgrim has completed the final clamp design and associated stress calculations. Attachment 1 provides the spring torsion arm clamp stress evaluation report.

Attachment 1 is a GE proprietary "Torsion Arm Clamp Stress Evaluation Report" dated April 2007, with an embedded GE Affidavit. The GE Affidavit details the reasons for requesting to withhold from public disclosure the stress analysis report. Therefore, on behalf of GE, Entergy hereby makes application to withhold Attachment 1 from public disclosure in accordance with 10 CFR 2.390(b)(1). A non-proprietary version of this report is included with this letter as Attachment 2.

The tie rod assemblies are not included under the ASME Code Section XI definition for repair or replacement. As such, the design details of the proposed tie rod modification are being submitted to the NRC for review and approval as an alternative repair pursuant to 10 CFR 50.55a(a)(3)(i). This submittal, along with the Reference 1 submittal, contains the basis for concluding that the modification provides an acceptable level of quality and safety.

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There are no regulatory commitments in this submittal.

NRC authorization to use this proposed alternative is requested by April 25, 2007, to support the scheduled startup of Pilgrim following RFO-16.

If you have any questions or require additional information, please contact Mr. Bryan Ford, Licensing Manager, at (508) 830-8403.

Sincerely,



Stephen J. Bethay

SJB/dl
Attachments

1. GE Proprietary Report with Embedded GE Affidavit, GE-NE-0000-0066-0380-R1-P, Pilgrim Nuclear Power Station Torsion Arm Clamp Stress Evaluation Report, dated April 2007 (18 pages)
2. GE Non-Proprietary Report, GE-NE-0000-0066-0380-R1-NP, Pilgrim Nuclear Power Station Torsion Arm Clamp Stress Evaluation Report, dated April 2007 (15 pages)

cc: Mr. James S. Kim, Project Manager
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Senior Resident Inspector
Pilgrim Nuclear Power Station

ATTACHMENT 2

Pilgrim Nuclear Power Station

Torsion Arm Clamp Stress Evaluation Report

GE Non-Proprietary Report No. GE-NE-0000-0066-0380-R1-NP, dated April 2007

(15 pages)