

January 9, 2007

LICENSEE: DUKE POWER COMPANY LLC (DUKE)
FACILITY: OCONEE NUCLEAR STATION, UNITS 1, 2, AND 3 (OCONEE)
SUBJECT: SUMMARY OF DECEMBER 12, 2006, MEETING TO DISCUSS THE USE OF FIBER-REINFORCED POLYMER (FRP) AT OCONEE (TAC NOS. MD2129, MD2130, AND MD2131)

On December 12, 2006, the Nuclear Regulatory Commission (NRC) met with Duke (the licensee) to discuss the June 1, 2006, license amendment request to incorporate the use of FRP at Oconee to protect against the effects of tornado winds and differential pressure. Enclosure 1 is a list of the attendees. Enclosure 2 is the handout provided by the licensee at the meeting and is available in the Agencywide Documents Access and Management System (ADAMS) Accession Number ML070080416.

The licensee stated that it does not intend to conduct its own testing on FRP, but instead is relying on testing that had been performed by others. The licensee briefly discussed six test programs that had been performed and that the licensee believes are relevant to the use of FRP at Oconee.

In response to concerns raised by the NRC staff during the meeting, the licensee agreed to provide the following:

1. A list of all Oconee masonry walls on which the licensee currently plans to use FRP, including wall geometries, boundary (support) conditions, and methods of construction.
2. A description of the analytical methods that will be used to evaluate masonry walls and to design modifications using FRP. The basic analytical methods will consist of:
 - (a) Computing internal forces/moments that will result from tornado-induced differential pressure and/or tornado wind loadings on the masonry wall and considering the wall to act as either a simply-supported, one-way span or as a simply-supported plate based on actual wall construction;
 - (b) Determining actual and allowable stresses in the masonry walls in accordance with American Concrete Institute (ACI) ACI 531-79; and,
 - (c) Designing the necessary FRP composite reinforcement based on methods derived from, or verified by, test data.
3. A clarification of the licensee's intention to use International Code Council ICC AC125 (June 2003) for qualification testing and reporting for the FRP composite system's material properties only.

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The NRC requested that the licensee provide the methodology and the results of some representative calculations. The NRC stated that after it approves this methodology, this methodology would be applicable only to those types of masonry walls for which the licensee has submitted a request and the NRC staff approves for use at Oconee.

/RA/

Leonard N. Olshan, Project Manager
Plant Licensing Branch II-1
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket Nos. 50-269, 50-270, and 50-287

Enclosures:

1. List of Attendees
2. Licensee's Handout (ML070080416)

cc w/encls: See next page

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MEETING ATTENDEES

MEETING TO DISCUSS USE OF FIBER-REINFORCED POLYMER AT OCONEE

DECEMBER 12, 2006

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L. Olshan

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R. Freudenberger
L. Llibre
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