September 25, 2007

MEMORANDUM TO: Harold K. Chernoff, Chief
Plant Licensing Branch I-2
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

FROM: Peter Bamford, Project Manager ***/ra/***
Plant Licensing Branch I-2
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

SUBJECT: THREE MILE ISLAND, UNIT NO. 1 - ELECTRONIC TRANSMISSION, DRAFT REQUEST FOR ADDITIONAL INFORMATION REGARDING REACTOR BUILDING SUMP PH CONTROL SYSTEM BUFFER CHANGE (TAC NO. MD5963)

The attached draft request for additional information (RAI) was sent by electronic transmission on September 24, 2007, to Mr. David Distel, at AmerGen Energy Company, LLC (AmerGen, the licensee). This draft RAI was transmitted to facilitate the technical review being conducted by the Nuclear Regulatory Commission (NRC) staff in order to clarify certain items in the licensee's submittal. The draft RAI is related to AmerGen's submittal dated June 29, 2007, regarding a proposed change to the reactor building sump pH buffering agent from sodium hydroxide to trisodium phosphate. The draft questions were sent to ensure that the questions were understandable, the regulatory basis for the questions was clear, and to determine if the information was previously docketed. Additionally, review of the draft RAI would allow AmerGen to determine and agree upon a schedule to respond to the RAI. This memorandum and the attachment do not represent an NRC staff position.

Docket Nos. 50-289

Enclosure: As stated

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DRAFT

REQUEST FOR ADDITIONAL INFORMATION

REGARDING REACTOR BUILDING SUMP

PH CONTROL SYSTEM BUFFER CHANGE

THREE MILE ISLAND UNIT 1

DOCKET NOS. 50-289

By letter dated June 29, 2007, (Agencywide Documents Access and Management System Accession No. ML072070257), AmerGen Energy Company, LLC, the licensee, submitted a license amendment request pertaining to the replacement of the containment sump buffer at Three Mile Island (TMI), Unit 1.

The Nuclear Regulatory Commission (NRC) Staff has been reviewing the submittal and has determined that additional information is needed to complete its review.

1. In Section 4.5 of Enclosure 1 to the proposed license amendment request, it is stated that the evaluation was based on utilizing and analyzing available industry and technical research data. The evaluation concluded that all EQ equipment located inside the Reactor Building (RB) are qualified for the revised RB spray chemical conditions resulting from the proposed change. Please provide details of the methodology, assumptions, regulatory provisions applied and analysis to support the above conclusion.

2. Please confirm that the temperature profile inside the RB remains unchanged due to the proposed design change.