



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

October 24, 2011

Mr. Michael J. Pacilio  
President and Chief Nuclear Officer  
Exelon Nuclear  
4300 Winfield Road  
Warrenville, IL 60555

SUBJECT: CORRECTION LETTER FOR PEACH BOTTOM ATOMIC POWER STATION,  
UNIT 3 – SAFETY EVALUATION REGARDING SAFETY LIMIT MINIMUM  
CRITICAL POWER RATIO VALUE CHANGE (TAC NO. ME6391)

Dear Mr. Pacilio:

By letter dated September 30, 2011 (Agencywide Documents Access and Management System Accession No. ML111860015), the U.S. Nuclear Regulatory Commission (NRC) issued Amendment No. 284 to Renewed Facility Operating License No. DPR-56 for the Peach Bottom Atomic Power Station (PBAPS), Unit 3. The safety evaluation enclosed with the amendment contained two errors that are being acknowledged and corrected by this letter.

The first page of the safety evaluation, the first paragraph, third sentence, incorrectly states that the PBAPS Unit 3, Operating Cycle 19 core contains 274 once burned GE14 fuel assemblies. The correct number of once burned fuel assemblies is 272. In addition, the Operating Cycle 19 core contains 2 thrice burned GE 14 fuel bundles, which are not listed. Neither of these errors has any bearing on the NRC staff's technical evaluation or conclusions. The revised safety evaluation page is enclosed.

Please contact me at 301-415-3204 if you have any questions.

Sincerely,

A handwritten signature in black ink that reads "John D. Hughey".

John D. Hughey, Project Manager  
Plant Licensing Branch I-2  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket No. 50-278

Enclosure: As Stated

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SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NO. 284 TO RENEWED FACILITY

OPERATING LICENSE NO. DPR-56

EXELON GENERATION COMPANY, LLC

PSEG NUCLEAR, LLC

PEACH BOTTOM ATOMIC POWER STATION, UNIT 3

DOCKET NO. 50-278

1.0 INTRODUCTION

By letter to the Nuclear Regulatory Commission (NRC) dated June 8, 2011,<sup>1</sup> Exelon Generation Company, LLC, (Exelon or the licensee) submitted a License Amendment Request (LAR) for Peach Bottom Atomic Power Station (PBAPS), Unit 3. The submittal seeks to revise Technical Specification (TS) 2.1.1, "Reactor Core SLs [safety limits]" to reflect revised Safety Limit Minimum Critical Power Ratio (SLMCPR) values for Operating Cycle 19. The PBAPS Unit 3, Operating Cycle 19 core has 764 General Electric (GE) fuel assemblies, of which there are 268 fresh Global Nuclear Fuels (GNF)2 bundles, 272 once burned GE14 bundles, 222 twice burned GE14 bundles, and 2 thrice burned GE14 bundles. The SLMCPR analysis establishes SLMCPR values that will ensure that during normal operation and during abnormal operational transients, at least 99.9% of all fuel rods in the core do not experience transition boiling if the limit is not violated. The SLMCPRs are calculated to include cycle-specific parameters.

Exelon provided supplemental information by letters dated August 19, 2011, and September 9, 2011.<sup>2</sup> The supplements clarified the application, did not expand the scope of the application as originally noticed, and did not change the NRC staff's original proposed no significant hazards consideration determination as published in the *Federal Register* on August 22, 2011 (76 FR 52357).

The NRC staff has completed its review and finds that the requested TS modifications are acceptable, as discussed in this safety evaluation.

2.0 REGULATORY EVALUATION

The purpose of the SLMCPR is to ensure that specified acceptable fuel design limits (SAFDLs) are not exceeded during steady state operation and analyzed transients. The fuel cladding is one of the physical barriers that separate radioactive material from the environment. The

<sup>1</sup> Agencywide Documents Access and Management System (ADAMS) Accession No. ML111600180.

<sup>2</sup> ADAMS Accession Nos. ML112340236 and ML112550469.

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Plant Licensing Branch I-2  
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DATE	10/19 /2011	10/19/2011	10/24/2011

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