

AUG 27 2007

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U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Office of Nuclear Material Safety and Safeguards  
Washington, DC 20555-0001

HOPE CREEK GENERATING STATION  
FACILITY OPERATING LICENSE NO. NPF-57  
DOCKET NO. 50-354

Subject: Special Report – Accumulated Actuation Cycles

This special report is being submitted pursuant to the requirements of Hope Creek Technical Specification (TS) 3.5.1, "Emergency Core Cooling Systems, Action g, due to the Emergency Core Cooling System (ECCS) actuating and injecting water into the reactor coolant system (RCS).

On May 29, 2007, Hope Creek experienced a partial loss of feedwater due to a vital bus slow transfer. This loss of feedwater coupled with a manual reactor scram caused reactor water level to reach -28 inches (Level 2) and High Pressure Coolant Injection (HPCI) initiated and injected water into the RCS.

Including the May 29, 2007 event, Hope Creek has experienced 21 HPCI Injections (actuation cycles). Based on these 21 HPCI injections, the HPCI injection nozzle cumulative usage factor has been determined to be 0.853, which remains below the limit of 1.0.

Should you have any questions concerning this letter, please contact Francis D. Possessky at (856) 339-1160.

Sincerely,

A handwritten signature in black ink that reads "John F. Perry".

John F. Perry  
Plant Manager  
Hope Creek Generating Station

JE22  
NRR

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