

# SNUPPS

Standardized Nuclear Unit  
Power Plant System

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April 26, 1983

SLNRC 83- 0022 FILE: 0278/0650.2

SUBJ: Containment Recirculation  
Sump Testing

Mr. Harold R. Denton, Director  
Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Dockets Nos: STN 50-482 and STN 50-483

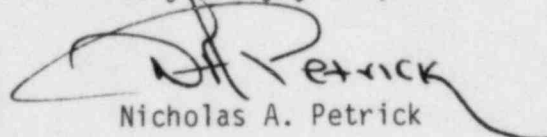
- References: 1) Para. C1b(2), Regulatory Guide 1.79, Revision 1, 9/75:  
Preoperational Testing of Emergency Core Cooling Systems  
for Pressurized Water Reactors  
2) SLNRC 82-03, 1/18/82: ECCS Sump Test  
3) SLNRC 82-044, 11/2/82: Containment Recirculation Sump  
Testing

Dear Mr. Denton:

As described in References 2 and 3 the SNUPPS Utilities contracted with the Alden Research Laboratory for hydraulic model testing of the containment recirculation sumps, in lieu of site testing as discussed in Reference 1. This testing has now been completed and a copy of the final test report is attached for your information.

A design change has been made as a result of the testing. Vortex suppression was determined to be necessary and a suitable device, a horizontal grating, was designed and tested. As the results indicate, the sumps as now designed have satisfactory hydraulic performance under the design conditions of restricted flow and partial screen blockages.

Very truly yours,

  
Nicholas A. Petrick

RFS/bds/4b26  
Attachment

cc: G. L. Koester KGE  
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J. H. Neisler USNRC/CAL

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