

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

January 30, 1990

Docket No. 50-412

MEMORANDUM FOR : John F. Stolz, Director, Project Directorate I-4, Division of Reactor Projects I/II

- FROM : Peter S. Tam, Senior Project Manager, Project Directorate I-4, Division of Reactor Projects I/II
- SUBJECT : Beaver Valley Unit 2 -- Closeout of TAC 73439, Hydrogen Gas Accumulation in the Charging Pump Piping

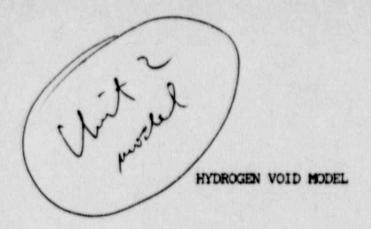
The subject issue was initiated by a letter from the licensee dated May 16, 1989. It was addressed in an Information Notice dated January 5, 1989 (IN 88-23, Supp. 1).

As a result of the concern at Beaver Valley Unit 2, we conducted a site visit to observe the licensee's use of a clear plastic model to study the phenomenon. (See letter, P. Tam to J. D. Sieber dated June 7, 1989). Enclosure 1 is the handout used by licensee personnel (Jim Szyslowski et al.) in their presentation.

The purpose of this memorandum is to close out the subject TAC number on the following bases: (1) there is no standing request for approval from the licensee, (2) staff members who participated in the site visit did not ask for follow-up actions under the Beaver Valley 2 docket, and (3) a new TAC number can be taken out to cover future actions when needed.

Peter S. Tam, Senior Project Manager Project Directorate I-4 Division of Reactor Projects I/II

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O PHASE 1

0 INVESTIGATE SOURCE(S) OF VOIDS

MINIFLOW ORIFICE

0 PHASE 2

O BUBPLE TRANSPORT STUDIES

O DUPLICATE PLANT GAS COLLECTION LOCATIONS

0 PHASE 3

INVESTIGATE POTENTIAL PLANT MODIFICATIONS

· LOOP SEALS

CONTINUOUS VENTING

Rifing i.d. full-seall Educations are relative i.e. VCT is a high fourt

MODELLING TECHNIQUE

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• Fr • V / Jg • D • FROUDE NUMBER & Franke Wo. same • (ID)M • (ID)P

- (V)M (V)P
- (Q)M (Q)P

MODEL FEATURES

- CLEAR ACRYLIC PIPING (SOME PVC)
 - 1 PUMP -- 2 PUMPS TO BE ADDED
 - · INJECT N2

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- · READ Q. P. T
- · VOID FRACTION MONITORING SYSTEM

VOID FRACTION MONITORING SYSTEM

• WESTINGHOUSE PROVIDED INSTRUMENT

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- BASED ON ELECTRICAL CONDUCTIVITY, WHICH VARIES WITH DENSITY
- MONITOR AT PUMP SUCTION AND DOWNSTREAM OF MINIFLOW ORIFICE