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IPN-92-036

U.S. Nuclear Regulatory Commission
Mail Station P1-137
Washington, DC 20555

Attn: Document Control Desk

Subject: **Indian Point 3 Nuclear Power Plant**
Docket No. 50-286
ECCS Evaluation Changes

Reference: 1. SECL-92-131 - High Head Safety Injection Flow Changes Safety Evaluation, dated June 1992. (Not Docketed)

Dear Sir:

The purpose of this letter is to describe changes to the emergency core cooling system (ECCS) evaluation model, and how these changes affect the peak cladding temperature (PCT). The change to the small break loss of coolant accident (LOCA) analysis is significant, as defined by 10 CFR 50.46(a)(3)(i) and therefore the Authority submits this letter to satisfy both the 30 day and annual reporting requirements of 10 CFR 50.46(a)(3)(ii).

An analysis performed by Westinghouse (Reference 1) for large and small break LOCA using a new value for low pressurizer pressure safety injection system actuation, results in an increase of 67°F in PCT for the small break LOCA analysis. In addition, recent tests performed by Westinghouse (Reference 1) indicated that there is an increase in the overall hydraulic resistance for 15x15, seven grid optimized fuel assemblies without intermediate flow mixers (IFM). This change results in a 40°F increase in PCT for a large break LOCA. An additional 9°F increase in PCT results from a change in the high head safety injection flow parameters (Reference 1) .

The Authority has reviewed the changes for both a large and small break LOCA and determined that the PCT is well below the maximum fuel cladding temperature limit of 2200°F, and that IP3 continues to comply with 10 CFR 50.46. The following is a

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summary of the effects of the Westinghouse evaluation model changes on the allocation of margin to the IP3 analyses:

Large Break LOCA

- 15x15 V5 w/o IFM Grids Pressure Drop: $\Delta PCT = +40^{o}F$
- Assessment of the Effect of Revised HHSI Flows (Permanent) $\Delta PCT = +9^{o}F$

Small Break LOCA

- Decrease in Pressurizer Low Pressure Analysis Value: $\Delta PCT = +67^{o}F$

If you have any questions, please contact Mr. P. Kokolakis.

Very truly yours,

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