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P. A. Morris, Director
Division of Reactor Licensing

INDIAN POINT II - DOCKET NO. 50-247

The enclosed review is submitted for inclusion in your report
to the ACRS.

Original signed by
E. G. Case
Edson G. Case, Director
Division of Reactor Standards

DRS:SEB:HS

Enclosure:
Review - Indian Point II

cc w/encl:
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Distribution:

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DATE ▶	5/7/70	5/7/70	5/7/70			

CONTAINMENT DESIGN PRESSURE

INDIAN POINT II

The Indian Point II primary containment has a free volume of 2.6×10^6 cubic feet and a design pressure of 47 psig. The applicant has calculated the containment pressure transients following loss-of-coolant accidents for various sized breaks. The pressure buildup for a three square foot break area was calculated to have the maximum peak pressure of 39.6 psig.

Independent staff analyses of the three square foot break were made with the CONTEMPT Code. The same blowdown rate, surface areas and thicknesses, and material properties were used by the staff and the applicant. The agreement between the CONTEMPT Code and the applicant's calculation was good. The CONTEMPT Code calculated a peak pressure of 42.2 psig when the Uchida condensing heat transfer coefficient was used and 41.0 psig with the Tagami coefficient. The use of the Tagami correlation in containment pressure transient analysis has been accepted in previous license applications.

The design pressure is ten percent above the calculated peak pressure and is acceptable.