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Docket No. 50-286

R. C. DeYoung, Assistant Director for Light Water Reactors Group 1, L

CPB INPUT FOR INDIAN POINT 3 SER SUPPLEMENT

Plant Name:	Indian Point Unit 3
Licensing Stage:	OL
Docket No.:	50-286
Responsible Branch and Project Manager:	LWR 1-1 H. Specter
Description of Review:	SER Supplement
Requested Completion Date:	December 20, 1973

Attached is the Core Performance Branch input for the Indian Point, Unit 3 SER supplement.

Original signed by
D. F. Ross

Victor Stello, Jr., Assistant Director
for Reactor Safety
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Attachment:
SER Input

cc: S. Hanauer
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OFFICE ▶	CPB	CPB	CPB	AD/RS		Memo
SURNAME ▶	MDunenfeld;bj	BBailey	DFRoss	Vstello		
DATE ▶	12/21/73	12/21/73	12/ /73	12/ /73		

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INPUT FOR INDIAN POINT 3 SER SUPPLEMENT

CORE OUTLET THERMOCOUPLES

The power distribution monitoring provisions that are presently required for reactor operation by Technical Specifications are adequate to ensure safety. There exist safety-related systems, other than those required by Technical Specifications, which can provide valuable information about the reactor. The core outlet thermocouples are an example of such a system. The thermocouples have been provided, and experience indicates extremely reliable performance. Core outlet coolant thermocouples should not be required by the Technical Specifications, as the required degree of safety is attained without them.

MOVABLE INCORE DETECTORS

The steady state power distribution is a slowly varying function of core burnup. The requirement for monthly incore mapping has been made to follow this slow change in power distribution. Continuous surveillance is required to detect any tilted power distribution anomaly. This is provided by Technical Specification requirements for axial offset and quadrant tilt monitoring. Power reductions or incore maps are required when any tilted condition exists. Mapping at more frequent intervals than monthly is not considered necessary in the absence of power distribution anomalies (such as tilts).