Docket No. 50-266

LICENSEE: Wisconsin Electric Power Company

FACILITY: Point Beach Unit 1

SUBJECT: SUMMARY OF MEETING WITH WISCONSIN ELECTRIC POWER COMPANY REGARDING FRACTURE MECHANICS ANALYSIS OF A FLAW INDICATION IN POINT BEACH UNIT 1

An emergency meeting was held with Wisconsin Electric Power Company (WEPCo) in Bethesda, Maryland, on May 30, 1987. A list of those attending the meeting is enclosed as Enclosure 1. Point Beach Unit 1 was scheduled for startup the afternoon of Friday, May 29, 1987. However, as a result of ultrasonic testing a flaw indication was observed in a reactor vessel nozzle-to-shell weld for the safety injection system. The flaw size was greater than code allowable. Consequently, startup of Point Beach Unit 1 was delayed pending a review by the staff of the licensee's assessment of the flaw indication.

WEPCo (Steve Pullins) reviewed data concerning the flaw size with the staff. No indication was detected in this particular location in the preoperational inspection. An indication appeared in an inspection conducted in 1976. In 1976, however, there was insufficient data to size the indication. The most recent inspection, conducted in 1987, utilized equipment more sensitive than that previously used and showed one indication 1.44" x 2.25" (all other indications were within the code). The 1987 indication was detected by two transducers. Three different peaks were found when traversing the flaw. WEPCo stated that this was an indication that the flaw may not be continuous but broken up into three smaller segments. The analyses were performed, however, assuming the flaw was continuous.

Mr. Warren Bamford (Westinghouse) discussed the Westinghouse fracture mechanics analysis of the flaw. The analyses assumed the flaw was in the worst location (involved peak stress). The analysis evaluated all the design basis transients. It did not include an LTOP faulted transient condition. For all transients evaluated, the flaw met the fracture mechanics criteria of ASME Code Section XI. Mr. Barry Elliot of the staff indicated that, based on the information provided by Mr. Bamford, he had done a very quick hand calculation and concluded that the flaw indication would meet the fracture mechanics criteria of ASME Code Section XI if an LTOP event, similar to that occurring in November 1981 at Turkey Point, had been analyzed.

The staff concluded, based on the the information presented, that the flaw indication satisfied the fracture mechanics criteria in ASME Code Section XI and Point Beach Unit 1 could restart. However, WEPCo was requested to submit on the docket information presented at the meeting which the NRC staff used to

reach this conclusion. This information is to include:

1. LTOP analyses (using Turkey Point);
   a. probability of exceeding LTOP setpoints; and
   b. fracture mechanics evaluation assuming a Turkey Point type transient;

2. Flaw characterization based on welding procedure, and inspection test results;

3. Description of the methods of compensating for beam spread;

4. Codes and addenda used and referenced in the inspection and flaw sizing; and

5. UT examination information presented at the meeting.

The above information must be sent via express service so that NRC will have it at the start of business Wednesday morning and will be able to produce a safety evaluation by the end of the week.

/s/

Theodore R. Quay, Project Manager
Project Directorate III-3
Division of Reactor Projects

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Enclosure 1

MEETING ON FRACTURE MECHANICS ANALYSIS FOR POINT BEACH UNIT 1

ATTENDANCE LIST

NAME	ORGANIZATION
C. Y. Cheng	NRC/NRR/EMTB
Warren Hazelton	"
Keith Wichman	"
Barry Elliot	"
Ted Quay	NRC/NRR/PD3-3
Steve Pullins	Wisconsin Electric Power Company
Chuck Krause	" " " "
Mike Moylan	" " " "
Warren Bamford	Westinghouse GISD
Steve Richter	SWRI
Hector Diaz	SWRI

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