

U. S. NUCLEAR REGULATORY COMMISSION
UPDATED REPORT - PREVIOUS REPORT SUBMITTED MARCH 12, 1980
LICENSEE EVENT REPORT

8004290 469

CONTROL BLOCK: _____ (1)

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

0 1 | W | I | P | B | H | 2 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 4 | 1 | 1 | 1 | 1 | _____ (5)
7 8 9 | 9 | | | | | | | | | | | | | | | | | | | 25 26 | 30 | 57 CAT 58

CON'T
0 1 | L | 0 | 5 | 0 | 0 | 0 | 3 | 0 | 1 | 0 | 2 | 2 | 7 | 8 | 0 | 0 | 4 | 1 | 6 | 8 | 0 | _____ (9)
7 8 9 | 60 | 61 | | | | | | | | | | | | | | | | 68 69 | 74 75 | 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)
0 2 | During normal operation, indication of an increasing primary-to-
0 3 | secondary leak in the "A" SG was noted on 02-27-80. The decision was
0 4 | made to shut the unit down at 2340 hours on 02-27-80 and the unit was
0 5 | off line at 0225 hours on 02-28-80. Chemistry results of a sample
0 6 | taken at 0010 hours on 02-28-80 quantified a primary-to-secondary
0 7 | leak rate of 1,420 gallons per day. This event is reportable per
0 8 | T.S. 15.6.9.2.A.3 and is similar to previous LER's.

0 9 | C | B | E | D | H | T | E | X | C | H | F | Z | _____ (16)
7 8 9 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32

17 | LER NO. REPORT NUMBER | 8 | 0 | _____ (21) | 0 | 0 | 2 | _____ (26) | 0 | 1 | _____ (29) | T | _____ (30) | 1 | _____ (32)

ACTION TAKEN | B | Z | A | A | 0 | 3 | 5 | 2 | Y | Y | N | W | 1 | 2 | 0 | _____ (26)
33 34 35 36 37 38 39 40 41 42 43 44 45 46 47

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)
1 0 | A primary-to-secondary leak test performed on 03-01-80 revealed a
1 1 | leaking tube in the "A" SG at position R18C37. Eddy current testing
1 2 | began in both SG's on 03-03-80 and was completed on 03-09-80. One
1 3 | degraded (41% defect) tube was found in the "B" SG and six defective
1 4 | (>50%) tubes and 18 tubes with pluggable (40% to 49%) defects were found
7 8 9 in the "A" steam generator.

1 5 | E | 0 | 9 | 9 | N/A | A | Operator observation
7 8 9 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80

1 6 | G | N | 1.47 Curies | Air ejector
7 8 9 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80

1 7 | 0 | 0 | 0 | Z | N/A
7 8 9 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80

1 8 | 0 | 0 | 0 | N/A
7 8 9 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80

1 9 | Z | N/A
7 8 9 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80

2 0 | Y | Newspaper, TV, and radio coverage
7 8 9 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80

ATTACHMENT TO LICENSEE EVENT REPORT NO. 80-002/01T-1

Wisconsin Electric Power Company
Point Beach Nuclear Plant Unit 2
Docket No. 50-301

Unit 2 was taken off line at 0225 hours on February 28, 1980 following confirmation of primary-to-secondary leakage in the "A" steam generator. The leak had begun as a slight indication about noon the previous day and gradually increased to 70 gallons per day (estimated) by 2200 hours on February 28. The decision was made to shut down at 2340 hours upon a further large increase in the air ejector radiation monitor reading. A static head leak check identified the leaking tube at position R18C37 and a subsequent eddy current inspection placed the defect at eight to ten inches above the tube end, i.e., 13 to 15 inches deep in the crevice of the tubesheet. The previously scheduled refueling outage steam generator eddy current inspection was performed during the outage. The extent of the inspection was expanded during the outage as six tubes with greater than 50% through-wall indications, in addition to the leaking tube, were discovered in the "A" steam generator. Eighteen tubes with indications between 40 and 49% were also found. The "A" steam generator hot leg program was first expanded by a 2S sample then to 100% as required by the Technical Specifications.

The 25 defective or degraded tubes in the "A" steam generator were explosively plugged on March 10, 1980. The leaking tube was mechanically plugged on the inlet side. This tube has been pulled during the April 1980 refueling outage for further examination.

Eight tubes which exhibited 39% defect indications were also explosively plugged as a conservative measure. Two tubes, R22C62 and R9C54, also with 39% defects, were plugged on the cold leg only. These tubes were mechanically plugged on the hot leg side during the April 1980 refueling outage.

An 800 psi hydrostatic test of the "B" steam generator revealed no leaking tubes or plugs. Approximately 700 tubes in each of the hot and cold legs of the "B" steam generator were examined and one cold leg tube was found to have a 41% defect indication. The one 41% degraded tube in the "B" steam generator was explosively plugged on March 9, 1980.

Unit 2 was placed on line at 1802 hours on March 13, 1980.

The average radioactive release rate via the Unit 2 air ejector during this event has been calculated to be 0.051% of the allowable annual release rate of 0.2 Curies per second.

This event is reportable per Technical Specification 15.6.9.2.A.3.

The approximate exposures recorded during the outage are as follows: (All exposure data are based on dosimeter information.)

Steam Generator Manway Work	1.8 Man Rem
Visual Inspections	0.8 Man Rem
Eddy Current Inspections	14.7 Man Rem
Tube Plugging	5.9 Man Rem
Health Physics Coverage	3.4 Man Rem

EDDY CURRENT RESULTS FOR PLUGGED TUBES

STEAM GENERATOR "A" INLET

<u>Tube</u>	<u>% Defect</u>	<u>Location</u>
R21C58	42	Top of tubesheet*
R10C59	39	Top of tubesheet
R20C59	41	Top of tubesheet
R21C59	39	Top of tubesheet
R20C61	42	Top of tubesheet
R20C63	51	Top of tubesheet
R21C63	56	Top of tubesheet
R10C64	42	Top of tubesheet
R21C64	46	Top of tubesheet
R19C65	51	Top of tubesheet
R18C68	39	Top of tubesheet
R12C73	43	Top of tubesheet
R34C73	43	First support plate
R11C74	39	Top of tubesheet
R07C21	39	Top of tubesheet
R13C19	40	Top of tubesheet
R12C31	41	Top of tubesheet
R13C34	43	Top of tubesheet
R14C34	57	Top of tubesheet
R14C35	42	Top of tubesheet
R15C35	44	Top of tubesheet
R13C36	42	Top of tubesheet
R14C36	39	Top of tubesheet
R10C39	45	Top of tubesheet
R13C41	56	Top of tubesheet
R18C37	100	9" above tube end
R28C42	45	Top of tubesheet
R20C43	39	Top of tubesheet
R12C44	41	Top of tubesheet
R20C47	39	Top of tubesheet
R21C57	43	Top of tubesheet
R22C57	42	Top of tubesheet
R10C58	52	Top of tubesheet

STEAM GENERATOR "B" OUTLET

R07C36	41	1½" above tubesheet
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*The notation "top of tubesheet" refers to defect indications which have been separated from the top of tubesheet eddy current signal using multi-frequency techniques. Twenty-six of these top of tubesheet signals using a 400 khz eddy current frequency have been present since 1974. The recent development of the multi-frequency eddy current technique has allowed discrimination of defect indications from the top of tubesheet signal. Evaluation of all data available at this time indicates that these top of tubesheet defect indications have been present but undetectable since 1974.