

YANKEE ATOMIC ELECTRIC COMPANY

Telephone (617) 872-8100
TWX 710-380-7619

1671 Worcester Road, Framingham, Massachusetts 01701

2.C.2.1
FYR 85-97

September 10, 1985

United States Nuclear Regulatory Commission
Washington, DC 20555

Attention: Mr. John A. Zwolinski, Chief
Operating Reactors Branch No. 5
Division of Licensing

References: (a) License No. DPR-3 (Docket No. 50-29)
(b) USNRC Letter to All Licensees, dated July 8, 1983,
GL-83-28)
(c) YAEK Letter to USNRC, dated November 5, 1983
(d) YAEK Letter to USNRC, dated January 13, 1984
(e) USNRC Letter to YAEK, dated December 17, 1984
(f) YAEK Letter to USNRC, dated February 21, 1985
(g) YAEK Letter to USNRC, dated March 19, 1985
(h) Telephone Communications Between Mr. J. Clifford (USNRC)
and Mr. G. Papanic, on August 27 and 28, 1985

Subject: Generic Letter 83-28, Items 4.2.1, Periodic Maintenance Program
for Reactor Trip Breakers and 4.2.2, Trending of Reactor Trip
Breakers

Dear Sir:

This letter provides additional information requested by Reference (h)
for Items 4.2.1 and 4.2.2. This information contained in Attachment A
supplements our previously submitted responses.

Very truly yours,

George Papanic Jr.
George Papanic, Jr.
Senior Project Engineer - Licensing

GP/dps

Attachment

8509130079 850910
PDR ADOCK 05000029
PDR

A055
11

September 10, 1985

ATTACHMENT A

Generic Letter 83-28
Items 4.2.1 and 4.2.2

USNRC Question 1

Have the DB-25 reactor trip switchgear circuit breakers at Yankee been open-closed cycled more than two hundred times between refueling outages?

Response 1

The DB-25 circuit breakers are not equipped with an open-close cycle counter. However, we can estimate the number of open-close cycles for the breakers between refueling outages as follows:

1. The breakers are required to be cycled once after refueling maintenance is performed but prior to plant startup.
2. Prior to Cycle 10, the breakers were cycled once per plant scram or shutdown.
3. Since Cycle 10, the breakers are cycled once per plant scram or shutdown if Procedure OP-4611 has been performed within 7 days, or 21 times if Procedure OP-4611 has not been performed within 7 days.

The following Table lists the number of plant scrams or shutdowns per plant operating cycle and the corresponding estimate of the number of open-close cycles of the DB-25 circuit breakers:

<u>YNPS Operaton Cycle</u>	<u>No. of Plant Scrams or Shutdowns</u>	<u>Estimated No. of DB-25 Cycles</u>
1	13	14
2	8	9
3	6	7
4	5	6
5	3	4
6	5	6
7	4	5
8	6	7
9	6	7
10	15	316
11	7	148
12	9	190
13	5	106
14	9	190
15	5	106
16	14	195
17	6	127

September 10, 1985

Based on the above, only Cycle 10 (1973-1974) is estimated to have exceeded 200 open-close cycles of the DB-25 circuit breakers. This particular cycle had 15 scrams or shutdowns, nine of which can be attributed to new flow instrumentation installed in the plant during the refueling outage.

USNRC Question 2

What is the possibility of YNPS exceeding 200 DB-25 circuit breaker open-close cycles between refueling outages in future operation?

Response 2

In our answer to Question 1, Yankee estimated that only once in 25 years of operation have we exceeded 200 open-close cycles of the DB-25 circuit breakers between refueling outages. This particular operation cycle is considered an unusual case. Thus, Yankee does not anticipate that we will exceed 200 open-close cycles of the DB-25 circuit breakers between refueling outages in future operation.