

General Offices . Selden Street, Berlin, Connecticut

P.O. BOX 270 HARTFCRD, CONNECTICUT 06141-0270 (203) 665-5000

October 31, 1989

Docket No. 50-213 <u>B13395</u> Re: 10CFR50, Appendix R, 1SAP Topic 1.64

U.S. Nuclear Regulatory Commission Attention: Document Control Desk Washington, DC 20555

Reference: E. J. Mroczka letter to U.S. Nuclear Regulatory Commission, "Haddam Neck Plant, New Switchgear Building, Response to Request for Additional Information," dated September 29, 1989.

Gentlemen:

Laddam Neck Plant New Switchgear Building Response to Request for Additional Information

On August 29, 1989, the NRC Staff and Connecticut Yankee Atomic Power Company (CYAPCO) conducted a telephone conference to discuss certain aspects of the electrical distribution system design associated with the New Switchgear Building at the Haddam Neck Plant. During this conference, the NRC Staff requested that CYAPCO provide a written response to the concerns addressed during this conference. This information was provided to the Staff in the referenced letter dated September 29, 1989. Additionally, the NRC Staff requested a written description of the switching scheme for vital AC Buses C_1 and D_1 along with the supporting diagrams. The purpose of this letter is to provide the Staff with this additional information. The requested information is included in Attachment 1.

We trust you will find this information satisfactory, and we remain available to answer any questions you may have.

Very truly yours,

CONNECTICUT YANKEE ATOMIC POWER COMPANY

Mroczka

Senior Vice President

Hool

8911080403 891031 PDR ADOCK 05000213 P PNU

> cc: W. T. Russell, Region J Administrator A. B. Wang, NRC Project Manager, Haddam Neck Plant J. T. Shedlosky, Senior Resident Inspector, Haddam Neck Plant

Docket No. 50-213 B13395

Attachment 1

.

.

.

Haddam Neck Plant

Response to Request for Additional Information

October 1989

U.S. Nuclear Regulatory Commission B13395/Attachment 1/Page 1 October 31, 1989

Haddam Neck Plant Response to Request for Additional Information

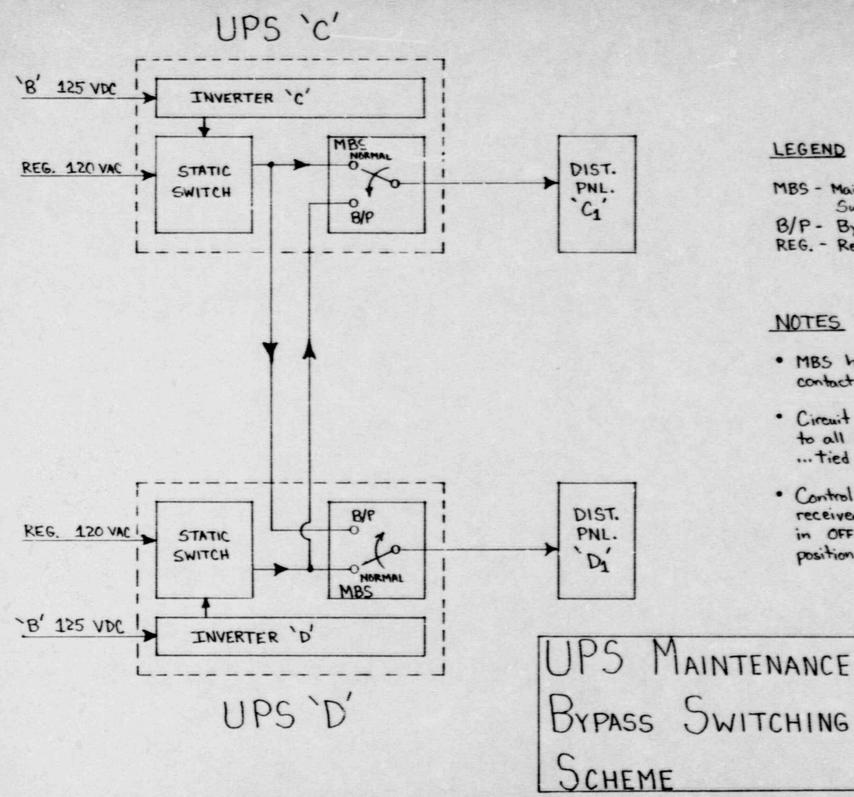
NRC Request:

Provide a written description of the switching scheme for vital AC buses C_1 and D_1 along with a supporting diagram.

Response:

Attached is a simplified diagram depicting the Maintenance Bypass Switching (MBS) Scheme contained within vital AC Uninterruptible Power Supplies (UPS) "C" and "D." This scheme makes possible the temporary backup of one UPS with the output of the other, as permitted under Technical Specification 3.8.3.1. This feature allows switching between vital AC supplies of the same ("B" Division) battery. The switch utilizes "break-before-make" contacts to prohibit the unintended paralleling of the cutputs of the two vital supplies. In addition, the off-normal position of the switch is alarmed in the control room as part of a common "trouble" alarm for the vital AC supplies.

Technical Specification 3.8.3.1 allows use of this scheme so long as the reactor protection trip signals for the inoperable supply are manually placed in the trip condition. A maximum operating time of 72 hours is allowed in this mude.



LEGEND

MBS - Maintainance Bypass Switch B/P - Bypass REG. - Regulated

NOTES

- · MBS has "break-before-make" contacts.
- · Circuit neutral is common to all panels and UPS's tied to station ground.
- · Control Room alarm received when MBS is in OFF-NORMAL (B/P) position.