



VERMONT YANKEE NUCLEAR POWER CORPORATION

SEVENTY SEVEN GROVE STREET
RUTLAND, VERMONT 05701

B.4.1.1
WVY 80-171
REPLY TO:

ENGINEERING OFFICE
TURNPIKE ROAD
WESTBORO, MASSACHUSETTS 01581
TELEPHONE 617-366-9011

December 18, 1980

United States Nuclear Regulatory Commission
Office of Inspection and Enforcement
Region I
631 Park Avenue
King of Prussia, Pennsylvania 19406

Attention: Mr. Boyce H. Grier, Director

References:

- a) License No. DPR-28 (Docket No. 50-271)
- b) USNRC Letter to VYNPC, dated July 18, 1980;
IE Bulletin 80-17, Supplement 1
- c) VYNPC Letter (WVY 80-116) to USNRC, dated
August 15, 1980
- d) VYNPC Letter (WVY 80-133) to USNRC, dated
September 19, 1980

Dear Sir:

Subject: Supplemental Response to IE Bulletin 80-17, Supplement 1

In reference (d), we provide a written description of our proposed design for SDV level monitoring. This response is being provided as a result of a verbal request from the site resident inspector for more detailed information concerning our installed level monitoring system.

In response to this request, the following is provided:

The level monitoring system installed consists of two (2) independent level monitoring systems manufactured by Drexelbrook Engineering Company. Each system monitors one of the scram discharge volumes (see Figure 2). The systems use capacitance probes for level detection. One probe is mounted in each scram discharge header at the lower point of the common header (see Figure 1). This probe provides an output signal to a Drexelbrook transmitter which varies proportionally with the level in the SDV. The transmitter in turn provides 1) local indication, 2) remote indication on Control Room Panel 9-5, and 3) an output signal to the SETCON controller which gives an alarm on Control Room Panel 9-5. It is anticipated that the alarm will be set at 10% which will correspond to approximately 0.6 inches.

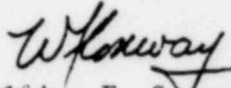
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The system was installed during the current refueling outage. After installation, the SDV was backfilled through the SIV and an ultrasonic sensor was used to measure the level in the SDV and verify proper operation of the system.

We trust that this supplemental information is satisfactory; however, should you desire additional information, please contact us.

Very truly yours,



William F. Conway
Vice President and
Manager of Operations

WFC/jh

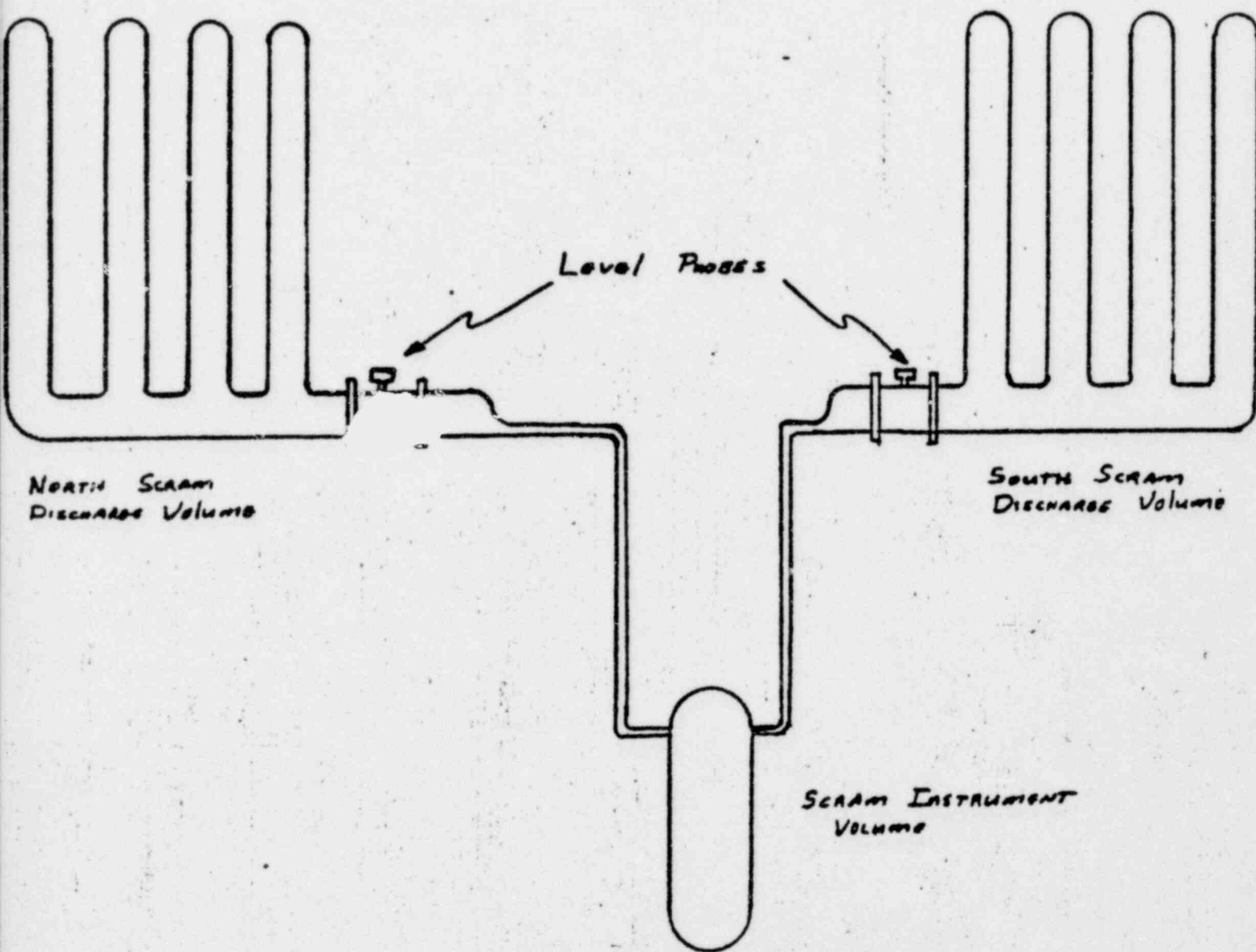


FIGURE 1
SDV LEVEL SYSTEM PROBE LOCATION

POOR ORIGINAL

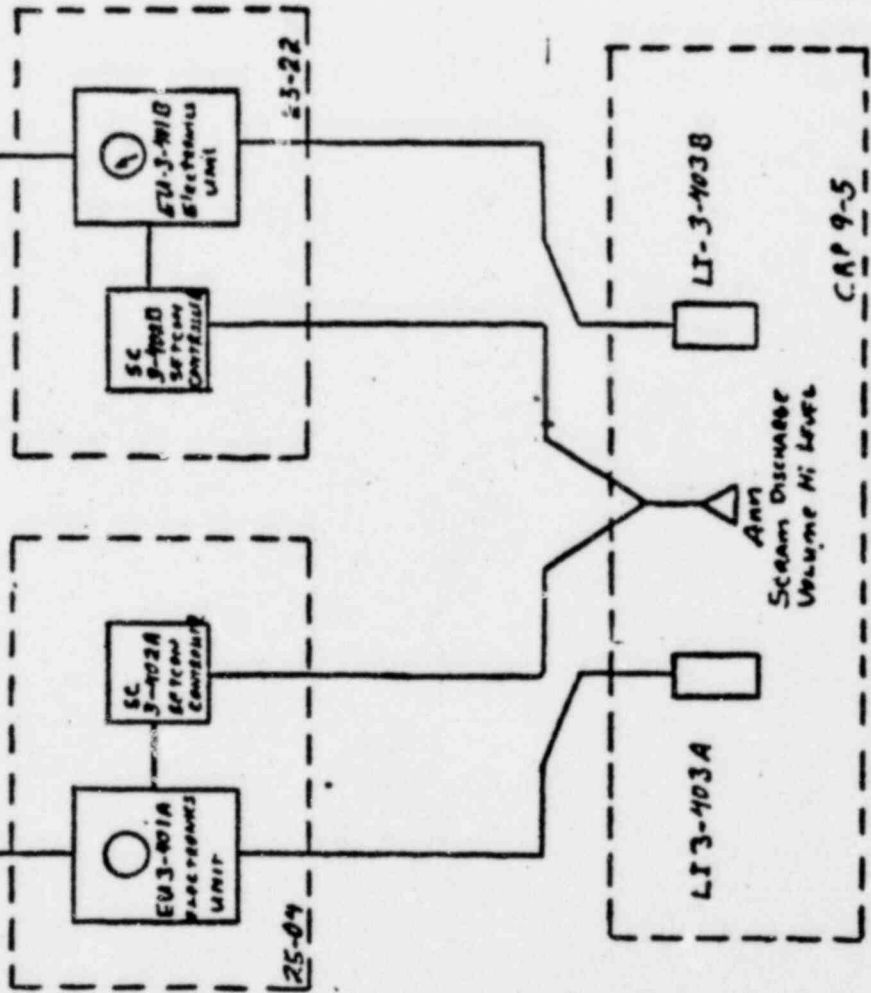
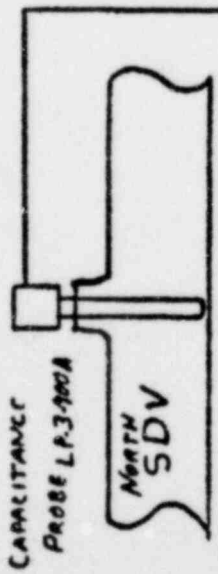
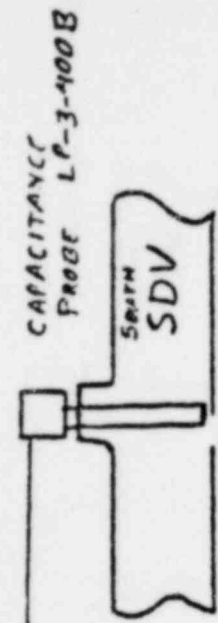


FIGURE 2

SCRAM DISCHARGE VOLUME LEVEL MONITORING SYSTEM