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MAINE YANKEE

ENGINEERING OFFICE
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B.3.2.1
WMY 80-74

May 7, 1980

United States Nuclear Regulatory Commission
Washington, D.C. 20555

Attention: Division of Licensing
Mr. Robert A. Clark
Operating Projects Branch #3

Reference: (a) License No. DPR-36 (Docket No. 50-309)
(b) MYAPC Letter to USNRC, dated March 5, 1980, WMY 80-39
(c) USNRC Letter to MYAPC, dated April 28, 1980

Subject: TMI Category "A" Item 2.1.8a - Post-Accident Sampling

Dear Sir:

In Reference (b), we committed to provide a conceptual design description for reactor coolant and containment atmosphere monitoring in order to meet the Category "B" requirements for this item. The attached descriptions and sketch provide that information.

We trust this information is satisfactory; however, if you have any questions, please contact us.

Very truly yours,

MAINE YANKEE ATOMIC POWER COMPANY

Robert H. Groce

Robert H. Groce
Senior Engineer - Licensing

RHG/kaf

Attachment

2.1.8a. Post-Accident Sampling Capability

A. Containment Atmosphere Sample

The containment air sampling station is at the hydrogen analyzer which is located in the Primary Auxiliary Building at Elevation-21'. A sampling device has been installed at the containment air sampling station. Procedures of obtaining and analyzing containment air sample were revised to include instructions for a sample of high activity concentration.

B. Reactor Coolant Sample

A proposed reactor coolant sampling system, a dilution unit, has been developed by Yankee staff engineers. The proposed system would provide the following capabilities:

(1) Manual operation from the front side of a shield wall with unit on the back side

(2) Obtaining a pressurized or unpressurized reactor coolant sample at the reactor coolant pressure and temperature

(3) Depressurizing the reactor coolant sample

(4) Diluting the dissolved gas sample and degassed liquid sample

(5) Obtaining dissolved gas sample and liquid sample with syringe

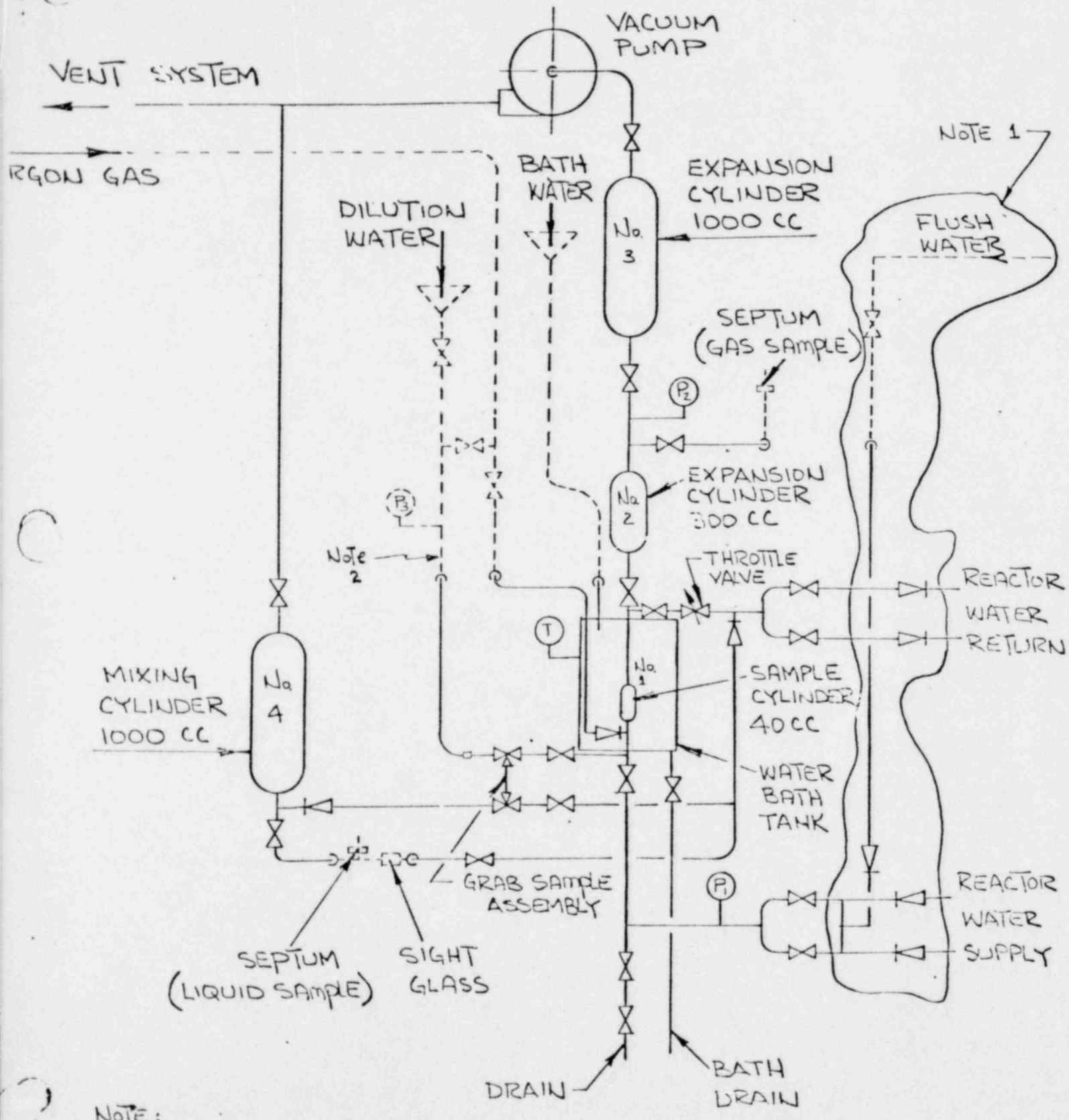
After the samples are taken from the sampling system, samples would be transported to the on-site Laboratory for the following analyses: isotopic and boron analysis on the liquid sample; isotopic and total dissolved gas concentration analysis on the dissolved gas sample.

A diagram of the proposed dilution unit is attached. The dilution unit is subject to modification during the testing of the prototype unit. The modified sampling system will be installed and operational by January 1, 1981.

ANKEE ATOMIC ELECTRIC COMPANY CALCULATION NO. _____ PAGE _____ OF _____

SUBJECT: POST ACCIDENT SAMPLING PANEL ~ SYSTEM DIAGRAM

PREPARED BY RTT DATE 4-16-80 REVIEWED BY _____ DATE _____ WORK ORDER NO. _____



NOTE:

1. TO BE LOCATED PLANT SPECIFICALLY NEAR SAMPLE SOURCE
2. HIDDEN LINES PENETRATE SHIELD WALL

POOR ORIGINAL