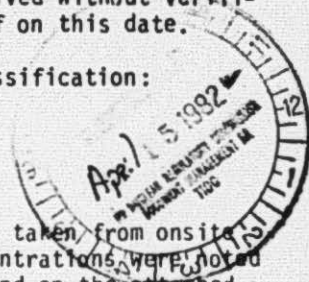


PRELIMINARY NOTIFICATION OF EVENT OR UNUSUAL OCCURRENCE--PNO-TMI- 82-08

This preliminary notification constitutes EARLY notice of events of POSSIBLE safety or public interest significance. The information is as initially received without verification or evaluation and is basically all that is known by NRC staff on this date.

Facility: GPU Nuclear Corporation  
Three Mile Island, Unit 2  
Docket No. 50-320

Licensee Emergency Classification:  
X Not Applicable



Subject: ONSITE GROUND WATER MONITORING PROGRAM UPDATE

The licensee reported the analytical results for ground water samples taken from onsite test borings in February and March of 1982. Changes in tritium concentrations were noted for test borings 2, 3, and 17. Locations of these borings may be found on the attached diagram.

A sample taken from test boring 17 on March 23, 1982, contained the highest tritium concentration of any sample taken to date (1,100,000 pCi/l). The previous highest reading for test boring 17 was 678,000 pCi/l, for a sample taken February 25, 1982. The previous highest reading for any test boring was for test boring 2, with a level of 954,000 pCi/l, for a sample taken February 12, 1982. More recent samples from test boring 2 have shown reduced levels of tritium, down to 30,900 pCi/l for a sample taken March 23, 1982. The tritium levels for test boring 3 went from about 2,400 pCi/l on March 9, 1982, to 24,700 pCi/l on March 23, 1982. The licensee has instituted a systematic program to identify the source of the tritium. At the present time the NRC is independently analyzing water samples taken from these test borings on April 8, 1982.

The maximum permissible concentration (MPC) of tritium in unrestricted areas, as required by 10 CFR Part 20, is 3,000,000 pCi/l. The increased concentrations remains below MPC. These increased tritium concentrations were only noted in the test borings near the Borated Water Storage Tank. The samples from aquatic environment in the TMI area did not indicate any apparent increase in tritium concentrations.

Media interest may occur because the licensee plans to issue a press release. The NRC does not plan to issue a press release at this time. The Commonwealth of Pennsylvania has been informed.

This preliminary notification is issued for information only and the NRC plans to continue monitoring events as they occur.

The NRC TMI Program Office received notification of this occurrence by continuous onsite reviews and this information was current as of 3:00 PM, today. A 10 CFR 50.72 report was evaluated as not being necessary.

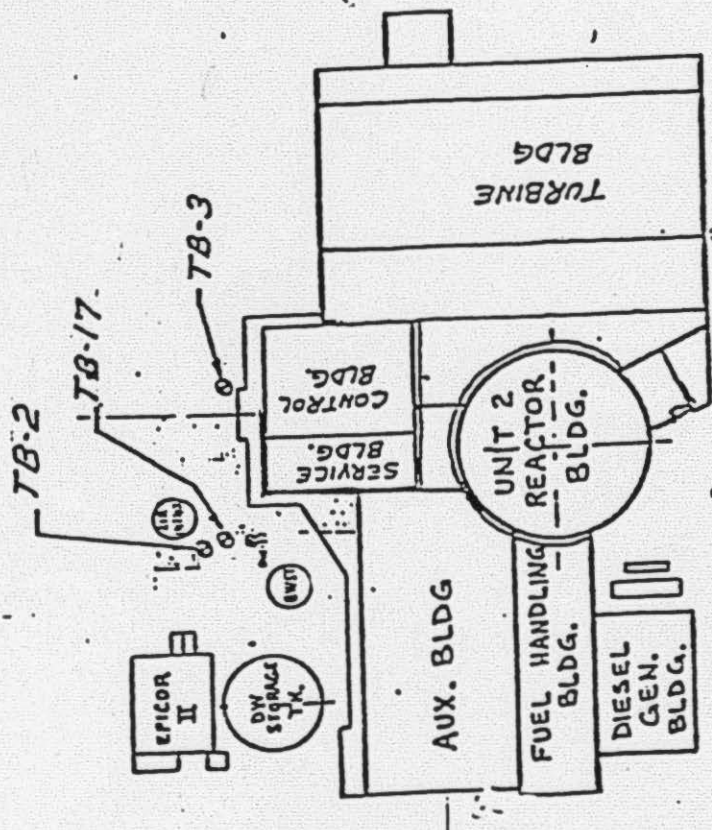
Contact: TMoslak 590-1141 MShanbaky 590-1140 AFasano 590-1123 LBarrett 590-1120

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# TEST BORING H<sup>3</sup> CONCENTRATIONS



SOUTH  
END OF  
ISLAND

