

January 24, 1983

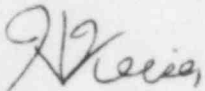
Mr. R.C. Haynes  
Director, Region I  
U.S. Nuclear Regulatory Commission  
631 Park Avenue  
King of Prussia, PA 19406

SUSQUEHANNA STEAM ELECTRIC STATION  
REPORT ON INADVERTENT RELEASE  
ER 100450 FILE 841-23  
PLA- 1502

Docket No. 50-387  
License No. NPF-14

Dear Mr. Haynes:

Attached please find a discussion of the inadvertent release which took place on December 21, 1982. This event was reported to the NRC via the ENS System telephone, however, post event analysis indicates this was not reportable. This letter should supply adequate information for your review.



H.W. Keiser  
Superintendent of Plant-Susquehanna

DGM/cw

Attachment

cc: Director of Nuclear Reactor Regulation  
Attention: Mr. A. Schwencer, Chief  
Licensing Branch No. 2  
Division of Licensing  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

G. Rhoads  
Resident Inspector  
U.S. Nuclear Regulatory Commission  
P.O. Box 52  
Shickshinny, PA 18655

## Attachment

Report on Inadvertent Release

On December 21, 1982, an unauthorized release of liquid radioactive waste was discharged from Susquehanna SES. The event was the result of inadvertently aligning the "C" and "D" Sample Tanks to the discharge line instead of the Laundry Drain Sample Tanks, as stated on the release permit. The release rate was 90 gpm and was stopped after three minutes.

Immediately after the individual noted the error, the Shift Supervisor was informed. The Chemistry group sampled the "C" and "D" Sample Tanks and calculations showed the release contained 4.82 micro Curies total, at a concentration of  $4.7E-6$  micro Curies/ml. These levels are well below the required reporting limits of 1 Curie. The isotopic analysis showed only two nuclides above the lower limit of detectability, and these were a factor of 10 below the maximum permissible concentration. These values were determined in the tank prior to dilution during the release. The operator in the radwaste facility failed to follow all steps as outlined in the AD-QA-310, "Station Water Management and Liquid Effluent Release". Specifically, this procedure requires one operator to perform the necessary valve line-up to accomplish a release, a second operator to verify the valve line-up, and the Radwaste Supervisor or Shift Supervision to approve the valve line-up prior to a release. In this instance, the valve line-up was made and the release commenced without either verification being made. To prevent recurrence, the following changes have been implemented:

1. A Release Status Board has been placed in the Radwaste Control Room. The operators will fill out this board with key parameters prior to a release occurring.
2. Each Shift has been given specific directions that the Auxiliary Unit Supervisor will be present in the Radwaste Control Room to verify:
  - A. the correct flow rate is dialed into the controller,
  - B. the correct tank(s) is being released, and
  - C. the correct setting is placed in the radioactivity monitor on the release path.
3. The Shift Supervisors are directly responsible for radwaste releases.

The changes to the radwaste release program, as listed above, and the adherence to the present procedures should eliminate similar occurrences.