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UNITED STATES NUCLEAR REGULATORY COMMISSION REGION I 631 PARK AVENUE KING OF PRUSSIA, PENNSYLVANIA 19406

Docket Nos. 50-277 50-278 OCT 1 9 1979

Philadelphia Electric Company ATTN: Mr. S. L. Daltroff Vice President Electric Production 2301 Market Street Philadelphia, Pennsylvania 19101

Gentlemen:

Enclosed is IE Circular No. 79-21, "Prevention of Unplanned Releases of Radioactivity," which provides information on inadvertent releases/onsite spills of radioactivity. Should you have any questions related to the enclosed suggested preventive measures, please contact this office.

Sincerely,

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Boyce H. Grier Director

Enclosures:

1. IE Circular No. 79-21

 List of IE Circulars Issued in the Last Six Months

cc w/encls: W. T. Ullrich, Station Superintendent Troy B. Conner, Jr., Esquire Eugene J. Bradley, Esquire Raymond L. Hovis, Esquire Michael J. Scibinico, II, Assistant Attorney General

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ENCLOSURE 1

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UNITED STATES NUCLEAR REGULATORY COMMISSION OFFICE OF INSPECTION AND ENFORCEMENT WASHINGTON, D.C. 20555

October 19, 1979

IE Circular No. 79-21

PREVENTION OF UMPLANNED RELEASES OF RADIOACTIVITY

Numerous incidents of unplanned releases of radioactivity have been reported to the NRC within the past few months. These incidents of leaks, overflows and spills have resulted in contamination of areas outside of plant buildings. The attached table provides you with summary information on these events, their apparent causes, the radiological consequences and the corrective actions.

We believe that a number of these incidents could have been avoided and preventive actions for these types of unplanned releases should be instituted by all reactor licensees. Based on the reported incidents, the following preventive measures can minimize the occurrence of such events.

- Review of procedures for transfer of radioactive liquids. Errors in written procedures have led to mistakes in valve line-ups and tank overflows. Written procedures, including check lists for valve lineups, should be developed and followed for operations which could cause spills of radioactivity. Management controls, including audits, should be employed to assure verbatim compliance with such procedures.
- Review of "as built" systems having the potential of inadvertent releases because of design or construction errors. Consider items such as:
 - a. Tank overflows should be routed to liquid radwaste tanks.
 - Storm drains should be located away from areas with a high potential for spills.
 - c. Consideration should be given to drip pans under equipment, such as pimps and valves, from which leakage is expected.
 - d. Cofferdams should be installed under doors to areas with a potential for radioactive spills.
 - Preoperational testing : that would permit radio: unit(s) under constructi

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 Periodically functionally tes of systems that could cause a corrosion degradation have oc to cause leaks. New permanen DUPLICATE DOCUMENT

Entire document previously entered into system under: ANO 7907220128 No. of pages: