

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 7909070421 DOC. DATE: 79/09/07 NOTARIZED: NO DOCKET #
 FACIL: 50-250 Turkey Point Plant, Unit 3, Florida Power and Light C 05000250
 50-251 Turkey Point Plant, Unit 4, Florida Power and Light C 05000251
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SUBJECT: Responds to NRC questions on flooding review including info on chemical & vol control sys, RHR compartments, switchgear rooms, charging pump, spray pump & boric acid transfer pump.

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TURKEY POINT FLOODING REVIEW
RESPONSE TO NRC QUESTIONS

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- 1.a) CVCS compartment alarms and waste holdup room sump pumps and alarms are not safety grade, thus, periodic surveillance testing is not covered by a plant procedure.
- b) Access to the CVCS holdup tank compartments is from the roof of the Reactor Auxiliary Building (RAB) at elevation 34'. The tanks and compartments start at elevation 10' 6", and the tanks are 44' high. In case of tank rupture, the contents would be contained within the compartment, and there would be no overflow to elevation 34'. Each compartment has a normally isolated drain line to the waste holdup room sump. There is a level alarm in the drain line upstream of the isolation valve. The alarm annunciates in the control room.
- 2.a) Access to the RHR compartments is blocked by wire mesh doors. The doors are under administrative control for Health Physics purposes and are normally locked closed.
- b) There are two separate RHR compartments at the 4' elevation. Each compartment has a level alarm and a sump with two sump pumps. The level alarms and sump pumps are not safety grade, thus, periodic surveillance is not covered by a plant procedure. The level alarms are powered from a vital source. The sump pumps are powered from a non-vital source.
- c) The RHR pump motors are ^{at least} 30" above the floor. The RHR MOV motors are all at least 30" above the floor.
- 3.a) The sumps, pumps, and alarms in the 4160V switchgear rooms were installed after floor drains backed up during a heavy rain in November, 1972. There are now two sumps in each switchgear room (1 Unit 3 room and 1 Unit 4 room), one on each side of the wall that divides the A-train equipment from the B-train equipment. Each sump has two level alarms and one sump pump with a capacity of approximately 50 gpm. The alarms and sump pumps are not safety grade, thus, periodic surveillance is not covered by a plant procedure. The level alarms are powered from a vital source. The sump pumps are powered from a non-vital source.
- b) The floor drains in both switchgear rooms have been terminated. In addition, grating covered drains have been installed outside the switchgear rooms in front of the main doors leading into the room. Buried PVC piping carries the drainage to the condenser pits. The drainage modifications that have been made preclude recurrence of the November, 1972 event, thus, the design of additional modifications regarding sumps, pumps, and alarms was based on engineering judgement rather than detailed calculations.

10: Marshall Stratton
from: G. D. Whitten (F.P.C. 2 pages)

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