



UNITED STATES  
ATOMIC ENERGY COMMISSION

WASHINGTON, D.C. 20545

RETURN

JAN 23 1970

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contractor visit*

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R. S. Boyd, Assistant Director for Reactor Projects  
Division of Reactor Licensing (2)

VIRGINIA ELECTRIC AND POWER COMPANY - SURRY 1 AND 2  
CO REPORT NOS. 50-280/69-8 AND 50-281/69-8

The enclosed report of an inspection of the subject facilities on October 28-31 and November 14, 1969, is forwarded for information and possible action. The possible action item is included in the last paragraph of this memorandum.

The report describes a number of deficiencies that were identified on the primary system piping that was fabricated by Southwest Fabricating and Welding Company (SWF&WCO). The deficiencies were detected during a site receipt inspection by contractor personnel. We will continue to follow the resolution and/or disposition of this piping during the next inspection scheduled for February 1970.

We conducted an inspection of SWF&WCO on May 6-7, 1969, in conjunction with the Diablo 1 facility, CO Report No. 275/69-5. At that time, we determined that a formalized quality assurance program had not been established. We plan to conduct a reinspection of SWF&WCO during March 1970 because they are a major supplier of prefabricated piping for both primary and engineered safeguards systems at a number of facilities under construction. This effort includes:

- a. Two contracts with Westinghouse, the first involving eight plants with 25 loops, and the second 18 plants with 55 loops with an option for four additional plants.
- b. One contract with General Electric for two plants.

The report highlights a number of design problems in the electrical instrumentation area. The first problem is concerned with the installation of all electrical and instrumentation cable penetrations at a single location in the containment building. The installation appears to be contrary to the requirements of the proposed "IEEE Standards for Nuclear Power Plant Protection Systems," Revision No. 8. The licensee believes that the separations requirements can be satisfied by judicious placing of cables. The second item is concerned with the installation of the two battery banks at one end of the same room with inadequate ventilation and only separated by an eight foot high concrete block wall. This installation

*Perkins stated "Westinghouse is inspecting at SWF&WCO and we are going to re-inspect here at the site - either for the will only inspect for identity and damage" Also reported that no one had looked inside the pipes*

*Perkins "What is your receiving inspection procedure on the primary piping?"*

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Attachment 12

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