

ANNUAL OPERATING REPORT FOR 1980

AS REQUIRED BY THE TECHNICAL SPECIFICATIONS FOR THE

WESTINGHOUSE NUCLEAR TRAINING REACTOR

FACILITY LICENSE NO. R-119

DOCKET NO. 50-87

1. NARRATIVE SUMMARY

The Westinghouse Nuclear Training Reactor (NTR) was operated in a routine manner during 1980. Operations included training for customers and for licensed operator trainees. Required procedures were routinely performed for surveillance testing. Seven irradiations were performed, all of them gold or indium foils used for training or for power calibration surveillance testing.

No changes were made in the design of the facility related to reactor safety.

During the year the Physical Security Plan for the Westinghouse Nuclear Training Reactor was revised and submitted to the Nuclear Regulatory Commission for approval. The security plan was revised to reflect the interim "upgrade rules" for the physical security of Special Nuclear Material.

2. ENERGY GENERATED AND HOURS OPERATIONAL

The reactor generated 50.9 kilowatt hours of energy and was operational for 1,989.1 hours.

### 3. INADVERTENT REACTOR TRIPS

There were 165 inadvertent reactor trips during the year. Of these, 156 were due to trainee errors and 9 were due to equipment malfunctions. The number of inadvertent trips is directly proportional to the number of customer trainees who operate this training reactor.

### 4. SUMMARY OF FACILITY CHANGES

No tests or experiments were conducted under the conditions of 10CFR50.59.

### 5. RADIOACTIVE EFFLUENTS

No releases of radioactive effluents beyond the control of the licensee were made during 1980.

### 6. MAINTENANCE

During the operational year, no major maintenance was performed. The performed maintenance was both scheduled and unscheduled, and routine in nature. It consisted of removing, replacing or repairing worn and/or failed system components. In no case were the safety system functions for the reactor impaired or jeopardized. The maintenance is summarized as follows:

- a) Replaced the high voltage power supply for the source range nuclear instrumentation due to faulty output voltage indications.
- b) Replaced a failed control rod drive motor and gear box.
- c) Replaced a faulty signal lead between the amplifier and a neutron level detector
- d) Removed and replaced a faulty diaphragm in one of the moderator fill valves.