

Radiation Center



Corvallis, Oregon 97331 (503) 754-2341

February 26, 1990

U.S. Nuclear Regulatory Commission
ATTENTION: Document Control Desk
Washington, D. C. 20555

Gentlemen:

Reference: Oregon State University TRIGA Reactor (OSTR), Docket No. 50-243,
License No. R-106

On September 13, 1989, Oregon State University transmitted a document containing all annual report information required by applicable sections of the OSTR Technical Specifications. However, in our letter accompanying the initial report we also indicated that at a later date we would submit the final comprehensive version of our annual report covering the entire OSU Radiation Center and TRIGA Reactor. We are now providing you with our more comprehensive report for your review. Please note that we are also using this letter of transmittal to send copies of the current report to Mr. Al Adams, Project Manager, USNRC, Washington, D.C.; to Mr. Don Carlson, Division of Reactor Inspection & Safeguards, USNRC, Washington, D.C.; and to the USNRC's Region V office.

This year's annual report continues to include significantly more information about the entire Radiation Center rather than concentrating primarily on the reactor. Because the report addresses a number of different interests, it is rather lengthy, but we have incorporated a short executive summary which highlights the Center's activities and accomplishments over the past year. I hope you will find this summary helpful.

The 1988-89 reporting period was very successful for the Radiation Center. While I will try to avoid simply restating information presented in the executive summary, I would like to report that we experienced increased use of the Radiation Center and reactor in a number of areas. For example, the reactor showed a 4% increase in total hours at full power and continued to be in use 90% of the available 45-hour work week. This is about the maximum possible use for a one-shift operation. The Center also continued to accommodate a large variety of undergraduate and graduate classes as well as student projects, and showed a 7% overall increase in the number of reactor hours devoted to research. We finished the year with a large (51%) increase in the number of faculty using the Radiation Center for teaching and research, a 6% increase in the number of research and service projects performed, and a 10% increase in the number of universities using our facilities. The cobalt-60 irradiator also showed a 26% increase in the number of irradiations

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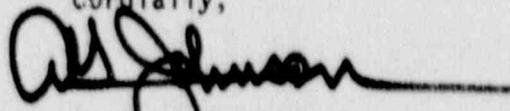
performed using this device. We are again pleased with these results because they continue to reflect an increase in our assistance to OSU as well as to other universities within (and outside) the Oregon State System of Higher Education, and to a number of state and federal agencies.

Scholarly publications involving a major contribution by the Radiation Center also increased approximately 10% during the 1988-89 interval. Considering publications currently in print, plus those we expect will be published, a total of about 109 refereed articles involving a significant contribution by the Radiation Center will ultimately appear in the technical literature. There were also 29 presentations at professional meetings where the Center supported the development of the research data reported.

As a final statistic, the Radiation Center continued to be a popular place to visit. Once again we hosted over 800 visitors during the year.

We hope you will find this more detailed report to be of interest. Should there be any questions, please let me know.

Cordially,



A. G. Johnson
Director

AGJ:jrs

Enclosure

cc w/enclosure:

Non-Power Reactor, Decommissioning, and Environmental Projects
Directorate, USNRC, Washington, D.C., ATTN: Mr. Al Adams (1 copy)
Division of Reactor Inspection & Safeguards, USNRC, Washington, D.C.,
ATTN: Mr. Donald Carlson (1 copy)
Regional Administrator, USNRC, Region V, Walnut Creek, CA (2 copies)

cc w/out enclosure:

H. Moomey, Oregon Department of Energy
T. V. Anderson, OSTR Reactor Supervisor, OSU
S. E. Binney, Chairman, OSTR Reactor Operations Committee
B. Dodd, OSTR Reactor Administrator, OSU
J. F. Higginbotham, Senior Health Physicist, OSU
D. S. Pratt, Health Physicist, OSU