

**DIVISION 30  
RESEARCH REACTORS**

**Reporting of Operating Information from Research and Other Reactors  
That Produce Less Than 200,000 Thermal Kilowatts**

**345-030-0005**

**General**

This rule applies to each research or other reactor in the State of Oregon that is designed to produce less than 200,000 thermal kilowatts. The intent of the rule is to ensure that the Energy Facility Siting Council is advised of the operation of such reactors.

Stat. Authority: ORS 469.470

Stat. Implemented: ORS 469.501

**345-030-0010**

**Reports Required**

(1) Annual Reports of Environmental Effects. By August 1 of each calendar year, the operator of any reactor described in OAR 345-030-0005 shall submit a report to the Council that contains the following information on reactor operation during the previous calendar year:

(a) The total amounts (measured or calculated) of radioactivity released to the environment in gaseous, liquid or solid effluents.

(b) The radionuclides present in these effluents and the quantities of principal radionuclides.

(c) The location and magnitude of the maximum measured or calculated direct radiation level in unrestricted areas from:

(A) Direct radiation from the facility;

(B) Direct radiation from facility effluents.

(d) A description of the general methods and the results of environmental monitoring.

(2) Notification of Incidents

(a) The operator of any reactor described in OAR 345-030-0005 shall promptly notify the Council by telephone of the occurrence of any incident or condition relating to the operation of the reactor that could have prevented a nuclear system from performing its safety functions as described in the Technical Specifications, as set forth at 10 CFR 50.36 in effect January 2006, or in the Safety Analysis Report, as required by 10 CFR 50.34, in effect January 2006. In addition, the operator shall submit a written report within 10 days after the occurrence.

(b) The operator of any reactor described in OAR 345-030-0005 shall notify the Council in writing within 30 days after the occurrence of any substantial variance from performance specifications contained in the Technical Specifications or Safety Analysis Report.

(3) Reports of Overexposures (from the reactor and its effluents) and Excessive Levels or Concentrations

(a) The operator of any reactor described in OAR 345-030-0005 shall promptly notify the Council by telephone if any of the following events occur:

(A) Exposure (from the reactor or its effluents) of the whole body of any individual to 25 rems or more of radiation; exposure of the skin of the whole body of any individual of 150 rems or more; or exposure of the feet, ankles, hands, or forearms of any individual to 375 rems or more of radiation.

(B) The release of radioactive material in concentrations that, if averaged over a period of 24 hours, would exceed 5,000 times the applicable limits specified for such material in the Technical Specifications for effluents under 10 CFR 50.36a or personnel exposure regulations under 10 CFR 20.

(b) The operator of any reactor described in OAR 345-030-0005 shall notify the Council by telephone within 24 hours if any of the following events occur:

(A) Exposure (from the reactor or its effluents) of the whole body of any individual to 5 rems or more of radiation; exposure of the skin of the whole body of any individual to 30 rems or more of radiation; or exposure of the feet, ankles, hand, or forearms to 75 rems or more of radiation.

(B) The release of radioactive material in concentrations that, if averaged over a period of 24 hours, would exceed 500 times the applicable limits specified for such materials in the Technical Specifications for effluents under 10 CFR 50.36a or personnel exposure regulations under 10 CFR 20.

(c) The operator of any reactor described in OAR 345-030-0005 shall notify the Council in writing within 30 days after occurrence of the events described in subsections (A) and (B) below. Each report required shall describe the extent of exposure of persons to radiation or to radioactive material, including estimates of each individual's exposure; the levels of radiation and concentrations of radioactive material involved; the cause of the exposure, levels or concentrations; and the corrective steps taken or planned to ensure against a recurrence.

(A) Exposure (from the reactor or its effluents) of an individual to radiation or concentrations of radioactive material in excess of any applicable limits specified in U.S. Nuclear Regulatory Commission regulations or in the reactor operating license required under 10 CFR 50.10.

(B) Levels of radiation or concentrations of radioactive material (not involving excessive exposure of any individual) in an unrestricted area in excess of ten times any applicable limit specified in U.S. Nuclear Regulatory Commission regulations or in the operating license for the reactor.

(4) Correspondence with Other State or Federal Agencies. The operator of any reactor described in OAR 345-030-0005 shall provide to the Council a copy of each report related to reactor operations that the operator submits to a state or

federal agency, except for material withheld from public disclosure under 10  
CFR, Part 2, Section 790.

Stat. Authority: ORS 469.470

Stat. Implemented: ORS 469.501