

NUCLEAR AND THERMAL ENERGY COUNCIL

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TOM McCALL
GOVERNOR

April 3, 1972

W. KELLY WOODS
Coordinator

Dr. Robert MacVicar, President
Oregon State University
Corvallis, Oregon 97331

Dear President MacVicar:

In compliance with ORS 453.305 to 453.575, and 453.994, this document, when executed, shall constitute a site certificate for a nuclear installation as defined in ORS 453.305(7). The certificate must be executed by the President and Secretary of the State Board of Higher Education acting in behalf of Oregon State University pursuant to resolution of the Board.

The nuclear installation covered by this site certificate is the TRIGA Mark II research reactor located in the Radiation Center on the campus of Oregon State University, Corvallis, Oregon. We are advised that this research reactor has been in operation since March 1967. The reactor is further described as follows:

Rated operating level : 1 Mw-steady state
4200 Mw-pulsing mode

Type of fuel: Alloy of U and ZrH 8.5% U (20% U-235)
Stainless steel cladding

Moderator: Water, ZrH, graphite reflector

Method of control: Four B₄C impregnated graphite control rods. Three with a fueled follower, the fourth with an air-filled follower

Experimental facilities that penetrate reactor shielding:

1. Four 6" diameter beam ports - three radial to the core, the fourth tangential.
2. One graphite thermal column - approximately 4' by 4' by 5.5' long.
3. One graphite thermal column - approximately 2' by 2' by 4.5' long.

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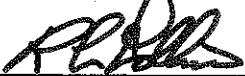
Oregon State University is exempt from payment of any fees to the State of Oregon in connection with this site certificate. However, in executing this site certificate Oregon State University agrees to abide by the conditions of all licenses, permits and certificates required by the State of Oregon or any subdivision of the State to operate the plant or installation and issued prior to June 30, 1971 and to comply with all applicable provisions of ORS 453.305 to 453.575, and 453.994, and all rules adopted by the Nuclear and Thermal Energy Council. Oregon State University further agrees to advise the Council of any proposed change in the above-described installation. Such proposed changes may be considered an expansion of a nuclear installation for which a new site certificate would be required under the terms of ORS 453.325.

Duplicate originals of this document will be provided to the State Board of Higher Education, the Nuclear and Thermal Energy Council at its offices in Salem, Oregon, the Oregon Secretary of State in the Capitol Building, and the Office of the County Clerk of Benton County, Corvallis, Oregon.

For the State Board of Higher Education:



President



Secretary

For the State of Oregon:



Governor



Secretary of State