

APPLICATION FOR SENIOR REACTOR OPERATOR'S LICENSE

TROJAN NUCLEAR POWER PLANT

C. A. Olmstead

A. BASIC INFORMATION

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| 1. Applicant's Full Name: | Clyde Arthur Olmstead |
| 2. Citizenship: | USA, by birth |
| 3. Age: | 39, born September 11, 1939 |
| 4. Address: Business: | Trojan Nuclear Power Plant
P.O. Box 439
Rainier, Oregon 97048 |
| Home: | Rt. 3 Box 3029A
Warren, Oregon 97053 |
| 5. Present Employment: | Portland General Electric Co.
121 SW Salmon
Portland, Oregon 97204 |

B. EDUCATION AND PERTINENT EXPERIENCE

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| 1. Education: | |
| 1954 - 1957 | Denison High School
Denison, Iowa
Graduated |
| 1957 - 1961 | South Dakota School of Mines & Tech.
Rapid City, South Dakota
B.S. M.E. |
| 1971 | University of Idaho
Moscow Idaho
M.S. M.E. |
| 2. Experience | |
| June 1961 - September 1964 | Reactor Engineer
Engineering Test Reactor
NRTS, Idaho |
| September 1964 - November 1966 | Senior Reactor Engineer,
Assistant Coordinator
Advance Test Reactor
NRTS, Idaho |

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2. Experience, Cont.

November 1966 - November 1968	Mechanical Maintenance Staff Engineer Testing Reactor Area Maintenance NRTS, Idaho
November 1968 - August 1969	AP-PM Supervisor Testing Reactor Area Maintenance NRTS, Idaho
August 1969 - July 1971	Senior QA Engineer W PWRSD Pittsburgh, Pa.
July 1971 - March 1976	Senior Development Engineer Principle Development Engineer W PWRSD Pittsburgh, Pa.
March 1976 - Present	Maintenance Supervisor Trojan Nuclear Plant Portland General Electric

C. TRAINING IN PREPARATION FOR LICENSING

1. Simulator Training:

Appendix A.5: Two week Simulator Training Program from September 6 - 21, 1978.

2. Onsite Training:

a. Appendix A.3: Operational Quality Assurance from April 12, 1976.

b. Lectures: The applicant received 214 hours of formal classroom presentation in the following areas:

1. Refueling	5 hours
2. Radiation Protection	12 hours
3. Plant Systems	20 hours
4. Instrument & Control	53 hours
5. Radioactive Waste Handling	4 hours
6. Administrative and Operating Procedures	16 hours
7. Plant Characteristics & Control	16 hours
8. Security	2 hours
9. Safety	2 hours
10. Radiological Emergency Response Plan	4 hours
11. Technical Specifications	16 hours
12. EHC & Turbine Control	4 hours
13. Reactor and Nuclear Physics	22 hours
14. Plant Transients	10 hours
15. Accident Analysis	6 hours
16. Core Physics	16 hours

17. Chemistry	6 hours
18. Study & Review	20 hours
19. Quizzes & Tests	<u>30 hours</u>

Total	264 hours (Includes Study, Review, Quizzes & Tests)
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- c. Self Study and Review: 2 Months (\approx 346 hrs.) were allotted applicant for self study, review, and system checkouts.
- d. The applicant has participated in a pre-license review series which commenced on November 13, 1978 and will be completed December 2, 1978 totalling 120 hours of classroom instruction.
- e. System Checkout: Applicant has completed qualification checkout forms on all of the Nuclear Steam Supply and the important balance of plant systems.
- f. Activities: Applicant is in the full time Senior Reactor Operator Training Program and will assume his normally assigned position of Maintenance Supervisor upon completion of the program.

D. CERTIFICATION

This application is a complete and accurate disclosure of all information required by 10 CFR 55 for operator's license application to the best of my knowledge.



C. A. Olmstead

WESTINGHOUSE NUCLEAR TRAINING CENTER
REACTOR STARTUP EVALUATION

Date 9/21/78

Name ART OLMSTEAD

Company PORTLAND GENERAL ELECTRIC

SUMMARY OF EXAMINATION:

1. Ability to manipulate the controls and keep the reactor under control during a reactor startup.
2. Ability to predict instrument response and use the instrumentation during a reactor startup.
3. Ability to follow the facility startup procedure.
4. Ability to explain alarms and annunciators that may occur during this operation.

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Examiner Karl R. Larsen

☒ PASSED

☐ FAILED

Approved by: _____

Manager, Westinghouse Nuclear Training Center

APPENDIX A

A.1 Westinghouse Reactor Startup Certification Simulator Program

Reactor startup certifications were received by the applicant through an NRC-approved program conducted at the Westinghouse Reactor Evaluation Center, Zion, Illinois. This program was conducted over a seven-day period with each applicant conducting a minimum of four reactor start-ups. The week was culminated with a final written examination and reactor startup certification.

A.2 Electrical Switching

The switchyard training program was conducted at the United States Department of Interior's Bonneville Power Administration Switchyard Operator's Training Facility in Vancouver, Washington. This program encompassed 80 hours of classroom and practical instruction on electrical switching and relaying. Particular emphasis was placed on the safety aspects of switchyard operations.

A.3 Operational Quality Assurance

This training fulfilled the minimum requirements of the Orange Book guidance for compliance with Criterion 11 of Appendix B, 10 CFR 50. The course explained each of the eighteen criteria of Appendix B, 10 CFR 50 as well as the requirements for quality assurance, overall company policies, procedures and organization which establish the quality assurance program and the instructions which implement the quality assurance program.

A.4 Pre-License Review Series

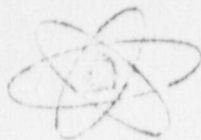
One 120-hour comprehensive review course was conducted onsite in preparation for the NRC Hot License examinations.

Upon completion of the review course, Hot Reactor Operator examinations were administered to the candidates. The examinations included a written examination, an extensive oral and plant walk-through, and a simulated reactor startup dissertation.

A.5 Westinghouse Expanded Simulator Review Course (Option III)

This program was conducted over a 14 day period with each applicant conducting a minimum of four reactor start-ups. This program gives an extensive introduction to power plant operations. The two-week period was culminated with a final written examination and a reactor start-up certification.

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Portland General Electric Company
Trojan Nuclear Plant
P.O. Box 439
Rainier, Oregon 97040

November 13, 1978
BDW-1082-78

United States Nuclear Regulatory Commission
7920 Norfolk Ave.
Bethesda, Maryland 20014

Attention: Mr. P. F. Collins, Chief
Operator Licensing Branch

Gentlemen:

Pursuant to Section 55.10 of 10 CFR 55, application is hereby made for a Senior Reactor Operator's License examination for the following personnel:

<u>APPLICANT</u>	<u>POSITION</u>
J. N. Pickett (OP-4754)	Training Assistant 55-5279
C. A. Olmstead	Maintenance Supervisor
K. G. Erickson (OP-4112-3)	Control Operator 55-5682

I certify that the applicants have participated in the training program as denoted in their applications, that the applicants are thoroughly familiar with the design, operation, controls, instruments, and safety systems of the Trojan Nuclear Plant. Senior Reactor Operator's Licenses are desired to provide flexibility and backup capability in our maintenance, operations and training staff.

Medical certifications for Mr. Olmstead and Mr. Erickson are attached to the individual license application. Mr. Pickett's medical certification will be forwarded by separate correspondence.

In accordance with Section 55.24 of 10 CFR 55, waiver of the operating test for Mr. Pickett and Mr. Erickson is requested. Waiver of the startup demonstration portion of the operating test for Mr. Olmstead is requested. A startup certification from the Westinghouse Simulator in Zion, Illinois is attached to Mr. Olmstead's license application.

The facility will be made available to the examiner for the license examination during the week of December 11, 1978.

Sincerely,

B. D. Withers
Plant Superintendent

BDW/DFK/jy

CC: C. Goodwin, Jr.
R. Barkhurst
F. Lamoureux