

EXXON NUCLEAR COMPANY, Inc.

2101 Horn Rapids Road

P. O. Box 130, Richland, Washington 99352

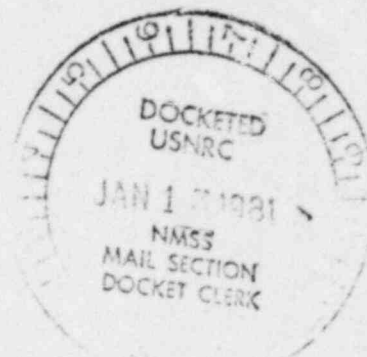
Phone: (509) 375-8100 Telex: 15-2878

LPDR

70-1257

December 29, 1980

Mr. W. T. Crow, Section Leader
Uranium Process Licensing Section
Uranium Fuel Licensing Branch
Division of Fuel Cycle & Material Safety
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555



License No. SNM-1227
Docket No. 70-1257

RECEIVED
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Dear Mr. Crow:

SUBJECT: Application to Amend License No. SNM-1227

REFERENCE: Amendment Application Dated November 21, 1980

Exxon Nuclear Company, Inc. herein submits the three outstanding resumes of members of Company management mentioned, but not contained in the referenced Amendment Application.

Seven copies of appropriately modified pages of Document No. XN-2 are enclosed.

Sincerely,

H. Paul Estey, Manager
Licensing & Compliance,
Operating Facilities

HPE:clc
Enclosures (as noted)

cc: Mr. W. J. Cooley (USNRC, Region V IE)
Mr. J. G. Partlow (USNRC, Material Control Licensing Branch)

add'l info

8104080094

AN AFFILIATE OF EXXON CORPORATION

18185

ENCLOSURE

SUMMARY OF CHANGES IN DOCUMENT NO. XN-2

<u>Page No.</u>	<u>Section No.</u>	<u>Change</u>
A-4.2	A-4.1	Added experience to resume, and thereby adding pages A-4.2a, A-4.2b & A-4.2c.
A-4.6	A-4.5	Added experience to resume, and thereby adding page A-4.6a.
A-4.26	A-4.25	Added experience to resume, and thereby adding page A-4.26a.

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Section/Appendix/Attachment ID:	Attachment A - Applicant Information	Rev.
4.1	<p data-bbox="310 427 1154 466"><u>President & Chief Executive Officer</u> - P. R. McMurray</p> <p data-bbox="310 534 464 566"><u>Education</u></p> <p data-bbox="310 593 1284 629">BS Engineering 1946 U.S. Naval Academy</p> <p data-bbox="310 697 480 729"><u>Experience</u></p> <p data-bbox="310 793 464 825"><u>1946-1947</u></p> <p data-bbox="310 853 1192 889">U. S. Navy, Ensign - Communications Officer--Destroyer</p> <p data-bbox="310 923 464 955"><u>1947-1950</u></p> <p data-bbox="310 983 1354 1119">Radiation Protection Engineer and Area Supervisor. Provided operating radiation safety services to radiochemical plants and production reactors at the Hanford Atomic Products Operation (HAPO), General Electric Co., Richland, WA.</p> <p data-bbox="310 1153 391 1185"><u>1950</u></p> <p data-bbox="310 1212 1341 1349">Staff Assistant - Design Liaison, Radiological Sciences. Provided radiological safety input to design of research and development laboratory facilities and radiochemical separations plants at HAPO, General Electric Co., Richland, WA.</p> <p data-bbox="310 1383 472 1415"><u>1951-1952</u></p> <p data-bbox="310 1442 1357 1544">Operating Supervisor, Reactor Operations. Supervised shift operation of a production reactor at HAPO, General Electric Co., Richland, WA.</p> <p data-bbox="310 1578 472 1610"><u>1953-1954</u></p> <p data-bbox="310 1638 1360 1740">Supervisor-Gaseous Extraction Production Unit. Supervised operational startup and production of the production operation at HAPO, General Electric Co., Richland, WA.</p> <p data-bbox="310 1774 391 1806"><u>1954</u></p> <p data-bbox="310 1834 1347 1970">Plant Engineer-Manufacturing Engineering - Chemical Separations Department. Managed engineering studies for a new production plant for gaseous extraction at HAPO, General Electric Co., Richland, WA.</p>	
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	<p><u>1954-1955</u></p> <p>Superintendent-Production Reactor Unit. Managed the operation of 100-F Production Reactor at HAPO, General Electric Co., Richland, WA.</p> <p><u>1955-1956</u></p> <p>Manager-Radiological Engineering Section, Radiological Sciences. Managed radioactive waste disposal engineering and equipment development studies for all types of waste management and monitoring of same at HAPO, General Electric Co., Richland, WA.</p> <p><u>1956-1958</u></p> <p>Technical Specialist - Reactor and Fuels Operation. Established operating requirements; review and consultation with designers to assure safe operable and maintainable Plutonium Recycle Test Reactor. Recruited and trained an organization to operate the Test Reactor at HAPO, General Electric Co., Richland, WA.</p> <p><u>1958-1963</u></p> <p>Manager-Purex Operation, Chemical Processing Department. Plant Manager of a large radiochemical separation plant producing plutonium and uranium, and treating high level radioactive waste at HAPO, General Electric Co., Richland, WA.</p> <p><u>1964-1966</u></p> <p>Consultant-Business Effectiveness for General Electric Co. turbine and instrument plants in Lynn, MA, and for other departments throughout G.E. Resident assignment from Corporate Management Development staff to conduct management training programs.</p> <p><u>1967</u></p> <p>Manager-Supervisory Systems Business Section, Instrument Department. Managed marketing, engineering and manufacturing of supervisory systems equipment for electrical and industrial markets for General Electric Co. at Lynn, MA.</p>	5
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<p><u>1968-1970</u></p> <p>Manager, Manufacturing-Aerospace Instruments, Aerospace Electrical Equipment Department. Managed all manufacturing and facilities work including acquisition, construction and startup of new facilities for approximately 1000 employees in four plant locations producing aircraft engine instruments, mass flow meters, and flight reference systems for General Electric Co. at Wilmington, MA.</p> <p><u>1970-1971</u></p> <p>Manager, Business Development, Exxon Nuclear Company, Inc., Bellevue, WA. Also managed marketing activities for sale of nuclear fuel.</p> <p><u>1971-1974</u></p> <p>Manager of Fuel Reprocessing Task Force and Department for Exxon Nuclear Company, Inc. in Bellevue, WA. Managed the effort to develop, engineer, and attempt to license a large chemical reprocessing facility for the purpose of recycling plutonium and uranium in the fuel cycle for light water nuclear power plants.</p> <p><u>1974-1977</u></p> <p>Vice President and General Manager of Fuel Reprocessing Department, Exxon Nuclear Company, Inc. Bellevue, WA. In addition to efforts to develop processes and equipment, engineer and design the reprocessing plant, sites were acquired in Tennessee, and associated environmental studies were completed. The license application proceeded until the Federal Government indefinitely deferred the licensing of such facilities.</p> <p><u>1977-1980</u></p> <p>Vice President, Executive-in-Charge of Marketing and Uranium Operations, Exxon Nuclear Co., Inc., Bellevue, WA. Member of Board of Directors of Exxon Nuclear and managed the marketing of all commercial products and the acquisition of all uranium supplies. President of Exxon Nuclear International, Inc., an</p>		5
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<p>affiliate of Exxon Nuclear Co., Inc., which markets uranium and fabricated fuel in Europe with headquarters in Brussels, Belgium. Member of the Board of Directors of Exxon Nuclear Idaho Co., an affiliate of Exxon Nuclear Co., Inc., which operates the chemical reprocessing plant for DOE at its Idaho Falls, Idaho operations.</p> <p><u>Present</u></p> <p>Appointed President & Chief Executive Officer and Chairman of Board of Directors of Exxon Nuclear Co., Inc., Bellevue, WA.; effective 1/1/81.</p>		5
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4.5	<u>Manager, UO₂ Plant - K. P. Galbraith</u>	
	<u>Education</u>	
	BES Chemical Engineering 1966 Brigham Young University	
	PhD Chemical Engineering 1970 Oregon State University	
	<u>Experience</u> <u>1970-1974</u> Senior Engineer, Exxon Nuclear Company, Inc., in Fuel Design and Engineering. Individual contributor in the design and analysis of nuclear fuel up to and including development of product specifications for fuel pellets, fuel rods and fuel elements. <u>1974-1975</u> Manager, Thermal Hydraulic Design, Exxon Nuclear Company, Inc. - responsible for the design analysis and model development for licensing, and design basis for evaluation of all hydraulic and thermal performance attributes of nuclear fuel elements; responsible for 2 - 4 technical personnel required to satisfy job requirements. <u>1975-1977</u> Manager, Fuel Response Analysis, Exxon Nuclear Company, Inc. - responsible for the development of analytical model for evaluating the projected performance of nuclear fuel during off-normal operating conditions (i.e., accidents, incidents), as well as the development of poolside examination programs for irradiated fuel; responsible for 2 - 4 technical personnel. <u>1977-1979</u> Manager, Nuclear Safety Engineering, Exxon Nuclear Company, Inc. - responsible for the development of analytical models for predicting reactor performance during off-normal operating (i.e., accidents, incidents), and the presentation of reactor operating limits from analysis results; responsibility for 15 - 25 technical personnel, as well as 5 - 10 outside technical consultants regarding reactor safety.	5
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<p><u>1979-1980</u></p> <p>Manager, Fuel Design Engineering, Exxon Nuclear Company, Inc. — responsible for the design bases, product specification and the design of the components required for assembly of nuclear fuel elements; responsible for 15 ~ 25 technical personnel.</p> <p><u>1980-Present</u></p> <p>Manager, UO₂ Plant, Exxon Nuclear Company, Inc. — responsibilities include chemical conversion, pelletizing and sintering, rod assembly and fuel element assembly in the UO₂ plant; responsible for 8 - 10 management personnel and approximately 150 support personnel.</p>		5
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4.2	<p><u>Vice President, Engineering & Technology - S. J. Beard</u></p> <p><u>Education</u></p> <table border="0"> <tr> <td>BA</td> <td>Chemistry</td> <td>1952</td> <td>University of Minnesota</td> </tr> <tr> <td>BS</td> <td>Chemical Engineering</td> <td>1954</td> <td>University of Washington</td> </tr> <tr> <td>MS</td> <td>Management</td> <td>1969</td> <td>Mass. Institute of Tech.</td> </tr> </table> <p>Washington State Professional License - Chemical Engineer</p> <p><u>Experience</u></p> <p><u>1954-1965</u></p> <p>Various capacities in the nuclear industry at the Hanford Atomic Products Operation (HAPO) with General Electric Co. under a prime contract to the AEC.</p> <p><u>1965-1968</u></p> <p>Manager, Processing Engineering-responsible for developing the technology supporting the Hanford Waste Management Program at Hanford.</p> <p><u>1969-1970</u></p> <p>Manager, Operations Support Engineering Department of the Atlantic Richfield Hanford Company - responsible for engineering support to the Government's Production Facilities in the Hanford 200 Areas.</p> <p><u>1971</u></p> <p>Manager, Manufacturing Department of the Atlantic Richfield Hanford Company - responsible for operation of Government's Production Facilities in the Hanford 200 Areas.</p>	BA	Chemistry	1952	University of Minnesota	BS	Chemical Engineering	1954	University of Washington	MS	Management	1969	Mass. Institute of Tech.	5
BA	Chemistry	1952	University of Minnesota											
BS	Chemical Engineering	1954	University of Washington											
MS	Management	1969	Mass. Institute of Tech.											
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<p><u>1972-1976</u></p> <p>Manager, Fuel Reprocessing Engineering for Exxon Nuclear Company, Inc. - responsible for development of the plant process and the design of Exxon Nuclear's Nuclear Fuel Recovery and Recycling Center.</p> <p><u>1977-1978</u></p> <p>Manager, Fuel Cycle Services and Reprocessing Department for Exxon Nuclear Company, Inc. - responsible for support services to utilities, engineering and fabrication of fuel storage racks, and for fuel reprocessing studies.</p> <p><u>1979-1980</u></p> <p>General Manager, Laser Enrichment Department of Exxon Nuclear Company, Inc. - responsible for development of laser enrichment technology and design of JNAL's Experimental Test Facility.</p> <p><u>1981</u></p> <p>Vice President Engineering & Technology; effective 1/1/81.</p>	5
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