

UNC RECOVERY SYSTEMS

70-820
PDR/UPDR

RETURN TO 396-SS



Division of United Nuclear Corporation
A **UNC RESOURCES** Company
NISRI: 87-006

One Narragansett Trail
Wood River Junction, Rhode Island 02894

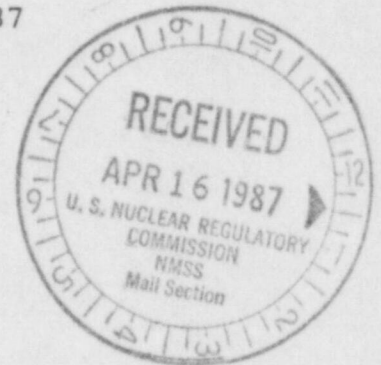
Telephone 401 364-7701

April 14, 1987

U.S. Nuclear Regulatory Commission
Mr. W.T. Crow, Acting Chief
Uranium Fuel Licensing Branch
Division of Fuel Cycle and
Material Safety, NMSS
Wilste Building
7915 Eastern Avenue,
Silver Spring, MD 20910

RECEIVED

'87 APR 20 P2:09



Gentlemen:

This letter is written to request an amendment to License 777, Docket 70-820, in order to up-date pertinent organizational changes.

Sections 100 and 200 of the license have been rewritten, where necessary, to reflect these changes. Eight copies of the rewritten pages, along with their lists of effective pages and personnel resumes are included as an attachment to this letter.

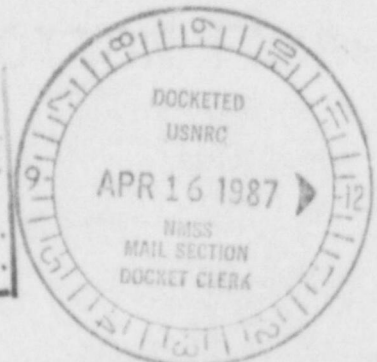
UNC believes these changes to be administrative in nature and, as such, has included a check in the amount of \$150 to cover the fee for such an amendment.

If there are any questions regarding this matter, please contact Mr. Juan R. Velasquez or Mr. Karl A. Helgeson at your earliest convenience.

Sincerely,
UNC RECOVERY SYSTEMS

K.A. Helgeson
K. A. Helgeson
Site Manager

Applicant.....	
Check No.	111072
Amount/Fee Category.....	\$150.-12
Type of Fee.....	Am. D.
Date Check Rec'd.....	4/20/87
Received By.....	<i>am</i>



Attachments: 8 copies, Section 100, General Information
8 copies, Section 200, Organization, Personnel and Administration

cc: J. R. Velasques, w/attachments
R. J. Gregg, w/attachments
File

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28088

ATTACHMENT: NISRI: 87-006 DATED April 14, 1987



LICENSE: SNM - 777, Docket 70 - 820

SECTION: 100 GENERAL INFORMATION

SUBSECTION: LIST OF EFFECTIVE PAGES

<u>SUBSECTION</u>	<u>TITLE</u>	<u>PAGE</u>	<u>ISSUED</u>
	TABLE OF CONTENTS	1 of 1	3/6/87
	LIST OF FIGURES	1 of 1	5/10/78
101	CORPORATE INFORMATION	1 of 1	3/6/87
102	LOCATION AND LAYOUT	1 of 1	3/6/87
103	SUMMARY OF ACTIVITIES	1 of 1	3/6/87
104	SPECIAL NUCLEAR AND SOURCE MATERIAL POSSESSION LIMITS	1 of 1	3/6/87
SKETCH	102 - I	1 of 1	5/10/78
SKETCH	102 - II	1 of 1	5/10/78



UNITED NUCLEAR
CORPORATION

LICENSE:	SNM - 777, Docket 70 - 820	Page 1 of 1
SECTION:	100 GENERAL INFORMATION	Approved
SUBSECTION:	TABLE OF CONTENTS	Issued March 6, 1987
		Supercedes 5/10/84

<u>PART</u>	<u>TITLE</u>
101	GENERAL INFORMATION
102	LOCATION AND LAYOUT
103	SUMMARY OF ACTIVITIES



UNITED NUCLEAR
CORPORATION

LICENSE: SNM - 777, Docket 70 - 820	Page 1 of 1
SECTION: 100 GENERAL INFORMATION	Approved
SUBSECTION: LIST OF FIGURES	Issued March 6, 1987
	Supercedes 5/10/84

SKETCH

- 102-I LOCATION AND LAYOUT (GENERAL)
- 102-II LOCATION AND LAYOUT (INNER FENCE)



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CORPORATION

LICENSE: SNM - 777, Docket 70 - 820	Page 1 of 1
SECTION: 100 GENERAL INFORMATION	Approved
SUBSECTION: 101 CORPORATE INFORMATION	Issued March 6, 1987
	Supercedes 5/10/84

UNC Recovery Systems, a subsidiary of United Nuclear Corporation, is located in Wood River Junction, Rhode Island. This facility was designed and operated for the purpose of recovering unirradiated uranium from scrap materials generated by the nuclear industry.

United Nuclear Corporation is a wholly owned subsidiary of UNC Incorporated, a Delaware corporation which maintains its corporate headquarter offices in Annapolis, Maryland. The corporation is involved in providing technology and fuel management services to the general industrial community.



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CORPORATION

LICENSE: SNM - 777, Docket 70 - 820	Page 1 of 1
SECTION: 100 GENERAL INFORMATION	Approved
SUBSECTION: 102 LOCATION AND LAYOUT	Issued March 6, 1987
	Supercedes 5/10/84

The UNC Recovery Systems facility of United Nuclear Corporation, now in the advanced stages of decontamination and decommissioning, is located on a 1114 acre site in southwestern Rhode Island in Washington County. The plant is located in the approximate center of the western half of the property and is 1.3 miles (by road) southeast of the village of Wood River Junction.

Sketch 102-I shows the general location and layout. The general arrangement of the plant is shown in Sketch 102-II, which shows only the inner fenced-in portion. The outside tanks, fenced storage areas, impoundments A and B, and the incinerator no longer exist, as they have been removed or otherwise disposed of during the decommissioning activities.

The principal building contained offices, locker rooms, general utility and maintenance facilities, and processing facilities. The chemical laboratory was located on the second level above the locker room area. The Health Physics laboratory was located in a portion of the office area, north of the locker rooms. The covered shipping and receiving and storage area is located to the northwest of the principal building. Storage of Special Nuclear Material in this area met the criteria prescribed either by regulation or by documented approval of the USNRC.

Other than for maintenance purposes and storage, this building has been deactivated, with offices and the Health Physics laboratory now located in an office trailer approximately 300 feet west of the main plant buildings.



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CORPORATION**

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SECTION: 100 GENERAL INFORMATION	Approved
SUBSECTION: 103 SUMMARY OF ACTIVITIES	Issued March 6, 1987
	Supercedes 5/10/84

The UNC Recovery Systems facility handled and processed various types of nuclear fuel scrap material in order to reclaim the uranium for recycling. The design of the equipment provided for the processing of highly enriched uranium, thorium and natural uranium as well as non-radioactive materials.

In May of 1980, the parent company, United Nuclear Corporation, announced it was terminating its recovery operations at this facility. From that point in time, the principal activity has been the decontamination and decommissioning of the facility.



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SECTION: 100 GENERAL INFORMATION	Approved
SUBSECTION: 104 SPECIAL NUCLEAR AND SOURCE MATERIAL POSSESSION LIMITS	Issued March 6, 1987
	Supercedes 5/10/78

The possession limits for Special Nuclear and Source Material is as specified on page 1, Section 8, of the formal license (NRC Form 374).

ATTACHMENT: NISRI: 87-006 DATED April 14, 1987



LICENSE: SNM - 777, Docket 70 - 820

SECTION: 200 ORGANIZATION, PERSONNEL AND
ADMINISTRATION

SUBSECTION: LIST OF EFFECTIVE PAGES

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202	NUCLEAR AND INDUSTRIAL SAFETY	1 of 3 2 of 3 3 of 3	3/6/87 3/6/87 3/6/87
	RESUME, SITE MANAGER	1 of 2 2 of 2	
	RESUME, MANAGER, ENVIRON- MENTAL AFFAIRS	1 of 2 2 of 2	
203	NUCLEAR MATERIALS MANAGE- MENT	1 of 1	5/17/84
204	OPERATIONS ORGANIZATION	1 of 1	3/6/87
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206	NUCLEAR AND INDUSTRIAL SAFETY CONTROLS	1 of 2 2 of 2	3/6/87 3/6/87
207	INSPECTIONS, REVIEWS, AND AUDITS	DELETED	
208	TRAINING	DELETED	



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SECTION: 200 ORGANIZATION, PERSONNEL AND ADMINISTRATION	Approved
SUBSECTION: 201 SUBSIDIARY ORGANIZATION	Issued March 6, 1987
	Supercedes 5/10/84

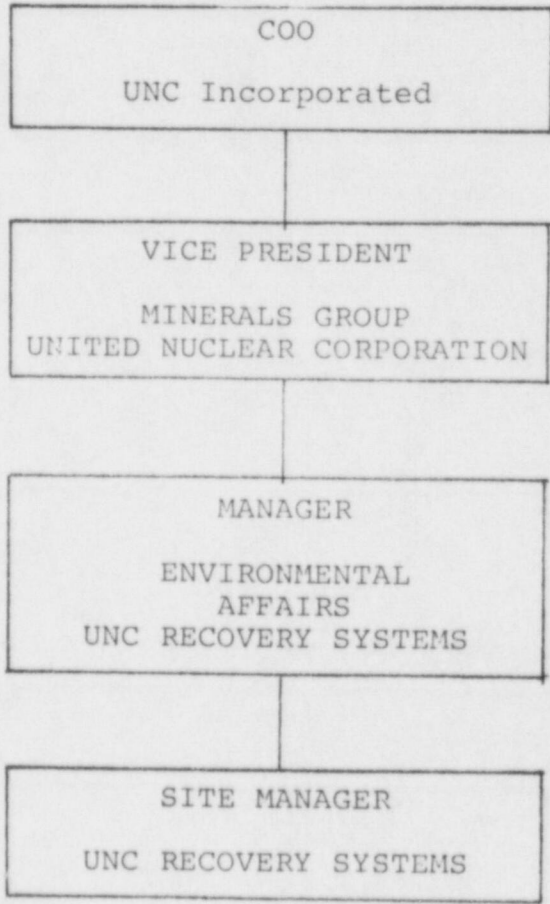
201. SUBSIDIARY ORGANIZATION

1. The Site Manager, UNC Recovery Systems, reports directly to the corporate Manager of Environmental Affairs. The line organization is depicted on the chart contained in Figure 201 - I.
2. The functional organization depicted on the chart contained in Figure 201 - II, reflects the UNC Recovery Systems organizational structure and lines of authority during the current advanced stage of decontamination and decommissioning of the site.



UNITED NUCLEAR CORPORATION

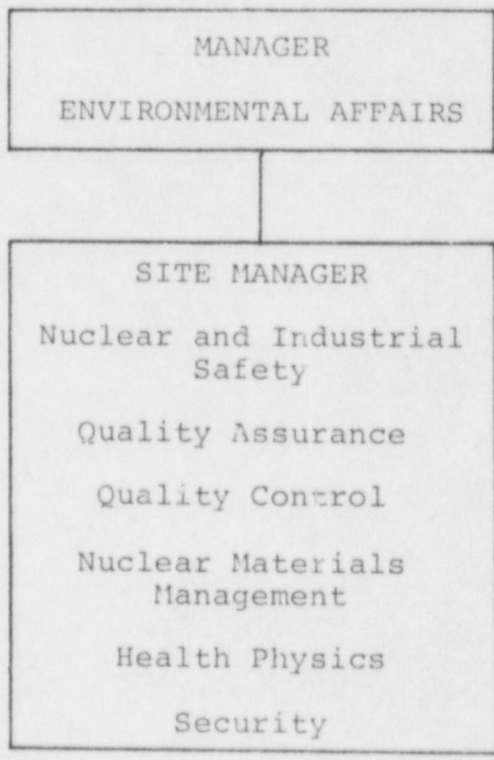
LICENSE:	SNM - 777, Docket 70 - 820	Page 1 of 1
SECTION:	200 ORGANIZATION, PERSONNEL AND ADMINISTRATION	Approved
SUBSECTION:	FIGURE 201 - I	Issued March 6, 1987
		Supercedes 5/10/84





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LICENSE:	SNM - 777, Docket 70 - 820	Page 1 of 1
SECTION:	200 ORGANIZATION, PERSONNEL AND ADMINISTRATION	Approved
SUBSECTION:	FIGURE 201 - II	Issued March 6, 1987
		Supersedes 5/10/84





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SECTION:	200 ORGANIZATION, PERSONNEL AND ADMINISTRATION	Approved
SUBSECTION:	202 NUCLEAR AND INDUSTRIAL SAFETY	Issued March 6, 1987
		Supercedes 5/10/84

202. NUCLEAR AND INDUSTRIAL SAFETY

1. Due to the advanced stage of decontamination and decommissioning of the UNC Recovery Systems facility, all functions of the Manager for Nuclear and Industrial Safety are under the supervision of the Site Manager. Assignment of individuals to Nuclear and Industrial Safety is approved by at least two levels of management above the assigned individuals' position. NIS activities include:
 - 1.1 Recommendation and implementation of Nuclear and Industrial Safety Policy.
 - 1.2 Preparation of regulatory agency license applications.
 - 1.3 Direction of on-site Health Physics Policy Implementation.
 - 1.4 Provision of technical support services as related to Industrial Safety, Health Physics, Security, and Nuclear Material Management, as necessary, through the use of appropriate personnel available within the corporation.
2. The functional responsibility of the Nuclear and Industrial Safety component is to assure compliance with the USNRC regulations and associated license conditions, technical safety evaluations, and compliance with all existing applicable regulatory controls as are applicable to this facility. Qualified consultants may be utilized at the discretion of the Site Manager as deemed necessary by him or higher management.
 - 2.1 The functional responsibility of the Health Physics component of Nuclear and Industrial Safety is to assure all ongoing activities, or activities which are mandated by the existing license or other regulatory documents, are performed in such a manner as to assure the radiological health and safety of all personnel involved in the decommissioning of the UNC Recovery Systems site and of the general public.



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SECTION: 200 ORGANIZATION, PERSONNEL AND ADMINISTRATION	Approved
SUBSECTION: 202 NUCLEAR AND INDUSTRIAL SAFETY	Issued March 6, 1987
	Supercedes 5/10/84

202.3 Personnel Qualifications

The Site Manager, in his capacity as Manager, Nuclear and Industrial Safety, shall hold a degree in Science or Engineering or have an equivalent combination of education and experience in the nuclear industry. Assignment of the individual shall be approved by at least two levels of management above this position. Minimum requirements for this position shall include at least ten years experience in a responsible position in the nuclear industry, with at least three years in an activity wherein he has performed safety evaluations in radiological safety and has developed an understanding of the disciplines under his management.

Any individual having responsibility for technical evaluation or review of a safety aspect shall hold a B.S. degree in Science or Engineering or an equivalent combination of education and experience, and possess not less than three years of responsible experience in the nuclear industry, with at least one year in the performance of such safety assessments in the area of his expertise. An individual may qualify in separate but related specialties. Assignment to evaluation or review responsibilities requires in addition, demonstration of proficiency in the specialty to Site Manager or higher management.

Resumes of the qualifications of the personnel currently performing these functions are included in this section.



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SECTION:	200 ORGANIZATION, PERSONNEL AND ADMINISTRATION	Approved
SUBSECTION:	RESUME, SITE MANAGER	Issued March 6, 1987
		Supercedes

POSITION: Site Manager

PERSON: K. A. Helgeson

ABSTRACT: Seventeen years supervisory experience in Health Physics. Eleven years experience in nuclear hot cell experimental engineering. Published experimentation in the Resistivity of Binary Liquid Metal Systems with Lithium as One Component (NASA).

EDUCATION: Two-year college equivalency certification through USAFI. Two-year course in Mechanical Engineering, provided through Dow Chemical Company. Course, Basic Radiological Health, U.S. Public Health Service. Short Course, Environmental Radiation Surveillance, Harvard School of Public Health. Audited Course, Radiochemistry of Transuranics, Instructor, G. Seaborg. Audited Course, Health Physics, Instructor, K. Morgan. Audited courses were at the University of California, Livermore, CA. Courses, Mathematics, Chemistry, Electronics, and Physics. Course, Industrial Safety and Hygiene, Thames Valley State Technical College.

EXPERIENCE: SITE MANAGER, UNC RECOVERY SYSTEMS, 1987

Management of all activities associated with the decontamination and decommissioning of the Wood River Junction Facility, Rhode Island.

MANAGER, NUCLEAR AND INDUSTRIAL SAFETY AND QUALITY ASSURANCE - 1979 to February, 1987. UNC Recovery Systems

Management of all activities associated with Health Physics, Nuclear Criticality Safety, Industrial Safety and Quality Assurance.

SUPERVISOR, HEALTH PHYSICS AND SPECIALIST, HEALTH PHYSICS 1972 to 1979. UNC Recovery Systems

Supervision of technicians performing health physics and environmental surveillance activities. Responsible for compliance of health physics and environmental programs.



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DESIGNER, EXPERIMENTAL TEST EQUIPMENT 1970 to 1971.
Pratt and Whitney Aircraft

Responsible for design, modification and fabrication of various jet engine testing facilities.

ENGINEER, EXPERIMENTAL TEST 1967 to 1970. Pratt and Whitney Aircraft Hot Cell Facility

Responsible for supervision of experimental Machine Shop and Health Physics and mechanical technicians in the Pratt and Whitney Hot Cell Facility.

Performance of design and fabrication work on remotely operated machining and welding equipment. Design fabrication, and operation of exotic liquid metal test apparatus.

GAUGE DESIGNER, INSPECTION METHODS PLANNER 1965 to 1967.
Pratt and Whitney Aircraft

Responsible for design, modification and purchasing of various types of gauges for mechanically and electronically inspecting jet engine parts.

TECHNICIAN, HOT CELL AND SENIOR TECHNICIAN, CONTAMINATION CONTROL ENGINEERING 1960 to 1965. Pratt and Whitney Aircraft

Responsible for fabrication and operation of various remotely operated machining and laboratory equipment. Supervision of Health Physics technicians, rad waste system operation (liquid and solid), and the contamination control program of the Hot Cell Facility.



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SECTION:	200 ORGANIZATION, PERSONNEL AND ADMINISTRATION	Approved
SUBSECTION:	RESUME, MANAGER, ENVIRONMENTAL AFFAIRS	Issued March 6, 1987
		Supercedes new

POSITION: Manager, Environmental Affairs

PERSON: Juan R. Velasquez

ABSTRACT: Managerial, technical and legal experience in the environmental evaluation field.
 Work experience in the private sector, consulting, and State and Federal government.
 Relevant experience in management of multimillion dollar projects with complex interrelated aspects such as management of technical support staff, integration of legal issues to technical considerations, responding to regulatory agency concerns and meeting with the public.

Key positions held, responsible for implementation and direction of programs in:

- hazardous waste management
- air and water quality assessment
- solid waste management
- environmental impact evaluation
- regulatory and legislative analysis
- inspection and enforcement
- hydrology
- water rights acquisition
- community relations
- radiological health
- employee safety

EDUCATION: B.S. Degree, Biology, University of New Mexico, 1972
 Graduate Studies

MPA Program, UNM second-year student
 Graduate courses completed in environmental sciences, Pennsylvania State University

Completed short courses and seminars in a number of environmental fields, as well as management and administration.



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SUBSECTION:	RESUME, MANAGER, ENVIRONMENTAL AFFAIRS	Issued March 6, 1987
		Supercedes new

EXPERIENCE:

MANAGER, ENVIRONMENTAL AFFAIRS -1983 to present
United Nuclear Corporation

ENVIRONMENTAL AFFAIRS DIRECTOR -1976 to 1983
Phillips Petroleum Company, Oil Shale Division, Minerals Group -Denver

ENVIRONMENTAL HEALTH AND SAFETY DIRECTOR
Phillips Uranium Corporation, Minerals Group -Albuquerque

FIELD BIOLOGIST AND ENVIRONMENTAL ASSESSMENT SPECIALIST
Earth Environmental Consultants -1975 to 1976

DISTRICT MANAGER, BUREAU OF AIR QUALITY AND NOISE CONTROL
State of Pennsylvania, Department of Environmental Resources

PHYSICAL SCIENTIST, STATE PROGRAM DEVELOPMENT
U.S. Environmental Protection Agency -1972 to 1973

PROFESSIONAL AFFILIATIONS:

American Mining Congress
Rocky Mountain Oil and Gas Association
New Mexico Mining Association
Nevada Mining Association
Wyoming Mining Association
Air pollution Control Association
American Petroleum Institute



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SECTION:	200 ORGANIZATION, PERSONNEL AND ADMINISTRATION	Approved
SUBSECTION:	206 NUCLEAR AND INDUSTRIAL SAFETY CONTROLS	Issued March 6, 1987
		Supercedes 5/10/84

206. NUCLEAR AND INDUSTRIAL SAFETY CONTROLS

1. RESPONSIBILITY

Implementation of on-site nuclear and industrial safety control is exercised by the Site Manager as Acting Manager, Nuclear and Industrial Safety. The Site Manager shall assure that health physics and industrial safety control procedures are followed.

2. NUCLEAR AND INDUSTRIAL SAFETY (NIS) APPROVAL.

NIS approval on operating procedures is identified by signature on the operating procedure or by separate written approval, when necessary, and shall only be granted when:

- 2.1 Industrial Safety and Health Physics evaluations have been made by NIS, based on the criteria and standards approved for this license and good practice.
- 2.2 The Site Manager has determined the necessity for such evaluations using pertinent criteria established for this license.
- 2.3 Safety evaluations and reviews have been approved by the Site Manager.
- 2.4 The Site Manager or consultants to the NIS component that meet the qualifications for technical competence may make changes or provide authorization for modifications (without an additional review when the proposed change meets previously approved NRC license standards). Any such changes shall be in writing.
- 2.5 Evaluations are considered to have been made when mandatory safety requirements have been applied to a particular activity and appear in an SOP or other control document. Evaluations may also take the form of a separate formal document.



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SUBSECTION:	206 NUCLEAR AND INDUSTRIAL SAFETY CONTROLS	Issued March 6, 1987
		Supercedes 5/10/84

206.3 RECORDS

Evaluation and approval records shall be maintained for at least six months after the operation or activity has been terminated.

206.4 SUSPENSION OF OPERATIONS OR ACTIVITIES

The Site Manager has the primary responsibility and authority for suspending unsafe operations or activities when they are not being performed in the prescribed manner or in violation of regulations. This authority also applies to operations which are potentially hazardous to personnel, property, or the general public.