

030-22118

L + L = 20816

NRC FORM 313  
(1-84)  
10 CFR 30, 32, 33, 34,  
35 and 40

U.S. NUCLEAR REGULATORY COMMISSION  
APPROVED BY OMB  
3150-0120  
Expires: 5-31-87

## APPLICATION FOR MATERIAL LICENSE

03610

INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.

## FEDERAL AGENCIES FILE APPLICATIONS WITH:

U.S. NUCLEAR REGULATORY COMMISSION  
DIVISION OF FUEL CYCLE AND MATERIAL SAFETY, NMSS  
WASHINGTON, DC 20555

## ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS, IF YOU ARE LOCATED IN:

CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND,  
MASSACHUSETTS, NEW JERSEY, NEW YORK, PENNSYLVANIA, RHODE ISLAND,  
OR VERMONT, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION I  
NUCLEAR MATERIAL SECTION B  
631 PARK AVENUE  
KING OF PRUSSIA, PA 19406

ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA,  
PUERTO RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR  
WEST VIRGINIA, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION II  
MATERIAL RADIATION PROTECTION SECTION  
101 MARIETTA STREET, SUITE 2900  
ATLANTA, GA 30323

## IF YOU ARE LOCATED IN:

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR  
WISCONSIN, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION III  
MATERIALS LICENSING SECTION  
799 ROOSEVELT ROAD  
GLEN ELLYN, IL 60137

ARKANSAS, COLORADO, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA,  
NEW MEXICO, NORTH DAKOTA, OKLAHOMA, SOUTH DAKOTA, TEXAS, UTAH,  
OR WYOMING, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION IV  
MATERIAL RADIATION PROTECTION SECTION  
611 RYAN PLAZA DRIVE, SUITE 1000  
ARLINGTON, TX 76011

ALASKA, ARIZONA, CALIFORNIA, HAWAII, NEVADA, OREGON, WASHINGTON,  
AND U.S. TERRITORIES AND POSSESSIONS IN THE PACIFIC, SEND APPLICATIONS  
TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION V  
MATERIAL RADIATION PROTECTION SECTION  
1450 MARIA LANE, SUITE 210  
WALNUT CREEK, CA 94596

PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTION.

## 1. THIS IS AN APPLICATION FOR (Check appropriate item)

- ☒ A. NEW LICENSE  
☐ B. AMENDMENT TO LICENSE NUMBER \_\_\_\_\_  
☐ C. RENEWAL OF LICENSE NUMBER \_\_\_\_\_

## 2. NAME AND MAILING ADDRESS OF APPLICANT (Include Zip Code)

C. V. Mangan, Vice President  
Niagara Mohawk Power Corporation  
300 Erie Blvd., West  
Syracuse, NY 13202

## 3. ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED.

Nine Mile Point Nuclear Station Unit #1 and Unit #2 Site\*, Lake Road, Town of Scriba, NY

\* See Attachment 3

## 4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Edward Leach

## TELEPHONE NUMBER

(315) 349-2439

SUBMIT ITEMS 5 THROUGH 11 ON 8 1/2 x 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.

## 5. RADIOACTIVE MATERIAL

a. Element and mass number, b. chemical and/or physical form, and c. maximum amount  
which will be possessed at any one time. See Attachment 1

## 6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED

See Attachment 1

7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR  
TRAINING AND EXPERIENCE

Refer to Attachment 2

## 8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.

## 9. FACILITIES AND EQUIPMENT

Reference New Fuel License  
Application and FSAR Chapter 12.5

## 10. RADIATION SAFETY PROGRAM

Reference New Fuel License  
Application and FSAR Chapter 12.5

## 11. WASTE MANAGEMENT

See Attachment 3

## 12. LICENSEE FEES (See 10 CFR 170 and Section 170.31)

## FEE CATEGORY

AMOUNT  
ENCLOSED \$

CERTIFICATION. (Must be completed by applicant) THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE  
BINDING UPON THE APPLICANT.

THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS  
PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, AND 40 AND THAT ALL INFORMATION CONTAINED HEREIN,  
IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.

WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948, 62 STAT. 749 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION  
TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

## SIGNATURE—CERTIFYING OFFICER

C. V. Mangan

## TYPED/PRINTED NAME

C. V. Mangan

## TITLE

Vice President  
Nuc. Eng. & Licensing

## DATE

2/26/85

## 14. VOLUNTARY ECONOMIC DATA

## a. ANNUAL RECEIPTS

<\$250K	\$1M-3.5M
\$250K-500K	\$3.5M-7M
\$500K-750K	\$7M-10M
\$750K-1M	>\$10M

b. NUMBER OF EMPLOYEES (Total for  
entire facility excluding outside contractors)

## c. NUMBER OF BEDS

d. WOULD YOU BE WILLING TO FURNISH COST INFORMATION (Dollar and/or staff hours)  
ON THE ECONOMIC IMPACT OF CURRENT NRC REGULATIONS OR ANY FUTURE  
PROPOSED NRC REGULATIONS THAT MAY AFFECT YOU? (NRC regulations permit  
it to protect confidential commercial or financial information furnished to  
the agency in confidence)

☐ YES

☐ NO

## FOR NRC USE ONLY

## TYPE OF FEE

## FEE LOG

## FEE CATEGORY

## COMMENTS

## APPROVED BY

## AMOUNT RECEIVED

## CHECK NUMBER

"OFFICIAL RECORD COPY"

03489 ML10

MAR 04 1985

## DATE

3/11/85

## PRIVACY ACT STATEMENT

Pursuant to 5 U.S.C. 552a(e)(3), enacted into law by section 3 of the Privacy Act of 1974 (Public Law 93-579), the following statement is furnished to individuals who supply information to the Nuclear Regulatory Commission on NRC Form 313. This information is maintained in a system of records designated as NRC-3 and described at 40 Federal Register 45334 (October 1, 1975).

1. **AUTHORITY:** Sections 81 and 161(b) of the Atomic Energy Act of 1954, as amended (42 U.S.C. 2111 and 2201(b)).
2. **PRINCIPAL PURPOSE(S):** The information is evaluated by the NRC staff pursuant to the criteria set forth in 10 CFR Parts 30, 32, 33, 34, 35 and 40 to determine whether the application meets the requirements of the Atomic Energy Act of 1954, as amended, and the Commission's regulations, for the issuance of a radioactive material license or amendment thereof.
3. **ROUTINE USES:** The information may be (a) provided to State health departments for their information and use; and (b) provided to Federal, State, and local health officials and other persons in the event of incident or exposure, for their information, investigation, and protection of the public health and safety. The information may also be disclosed to appropriate Federal, State, and local agencies in the event that the information indicates a violation or potential violation of law and in the course of an administrative or judicial proceeding. In addition, this information may be transferred to an appropriate Federal, State, or local agency to the extent relevant and necessary for an NRC decision or to an appropriate Federal agency to the extent relevant and necessary for that agency's decision about you.
4. **WHETHER DISCLOSURE IS MANDATORY OR VOLUNTARY AND EFFECT ON INDIVIDUAL OF NOT PROVIDING INFORMATION:** Disclosure of the requested information is voluntary. If the requested information is not furnished, however, the application for radioactive material license, or amendment thereof, will not be processed. A request that information be held from public inspection must be in accordance with the provisions of 10 CFR 2.790. Withholding from public inspection shall not affect the right, if any, of persons properly and directly concerned need to inspect the document.
5. **SYSTEM MANAGER(S) AND ADDRESS:** U.S. Nuclear Regulatory Commission  
Director, Division of Fuel Cycle and Material Safety  
Office of Nuclear Material Safety and Safeguards  
Washington, D.C. 20555

<u>ELEMENT &amp; MASS NO.</u>	<u>CHEMICAL &amp;/OR PHYSICAL FORM</u>	<u>MAXIMUM AMOUNT</u>
A) Antimony-124 (Used in conjunction with a Beryllium Sleeve)	A) Sealed Source	A) Not to exceed 3000 Ci per source
B) Cesium-137	B) Sealed Sources	B) Not to exceed 100 microcuries per source
C) Strontium-90	C) Sealed Sources	C) Not to exceed 100 microcuries per source
D) Europium-152	D) Sealed Sources	D) Not to exceed 10 microcuries per source
E) Krypton-85	E) Gas	E) Not to exceed 1000 microcuries per source
F) Xenon-133	F) Gas	F) Not to exceed 500 microcuries per source
G) Strontium-90	G) Sealed Sources	G) Not to exceed 5.0 millicuries per source
H) Cesium-137	H) Sealed Sources	H) Not to exceed 2.0 millicuries per source
I) Cobalt-60	I) Sealed Sources	I) Not to exceed 5.0 millicuries per source
J) Cesium-134, Cesium-137 and Cobalt-60	J) Sealed Sources	J) Not to exceed 100 millicuries per source
K) Mixed Gamma Standards (Cadmium-109, Cobalt-57, Cerium-139, Mercury-203, Tin-113, Cesium-137, Yttrium-88 & Cobalt-60)	K) Sealed Sources	K) Not to exceed 10 microcuries per source
L) Europium-152	L) Sealed Sources	L) Not to exceed 30 microcuries per source

<u>ELEMENT &amp; MASS NO.</u>	<u>CHEMICAL &amp;/OR PHYSICAL FORM</u>	<u>MAXIMUM AMOUNT</u>
M) Plutonium-239	M) Sealed Sources	M) Not to exceed 5.0 microcuries per source
N) Americium-241	N) Any	N) 5.0 millicuries
O) Any byproduct material with atomic Numbers 3 thru 83	O) Any	O) Not to exceed 5.0 millicuries per radionuclide

AUTHORIZED USE

- A) Neutron Startup Sources, supplied by General Electric.
- B&C) To be used as check and calibrations sources in process and area radiation monitors; supplied by KAMAN Instrumentation as part of the Digital Radiation Monitoring System (DRMS).
- D) To be used as check and calibration sources in stack and vent monitors; supplied by Science Applications Inc. (SAI) as part of the Gaseous Effluent Monitoring System (GEMS).
- E&F) To be used as check and calibration gases for the Gaseous Effluent Monitoring System (GEMS).
- G thru J and M,N,O) To be used as check, calibration and reference sources for portable and laboratory instruments, and area and process monitors.
- K&L) To be used as check and calibration sources for Gamma Spectrometers.



EDUCATION, TRAINING AND EXPERIENCE OF  
SUPERINTENDENT CHEMISTRY AND RADIATION MANAGEMENT

EDUCATION AND TRAINING:

6/57	Graduated from High School, Baldwin, New York
9/57-1/59	Attended Mass. Institute of Technology, as a mechanical engineering student
6/61	Completed USN Basic Nuclear Training, Vallejo, California (6 months)
1/62	Completed AIW Naval Nuclear Power Prototype Training, Idaho Falls, Idaho (6 months)
9/67-1/69	Attended New Mexico State University under AEC Technician Scholarship Program. Received BS Degree in Chemistry
1/69-6/72	Completed course work required for Doctoral program and received MS Degree in Chemistry at New Mexico State University

EXPERIENCE:

5/59-5/65	Served in U.S. Navy; NM1 (E-6) on discharge
1/62-2/64	Served on Staff of the AIW Reactor Facility as Operator and Instructor. Qualified as Engineering Laboratory Technician in June 1962. Remainder of period performed chemistry and radiological surveillance, and training of personnel at the AIW Facility
3/64-5/65	On board nuclear frigate USS Bainbridge as Eng. Lab Technician; chemistry and radiological duties.
6/65-9/67	Worked as reactor operator and technician at the Omega West Research Reactor, Los Alamos Scientific Laboratory, Los Alamos, New Mexico
1/69-6/72	Worked as Teaching Assistant, New Mexico State University, Las Cruces, New Mexico. Taught General Chemistry, Analytical Chemistry and Instrumental Analysis Labs

EDUCATION, TRAINING AND EXPERIENCE OF  
SUPERINTENDENT CHEMISTRY AND RADIATION MANAGEMENT (cont.)

EXPERIENCE:.  
(cont.)

7/72-12/75	Worked at the Nine Mile Point Nuclear Site, Niagara Mohawk Power Corporation; Radiochemistry and Radiation Protection Department
1/76-7/80	Radiochemistry and Radiation Protection Supervisor, NMP-JAF Site
8/80-Present	Superintendent Chemistry and Radiation Management, Nine Mile Point (re-evaluation and title change of former position)

EDUCATION, TRAINING AND EXPERIENCE OF  
SUPERVISOR, CHEMISTRY AND RADIATION PROTECTION

EDUCATION AND TRAINING:

1960	Graduated from Phoenix High School
1961-62	Attended West Virginia University in a Chemistry curriculum
1963-68	Attended Onondaga Community College, enrolled in Physics and Chemistry courses (part-time 1965-1967). Also attended training courses in Particle Characteristics, Gas Chromatography, C.D. Radiological Monitoring, Statistical Quality Control and Sewage Treatment Plant Operation
1973	Attended a 12-week Radiochemistry training course at the Vallecitos Nuclear Center, Pleasanton, California

EXPERIENCE:

1963-68	Employed as Plant Chemical Technician at Alcan Aluminum Corporation where responsibilities were: plant chemical analyses, analytical procedures development and lubricant development
1968	Began employment at Nine Mile Point #1 as Radiation Protection Chemistry Technician for Niagara Mohawk Power Corporation with job duties including: chemistry, radiochemistry, radiological monitoring, instrument calibrations and dosimetry.
1972-80	Promoted to Assistant Radiation Protection - Chemistry Supervisor with duties being: <ul style="list-style-type: none"><li>a) Supervision of 5-10 Radiation Protection - Chemistry Technicians</li><li>b) Supervision of station personnel in Radiation Protection</li><li>c) Assist in day-to-day station operation</li><li>d) Training of station personnel in Radiation Protection</li></ul>
8/80 - Present	Supervisor of Chemistry and Radiation Protection at Nine Mile Point Nuclear Station (reevaluation and title change of former position)



Item #11

Chem Nuclear Systems Inc. is the commercial waste disposal service that we use. Reference FSAR Chapter 11 for the Radioactive Waste Management Program.

- \* Nine Mile Point Units 1 and 2 are connected by an enclosed passageway on company owned property. The passageway will be identified as a restricted area during transfer of byproduct sources. Therefore, source transfer between Unit 1 and Unit 2 will be accomplished without transfer (shipping containers and transfer papers) between the Unit licenses.

BETWEEN: William O. Miller, Chief  
License Fee Management Branch  
Office of Administration

John E. Glenn, Chief  
Nuclear Materials Section B  
Division of Engineering and  
Technical Programs

LICENSE FEE TRANSMITTAL

Fee Exempt

A. REGION 2

1. APPLICATION ATTACHED

Applicant/Licensee: Niagra Mohawk Power Corporation  
Application Dated: 2/26/85  
Control No.: 03489  
License No.: New

2. FEE ATTACHED

Amount: 0  
Check No.: 0

3. COMMENTS

Signed Brenda Platchek  
Date 3/5/85

B. LICENSE FEE MANAGEMENT BRANCH

1. Fee Category and Amount: Exempt - 170.11(6)(3)

2. Correct Fee Paid. Application may be processed for:

Amendment \_\_\_\_\_  
Renewal \_\_\_\_\_  
License ✓

Signed Frances Bogan  
Date 3/11/85 109  
3/12/85