

MATERIALS LICENSE

Amendment No. 05

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

OFFICIAL RECORD COPY

Licensee		In accordance with the letter dated April 26, 1996,	
1. Nova Chemicals, Inc.		3. License Number 20-28045-01 is amended in its entirety to read as follows:	
2. 950 Worcester Street P.O. Box 51927 Indian Orchard, MA 01151-5927		4. Expiration Date April 30, 2003	
6. Byproduct, Source, and/or Special Nuclear Material		5. Docket or Reference No. 030-30050	
7. Chemical and/or Physical Form		8. Maximum Amount that Licensee May Possess at Any One Time Under This License	
A. Cesium 137		A. Sealed sources	
		A. See Item 9.A., not to exceed 50 curies total	

9. Authorized use
- A. For possession and use in Kay Ray, Accuray, Ohmart, LFE, Berthold System, Inc., Data Measurement Corp., Flow Measurement Systems, Ronan Engineering or Texas Nuclear devices which have been evaluated and approved for licensing purposes and authorized for distribution under a license issued by the U.S. Nuclear Regulatory Commission or an Agreement State.

CONDITIONS

10. Licensed material may be used only at the licensee's facilities located at 950 Worcester Street, Indian Orchard, Massachusetts.
11. A. Licensed material shall be used by, or under the supervision of, Michael Garvey and Michael Leahey.
- B. The Radiation Safety Officer for this license is Michael Garvey.
12. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
13. The licensee shall conduct a physical inventory every six months to account for all sealed sources and devices containing licensed material received and possessed under the license.
14. The licensee shall not acquire licensed material in a sealed source or device unless the source or device has been registered with the U.S. Nuclear Regulatory Commission pursuant to 10 CFR 32.210 or equivalent regulations of an Agreement State.

01
ML 10

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number

20-28045-01

Docket or Reference Number

030-30050

Amendment No. 05

15. A. Sealed sources and detector cells containing licensed material shall be tested for leakage and/or contamination at intervals not to exceed six months or at such other intervals as are specified by the certificate of registration referred to in 10 CFR 32.210, not to exceed three years.
- B. Notwithstanding Paragraph A of this Condition, sealed sources designed to emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed three months.
- C. In the absence of a certificate from a transferor indicating that a leak test has been made within six months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.
- D. Each sealed source fabricated by the licensee shall be inspected and tested for construction defects, leakage, and contamination prior to any use or transfer as a sealed source.
- E. Sealed sources and detector cells need not be leak tested if:
 - (i) they contain only hydrogen-3; or
 - (ii) they contain only a radioactive gas; or
 - (iii) the half-life of the isotope is 30 days or less; or
 - (iv) they contain not more than 100 microcuries of beta and/or gamma emitting material or not more than 10 microcuries of alpha emitting material; or
 - (v) they are not designed to emit alpha particles, are in storage, and are not being used. However, when they are removed from storage for use or transfer to another person, and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source or detector cell shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.
- F. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission and the source or detector cell shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within five days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region I, ATTN: Chief, Nuclear Materials Safety Branch, 475 Allendale Road, King of Prussia, Pennsylvania 19406. The report shall specify the source or detector cell involved, the test results, and corrective action taken.
- G. The licensee is authorized to collect leak test samples for analysis by TN Technologies, Inc. Alternatively, tests for leakage and/or contamination may be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number

20-28045-01

Docket or Reference Number

030-30050

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16. Each gauge shall be tested for the proper operation of the on-off mechanism and indicator, if any, at no longer than six-month intervals or at such longer intervals as specified by the manufacturer and approved by the Commission or an Agreement State in a registration certificate referred to in 10 CFR 32.210.
17. Installation, initial radiation survey, relocation, or removal from service of devices containing sealed sources shall be performed by Michael Garvey and Michael Leahey or by persons specifically licensed by the Commission or an Agreement State to perform such services. Maintenance and repair of such devices and installation, replacement, and disposal of sealed sources shall be performed only by persons specifically licensed by the Commission or an Agreement State to perform such services.
18. Prior to initial use and after installation, relocation, dismantling, alignment, or any other activity involving the source or removal of the shielding, the licensee shall assure that a radiological survey is performed to determine radiation levels in accessible areas around, above, and below the device with the shutter open. This survey shall be performed only by persons authorized to perform such services by the Commission or an Agreement State.
19. The licensee shall operate each device containing licensed material within the manufacturer's specified temperature and environmental limits such that the shielding and shutter mechanism of the source holder are not compromised.
20. The licensee shall assure that the shutter mechanism of each device is locked in the closed position during periods when a portion of an individual's body may be subject to the direct radiation beam. The licensee shall review and modify as appropriate its "lock-out" procedures whenever a new device is obtained to incorporate the device manufacturer's recommendations.
21. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.
 - A. Application dated May 5, 1992
 - B. Letter dated March 18, 1993
 - C. Letter dated January 26, 1995
 - D. Letter dated July 1, 1996

Date

AUG - 6 1996

For the U.S. Nuclear Regulatory Commission

Original Signed By:

Steven R. Courtemanche

By

Division of Nuclear Materials Safety
Region I
King of Prussia, Pennsylvania 19406

AUG - 6 1996

Michael F. Garvey
Radiation Safety Officer
Nova Chemicals Incorporated
950 Worcester Street
P. O. Box 51927
Indian Orchard, MA 01151-5927

Dear Mr. Garvey:

This refers to your license amendment request. Enclosed with this letter is the amended license. Please note that as part of this amendment, in accordance with 10 CFR 30.36, effective February 15, 1996, the expiration date of your license has been extended by a period of five years. Your new expiration date is stated in Item 5 of the license.

Please review the enclosed document carefully and be sure that you understand and fully implement all the conditions incorporated into the amended license. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region I Office, Licensing Assistance Team, (610) 337-5093 or 5239, so that we can provide appropriate corrections and answers.

Thank you for your cooperation.

Sincerely,

ORIGINAL SIGNED BY:

Steven R. Courtemanche
Division of Nuclear Materials Safety

License No. 20-28045-01
Docket No. 030-30050
Control No. 123177

Enclosure:
Amendment No. 05

DOCUMENT NAME: R:\WPS\MLTR\L2028045.01

To receive a copy of this document, indicate in the box: "C" = Copy w/o attach/encl "E" = Copy w/ attach/encl "N" = No copy

OFFICE	DNMS/RI	N	DNMS/RI				
NAME	SCourtemanche/src						
DATE	07/11/96	07/ /96	07/ /96	07/ /96	07/ /96		

OFFICIAL RECORD COPY **ML 10**

CONVERSATION RECORD

TIME

9:00 AM

DATE

7/11/96

TYPE

☐ VISIT

☐ CONFERENCE

☐ TELEPHONE

☐ INCOMING

☐ OUTGOING

ROUTING

NAME/SYMBOL INT

Location of Visit/Conference:

NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU

Michael Garvey

ORGANIZATION (Office, dept., bureau, etc.)

Nova Chemicals Inc.

TELEPHONE NO.

(413) 747-4012

SUBJECT

Lack of fee payment for amendment
(20-28045-01)

SUMMARY

Mr. Garvey stated that there has been some reorganization but none affecting the license per IN 89.25 Rev 1. The June 13, 1996 notice for nonpayment of amendment fee may have been misplaced. I gave him Brenda Brown's phone number for fee information and he promised to check into it and send a check if required.

ACTION REQUIRED

Document

NAME OF PERSON DOCUMENTING CONVERSATION

Steven Courtmanche

SIGNATURE

Steven Courtmanche

DATE

7/11/96

ACTION TAKEN

SIGNATURE

TITLE

DATE

1-101

U.S. G.P.O. 1983-381-526/8346

CONVERSATION RECORD

OPTIONAL FORM 271 (12-76)
DEPARTMENT OF DEFENSE

OFFICIAL RECORD COPY ML 10



a subsidiary of NOVA Corporation

July 1, 1996

United States Nuclear Regulatory Commission
Region I
475 Allendale Road
King of Prussia, PA 19406-1415

RE: Notice of name change

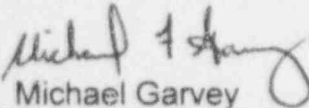
Gentlemen:

I am writing to inform you that Novacor Incorporated has recently changed its name to Nova Chemicals Incorporated. This represents a change in name only. The parent company remains Nova Corporation of Alberta, Canada.

Nova went forward with this effort in order to align all of its businesses under the Nova name.

Nova Chemicals is in the process of phasing out the use of the Novacor letterhead, etc. which will be completed by August 1, 1996. After which, all company communications will reflect the new name.

Please update your files accordingly.


Michael Garvey
Environmental Specialist

Novacor Chemicals Inc.

950 Worcester Street

P.O. Box 51927

Indian Orchard, MA 01151-5927

(413) 781-1441

FAX: (413) 736-5140

MS16

K-4

030-30050
20-28045-01

123177

JUL - 8 1996

OFFICIAL RECORD COPY **ML 10**



A Responsible Care Company



LICENSE NO. 20-28045-01
DOCKET NO. 30-30050
CONTROL NO. 123177

NAME NOVACOR CHEMICALS INCORPORATED
ATTN: MICHAEL F. GARVEY, ENVIRON. S
ADDRESS INDIAN ORCHARD, MA 01151-5927

GENTLEMAN,

~~THIS IS TO CONFIRM THE TELEPHONE CONVERSATION ON _____
BETWEEN YOURSELF AND _____ OF THIS OFFICE.~~

THIS IS TO CONFIRM OUR TELEPHONE CONVERSATION ON 5/29/96.

THE INFORMATION NEEDED TO CONTINUE REVIEW OF YOUR
^{letter}
APPLICATION DATED 4/26/96 WAS DISCUSSED.

THESE ITEMS ARE RESTATED BELOW:

1. Please remit the money required to process your amendment request. Contact Rebecca Brown, (201) 415-6055 regarding the amount.
2. You stated that your company is undergoing a name change. Please refer to Information Notice No. 89-25, Rev. 1 and provide us with the information requested.
- 3.

IF WE DO NOT RECEIVE A REPLY FROM YOU WITHIN 30 CALENDAR DAYS
FROM THE DATE OF THIS LETTER, WE SHALL ASSUME THAT YOU DO NOT
WISH TO PURSUE YOUR APPLICATION.

SINCERELY, OFFICIAL RECORD COPY

ML 10

Steven R. Courtemanche
Division of ~~NUCLEAR MATERIALS SAFETY SECTION~~
NUCLEAR MATERIALS SAFETY BRANCH

CONCURRENCES: Courtemanche

CONVERSATION RECORD

TIME

2:00

DATE

5/28/96

TYPE

☐ VISIT

☐ CONFERENCE

☒ TELEPHONE

☐ INCOMING

☒ OUTGOING

Location of Visit/Conference:

NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU

Michael T. Harvey

ORGANIZATION (Office, dept., bureau, etc.)

Novus Chemicals

TELEPHONE NO.

(413) 747-4012

SUBJECT

Need for fees (20-28045-01)

ROUTING

NAME/SYMBOL

INT

SUMMARY

Mr. Harvey stated that he would need to add to the amendment because the parent company was changing their name. He would call fees to determine how much to send in for the amendment request.

ACTION REQUIRED

None

NAME OF PERSON DOCUMENTING CONVERSATION

Steven Courtemanche

SIGNATURE

Steven Courtemanche

DATE

5/28/96

ACTION TAKEN

SIGNATURE

TITLE

DATE

50271-101

U.S. G.P.O. 1983-

OFFICIAL RECORD COPY

CONVERSATION RECORD

ML 10

OPTIONAL FORM 271 (12-76)
DEPARTMENT OF DEFENSE

123177



a subsidiary of NOVA Corporation

Novacor Chemicals Inc.

950 Worcester Street

P.O. Box 51927

Indian Orchard, MA 01151-5827

(413) 781-1441

FAX: (413) 736-5140

April 26, 1996

Mr. Frank Costello
United States Nuclear Regulatory Commission
Region I
475 Allendale Road
King of Prussia, PA 19406-1415

RE: License # 030-30050
20-28045-01

Dear Mr. Costello:

I am writing to inform you that as of April 9, 1996, Ray Murray, our listed RSO for nuclear materials license # 030-30050 ceased to be employed by Novacor Chemicals Incorporated.

Currently, both designated authorized users on the above referenced license are still employed by Novacor. I have assumed the management responsibility for licensed activities and intend to file an amendment listing me as the new RSO (I was the listed RSO on amendment 3, dated April 8, 1993).

If you have any questions or comments regarding the above, please contact me at (413) 747-4012.

Sincerely,

Michael F. Garvey
Environmental Specialist

1996 AUG 15 PM 1:45



A Responsible Care Company

OFFICIAL RECORD COPY ML 10

123177

MAY - 2 1996

LICENSE FEE REQUIREMENTS

LICENSE FEE AND DEBT COLLECTION BRANCH
DIVISION OF ACCOUNTING AND FINANCE
OFFICE OF THE CONTROLLER
U.S. NUCLEAR REGULATORY COMMISSION
WASHINGTON, DC 20555-0001NOVACOR CHEMICALS INC.
ATTN: MICHAEL F. GARVEY
ENVIRONMENTAL SPECIALIST
950 WORCESTER STREET
P.O. BOX 51927
INDIAN ORCHARD, MA 01151-5927

TYPE OF ACTION

- ☐ NEW LICENSE
- ☐ RENEWAL OF LICENSE
- ☒ AMENDMENT TO LICENSE

REQUESTED DATE

4-26-96

LICENSE NUMBER

20-28045-01

CONTROL NUMBER

123177

I. APPLICATION FEE DUE

Your request for a licensing action is subject to the fee(s) in the category(ies) noted below in accordance with Section 170.31 of the enclosed Federal Register notice. Payment of the fee is required prior to the issuance of the license, renewal, or amendment.

FEE CATEGORY	APPLICATION	RENEWAL	AMENDMENT
3P	\$	\$	\$ 290.00
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$
	\$	\$	\$

FEE(s) DUE	\$	290.00
PAYMENT RECEIVED	\$	0.00
AMOUNT DUE	\$	290.00

- ☒ Your request was received without the prescribed application fee.
- ☐ We received your Check No. _____ in the amount of \$ _____. Payment of the additional fee noted above is required.
- ☐ Your request will increase the scope of your license program. Therefore, your request is subject to the application fee(s) noted above. Refer to Section 170.31 and Footnote 1(d)(2).
- ☐ Your license expired prior to the receipt of your application for renewal. Therefore, your request is subject to the application fee(s) noted above. Refer to Section 170.31 and Footnote 1(a).

MAKE PAYMENT OF THE FEE(S) TO THE U.S. NUCLEAR REGULATORY COMMISSION AND MAIL THE PAYMENT TO THE ADDRESS LISTED AT THE TOP OF THIS FORM. IF WE DO NOT RECEIVE A REPLY FROM YOU WITHIN 30 CALENDAR DAYS FROM THE DATE LISTED BELOW, WE SHALL ASSUME THAT YOU DO NOT WISH TO PURSUE YOUR APPLICATION AND WILL VOID THIS ACTION.

II. FEE NOT REQUIRED

☐ Enclosed is Check No. _____ which accompanied your request. The fee is not required because:

☐ We received your Check No. _____ in payment of the fee.

☐ The Licensing staff has informed us that your request is to be considered as a continuation of your request dated _____, Control No. _____.

☐ Your request was combined, prior to review, with your request, Control No. _____.

III. CHECK RETURNED

☐ Enclosed is Check No. _____ which was returned to us by the bank for:

- ☐ INSUFFICIENT FUNDS
- ☐ ACCOUNT CLOSED
- ☐ OTHER

MAIL THE REPLACEMENT CHECK TO THE ADDRESS LISTED AT THE TOP OF THIS FORM AND REFERENCE THE ABOVE CONTROL NUMBER.

IV. LICENSE ISSUED WITHOUT THE REQUIRED FEE

☐ License No. _____ Amendment No. _____, issued on _____, was issued without the required fee being collected. The fee required is noted in Section I of this form.

☐ The scope of your licensed program was increased. Therefore, your request is subject to the application fee(s) noted in Section I of this form. Refer to Section 170.31 and Footnote 1(d)(2).

☐ Because of the urgency of your request, the license was issued without remittance of the prescribed fee noted in Section I of this form.

SIGNATURE - LICENSE FEE ANALYST

BRENDA BROWN

LFDCB

BB BB

6/13/96

LFDCB

Distribution:

MAF Correspondence FY

LFDCB Chief

Invoice File w/encl

LFDCB Analyst

LFDCB R/F (2)

DATE

DAF R/F

6-13-96

PURCHASE ORDER NO. 8991

This Purchase Order No. Must
Appear On Your Invoice

7/22/96

GM

**NOVA Chemicals**

950 Worcester Street, P.O. Box 51927

Phone (413) 781-1441

Indian Orchard, MA 01151

FAX: (413) 736-5140

PLEASE BILL TO THE ABOVE ADDRESS - ATTN: ACCOUNTS PAYABLE

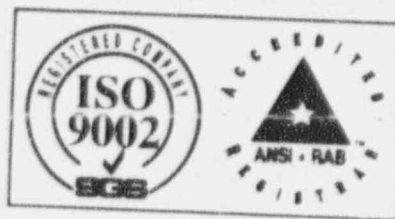
TO: LICENSE FEE & DEBT COLLECTION BRANCH
 DIV. OF ACCOUNTING & FINANCE
 U.S. NUCLEAR REGULATORY COMMISSION
 WASHINGTON D.C. 20555-0001

SHIP TO: NOVA Chemicals Inc.
 950 Worcester Street
 Indian Orchard, MA 01151

Please enter our order for the following:

Order Date	Ship Via	Date Required	Terms
7/19/96	N/A	7/19/96	NET 30
C.O.B.	Quotation No.	Requisitioner	Account
N/A	N/A	M. GARVEY	S-9707-342
	AFE No.		

QUANTITY	DESCRIPTION	PRICE	AMOUNT
1	PAYMENT OF AMMENDMENT FEE FOR LICENSE # 20-28045-01	290.0	\$290.00
			\$0.00
			\$0.00
			\$0.00
			\$0.00
			\$0.00
			\$0.00
			\$0.00
			\$0.00
			\$290.00



TO CONFIRM VERBAL ORDER ONLY
 DO NOT DUPLICATE!

ALL CORRESPONDENCE AND SHIPMENTS MUST BE SENT TO ATTENTION OF
 REQUISITIONER REFERENCE ABOVE PURCHASE ORDER NUMBER.
 FAILURE TO DO SO MAY RESULT IN DELAY OF PAYMENT.

SUBJECT TO THE TERMS AND
 CONDITIONS ON THE REVERSE SIDE

BY

NOVA Chemicals Inc.



A Responsible Care® Company

VENDOR

BETWEEN:

LICENSE FEE MANAGEMENT BRANCH, ARM
AND
REGIONAL LICENSING SECTIONS

(FOR LFMS USE)
INFORMATION FROM LTS

PROGRAM CODE: 03120
STATUS CODE: 0
FEE CATEGORY: 3P
EXP. DATE: 20030430
FEE COMMENTS: -----
DECOM FIN ASSUR REQD: N
.....

LICENSE FEE TRANSMITTAL

A. REGION I

1. APPLICATION ATTACHED

APPLICANT/LICENSEE: NOVACOR CHEMICALS INCORPORATED
RECEIVED DATE: 960502
DOCKET NO: 3030050
CONTROL NO.: 123177
LICENSE NO.: 20-28045-01
ACTION TYPE: AMENDMENT

2. FEE ATTACHED

AMOUNT: -----
CHECK NO.: -----

3. COMMENTS

SIGNED M.A. Perkins
DATE 5/17/96

B. LICENSE FEE MANAGEMENT BRANCH (CHECK WHEN MILESTONE 03 IS ENTERED 1)

1. FEE CATEGORY AND AMOUNT: 3P 6290

2. CORRECT FEE PAID. APPLICATION MAY BE PROCESSED FOR:

AMENDMENT ☒
RENEWAL ☐
LICENSE ☐

3. OTHER -----

SIGNED
DATE 5/17/96

Log	<u>June 7</u>
Remitter	
Check No.	<u>082727</u>
Amount	<u>6290</u>
Fee Category	<u>3P</u>
Type of Fee	<u>AMD</u>
Check Rec'd	<u>8/2/96</u>
Is Completed	<u>SS</u>

07 entered 8/2/96

1706 MAY 23 AM 8:32