

## 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.

302369

## Licensee

In accordance with letter dated  
February 21, 19973. License Number 21-23332-02 is amended in  
its entirety to read as follows:

4. Expiration Date August 31, 1999

5. Docket or  
Reference No. 030-310976. Byproduct, Source, and/or  
Special Nuclear Material

A. Cadmium-109

B. Americium-241

7. Chemical and/or Physical  
FormA. Sealed sources  
(Isotope Products  
Model No. XFB and/or  
New England Nuclear  
Model Nos. NER 465  
or NER 467)B. Sealed sources  
(Isotope Products  
Model No. GFS, New  
England Nuclear  
Model No. NER 478C,  
and/or Amersham  
Model No. AMC 64 or  
AMC 65)8. Maximum Amount that Licensee  
May Possess at Any One Time  
Under This LicenseA. 3 sources not  
to exceed 8  
millicuries eachB. 3 sources not  
to exceed 8  
millicuries each

## 9. Authorized Use:

A. and B. To be used in a Kevex Corporation Model No. 0202 X-ray fluorescence analyzer  
for chemical analysis.CONDITIONS10. Licensed material shall be used only at the licensee's facilities located at  
2175 E. West Maple Road, Walled Lake, Michigan.9704140021 970408  
PDR ADOCK 03031097  
C PDR

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MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License Number

21-23332-02

Docket or Reference Number

030-31097

Amendment No. 05

11. The Radiation Safety Officer for this license is Norman R. Cohn.
12. Licensed material shall be used by, or under the supervision of, Norman R. Cohn.
13. A. Sealed sources and detector cells shall be tested for leakage and/or contamination at intervals not to exceed 6 months or at such other intervals as specified by the certificate of registration referred to in 10 CFR 32.210.  
B. In the absence of a certificate from a transferor indicating that a leak test has been made within 6 months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.  
C. Sealed sources 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 transferred 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.  
D. The leak 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 in accordance with 10 CFR 30.50(b)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region III, ATTN: Chief, Nuclear Materials Safety Branch, 801 Warrenville Road, Lisle, Illinois 60532-4351. The report shall specify the source involved, the test results, and corrective action taken.

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- E. The licensee is authorized to collect leak test samples for analysis by Fisions Instruments. 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.
14. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.
15. The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under the license.
16. Installation, initial radiation survey, relocation, removal from service, maintenance, and repair of devices containing sealed sources shall be performed by Fisions Instruments or by persons specifically licensed by the Commission or an Agreement State to perform such services. 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.
17. 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 U.S. 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 April 28, 1994; and
- B. Letters dated August 5, 1994, January 22, 1997, and February 21, 1997.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date

APR 08 1997

By

*Loren J. Hunter*  
Nuclear Materials Licensing Branch, Region III

COPY



(FOR LFMS USE)  
INFORMATION FROM LTS

28

BETWEEN:

License Fee Management Branch, ARM  
and  
Regional Licensing Sections

Program Code: 03123  
Status Code: 0  
Fee Category: 3P  
Exp. Date: 19990831  
Fee Comments:  
Decon Fin Assur Req: N

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED  
Applicant/Licensee: NORCO ALLOYS CORPORATION  
Received Date: 970226  
Docket No: 3031097  
Control No.: 302369  
License No.: 21-23332-02  
Action Type: Amendment

2. FEE ATTACHED  
Amount: ~~-----~~  
Check No.: ~~-----~~

**FEE NOT REQUIRED**

3. COMMENTS

Signed  
Date

*D. Hersey*  
*3-21-97*

B. LICENSE FEE MANAGEMENT BRANCH

1. Fee Category and Amount:

**FEE NOT REQUIRED**

entered / /

2. Correct Fee Paid. Application may be processed for:  
Amendment  
Renewal  
License

3. OTHER

Signed  
Date

*SC*  
*3/3/97*

MAR 07 1997

|                    |                    |
|--------------------|--------------------|
| RECEIVED BY LFDCIB |                    |
| Date               | <i>Mar 3, 1997</i> |
| Log                | <i>Mar 2 III</i>   |
| By                 | <i>SC</i>          |
| Date Completed     | <i>3/3/97</i>      |

1997 MAR -3 AM 11:42





February 21, 1997

United States Nuclear Regulatory Commission  
Region III  
801 Warrenville Road  
Lisle, IL 60532-4351

ATTN: Material Licensing Section

RE: License No. 21-23332-02, Docket No. 030-31097, Control 302253

Dear Sirs:

Please amend the above referenced license to reflect the following information:

- \* Release for unrestricted use the original location of use and delete it from Condition No. 10 of our license.

The equipment was moved to our new location on February 20, 1997. I have enclosed a copy of the current wipe test of the sealed source for your reference.

If you have any questions regarding this matter, please call our office as soon as possible.

Regards,

*Terry Snurka*  
(Mrs.) Terry Snurka  
Controller

w/enc.

*Cont'n of 302253*  
**FEE NOT REQUIRED**

*pm: 2-24-97*

**RECEIVED**

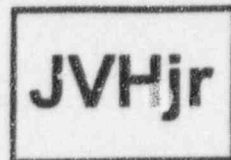
**FEB 26 1997**

**REGION III**

*302369*

**FEB 26 1997**





John Harrison

Radiation Safety and Training  
Calibration Source Production  
Sealed Source Leak-Testing  
Radiation Meter Calibration

❖ 140 Sutherland Drive, Auburn, California 95603 ❖

phone: 916.888.0800 | pager: 415.907.8763 | e-mail: jvhjr@newworld.net

Jeff Rubino  
Norco Alloys  
21601 Hoover Rd.  
Warren, MI 48089

## NOTICE:

Save this certificate !

Most regulatory agencies require that you leak-test your sealed radioactive source before you use it and at six month intervals thereafter. You may be asked to show proof of compliance during an inspection by the regulatory agency.

# \*\*\* Leak Test Certificate \*\*\*

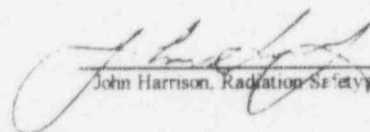
Leak test samples are obtained using a "KVX-L-TEST" kit as authorized by California Radioactive Materials License, # 162, 11

The sealed source(s) noted below was/were checked for leakage by wiping the source(s) and the holder assembly with a moistened swab which was then analyzed for contamination using a window-less gas-flow proportional counter. The test showed less than 0.001 microCuries of leakage (contamination). The maximum allowable leakage is 0.005 microCuries.

----- This radioactive sealed source **passes** the leak-test -----

| Source serial # | Activity, Isotope, and Assay Date | Activity, Isotope, and Assay Date | Leak test Collected by: | Leak test Analyzed by: | Leak test Due Date |
|-----------------|-----------------------------------|-----------------------------------|-------------------------|------------------------|--------------------|
|-----------------|-----------------------------------|-----------------------------------|-------------------------|------------------------|--------------------|

|      |                 |                 |                             |                               |             |
|------|-----------------|-----------------|-----------------------------|-------------------------------|-------------|
| 3823 | 21 mCi of Cd109 | 21 mCi of Am241 | Chuck Roman<br>on 09 Jan 97 | John Harrison<br>on 22 Jan 97 | 09 Jul 1997 |
|------|-----------------|-----------------|-----------------------------|-------------------------------|-------------|

  
John Harrison, Radiation Safety Officer



APR 08 1997

Mrs. Terry Snurka  
Controller  
Norco Alloys Corporation  
P.O. Box 9088  
Walled Lake, MI 48390-9088

Dear Mrs. Snurka:

Enclosed is Amendment No. 05 to your NRC Material License No. 21-23332-02 in accordance with your request.

Please review the enclosed document carefully and be sure that you understand all conditions. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region III office at (630) 829-9887 so that we can provide appropriate corrections and answers.

This amendment authorizes you to release for unrestricted use your former location of use at 21601 Hoover Road, Warren, Michigan. This action is based on your transfer of the licensed material on February 20, 1997, to your new location of use at 2175 E. West Maple Road, Walled Lake, Michigan, as stated in your letter dated February 21, 1997. It is also based on the latest leak test results for the device showing that the sealed source was not leaking.

Please be advised that your license expires at the end of the day, in the month, and year stated in the license. Unless your license has been terminated, you must conduct your program involving byproduct materials in accordance with the conditions of your NRC license, representations made in your license application, and NRC regulations. In particular, note that you must:

1. Operate in accordance with NRC regulations 10 CFR Part 19, "Notices, Instructions and Reports to Workers; Inspections," 10 CFR Part 20, "Standards for Protection Against Radiation," and other applicable regulations.
2. Notify NRC, in writing, within 30 days:
  - a. When the Radiation Safety Officer permanently discontinues performance of duties under the license or has a name change; or
  - b. When the mailing address listed on the license changes. (No fee is required if the location of byproduct material remains the same.)
3. In accordance with 10 CFR 30.36(b) and/or license condition, notify NRC, promptly, in writing, and request termination of the license when a decision is made to terminate all activities involving materials authorized under the license.

302369



4. Request and obtain a license amendment before you:
  - a. Change Radiation Safety Officers;
  - b. Order byproduct material in excess of the amount, or radionuclide, or form different than authorized on the license;
  - c. Add or change the areas of use or address or addresses of use identified in the license application or on the license; or
  - d. Change ownership of your organization.
5. Submit a complete renewal application with proper fee or termination request at least 30 days before the expiration date of your license. You will receive a reminder notice approximately 90 days before the expiration date. Possession of byproduct material after your license expires is a violation of NRC regulations. A license will not normally be renewed, except on a case-by-case basis, in instances where licensed material has never been possessed or used.

In addition, please note that NRC Form 313 requires the applicant, by his/her signature, to verify that the applicant understands that all statements contained in the application are true and correct to the best of the applicant's knowledge. The signatory for the application should be the licensee or certifying official rather than a consultant.

You will be periodically inspected by NRC. Failure to conduct your program in accordance with NRC regulations, license conditions, and representations made in your license application and supplemental correspondence with NRC will result in enforcement action against you. This could include issuance of a notice of violation, or imposition of a civil penalty, or an order suspending, modifying or revoking your license as specified in the General Statement of Policy and Procedure for NRC Enforcement Actions. Since serious consequences to employees and the public can result from failure to comply with NRC requirements, prompt and vigorous enforcement action will be taken when dealing with licensees who do not achieve the necessary meticulous attention to detail and the high standard of compliance which NRC expects of its licensees.

Sincerely,  
Original Signed By  
Loren J. Hueter  
Nuclear Materials Licensing Branch

License No.: 21-23332-02  
Docket No.: 030-31097  
Enclosures: 1. Amendment No. 05  
2. NRC Form 313

DOCUMENT NAME: M:\03031097.CL7

To receive a copy of this document, indicate in the box: "C" = Copy without attachment/enclosure "E" = Copy with attachment/enclosure "N" = No copy

|        |              |                                     |  |  |  |  |  |  |  |
|--------|--------------|-------------------------------------|--|--|--|--|--|--|--|
| OFFICE | DNMS/RIII    | <input checked="" type="checkbox"/> |  |  |  |  |  |  |  |
| NAME   | LJHUETER:jaw | <input checked="" type="checkbox"/> |  |  |  |  |  |  |  |
| DATE   | 04/7/97      | <input checked="" type="checkbox"/> |  |  |  |  |  |  |  |

OFFICIAL RECORD COPY





UNITED STATES  
NUCLEAR REGULATORY COMMISSION

REGION III  
801 WARRENVILLE ROAD  
LISLE, ILLINOIS 60532-4351

March 3, 1997

Norman R. Cohn, President  
Radiation Safety Officer  
Norco Alloys Corporation  
P. O. Box 9088  
Walled Lake, MI 48390-9088

SUBJECT: ACKNOWLEDGEMENT OF CORRESPONDENCE  
(Letter Dated 02/21/97)

Dear Licensee:

In response to your request, we have completed the initial processing, which is an administrative review of your application for a(n):

☐ New License                      ☒ Amendment                      ☐ Renewal  
☐ Termination                      ☐ Auth User (Amendment not required)  
☐ Other \_\_\_\_\_

No administrative deficiencies were identified during this initial review. However, it should be noted that a technical review may identify omissions in the submitted information.

It appears that your request is routine (see 1-3 below, as applicable).

1. New and amendment actions are normally processed within 90 days, unless we find major deficiencies, or policy issues requiring central program office assistance.
2. Renewal actions are normally processed within 180 days, however, under timely filing (before expiration), you may continue to operate under your existing license.
3. Termination actions are normally processed within 90 days, unless confirmatory surveys following decontamination/decommissioning activities are involved.

A copy of your correspondence has been forwarded to our Licensing Fee and Debt Collection Branch (301/415-6097) for approval of the fee category and amount, if required.

If you have a compelling safety or business-related reason for requesting expedited review, please contact the Materials Licensing Branch at (630) 829-9887. We will try to complete your request as soon as practicable. Any correspondence about this request should reference the control number.

Nuclear Materials Support Branch

Mail Control No. 302369  
License No. 21-23332-02