



May 19, 2014

Nuclear Materials Licensing Branch
US Nuclear Regulatory Commission, region IV
1600 E. Lamar Boulevard
Arlington, TX 76011-4511

Subject: Application for Renewal of our USRNC Materials License
US NRC License No. 26-18033-01E
Docket No 030-14382 Program Code: 03251
Ref: Nebraska State License No. 10-02-01

Enclosed please find an application for renewal of License #26-18033-01E for VISHAY-Dale Electronics Inc. in accordance with 10 CFR 32.14 to distribute devices containing radioactive material. The current license expires June 30, 2014. It correctly lists the two sites where the material will be used or possessed. Site 1 is Plant 2 (1122-23rd St. Columbus, NE). Site 2 is Plant 6 (2064 12th Ave. Columbus, NE). Please see Attachment #1.

Nebraska is an agreement state with the US NRC. Our current State Radioactive Material License # 10-02-01 will expire on July 31, 2017. Please see Attachment #2.

Our processes and end products using Kr-85 have not changed since the current license was issued in 1994 and amended in 2013. We don't intend to increase production.

Answers to items 5 through 11 of NRC Form 313 are as follows:

5. *Radioactive Material:*

Element: Krypton-85
Physical Form: Gas
Maximum Allowed on Site: 6 Curies

6. *Purpose For Which Licensed Material Will Be Used:*

Dale Electronics manufactures flat panel displays for avionics and computer interface. Our flat panel units display information by numbers, letters, bar graphs and graphics. Certain applications are not possible without the Kr-85 mixed in with the Neon gas. It allows the display to light more evenly and clearly at very low illumination levels as needed in the cockpit of a plane at night.

Vishay Dale Electronics, Incorporated

1122 23rd Street, Columbus, NE, 68601, Phone (402) 564-3131 Fax (402) 563-6418 www.vishay.com

MANUFACTURER OF THE WORLD'S BROADEST LINE OF DISCRETE SEMICONDUCTORS AND PASSIVE COMPONENTS



7. Individual Responsible For Safety, And Their Training Experience:

redacted by NRC staff

...the book used, and the certificate of successful completion.
Please see attachment #3.

Items 8 Through 11 on Form 313

From my understanding, items 8 through 11 on Form 313 may not be applicable since this is a request to distribute and not to possess or use. The State of Nebraska controls and monitors our processes, facilities, safety program and waste management. To assure all requirements are covered, I will address each item per the instructions in the License Application Guide.

8. Training for Individuals Working in or Frequenting Restricted Areas:

Before using licensed materials, authorized users will have successfully completed training as described in NUREG 1556, Volume 1. Records of the yearly training are maintained by the RSO.

9. Facilities and Equipment:

We have determined and complied with Public Dose and Operating & Emergency Procedures.

10. Radiation Safety Program:

We have an established and completed radiation safety plan. DPS-3126 "Radiation Safety Program" details of the overall controls and safety measures along with the schedule for audits. (DPS-3126 can provided upon request)

Vishay Dale Electronics, Incorporated

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11. Waste Management- Disposal and Transfer

We worked closely with the State of Nebraska HHS to establish a disposal and transfer program for our waste. All of the radioactive related waste generated is handled per DPS-2924 "Disposal of Gas Filled Plasma Displays". (DPS-2924 can be provided upon request)

12. License Fee

It states fees are only required for new applications. This is a renewal of an existing license. No fee is required.

13. Certification

Please see the delegation of authority from Management. (Attachment 4)

None of the information provided in this request is considered proprietary.

If you need more information, please contact me by phone at (402) 563-6546, cell phone at (402) 910-2418 or Email at dave.wolfe@vishay.com

Sincerely,

A handwritten signature in cursive script that reads "David A. Wolfe".

David A. Wolfe
RSO / Sr. Product Engineer
VISHAY- Dale Electronic

Enclosed:

- 1 US NRC Application / Amendment Form 313
- 2 State of NE Radioactive Material License
- 3 RSO Training Class Taken, Certificate
- 4 Delegation of Authority

CC: Keith Raysby
Al Busboom
Valerie Paul

Vishay Dale Electronics, Incorporated

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MANUFACTURER OF THE WORLD'S BROADEST LINE OF DISCRETE SEMICONDUCTORS AND PASSIVE COMPONENTS



**APPLICATION FOR MATERIALS
LICENSE**

Estimated burden per response to comply with this mandatory collection request: 4.3 hours. Submittal of the application is necessary to determine that the applicant is qualified and that adequate procedures exist to protect the public health and safety. Send comments regarding burden estimate to the FOIA, Privacy, and Information Collections Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to Infocollects.Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0120), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

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. *AMENDMENTS/RENEWALS THAT INCREASE THE SCOPE OF THE EXISTING LICENSE TO A NEW OR HIGHER FEE CATEGORY WILL REQUIRE A FEE.

APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

OFFICE OF FEDERAL & STATE MATERIALS AND ENVIRONMENTAL MANAGEMENT PROGRAMS
DIVISION OF MATERIALS SAFETY AND STATE AGREEMENTS
U.S. NUCLEAR REGULATORY COMMISSION
WASHINGTON, DC 20555-0001

ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:

IF YOU ARE LOCATED IN:

ALABAMA, CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, FLORIDA, GEORGIA, KENTUCKY, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, NORTH CAROLINA, PENNSYLVANIA, PUERTO RICO, RHODE ISLAND, SOUTH CAROLINA, TENNESSEE, VERMONT, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA,

SEND APPLICATIONS TO:

LICENSING ASSISTANCE TEAM
DIVISION OF NUCLEAR MATERIALS SAFETY
U.S. NUCLEAR REGULATORY COMMISSION, REGION I
2100 RENAISSANCE BOULEVARD, SUITE 100
KING OF PRUSSIA, PA 19406-2713

IF YOU ARE LOCATED IN:

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

MATERIALS LICENSING BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION III
2443 WARRENVILLE ROAD, SUITE 210
LISLE, IL 60532-4352

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS, LOUISIANA, MISSISSIPPI, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH, WASHINGTON, OR WYOMING,

SEND APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
1600 E. LAMAR BOULEVARD
ARLINGTON, TX 76011-4511

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 JURISDICTIONS.

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

- A. NEW LICENSE
- B. AMENDMENT TO LICENSE NUMBER
- C. RENEWAL OF LICENSE NUMBER 26-18033-01E

2. NAME AND MAILING ADDRESS OF APPLICANT (Include ZIP code)

VISHAY-Dale Electronics
1122-23rd St. (Plant 2)
Columbus, 68601

3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

VISHAY-Dale Electronics
1122-23rd St. (Plant 2) & 2064-12th Ave. (Plant 6)
Columbus, 68601

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

David A. Wolfe - RSO

BUSINESS TELEPHONE NUMBER
(402) 563-6546

BUSINESS CELLULAR TELEPHONE NUMBER
(402) 910-2418

BUSINESS EMAIL ADDRESS
dave.wolfe@vishay.com

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.

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

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

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

9. FACILITIES AND EQUIPMENT.

10. RADIATION SAFETY PROGRAM.

11. WASTE MANAGEMENT.

12. LICENSE FEES (Fees required only for new applications, with few exceptions*)
(See 10 CFR 170 and Section 170.31)

FEE CATEGORY 170.31,3,H AMOUNT ENCLOSED \$ 0.00

13. 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, 36, 37, 39, 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.

CERTIFYING OFFICER -- TYPED/PRINTED NAME AND TITLE

David A. Wolfe - RSO / Sr. Process Engineer

SIGNATURE

David A Wolfe

DATE

5-19-14

FOR NRC USE ONLY

TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
			\$		
APPROVED BY				DATE	

STATE OF NEBRASKA
DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH
RADIOACTIVE MATERIALS PROGRAM

2

RADIOACTIVE MATERIAL LICENSE

Pursuant to the Radiation Control Act, 1963, and 180 NAC 3 of the Nebraska regulations, 'Control of Radiation,' and in reliance on statements and representations heretofore made by the licensee designated below, a license is hereby issued authorizing such licensee to transfer, receive, possess and use the radioactive material(s) designated below; and to use such radioactive materials for the purpose(s) and at the place(s) designated below. This license is subject to all applicable rules, regulations and orders now or hereafter in effect of the Nebraska Department of Health and Human Services and to any conditions specified below.

1. Licensee	Vishay Dale Electronics, Inc.	3. License Number	10-02-01
		License Type	Manufacture/Processing of
2. Address	1122 23rd Street	4. Amendment Number	39
	P.O. Box 609	License Amended In Its Entirety To Read As Follows:	
	Columbus, NE 68602-0609	5. Expiration Date	July 31, 2017

6. Radioactive Material	7. Chemical And/Or Physical Form	8. Maximum Quantity License	9. Authorized Use
A. Krypton-85	Gas	May Possess At Any One Time Under This License	Research, development, and manufacturing plasma displays
		6 curies	

CONDITIONS

- 10. Licensed Material shall only be used by, or under the supervision of, Dave Wolfe.
- 11. The Radiation Safety Officer for this license is Dave Wolfe.
- 12. Licensed material shall be used and/or stored only at the following location(s):
 - Vishay Dale Electronics, Inc. 1122 23rd Street Columbus, NE
 - Vishay Dale Electronics, Inc. 2064 12th Ave Columbus, NE
- 13. The licensee is authorized to transport licensed material only in accordance with the provisions of 180 NAC 13.

STATE OF NEBRASKA
DEPARTMENT OF HEALTH AND HUMAN SERVICES
DIVISION OF PUBLIC HEALTH
RADIOACTIVE MATERIALS PROGRAM

License Number: 10-02-01

Amendment Number: 39

14. The licensee shall not transfer possession and/or control of materials or products containing radioactive material as contamination except:

A. Be transferred to a specifically licensed recipient to receive material; or

B. The licensee is hereby permitted to transfer plasma display scrap to the U.S.P.C.I. Grassy Mountain Facility, Knolls, Utah, under the condition defined in the Utah Radiation Control Board letter dated April 26, 1994, or to United Refining and Smelting Company, Franklin Park, Illinois.

The plasma display scrap containing Krypton 85 shall be heated to 650 degrees Celsius for one hour to eliminate Krypton 85 from the scrap to a level no greater than 1.9 picocuries per gram prior to transfer.

Each shipment of plasma display scrap shall require a radioassay of the treated product to assure compliance with the 1.9 picocuries per gram concentration as outlined in licensee's procedure titled Disposal of Plasma Display Scrap DPS-2924.

15. Except as specifically provided otherwise by 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. Title 180 shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.

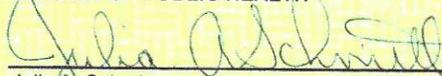
A. Renewal application with attachments dated June 27, 2012, signed by David Wolfe.

B. Received Delegation of Authority for Dave A. Wolfe dated June 25, 2012 signed by Keith Raysby, Senior Vice President.

C. Received usage area diagrams, drawing DPS-2921 of Kr-85 storage cabinet, drawings 40207 of concrete containment for tapped canisters, changes to DPS-3126, effluent calculations for Kr-85 dated September 7, 2012 signed by David Wolfe, Sr. Process Engineer.

Date: October 29, 2012

FOR THE NEBRASKA DEPARTMENT OF HEALTH & HUMAN SERVICES,
DIVISION OF PUBLIC HEALTH



Julia A. Schmitt
Radioactive Materials Program

3

Nevada Technical Associates, Inc.

Phone 702-564-2798
P.O. Box 90748, Henderson, NV 89009

Main

Schedule of
Courses



About the
Instructors

(\$1100)

About NTA

Las Vegas, Nevada

The Bookstore

January 14 - 18, 2002
March 11 - 15, 2002
May 13 - 17, 2002
July 15 - 19, 2002
September 16 - 20, 2002
November 11 - 15, 2002

Video Series on
Radiation Safety

NRRPT Exam
Practice Software

Rochester, New York

AAHP Exam
Practice Software

July 8 - 12, 2002
September 23 - 27, 2002

Radon Test Kits

The course in Rochester will be at the Ramada Inn, phone 585-475-9190, for room reservations. We plan to give additional courses on the East Coast next year.

Safety Plans

Radiochemistry
and Analytical
Services

C.E.U. Credit - This course has been granted 32 Continuing Education Units by the American Academy of Health Physics. The American Board of Industrial Hygiene has awarded this course 5 CM points.

Employment
Opportunities

Our Radiation Safety Officer Course is designed to provide the technical and practical information needed to prepare a person to be an effective radiation safety officer. It will also be useful as general introductory training for anyone who works with radioactive materials or who may be required to be an alternate radiation safety officer. Some prior knowledge of algebra and science is desirable.

Contact Us

Topics to be covered include atomic structure, properties of ionizing radiation, shielding, radiation and biological safety terms and units,

biological effects of radiation exposure, radiation detection and measurement, state and federal regulations, dosimetry, emergency procedures, records/documentation and transportation regulations.

The instructors for this course are Ted Allen and Robert Holloway. The RSO courses in 2002 (except for the Rochester courses) will be held at the Fairfield Inn on Paradise Road in Las Vegas, Nevada. We request that you register for the course before calling the hotel to reserve your room.

Attendees should reserve a room as early as possible. To reserve a room at the Fairfield Inn, call them at 702-791-0899.

About the Instructors

For more information or to register for the course,
Contact Us

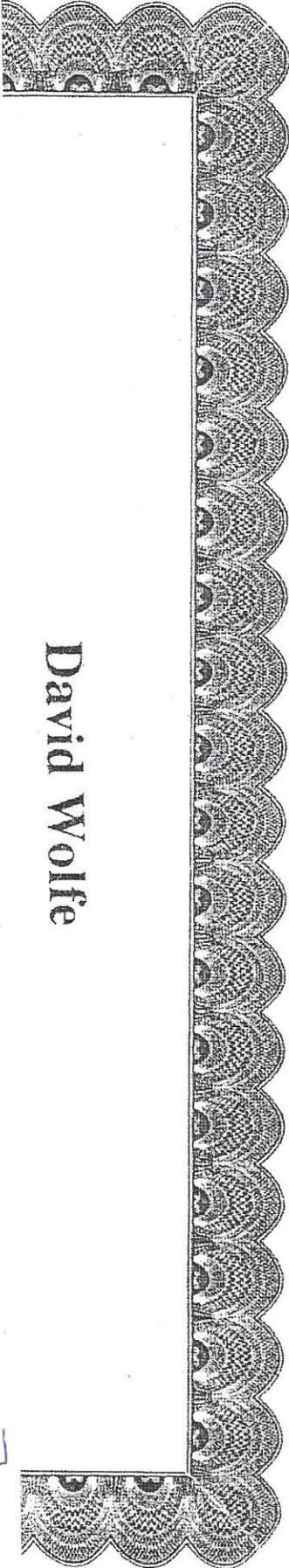
For other courses see the course schedule.

[[Main](#)] [[Schedule of Courses](#)] [[About the Instructors](#)] [[About NTA](#)] [[The Bookstore](#)]
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9	Surveys, Records and Documentation
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David Wolfe

reduced
by
NRC
staff





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May 9th, 2014
Reference: USNRC

Nuclear Materials Licensing Branch
US Nuclear Regulatory Commission, region IV
1600 E. Lamar Boulevard
Arlington TX 76011-4511

Subject: Delegation of Authority

David A. Wolfe, Vishay/Dale Electronics Inc. Nuclear Materials Safety Officer, has requested authority to make changes in the Vishay/Dale nuclear materials license registered with the State of Nebraska and the USNRC. By doing so, management, such as myself, will not have to sign all future correspondence dealing with request for modification.

At this time, I would like to delegate authority to David A. Wolfe to make changes in Vishay/Dale Electronics Inc. Nuclear Materials license.

Sincerely,

Vishay Dale Electronics, Inc.

Keith Raysby
Senior Vice President
For Information Display Products

kr:cr

C: David A. Wolfe
Valerie Paul
Al Busboom

VISHAY DALE ELECTRONICS, INC.

1122-23rd Street, P.O. Box 609, Columbus, NE 68602-0609, USA Phone (402) 563-6413 Fax (402) 563-6499 Keith.Raysby@vishay.com

ONE OF THE WORLD'S LARGEST MANUFACTURERS OF **DISCRETE SEMICONDUCTORS AND** PASSIVE COMPONENTS

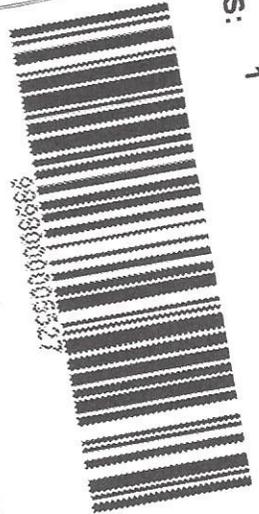
DALE ELECTRONICS, INC.
1122 23RD STREET
P.O. BOX 609
COLUMBUS, NE 68602-0609



FROM: Dave Wolf
United Parcel Service
CARR: 1ZV828884294554158
TRK#: 0920
RCVD: 5/23/2014

TO: HILL, Carol
PHI:
BDG:
RM: 1
PCS:

RTE:
MSC:



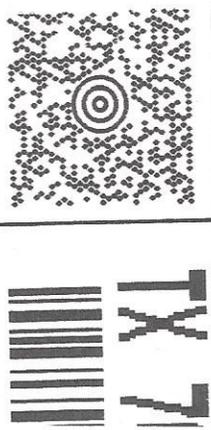
E-DIST LICENSE
FSME
No. 1
REGION 4

Nuclear Materials Licensing Branch
US Nuclear Regulatory Commission, region IV
1600 E. Lamar Boulevard
Arlington, TX 76011-4511

DAVE WOLFE
(402) 563-4183
THE UPS STORE #4594
SUITE 800
118 23RD STREET
COLUMBUS NE 68601

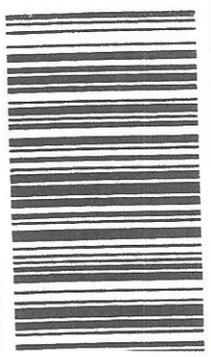
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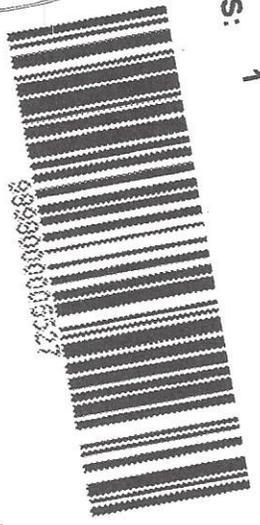
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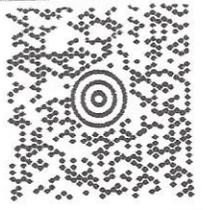
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1 LBS 1 OF 1
SHIP WT: 1 LBS
DATE: 21 MAY 2014

SHIP US NUCLEAR REGULATORY COMMISSION
TO: NUCLEAR MATERIALS LICENSING BRANCH
REGION IV
1600 E LAMAR BLVD

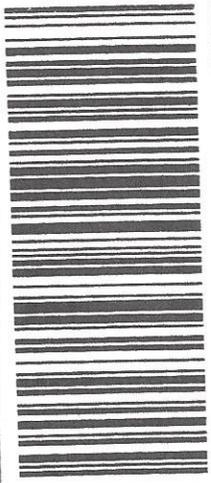
ARLINGTON TX 76011-4511



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