

### APPLICATION FOR MATERIAL LICENSE

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.

APPLICATIONS FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

U.S. NUCLEAR REGULATORY COMMISSION  
DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR 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 HAMPSHIRE, NEW JERSEY, NEW YORK, PENNSYLVANIA, RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION I  
NUCLEAR MATERIALS SAFETY SECTION B  
475 ALLENDALE ROAD  
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  
NUCLEAR MATERIALS SAFETY 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  
NUCLEAR MATERIALS SAFETY SECTION  
1450 MARIA LANE, SUITE 210  
WALNUT CREEK, CA 94596

17 APR 8 A 0:12

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 47-24837-01

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

Olin Corporation  
95 MacCorkle Avenue, SW  
South Charleston, WV 25303-1411

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

Licensed material shall be used only at the licensed plant located on "G" Street near the Kanawha River in South Charleston, West Virginia.

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

B. J. Smith

TELEPHONE NUMBER

(304) 746-3090

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 AND EXPERIENCE.

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

9. FACILITIES AND EQUIPMENT.

10. RADIATION SAFETY PROGRAM.

11. WASTE MANAGEMENT.

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

FEE CATEGORY Renewal AMOUNT ENCLOSED \$ 400.00

RECEIVED  
DIVISION OF INDUSTRIAL AND MEDICAL SAFETY  
APR 15 1991

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, 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

TYPED/PRINTED NAME

TITLE

DATE

John F. Drew  
(Application prepared by  
B. J. Smith - 3/12/91)

Plant Manager (Interim)

3-26-91

FOR NRC USE ONLY

TYPE OF FEE FEE LOG FEE CATEGORY COMMENTS

REN Apr. 3 II 3P

AMOUNT RECEIVED \$ 400 CHECK NUMBER 633621

NMSS/RGNI MATERIALS-002

APPROVED BY

DATE

4/16/91

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TYPED/PRINTED NAME

John F. Drew  
(Application prepared by  
B. J. Smith - 3/12/91)

TITLE

Plant Manager (Interim)

DATE

3-26-91

FOR NRC USE ONLY

TYPE OF FEE	FEE LOG	FEE CATEGORY	COMMENTS

AMOUNT RECEIVED	CHECK NUMBER

APPROVED BY

DATE

ITEM 5 AND 6

<u>Isotope Source</u>	<u>Activity MC1</u>	<u>Service</u>	<u>Manufacturer</u>	<u>Serial Number</u>
CE-137	100	Density	OHM A2102	73384
CE-137	50	Density	OHM A2102	65678
CE-137	50	Density	OHM A2102	65679
CE-137	100	Flow	OHM BMV24	1163
CE-137	100	Flow	OHM BMV24	1108
CE-137	100	Flow	OHM BMV24	2009
CE-137	100	Flow	Kay Ray	28658
CE-137	100	Storage	OHM A2102	60150
CE-137	100	Flow	Kay Ray	21509
CE-137	100	Density	Kay Ray	20614
CE-137	100	Density	Amersham	27231
CE-137	100	Density	Amersham	27230

ITEM 7

Licensed material shall be used by, or under the supervision of R. L. Daniels or B. J. Smith. Both completed an Ohmart training course in Principle and Practices of Radiation Protection, Radioactivity Measurement and Monitoring, Mathematics and Calculations, Biological Effects of Radiation, Common U.S.N.R.C. Regulations, Waste Disposal and Emergency Procedures. B. J. Smith completed the course on August 9, 1989. R. L. Daniels completed the course on September 20, 1983.

ITEM 8

Training of employees in radiation safety was completed in January, 1990, by B. J. Smith.

ITEM 9

1. Sketch enclosed showing location of each gauge in our facility.
2. No extreme conditions of temperature, corrosive atmosphere, or vibration.
3. No cooling system used.
4. No cooling system used.
5. A physical check of gauges and shutter operation are made every six months, and records are kept.
6.
  - a. In all emergency procedures taken, priority should be given to human safety.
  - b. Evacuate the area.
  - c. Identify and isolate persons who might have received exposure
  - d. Regulate entry to the scene of the accident.
  - e. Notify the appropriate authorities.  
 The "responsible" individuals who should be notified are B. J. Smith, telephone number 746-3090, and R. L. Daniels, telephone 746-3006. Either Mr. Smith or Mr. Daniels would notify the N.R.C.

ITEM 10.1

Installation, initial radiation survey, relocation, removal from service, maintenance, and repair of device containing sealed services shall be performed by Ohmart, Kay-Ray or by persons specifically licensed by the Commission, or any 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 agreement state to perform such services.

Preparation Control, Inc., P. O. Box 746, Nitro, West Virginia 25143, License No. 47-19294-01.

ITEM 10.2

Preparation Control, Inc.

ITEM 10.3

Preparation Control, Inc.

ITEM 10.4

Leak Testing

- a. Sources contained in devices manufactured by Ohmart, or Kay-Ray shall be tested for leakage, and/or contamination at three year intervals. Any source which is received by another person which is not accompanied by a certificate indicating that a leak test was performed before the transfer, shall not be put into service until it is leak tested.
- b. Any service in storage and not being used need not be tested. When the source is removed from storage for use or transfer to another person, it shall be tested before use or transfer.
- c. 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, the source shall be removed from service and decontaminated, repaired, or disposed of in accordance with commission regulations. A report shall be filed within five days of the date of the leak test result is known with the U. S. Nuclear Regulatory Commission, Region 11, Division of Radiation Safety and Safeguards, Nuclear Material Safety Section, 101 Marietta Street, Suite 2900, Atlanta, Georgia 30323. The report shall specify the source involved, the test results, and the corrective action taken. Records of leak test results shall be kept in units of microcuries and shall be maintained for inspection by the Commission. Records may be disposed of following Commission inspection.

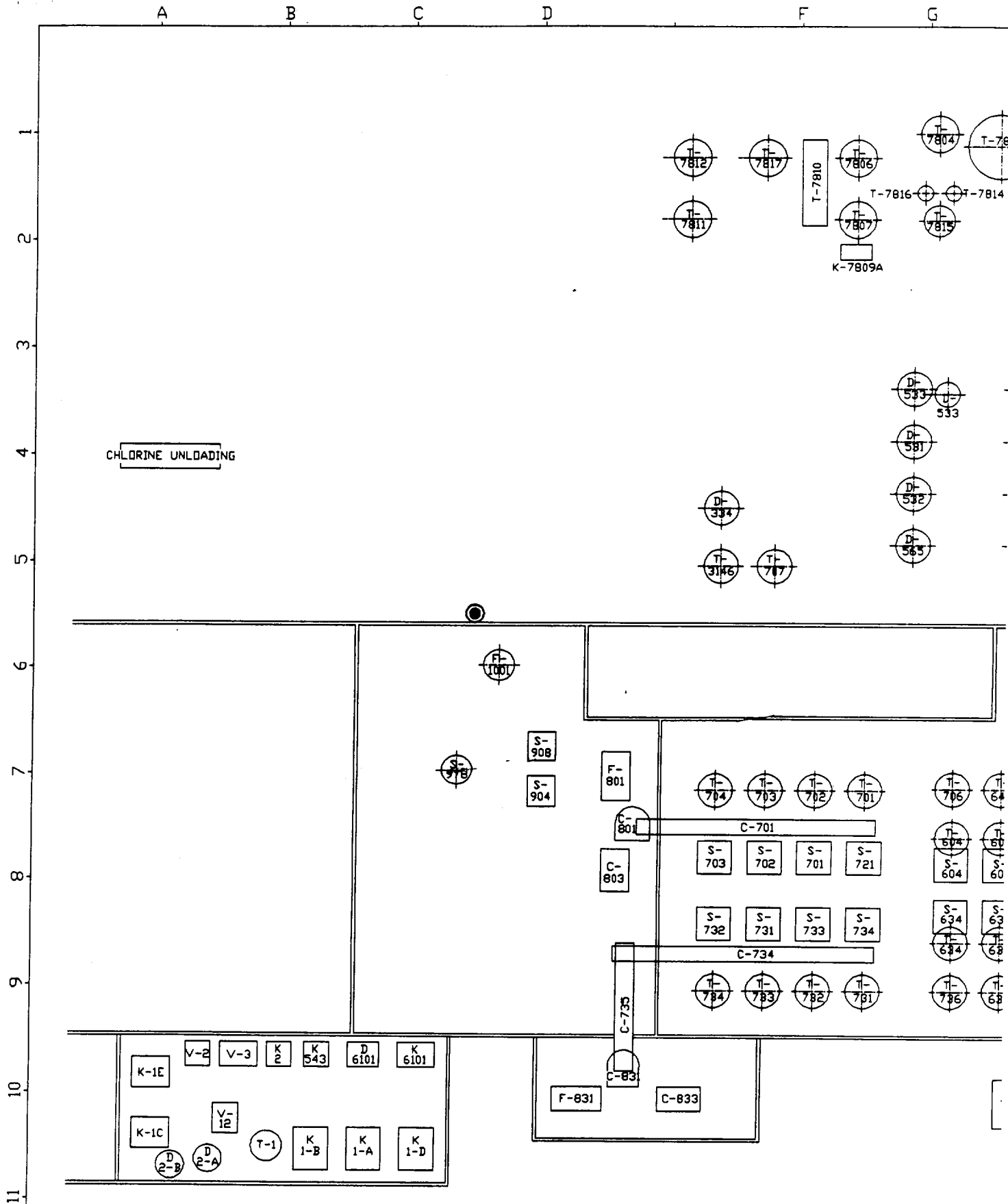
ITEM 10.5

Lock-out procedures so that personnel will not be subjected to unnecessary exposure and posted for personnel to see.

ITEM 11

Disposal will be by transfer to a recipient specifically authorized to possess radioactive material as specified in paragraph 20.301(a) of 10 CFR 20.

NUCLEAR.LIC



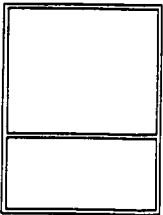
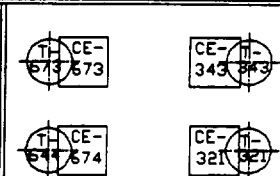
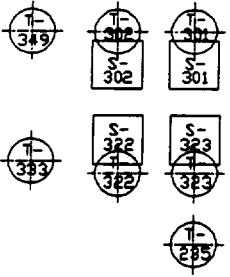
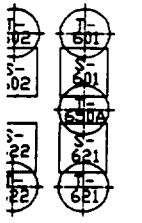
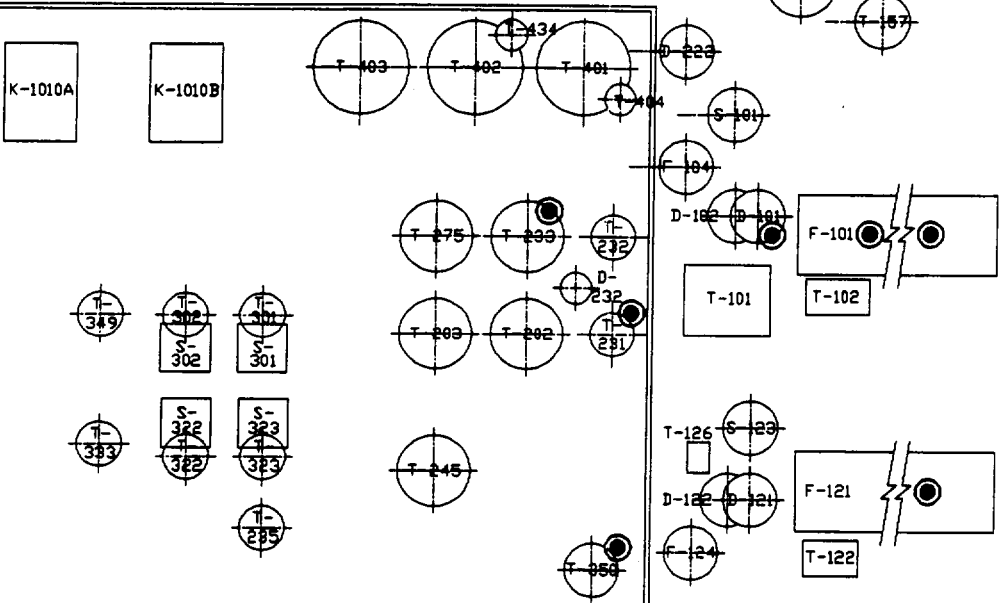
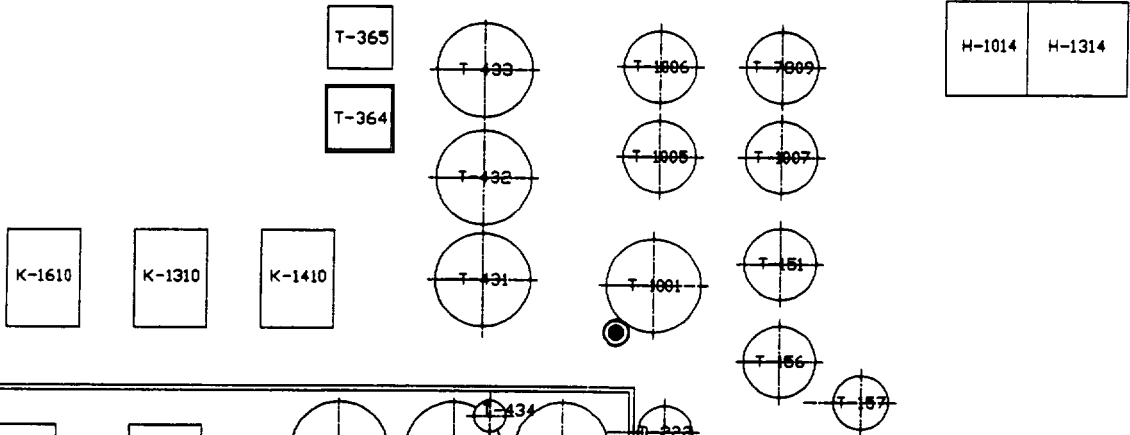
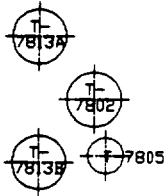
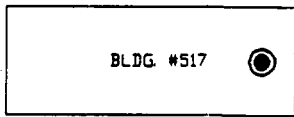
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REV	DESCR

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**NOTES:**

● NUCLEAR MONITORS



MAR 28 1991

REFERENCE DRAWINGS	
NO.	TITLE

DRAWN DATE	CHKD. DATE	APPR. DATE	DRAWN J. MUNDALL	DATE 03-26-91		PLANT: SOUTH CHARLESTON, V.V.G. PROJECT NO. CAR NO. SCALE V468 NONE	DRAWING NUMBER 71.0-468-10,001-D	REV 0
			CHECKED DATE					
			APPR.					

PLOT DATE 03-27-91 DLM

46810001