POOR ORIGINAL

PDR 40-8949 Approved by GAO

FORM NRC-2 (7-77) 10 CFR 40

#### U.S. NUCLEAR REGULATORY COMMISSION

#### APPLICATION FOR SOURCE MATERIAL LICENSE

Pursuant to the regulations in Title 10, Code of Federal Regulations, Chapter 1, Part 40, application is hereby made for a license to receive, possess, use, transfer, deliver or import into the United States, source material for the activity or activities described.

Tk (a) New license				
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The state of the s	The second control of	PRINCIPAL BUSINESS ADDRESS		
-	License No.	1100 17th Street, N.		
And the second second	cense No.	Washington, D.C. 200	35 91.170 10	
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	y Public Warehouse	(227.		
NAME OF PERSON TO	CHYARDS . Illinois	SAPPLICATION 6. TELEPHONE NO. C	F INDIVIOUAL NAMES	DINITEMS
Bruce W. Pod				
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STATE THE TYPE OR	TYPES, CHEMICAL FORM OR FORM	MS. AND QUANTITIES OF SOURCE MATE	RIAL YOU PROPOSE T	O RECEIVE.
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HE U-235 ISOTOPE				1
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Describe proposed procedures to protect health and minimize danger to life and property and relate these procedures to the operations listed in item 9: include (a) safety reat as and procedures to avoid nonnuclear accidents such as fire explosion, etc. in source material storage and processing areas  (b) emergency procedures in the event of accidents which might involve source material.  (b) emergency procedures in the event of accidents which might involve source material.  (c) detailed description of radiation survey program and procedures.  All regulations imposed by the U.S. Nuclear Regulatory Commission and all state and local regulations will be complied with.  (a) Waste products: If none will be generated, state "None" opposite (a), below. If waste products will be generated, check here and explain on a supplemental sheet:  (a) Quantity and type of radioactive waste that will be generated. Mone  (b) Detailed procedures for waste disposal.  (a) If products for distribution to the general public under an exemption contained in 10 CFR 40 ARE TO BE MANUFACTURED, USE A SUPPLEMENTAL SHEET TO FURNISH A DETAILED DESCRIPTION OF THE PRODUCT, INCLUDING:  (a) Percent source material in the product and its Location in the product.  (b) Physical Description of the product including characteristics, if any, that will	PLAN VIEW SHOWING TYPE AND LOCATION OF HOOD AND FILTERS. MINIMUM VELOCITIES MAINTAINED AT HOOD OPENINGS AND PRO-
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UFACTURED PRODUCT.	(d) METHOD OF ASSURING THAT SOURCE MATERIAL CANNOT BE DISASSOCIATED FROM THE MAN- UFACTURED PRODUCT.
CERTIFICATE	CERTIFICATE
(This item must be completed by applicant)	
The applicant, and any official executing this certificate on behalf of the applicant named in Item 2 certify that this application is prepared in conformity with Title 10, Code of Federal Regulations Part 40, and that all information contained herein, including any supplements attached hereto, is true and correct to the best of our knowledge and belief.	certify that this application is prepared in conformity with Title 10, Code of Federal Regulations, Part 40, and that all information contained herein, including any supplements attached hereto, is
BY: (Signature)	BY: Signature)

Edlow International Company

Print or type name)

Vice President

(Title of certifying official authorized to act on behalf of the applicant)

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.

Form NRC-2 (7-77)



POOR ORIGINAL

Edlow International Company Suite 404 1100 17th Street, N.W. Washington, D.C. 20036

#### SUPPLEMENT SHEET 1

9. The source material will not be processed in any way, only stored temporarily, at this location. While material will be received, possessed, transferred, or imported into the U.S. against the license, Edlow will not use the material in or for a nuclear process.

Edlow International Company Suite 404 1100 17th Street, N.W. Washington, D.C. 20035

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#### SUPPLEMENT SHEET 2

11a. A respirator and fire extinguisher will be stored in the immediate area of the source material.

The uranium hexaflouride will be stored in Department of Transportation specification 7A cylinders. These cylinders are described as model 48X or 48Y. Copies of the specifications for these cylinders and their valve protectors, taken from U.S. E.R.D.A. publication ORO-651-Rev.4, "Uranium Hexaflouride: Handling Procedures and Container Criteria", are attached (attachments 1 and 2).

Uran im ore concentrate will be stored in standard 55 gallon drums which weigh approximately 55 pounds empty and hold approximately 800 pounds of concentrate. A copy of the applicable drum specification from British Nuclear Fuels Limited which is typical of drum specifications is also attached (attachment 3).

Access to the material will be limited by means of barbed wire topped fencing and police, guard, and operating personnel. The source material will be stored at the National City Public Warehouse operation of the St. Louis National Stockyards, a major warehouse company. Fencing of the perimeter of the property will be completed shortly at which time the only access to the Stockyears and the warehouse facilities therein will be through the main gate. A second, interior fence will be erected around the UF6 cylinders and any U308 drums stored outdoors. Material stored outdoors will be stored on a brick or crushed rock surface. Drums of U308 might also be stored indoors in which case they will be located in a secure, sprinklered warehouse building.

National City Public Warehouse, a division of St. Louis National Stockyards, is an incorporated city, National Stockyards, Illinois, which has its own police and fire departments on-site. It is patrolled by watchmen and its own police continuously.

Edlow International Company Suite 404 1100 17th Street, N.W. Washington, D.C. 20036

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#### SUPPLEMENT SHEET 3

The UF6 will be stored outside and will not be located near explosive or flammable materials. A mobile crane with a minimum of 25 tons lifting caps will be used to move the cylinders. Cables will be attached from the crane to the four lifting points on the cylinder. Two tag lines will also be attached which will be controlled by men on the ground to insure that a cylinder in motion does not swing over a cylinder on the ground.

Drums will be unloaded by a fork lift outfitted with a drum clamp. The drums will either be stored in the fenced outside area with the UF6 cylinders or inside in a secure, sprinklered warehouse. In either case they will be stored away from flammable or explosive material.

Access to the warehouse property during normal business hours is through a guarded gate in the Stockyard perimeter fence. Unauthorized persons in the warehouse would be challenged by watchmen or warehouse supervisory and operating personnel. After business hours the warehouse is locked and protected by electronic alarms and police and guard patrols.

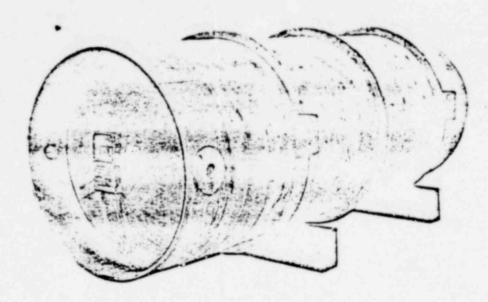
Responsibility for storage and handling of the containers will be held by Mr. Len Whittich, Vice President, Mr. B.M. Cuppy, Warehouse Manager, and Mr. Don Tolar, Foreman. These people are employed by the St. Louis National Stockyards which is a contractor of Edlow International Company.

Written emergency instructions will be furnished to the National City Public Warehouse as follows:

In the case of any emergency in which there is fire or the threat of fire, notice should be given immediately to the fire department noting that the items involved are uranium hexafluoride and if applicable, triuranium octoxide. Notice should then be given to Edlow International Company, telephone (202)833-8237. For nights, weekends, and holidays, alternate telephone contacts are Jack Edlow (301)229-4992, Diane Harmon (703)379-2799, Samuel Edlow (202)363-4634, or Bruce Podhurst (703)751-2629.

In the case of emergency in which fire is not an immediate threat, contact should be made immediately with Edlow International Company, telephone (202)833-8237. For nights, weekends and holidays, alternate telephone contacts are Jack Edlow (301)229-4992, Diane Harmon (703)379-2799, Samuel Edlow (202)363-4634 or Bruce Podhurst (703)751-2629. Instructions will then be given by Edlow staff as to what steps should next be taken.

### UF6 CYLINDER MODEL 48Y



#### GENERAL DATA

Other Descriptive Terminology Used - 14-ton

#### ENGINEERING DRAWING REFERENCE

Nominal Diameter

Nominal Length

Wall Thickness

Nominal Tare Weight

Maximum Net Weight

Nominal Gross Weight

Minimum Volume

Basic Material of Construction

Service Pressure

Hydrostatic Test Pressure

Isotopic Con ant Limit

UNION CARBIDE CORPORATION, PGDP: E-S-12292 C

48 in.

150 in.

5/8 in.

3,200 lb (2,359 kg)

27,560 lb (12,501 kg)

32,760 lb (14,860 kg)

142.7 ft3 (4.04 m3)

Steel

200 psig

400 psig

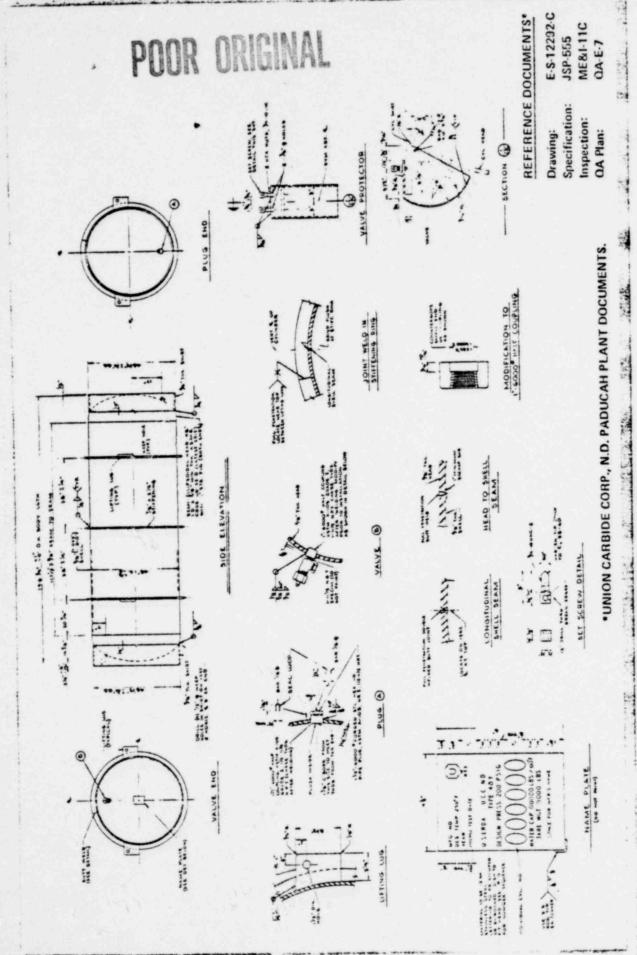
4.5% U-235 max with moderation control

Valve Used - 1-in. Valve.

NOTE: Previously built 48F cylinders are similar in design, but do not have certified

volumes; refer to table 3 for fill limits and other data applicable to this

cylinder.

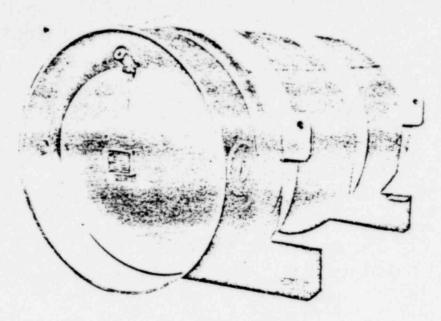


US UF CYLIN A MODEL 48Y

51

## UF CYLINDER MODEL 48X

# POOR ORIGINAL



#### GENERAL DATA

Other Descriptive Terminology Used - 10-ton

#### ENGINEERING DRAWING REFERENCE

Nominal Diameter

Nominal Length

Wall Thickness

Nominal Tare Weight

Maximum Net Weight

Nominal Gross Weight

Minimum Volume

Basic Material of Construction

Service Pressure

Hydrostatic Test Pressure

Isotopic Content Limit

UNION CARBIDE CORPORATION PGDP: E-S-12292-B

48 in.

121 in.

5/8 in.

4,500 lb (2,041 kg)

21,030 lb (9,539 kg)

25,530 lb (11,580 kg)

108.9 ft3 (3.084 m3)

Steel

200 psig

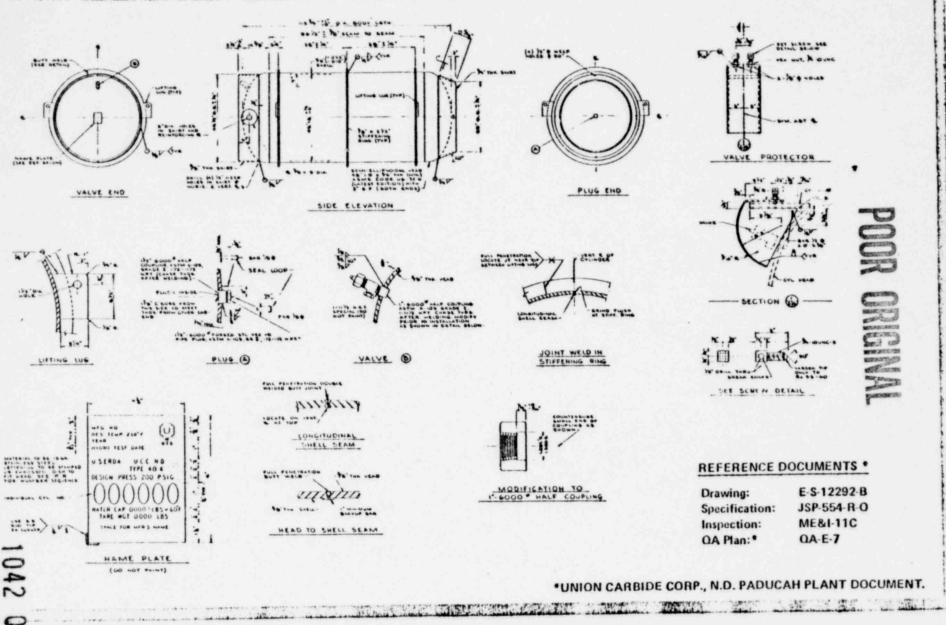
400 psig

4.5% U-235 max with moderation control

Valve Used - 1-in Valve.

NOTE: Previously built 48A cylinders are similar in design, but do not have certified volumes; refer to Table 3 for fill limits and other data applicable to this cylinder.





W 45

LINDER MODEL 48X

## POOR ORIGINAL

#### SPECIFICATION OF DRUMS FOR UPANIUM ORE CONCENTRATE

The drums for uranium ore concentrate shall conform to the following specification:

Height including lid and lug on : approximately 90

the clamping ring

centimetres

Height excluding lid

: approximately 88

centimetres

Outside diameter (without lid) : approximately 60

centimetres

Volume

: approximately 215

litres

Gauge of Steel

: minimum 1.2

millimetres

Each drum shall have a fully-opening head with a rubber sealing ring and a closure assembly of a type approved by BNFL.

The lot number and the drum identification number shall be marked in letters and figures not less than four centimetres high on the lid and between the top chime and top rim of each drum. The name of the Customer shall be so marked on the lid.