

PDR - DO  
NOT RETURN

70-2955

Edlow International Company  
4100 17th Street, N.W. Suite 404  
Washington, D.C. 20036 U.S.A.  
202-833-237  
WU1 64387, RCA 248540

June 21, 1982

Mr. Barry L. Serini  
Uranium Process Licensing Section  
Uranium Fuel Licensing Branch  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Reference: Docket No. 70-2955

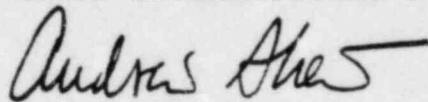
Dear Mr. Serini:

Enclosed are responses to the 15 questions requiring further information from your letter of May 20, 1982.

If you need any further information, please let us know.

Thank you for your prompt assistance in this matter.

Sincerely,  
EDLOW INTERNATIONAL COMPANY



Andrew Shaw  
Manager, Regulatory Approvals

cmf

Enclosures



8210210539 820621  
PDR ADOCK 07002955  
C PDR

21167

6/21/82

Additional information requested  
per NRC letter on docket no. 70-2955

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1. We have decided upon indoor storage only of enriched material and thus wish to drop our option of outdoor storage from the application. Attached please find an aerial photograph of the site.

Further to our description of the site from our application: the site is bounded on the east by a wooded area, on the north by Interstate Highway No. 64 which is more than 300 feet from the boundary fence, on the west by several small houses, none closer than 220 feet from the warehouse proper, and on the south by St. Clair Avenue. The warehouse is 360 feet from St. Clair Avenue. There is a small tire shop on our property, outside the perimeter fence, along St. Clair Avenue.

2. Attached is an aerial photograph of the site.
3. The cylinders will be kept stationary on the railroad ties by using chocks on both sides that will be nailed to the ties.
4. As mentioned in point 1 above, storage will only be indoor, inside the warehouse on the property. The floor of this warehouse is concrete and the cylinders will be resting on railroad ties.
5. Concerning the possibility of flooding in the storage area, please find attached a letter with enclosure from the U.S. Corps of Engineers dated 13 January 1982. Based on this letter and attached map, and the fact that the warehouse floor is elevated approximately four feet above street level, the storage area will not be subject to flooding.
6. Cylinders will be stored inside the masonry warehouse building, not on an outside pad, so there would be no effect on the storage array from a tornado striking the pad and no tornado missile would impact cylinders.
7. There are no flammable liquids on or off the site that could inadvertently flow onto storage areas, and on-site personnel have instructions not to store any flammable materials within 300 feet of where uranium is stored.
8. No combustible materials will be stored inside the warehouse when enriched uranium is in storage. On-site personnel perform a daily inspection of the storage areas and any litter will be removed.
9. As we are now dealing with only indoor storage, the only vehicles to be used in the storage area will be forklift trucks. These will only be operated at low speeds and could not seriously damage a cylinder accidentally.

EDLOW INTERNATIONAL COMPANY  
SUITE 404 1100 17TH ST., N.W.  
WASHINGTON, D.C. 20036

Additional information requested  
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10. The distance between cylinders should read 18 inches on both page 6 and 21.
11. There will be a minimum of two people involved in the movement of cylinders, a driver for the forklift truck and a second person responsible for aiding in cylinder positioning and for assuring the engagement and disengagement of the special lift bar used in moving the cylinders. The second person will also assure that the cylinders are properly chocked when going into storage and that they are properly placed in the protective shipping packages if being shipped. Forklift trucks will be operated at a low speed.

An outline of our handling procedures for enriched material cylinders is attached.

12. We do not plan to store 48 inch cylinders at this time, and therefore withdraw this request from our application.
13. Warehouse personnel have been trained to respond to potential emergencies. They are familiar with the hazards involved with storage of uranium hexafluoride through our training program "Basics of Radiation". Our on-site personnel are authorized to respond to immediate emergencies. The indication that Edlow personnel would go to the site in the case of an emergency involves basically those cases where initial response has been handled as required and there exists an on-going problem. We have been in contact with the local authorities concerning our storage of natural uranium hexafluoride on the site, so they are aware of the hazards involved. Prior to storage of enriched uranium on the site, we will renew our contacts with local authorities and review the situation with them.

Our emergency procedures include the possibility of requesting assistance from the State of Illinois' Division of Emergency Preparedness, if the situation warrants, who are ready to respond to radiological emergencies. They have contact with hospitals in both Illinois and St. Louis, Missouri, which are prepared to handle radiation exposure resulting from any accidents. The Illinois Department of Nuclear Safety has visited our site.

The warehouse is equipped with an automatic sprinkler system, which, if a fire were to occur, would automatically be activated. The warehouse (including the sprinkler system) is monitored by an offsite alarm company that would immediately notify the fire department by phone if the system were activated. If there were a fire during non-business hours, the fire department can gain immediate access to the area.

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14. Please add the underlined information to complete the phrase:  
"low enrichment uranium hexafluoride cylinders have radiation  
readings of less than 1.0 millirem/hr. at 1 meter from the  
cylinder surface".
15. Shipments will only be in model 30A or 30B cylinders. Full  
cylinders are placed in DOT Spec. 21-PF-1 protective shipping  
overpacks for shipping. Overpacks are bolted to transport  
vehicle floor in accordance with DOE requirements.

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SUITE 404 1100 17TH ST., N.W.  
WASHINGTON, D.C. 20036

## Procedures for Handling Enriched UF6 30 Inch Cylinders

All movements of cylinders will involve a minimum of 2 people, the forklift truck driver, and a second person on foot.

1. Forklift truck operator approaches cylinder
2. Second person checks the identification number of the cylinder
3. Operator places lift over cylinder
4. Second person assures engagement of lift bar on cylinder
5. Operator lifts cylinder, and at a slow speed, assuring that the cylinder does not pass over another cylinder, moves the cylinder to desired position
6. Second person aids in placement of the cylinder and then assures that the lift bar is disengaged
7. Forklift truck moves away from cylinder.

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REPLY TO  
ATTENTION OF

LMSD-M

DEPARTMENT OF THE ARMY  
ST. LOUIS DISTRICT, CORPS OF ENGINEERS  
210 TUCKER BOULEVARD, NORTH  
ST. LOUIS, MISSOURI 63101

13 January 1982

Mr. Andrew Shaw  
Edlow International Co.  
1100 17th Street NW  
Washington, D.C. 20036

Dear Mr. Shaw:

The following information is furnished as requested in your telephone call of 12 January 1982 to this office. A flood hazard evaluation was made for the property located at 3131 St. Clair Avenue, East St. Louis, Illinois.

This site is not within a flood hazard and so indicated on the Federal Insurance Administration's map for the city of East St. Louis, Illinois (Incl 1).

East St. Louis is protected from Mississippi River flooding by a Corps of Engineers concrete floodwall and levee system.

Sincerely,

*William E. Remmert*

WILLIAM E. REMMERT  
Flood Plain Management Services

1 Incl  
As stated

EDLOW INTERNATIONAL COMPANY  
SUITE 404 1100 17TH ST., N.W.  
WASHINGTON, D.C. 20036

*RESPONSE I*

NATIONAL FLOOD INSURANCE PROGRAM

# FIRM

FLOOD INSURANCE RATE MAP

CITY OF  
EAST ST. LOUIS,  
ILLINOIS  
ST. CLAIR COUNTY

# MAP INDEX

PANELS PRINTED: 5, 10

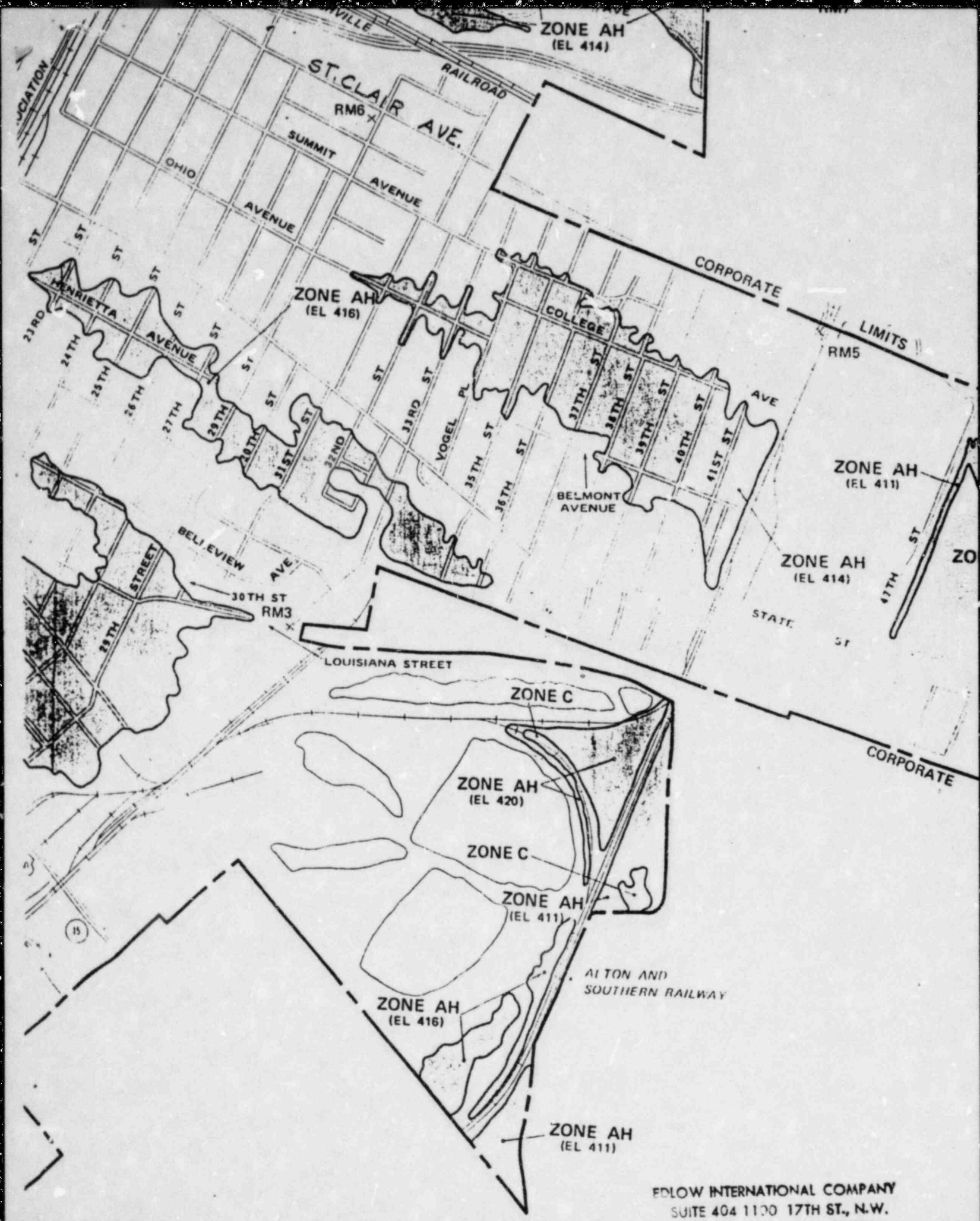
COMMUNITY-PANEL NUMBERS  
170626 0001-0010

EFFECTIVE DATE:  
NOVEMBER 1, 1979



U.S. DEPARTMENT OF HOUSING  
AND URBAN DEVELOPMENT  
FEDERAL INSURANCE ADMINISTRATION

EAST ST. LOUIS FIRM



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 SUITE 404 1100 17TH ST., N.W.  
 WASHINGTON, D.C. 20036