

Edlow International Company  
1815 H Street, N.W. Suite 900  
Washington, D.C. 20006 U.S.A.  
(202) 551-8131  
A-115135

August 23, 1985

Mr. Darl Wiedeman  
Chief Nuclear Materials Safety Section  
U.S. Nuclear Regulatory Commission  
Region III  
754 Roosevelt Road  
Glen Ellyn, Illinois 60137

Dear Mr. Wiedeman:

Re: NRC License SMC - 1377 --  
Edlow International Company Radiation Survey Report

In accordance with 10 CFR 40.42 and the instructions provided in NRC's May 24, 1985 letter to Edlow International Company (Edlow), I am pleased to provide the following information related to the closure August 31, 1985 of the Edlow Natural Uranium Storage Facility located at 3131 St. Clair Avenue in East St. Louis, Illinois. In addition, please find the required completed NRC Form 314.

- (1) Edlow shipped the last uranium ( $U_3O_8$ ) from the Storage Facility August 19, 1985.
- (2) Following the final shipment of uranium from the site, a detailed radiometric survey was conducted over a two-day period to detect the presence of any uranium contamination.
- (3) Survey results indicated the presence of no detectable radioactive contamination at the site, so decontamination activities were not necessary.
- (4) Survey specifications:

(a) The radiometric survey utilized an Eberline E-120 geiger counter with an RP120 probe -- the same instrument/probe combination used for the routine radiation monitoring required by Edlow's NRC site license. This instrument was recently tested and recalibrated by Eberline for the final site survey (see attached Certification of Calibration). For all radiometric surveys conducted, the geiger counter probe was carried at 6-8" from the ground, the scale was set on 0.1X and "Response" was set on the sensitive end of the scale, so that needle response would be quick.

(b) The following surveys were conducted:

- (1) The northeast and southwest internal fenced storage compounds -- the areas where all  $UF_6$  and  $U_3O_8$  have been stored since the December 1983 fire -- were surveyed on lines spaced 2 1/2 feet apart.

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- (ii) The outside perimeters (1 foot from fence) of the two internal storage compounds were surveyed.
- (iii) The outside perimeter (3 feet from fence) of the entire fenced storage site was surveyed.
- (iv) Drive-ways and other areas used to transport or handle containers holding natural uranium were surveyed.
- (v) Areas used for in-building storage (prior to the December 1983 fire) were surveyed.

In summary: all areas where uranium containers had been stored, handled or transported were tested; special emphasis was placed on the 2 outside compounds in which all natural uranium was stored during the past 20 months of site operation.

2D) Results of Surveys

- (a) No survey readings - not even momentary spikes - exceeded 0.1 mR/hr.
- (b) All reproducible and sustainable survey readings were less than 0.05 mR/hr -- such readings are similar to background readings in the general area of the warehouse. For comparison, under Edlow's license readings of less than 1.5 mR/hr were required at the site boundary fence.

Edlow plans to vacate the storage facility site -- i.e. return it to its owner -- 12:00 AM September 1, 1985. Edlow therefore gratefully acknowledges the cooperative efforts of NRC Region III to complete its confirmation survey work by that time. In this regard, it is my present understanding that Mr. Donald Gibbons of Region III will arrive for an inspection of Edlow's site at 8:00 AM, Thursday August 29, 1985. Please provide us with any instructions or additional compliance items which I need to know regarding the completion of Edlow's closure of its Facility.

If you have any questions regarding this report or require additional information on Edlow's closure of its East St. Louis Storage Facility, please do not hesitate to call me at (202) 833-8237.

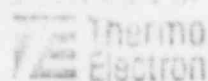
Best regards,



Robert A. Rich  
Executive Vice President

cc: Division of Fuel Cycle and Material Safety  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Eberline



CERTIFICATION OF CALIBRATION

Model: C-100/AP-70

Serial: T702/601391

Test: 1.0000 MPa 1.00 410

0.100 MPa 1.23

0.100 MPa 1.23

Rate	Calibration Point	Reading
1.00 MPa	1.00 MPa	40 MPa/hr
1.00 MPa	1.00 MPa	4 MPa/hr
1.00 MPa	1.00 MPa	11 MPa/hr
1.00 MPa	1.00 MPa	11 MPa/hr
1.00 MPa	1.00 MPa	3.5 MPa/hr
1.00 MPa	1.00 MPa	35 MPa/hr
1.00 MPa	1.00 MPa	08 MPa/hr

Certification of calibration traceable to the National Bureau of Standards.

Date: 10/1/70

Signature:

*Arshan Khatia*



No. 25969 B