AUD 25 1983

yer, RIV Francis J. Bradley, Ph.D. Principal Radiophysicist Radiological Health Unit New York State Department of Labor 2 World Trade Center New York, New York 10047

Dear Dr. Bradley:

We have received and reviewed a preliminary copy of the report of Texas' investigation of the shipment of Americium-241 and associated equipment by EAD to Texas. The information in the report raises a number of questions relating to EAD's activities in New York, their status in Texas, and their plans for shipping the material to Mexico.

As Joel Lubenau discussed with you, we believe it will be beneficial to have a meeting of representatives of the New York and Texas radiation control programs and NRC staff, including a representative of our International Programs office to exchange information on this matter. I have enclosed a list of issues which we believe should be addressed at the meeting (Enclosure 1). Since export of licensed material is regulated by the NRC, our Office of International Programs plans to ensure that the Mexican government is informed of the regulatory safety problems that have been found with this shipment and therefore also plan to attend the meeting.

We have scheduled the moeting for 9:30 a.m., September 13, 1983 in Conference Room 5035, Ai: Rights Building III, Bethesda, Md. Directions are enclosed (Enclosure 2). We will be pleased to pay your travel and per diem costs. Please contact our contractor, Dimensions Travel (301-986-8949) to make your flight reservations. For travel information other than flight reservations please contact Ms. Carolyn Duggans (Tolephone 301-492-9870).

Sincerely,

Donald A. Nussbaumer Assistant Director for State Agreements Program Office of State Programs

Enclosures: As stated

cc: J. Dunkleberger, NY State Energy Office, w/encl. R. Satliff, TX, w/encl.

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8908090117 890713 FDR DRG NGPZ FDC Issues Raised by the Texas Report on EAD (Ref. Meyer, Tx report dtd 7/22.83)

- o Was the decon and decomm procedure (attach. R) submitted to and approved by NYDL?
- The occupational MPCair for insoluble ²⁴¹Am is 1x10⁻¹⁰ uCi/ml. Assuming a resuspension factor of 10⁻⁶ cm² removable surface contamination in excess of 22,000 dpm/100cm² could lead to airborne radioactivity greater than the MPC. Levels up to 5x10⁶ dpm/100cm² were found by Texas. This raises questions about the adequacy of EAD's program for controlling and evaluating exposures to airborne radioactivity, e.g.

*In the decon and decomm procedure, full face respiratory protection must be worn for handling the plating bath and the waste water system. Did NYDL approve a respiratory protection program for EAD?

*In the decon and decomm procedure, a continuous air monitoring system was to be maintained during deconning, consisting of 4 alpha air monitors and 6 breathing zone samples. Results were to be recorded in the "Air Monitoring Log." Has NYDL inspected these records? *What biossays were performed of personnel involved in the decon and decomm? (The decon and decomm procedure references records of urine samples and lung counts).

According to the decon and decomm procedure, all radioactive materials were packaged in accordance with DOT 49 CFR, yet the inspections and surveys by Texas and DOT disclosed numerous violations, including improper packaging, improper labelling and excessive contamination. Had NYDL reviewed and approved any EAD procedures for packaging and transporting radioactive materials?

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- a AD's decon and decomm procedure called for decontamination to specific limits. The RSO's surveys of the equipment shipped to Texas show removable contamination to be less than 100 dpm/100cm². Texas' surveys showed levels up to 5x10⁶ dpm/100cm² and numerous instances where surveys of the same item differed by two, three and four orders of magnitude (Enclosure). In addition, in one case, the gamma radiation level was reported as "O" but a Texas inspector found 2-3 mR/hr (natural gas generator, see attachments C&S). What steps has NYDL taken to ascertain the causes of these discrepancies?
 - o Decon and decomm records, according to the procedure are to be stored at a location in Buffalo, NY. Has NYDL examined these records?

- EAD's license also authorized the possession of Cm, Pu and Gd. Were any of these materials possessed by EAD? If so, how were they disposed of?
- What was EAD's compliance history? (Dates of inspections, findings, adequacy of responses, repeats, orders?)

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- Attachment S (Haygood's 6/28/83 letter) reports that Bradley informed Texas that the RSD was told by "upper management" at EAD not to placard the trailers. This suggests that NYDL has information indicative of a willful violation of DOT requirements [which are referenced in Code 38 (38.39)] and thus opening a possibility for a criminal penalty. What action was NYDL taken on this matter?
- Code 38.29, "Vacating Premises" requires licensees to decon to Table 5 levels; supply copies of the final survey to NYDL and to the landlord, owner or successor occupant; and cannot vacate, sell or transfer the premises until the survey has been verified and accepted by NYDL. What is the status of EAD's compliance with 38.29?
- What is the condition of the drain lines from the plant? Have they been surveyed for radioactivity?
- Has NYDL inspected and surveyed the vacated EAD premises? If so, what were the results?

- Were soil samples taken and surveys of the environs made at the cal facility?
- o Is there a possibility that excess equipment from EAD has been recycled into the private sector? Is it possible that "midnight requisitions" have been made? Has NYDL examined these possibilities?
- o Has NYDL coordinated with NYDEC (which has issued a permit to EAD) and with NYDH (which investigated a complaint of unlawful burial at EAD)?

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Comparison of EAD and Texas Survey Results

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| m | EAD Decon Requirement | EAD Survey Result 2 Removable dpm/100cm ² | Tx Survey Result Removable dpm 100/cm ² |
|---------------|---|---|---|
| ove Boxes | Decon externally below spec limit* | 30;24 | 1060; 2460; 5390 |
| ears | Decon to lowest possible level | 18 | 4280 |
| ste Water | Decon internally an externally below spec limit | d 30;21 | 2890; 6210; System 63,700; 96,100; 377;000; 384,000; 5,280,000 |
| cuum eaner | Decon externally below specific lim | 27 its_ | 7790; 80,800 |

""Spec limits" are not specifically defined in the procedure but reference is many WYDL Code 38, Table 5 which provides limits for removable alpha: 33 average and "aximum dpm/100cm" DOT limits are 2200 dpm/100cm" or 22,000 dpm/100 cm" if the "naximum dpm/100cm" OT limits are 2200 dpm/100cm" or 22,000 dpm/100 cm" if the "in pment is exclusive use vehicle. As a comparison, NRC guidance for decontamin "s 20 dpm/100 cm" ("Guidelines for Decontamination of Facilities and Equipment "Release for Unrestricted Use or Termination Licenses. . ." December, 1975). July 13, 1989

The Honorable John J. LaFalce Room 1304 Federal Building 111 West Huron Street Buffalo, New York 14202

Dear Congressman LaFalce:

This is in response to your letter dated June 22, 1989, regarding the EAD Metallurgical Inc. facility located in Tonawanda, New York. I would like to note that New York is an Agreement State having entered into an agreement in 1964 with the Nuclear Regulatory Commission (NRC) pursuant to the Atomic Energy Act of 1954, as amended. Under the agreement the State has the authority to regulate certain radioactive materials within its State boundary. Therefore, the State of New York has the regulatory jurisdiction over the EAD Metallurgica? Inc. facility. The New York State licensing contact person is:

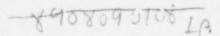
> Dr. F. J. Bradley Principal Radiophysicist Radiological Health Unit Division of Safety & Health State Department of Labor One Main Street, Room 813 Brooklyn, New York 11201 (718) 797-7641

Enclosed are the reports and correspondence that the NRC has issued relating to the EAD Metallurgical Inc. license termination and subsequent facility decontamination. That information is a result of periodic review of actions taken by New York and their technical assistance requests to us. An index of the enclosures is also provided. We hope this information will be of assistance to your constituent; however, if you have further questions, please do not hesitate to contact me.

Sincerely, Signed

Dennis K. Rathbun, Director Congressional Affairs Office of Governmental and Public Affairs

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Enclosures: As stated

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