



40-00341
STC-133

*****Facsimile Transmittal*****
October 4, 2007

Message For: **Gene Bonano**
Of: **Region 3**
Fax #: **(630) 515-1259**
Voice #: **() -**

Number of Pages (including this cover sheet): **27 (I think)**

From: **Betsy Ullrich**
Division of Nuclear Materials Safety
United States Nuclear Regulatory Commission
Region I
475 Allendale Road
King of Prussia, PA 19406

Voice #: **(610) 337-5040**
Fax #s: **(610) 337-5269 or (610) 337-5393**
Internet Address: **EXU@NRC.GOV**

Message: Gene - this is all I have found on Hammond/Warehouse 2 to date. There is later inspections of the warehouses after re-packaging of the ThNitrate but it was after Warehouse 2 was sold.

138087

NOV 21 1977

✓ Docket No. 40-341

General Services Administration
ATTN: Mr. W. Mosrie
Acting Director
Federal Supply Service
Property Management Division 3FJ
7th and D Streets
Washington, D. C. 20407

Gentlemen:

Subject: Inspection 40-341/77-02

This refers to the inspection conducted by Mr. F. Costello of this office on October 19, 1977, of activities authorized by License STC-133, at your Curtis Bay, Maryland Facility, and to the discussions of our findings held by Mr. Costello with Mr. J. Sommella and Ms. E. Decker of your staff at the conclusion of the inspection. This also refers to the inspection conducted by Mr. S. Lasuk and Mr. D. Sreniawski of our Region III office on September 22, 1977 of activities authorized by License STC-133, at your Hammond, Indiana Facility, and to the discussions of our findings held by Mr. S. Lasuk with Mr. R. Gedling of your staff at the conclusion of the inspection.

The inspection at your Curtis Bay, Maryland facility was limited to an examination of the decontamination of the thorium storage facilities. The inspection at your Hammond, Indiana facility was an examination of activities conducted under your license as they relate to radiation safety and to compliance with the Commission's rules and regulations and the conditions of your license. The inspections consisted of selective examinations of procedures and representative records, interviews with personnel, and observations by the inspectors.

Within the scope of this inspection, no items of noncompliance were observed.

From discussions at the conclusion of the inspection at Curtis Bay, Maryland, it is our understanding that you intend to establish an audit system to ensure compliance with NRC regulations and the conditions of your license of all of your facilities. In your reply to this letter, please confirm this understanding and describe those actions taken or planned to improve the effectiveness of your radiation safety program.

OFFICE ▶	MRPS: FEMS	MRPS: FEMS				
SURNAME ▶	<i>Costello</i> Costello/sl	<i>McClintock</i> McClintock				
DATE ▶	11/18/77	11/18/77				

Designated "Official Record Copy"

Date JAN 07 1993

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IE:07

NOV 21 1975

In accordance with Section 2.790 of the NRC's "Rules of Practice," Part 2, Title 10, Code of Federal Regulations, a copy of this letter and your reply will be placed in the Public Document Room.

Should you have any questions concerning this inspection, we will be pleased to discuss them with you.

Sincerely,

Robert O. McClintock, Chief
Materials Radiological Protection
Section

bcc:
IE Mail & Files (For Appropriate Distribution)
Central Files
Public Document Room (PDR)
Local Public Document Room (LPDR)
Nuclear Safety Information Center (NSIC)
REG:I Reading Room
State of Maryland

OFFICE▶						
SURNAME▶						
DATE▶						



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION III
799 ROOSEVELT ROAD
GLEN ELLYN, ILLINOIS 60137

October 5, 1977

MEMORANDUM FOR: Paul R. Nelson, Chief, Fuel Facility and Materials
Safety Branch, RI

FROM: W. L. Fisher, Acting Chief, Fuel Facility and
Materials Safety Branch, RIII

SUBJECT: GENERAL SERVICES ADMINISTRATION, WASHINGTON, D.C.
LICENSE NO. STC-133
ASSIST INSPECTION

Enclosed are the 766 Form and inspection report related to our assist inspection of the subject licensee's activities at their GSA-FSS Depot in Hammond, Indiana on September 22, 1977.

For details or questions, please contact Stan Lasuk or Don Sreniawski.

A handwritten signature in cursive script that reads "W. L. Fisher".

W. L. Fisher, Acting Chief
Fuel Facility and Materials
Safety Branch

Enclosures: As stated

INSPECTION & ENFORCEMENT - STATISTICAL DATA

FACILITY NAME <u>Gen'l Services Admin.</u>		INSPECTOR(S) <u>Sranisawski</u>		PRINCIPAL INSPECTOR <u>Lasnik</u>	
LICENSEE/VENDOR <u>Hammond, Ind.</u>				REVIEWER <u>Pagliaro</u>	
A E	TRANS-ACTION TYPE 1 (CHECK ONE) <input type="checkbox"/> Delete <input checked="" type="checkbox"/> Insert <input type="checkbox"/> Modify	DOCKET NUMBER (A) 2 9 OR LICENSE NO. (BY PRODUCT) 2 15 <u>STC-133</u>	REPORT NO. (B) 16 19 <u>7701</u>	DATES INQ/INVEST/INSP FROM TO (C) 20 25 09 22 77 M M D D Y Y 26 31 09 22 77 M M D D Y Y	REGION CONDUCTING ACTIVITY (E) 32 <u>3</u>
	TYPE OF ACTIVITY CONDUCTED (CHECK ONE BOX ONLY) 33-34				
F	INSPECTION			OTHER	
	01 <input type="checkbox"/> ROUTINE (FEE) 02 <input checked="" type="checkbox"/> ROUTINE (NO FEE) 03 <input type="checkbox"/> INCIDENT 04 <input type="checkbox"/> ENFORCEMENT	05 <input type="checkbox"/> MANAGEMENT AUDIT 06 <input type="checkbox"/> MANAGEMENT VISIT 07 <input type="checkbox"/> SPECIAL 08 <input type="checkbox"/> VENDOR	09 <input type="checkbox"/> MATL ACCT. 10 <input type="checkbox"/> PLANT SEC. 11 <input type="checkbox"/> INVENT. VERIF. 12 <input type="checkbox"/> SHIPMENT/EXPORT	13 <input type="checkbox"/> IMPORT	14 <input type="checkbox"/> INQUIRY 15 <input type="checkbox"/> INVESTIGATION (IF INVEST. ALSO CHECK BLOCK 0)
G	INSPECTION OR INVESTIGATION: <input checked="" type="checkbox"/> ANNOUNCED <input type="checkbox"/> UNANNOUNCED				
H	INSPECTION/INVESTIGATION NOTIFICATION (CHECK ONE BOX ONLY) 36				
	1 <input type="checkbox"/> 591 2 <input type="checkbox"/> REGIONAL OFFICE LETTER 3 <input type="checkbox"/> REFERRED TO HQS FOR ACTION 4 <input type="checkbox"/> REGION LETTER & HQS FOR ACTION				
I	INSPECTION/INVESTIGATION FINDINGS (CHECK ONE BOX ONLY) 37				
	1 <input type="checkbox"/> CLEAR 2 <input type="checkbox"/> NONCOMPLIANCE 3 <input type="checkbox"/> DEVIATION 4 <input type="checkbox"/> NONCOMPLIANCE & DEVIATION				
J	NUMBER OF NONCOMPLIANCE ITEMS IN LETTER TO LICENSEE:		38 39 <u> </u> <u> </u>	NOTE: CHANGE MUST BE SUBMITTED ON 766 WHENEVER PREVIOUSLY CITED ITEM OF NONCOMPLIANCE IS OFFICIALLY DELETED FROM THE RECORD.	
K	NUMBER OF DEVIATION ITEMS IN LETTER TO LICENSEE:		40 41 <u> </u> <u> </u>		
L	NUMBER OF NONCOMPLIANCE ITEMS IDENTIFIED BY LICENSEE (AND NOT CITED):		42 43 <u> </u> <u> </u>		
M	NUMBER OF ABNORMAL OCCURRENCES REVIEWED ONSITE THIS INSPECTION <u> </u> <u> </u> 44 45				
N	REGIONAL OFFICE LETTER OR REPORT TRANSMITTAL DATE FOR INSPECTION OR INVESTIGATION				
	591 OR LETTER ISSUED TO LICENSEE 46 51 <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> M M D D Y Y		REPORT SENT TO HQS FOR ACTION 52 57 <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> M M D D Y Y		
O	SUBJECT OF INVESTIGATION (CHECK ONE BOX ONLY) 58 59				
	TYPE A 10 CFR 20.403	TYPE B 10 CFR 20.405	MISC		
	01 <input type="checkbox"/> INTERNAL OVEREXPOSURE 02 <input type="checkbox"/> EXTERNAL OVEREXPOSURE 03 <input type="checkbox"/> RELEASE TO UNREST. AREA 04 <input type="checkbox"/> LOSS OF FACILITY 05 <input type="checkbox"/> PROPERTY DAMAGE	06 <input type="checkbox"/> 07 <input type="checkbox"/> 08 <input type="checkbox"/> 09 <input type="checkbox"/> 10 <input type="checkbox"/>	11 <input type="checkbox"/> INT. OVEREXPOSURE 12 <input type="checkbox"/> EXT. OVEREXPOSURE 13 <input type="checkbox"/> EXCESS RAD. LEVELS 14 <input type="checkbox"/> EXCESS CONC. LEVELS	15 <input type="checkbox"/> CRITICALITY 16 <input type="checkbox"/> LOSS/THEFT 17 <input type="checkbox"/> MUF. 18 <input type="checkbox"/> TRANSPORTATION 19 <input type="checkbox"/> CONTAM/LEAKING SOURCE 20 <input type="checkbox"/> ENVIRONMENTAL EVENT	21 <input type="checkbox"/> EQUIP. FAILURE 22 <input type="checkbox"/> ALLEGATION/COMPLAINT 23 <input type="checkbox"/> PUBLIC INTEREST 24 <input type="checkbox"/> SABOTAGE 25 <input type="checkbox"/> ABNORMAL OCCUR. 26 <input type="checkbox"/> OTHER
P	HEADQUARTERS ENTRIES HQS ACTION ON INSP/INVEST REFERRED BY REGION (See Reference List for Code)		60 61 <u> </u> <u> </u>	NOTE: BLOCKS I TO L MUST BE VERIFIED BY IE HQS WHENEVER ENTRIES ARE MADE IN BLOCKS P, Q, AND R	
Q	DATE HQS ENFORCEMENT LETTER, NOTICE, ORDER ISSUED:		62 67 <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> M M D D Y Y		
R	CIVIL PENALTY ISSUED: <input type="checkbox"/>		68		
S	DATE 766 ENTERED INTO COMPUTER FILE (MO/YR):		69 72 <u> </u> <u> </u> <u> </u> <u> </u> M M Y Y		
					AITS REFERENCE

RTH REPORT/LETTER TRAVELER

Licensee & Location: General Services Administration - Washington, D.C.

Facility(s): Hammond, Ind. GSA-FSS Depot Rpt. No(s): 7701

License No(s): STC-133 Docket No(s): _____

Date(s) of Inspection: 9/22/77

Current Category: E(2) *Priority: VI *Change to Category: _____ *Priority: _____

Next Scheduled Inspection Date: This is assist inspection for Region I

LETTER AND REPORT

	<u>Date Accomplished</u>	<u>By</u>
Submitted for Drafting.....	_____	_____
Drafting Completed.....	_____	_____
Submitted for Review.....	<u>10/16/77</u>	<u>SRZ</u>
Reviewed.....	_____	_____
Submitted for Final Typing.....	<u>10/5/77</u>	<u>SRZ</u>
Final Typing Completed.....	_____	_____
Dispatched to Licensee.....	_____	_____
Dispatched to HQ.....	_____	_____
Reply Due: _____ Received: _____	_____	_____

Reply: Adequate or Inadequate (Circle One)

Inspector: _____ (initials) _____ (Date)

Senior Staff: _____ (initials) _____ (Date)

Acknowledgement Letter Dispatched..... _____

Inspection Package to Local PDR, etc. _____

DATE DUE FOR FINAL TYPING: _____

REASON FOR NOT MEETING DUE DATE: _____



UNITED STATES
 NUCLEAR REGULATORY COMMISSION
 REGION III
 799 ROOSEVELT ROAD
 GLEN ELLYN, ILLINOIS 60137

INSPECTION REPORT NO. 7701
General Services Administration
 (Licensee name/address)
Room 907, Crystal Mall, Bldg No. 2
Washington, DC. 20406
 Telephone No: _____

Attached

- () Appendix A
- () Appendix B
- () Appendix C
- () Memo

License No. STC-133 Last amendment & date: #3, 4/28/76

Docket No. _____
 Category: E(2) & Priority: VI, as of last amendment.

Inspection date(s): 9/22/77 Type of inspection: Announced
 (HAMMON, IND. DEPOT)

SUMMARY OF FINDINGS AND ACTION

- () No noncompliance, clear 591
- () Noncompliance, 591 issued
- () Noncompliance, Appendix A
- () Regional action () Hq action
- () Action on previous n/c, App B
- () Supplemental info, App C

RECOMMENDATIONS

See basis in Appendix C or attached memo.

- () Change Category to: _____
- () Change Priority to: _____
- () Next inspection date: _____

PERSONS CONTACTED
 (NAME AND TITLE)

- * Mr. Ralph Gedling - Depot Manager
- * Mr. Harry Szczepanski - Depot Inspector & Radiological Officer

* Indicates those attending management meetings

Inspector: S. R. Lasuk 9/28/77
 (signature) (date signed)

Approved: _____
 (signature) (date signed)

PLANNING SHEET

Date: 9/22/77Licensee: GSALicense no: STC-133

Inspection Items	Scheduled for Inspection	Post-Inspection status	Module no.	766 Time Info
Management meeting - Entrance and Exit Interviews [REQUIRED]	✓	Comp	30703B	
Initial Management Meeting			30800B	
Program requirements, MC 28 [REQUIRED]	✓	Comp	77710B	
Licensee Event Followup			92700B	
Followup on Inspector-identified problems			92701B	
Followup on Noncompliance and Deviations			92702B	
IE Bulletin/Immediate Action Letter Followup			92703B	
Followup on Headquarters Requests			92704B	
Followup on Regional Requests			92705B	
Independent Inspection Effort [REQUIRED]	✓	Comp	92706B	
Inspector Dispatched to Site			93700B	
Followup on Significant Event Occurring During Inspection			93701B	

INDUSTRIAL - ACADEMIC INSPECTION REPORT

Licensee: General Services Administration Lic. No. STC-133 Amendment No. 3

Date of Inspection: 9/22/77

1. INSPECTION HISTORY

a. Items of noncompliance or safety items noted during last inspection
conducted on _____ Yes _____ No _____

b. Requirement	Corrected	Not Corrected

c. If any items of noncompliance or safety items noted during the last inspection were not corrected, explain: _____

2. ORGANIZATION

a. Organizational structure as described in application or letter
Dated _____, Or See Comment

b. List primary licensee contact: Harry Szczebanki Telephone No.: 932-5500 ⁽²¹⁹⁾

c. Comment: Mr. Ralph Gedling - Hammond, Ind Depot Manager.
Mr. Harry Szczebanki - Depot Inspector & Radiological Officer.
messrs J. M. Ford - Foreman and C. Jones & J. Signorelli - Warehousemen.

Mr. Szczebanki's immediate supervisor is Mr. John Trunda,
Chief, Inspection Branch located at 230 S. Dearborn St in
Chicago, Ill.

3. SUMMARY OF LICENSED PROGRAM (Kind of program, number of people, rate of use or quantities on hand, places and frequency of use, type, quantity and use as authorized). *This inspection was conducted at the GSA-FSS Hammond, Indiana Depot where GSA stores and occasionally sells licensed material. Their present inventory includes 5,898 drums (20 gal. capacity) of Monazite Sand and 2,444 drums (55-gal. capacity) of Thorium Nitrate. Licensee's records show that the average composition of this material is as follows:*
Monazite Sand: ReO-52.03%, ThO₂ - 3.2%, H₂O - 0.03%, remainder is sand.
Thorium Nitrate: ReO-less than 0.002%, P₂O₅ < 0.004%, Cl < 0.0008%, SO₃ < 0.02%, thorium oxide - 46.34%, remainder is nitrate salts.

Category and priority of this license is appropriate: Yes _____ No _____

If "No" state new Category _____ Priority _____.

4. INTERNAL AUDITS OR INSPECTIONS

a. Required by L/C or application: Yes _____ No _____ If "Yes":

1) By whom _____

2) Frequency _____ Announced: _____ Unannounced: _____

3) Scope *Mr. Szycepanski inspects ~~the~~ storage site containing radiological materials, ^{at least} semi-annually and records his findings on GSA Form 226 "Notification of Stockpile Inspection".*

4) Records maintained: Yes No _____

5) Records reviewed: Yes No _____

6) Period Reviewed: *9/73 - 5/77*

b. Comment (responsibility of auditor or committee, management control): _____

5. TRAINING RETRAINING AND INSTRUCTION TO WORKERS

a. Training program specified in L/C or application: Yes _____ No _____

b. If training program is required, describe scope of program: _____

c. Retraining required: Yes _____ No _____

If "Yes" is retraining: Complete _____ Incomplete _____

1) Are tests and/or examinations required: Yes _____ No _____

2) If "Yes" are records available: Yes _____ No _____

3) Reviewed test results: Yes _____ No _____

4) Period reviewed: _____

5) Comment (per cent completed, test results, etc.): _____

d. Training provided, but not covered above: *Mr. Syczanski stated that he has provided refresher training here and at other depots during past two years.*

e. Instructions to workers in accord with 10CFR 19.12: Yes _____ No _____

6. RADIOLOGICAL PROTECTION PROCEDURES

a. Operating and emergency procedures (See Comments)

- 1) Required by L/C or application: Yes _____ No _____
- 2) Provided, but not required by L/C or application: Yes _____ No _____
- 3) Procedures reviewed: Yes _____ No _____
- 4) Appeared Adequate: Yes _____ No _____

5) Comments (personnel's understanding of procedures): A manual entitled "Radiological Instructions for Monitors", dated November, 1972, was prepared by Marshall Bradley (retired) and Mr. Szyzopanski and is used here and at other GSA-FSS depots by personnel involved in work with licensed material.

b. Changes in procedures since last inspection: Yes _____ No _____

1) Were changes authorized: Yes _____ No _____

2) Comments: _____

7. INSTRUMENTATION

a. Type(s) of radiation survey instruments on hand as per L/C, application or equivalent: Yes _____ No _____

1) ~~If "No" list changes:~~ This depot has > 20 GM survey meters, > 10 alpha survey meters, 15 pocket dosimeters, model CDV-138 (0-200 mR).

b. Capability of radiation survey instruments adequate for program:

Yes _____ No _____

c. Calibration of instruments required: Yes _____ No _____

d. If "Yes" instruments calibrated in accord with requirements:

Yes _____ No _____

e. Comment: Eberline PAC-ISA calibrated 1/77 and a E-510 Geiger Counter was calibrated 7/72 - otherwise, no record of calibrations.

8. MATERIALS

a. Radioactive material secured to prevent unauthorized removal from:

1) Restricted area: Yes No _____

2) Unrestricted area (20.207): Yes _____ No _____

b. Method of control appears adequate: Yes No _____

c. Comment: Entire depot is fenced in. One guard on duty each 8-hr shift. Guard does not leave entrance area on day shift; guards on the other two shifts make perimeter checks about every 2 hours - they also check doors to bldgs. Guards are able to get assistance from nearby security force.

9. FACILITIES

a. Facilities described in letter or application: Yes _____ No _____

b. Facilities inspected: Yes No _____

c. Comment: The licensed material is maintained in certain areas of Warehouse #200E; the perimeter of this warehouse is approximately one-half mile. Bastnasite (non-actue) in 55-gal drums serves as shielding (10 drums in a row) between the stored Thorium Nitrate & outside walls of the warehouse.

10. POSTING AND LABELING

a. Posting and labeling in accord with 10CFR 20.203: Yes No

b. Comment: _____

11. RECEIPT AND TRANSFER OF MATERIAL (See Comment)

a. Procedures for picking up and receiving packages (10CFR 20.205 (b)(c)):

Yes _____ No _____

1) Incoming shipments monitored: Yes _____ No _____

2) Records of monitoring maintained (10CFR 20.401(b)): Yes _____ No _____

3) Records reviewed by NRC inspector: Yes _____ No _____

4) Period reviewed: _____

b. Procedures for opening packages (10CFR 20.205(d)): Yes _____ No _____

c. Comment: *The Hammond Depot has shipped licensed material on three occasions during past 4 years. Shipping info is as follows:*

2 Drums (1650 lbs) of Thorium Nitrate to Gulf Energy & Environmental Systems, Inc., San Diego, Calif. on 12/13/73.

10 Drums (8,250 lbs) of Thorium Nitrate to Tennessee Nuclear Specialties, Inc., Jonesboro, Tenn. on 4/5/77.

7 Drums (5,775 lbs) of Thorium Nitrate to Tennessee Nuclear Specialties, Inc., Jonesboro, Tenn. on 5/5/77.

d. Records of receipt and transfer of material available (30.51(a); 40.61(a);

70.51(b)(1)): Yes No

1) If "Yes" review of records was made by inspector: Yes No

2) Period Reviewed: 12/73 - 5/77

3) Comments: _____

e. Packages on hand meet labelling requirements (49CFR 173.399):

Yes No

Comments: _____

f. Reports to commission required by L/C or regulation submitted:

Yes No

Comments: _____

12. PERSONNEL RADIATION PROTECTION - EXTERNAL

a. Film or TLD badge supplier Radiological Health Lab at Wright-Patterson Air Force Base

b. Badge exchange frequency See comments (next page)

c. Reports reviewed by R. GEDLING & H. SZCZEPANSKI

e. Records reviewed for period See comment to _____ by NRC inspector

f. NRC forms or equivalent

1) NRC-4 (20.102(b)): Yes No Complete: Yes No

2) NRC-5 (20.401(a)): Yes No Complete: Yes No

Maximum whole body quarterly exposure: See comments

Maximum extremity quarterly exposure: "

3) Comment: Depot receives 6-months supply of film badges in one shipment and badges are submitted for processing at the end of the month. F.B. exposure reports are provided by the Rad. Health Lab on a quarterly basis. Available F.B. reports from 1/76 to 6/77 showed zero mrem
(Cont. on page 8a)

g. Pocket dosimeters used: Yes No

1) Type used: CDV-138 (0-200mR)

2) Frequency of recharging: as needed

3) Frequency of reading: After each use (at least daily).

4) Comment: Pocket dosimeters are worn by all personnel entering area in which licensed material is stored.

h. Direct radiation surveys of restricted and/or unrestricted areas being made:

Yes No

1) Records of surveys being maintained: Yes No

2) Records of surveys reviewed: Yes No

3) Period reviewed: _____

4) Comments: Mr. Szczeplanski occasionally surveys drums storage area & outer surface of warehouse.

13. PERSONNEL RADIATION PROTECTION - INTERNAL

a. Potential for exposure of individuals to airborne radioactive materials

exists: Yes No

1) If "Yes" does program for monitoring and control exist: Yes No

2) Program for monitoring and control appears adequate: Yes No

b. Comments: No air sampling equipment at this depot.

¶ 12 f. (3) Cont.

exposure for all badged personnel.

Licensor unable to produce any F.B. records from end of 1972 thru 1975. Mr. Gedling stated that he believes no reports are available for that period because the practice at that time (Mr. Gedling was not here at that time) was to retain or discard the badges if they were not used - and, if not used, no one was working with radioactive material.

However, available "History of Occupational Exposure to Ionizing Radiation" reports for J.M. Ford and C. Jones (who, the inspectors were told, were the most likely individuals to prepare shipments) shows the following exposures for the indicated interval ~~during~~^{for} which exposure reports are missing:

Ford:	From 3/31/72 to 1/31/76	—	235 mrem
Jones:	From 9/30/72 to 1/31/76	—	60 mrem

F.B. records for the quarters that the last two shipments were prepared shows zero exposure; pocket dosimeter records for 4/5/77 & 5/5/77 was 4 mR (max).

No record of exposure available for the period that the 12/13/73 shipment was prepared.

c. Respiratory protection program required by L/C or application:

Yes _____ No _____

1) If "Yes" were respiratory protection procedures reviewed:

Yes _____ No _____

2) Respiratory protection procedures appear adequate: Yes _____ No _____

3) Comments: Comfy half mask with type H ultra filter is used by personnel who do any work with licensed material (e.g., during removal of waste from a leaking drum).

d. Bioassay program required: Yes _____ No _____

1) If "Yes" was bioassay program reviewed: Yes _____ No _____

2) Bioassay program appear adequate: Yes _____ No _____

3) Comments: No bioassay program at this depot.

e. Smears and air samples

1) Monitoring for airborne radioactivity is conducted (20.103):

Yes _____ No

a. Records of monitoring reviewed: Yes _____ No _____

b. Period reviewed: _____

c. Records of monitoring appears adequate: Yes _____ No _____

2) Smear surveys being conducted (20.201, b): Yes _____ No

a. Records of smear surveys reviewed: Yes _____ No _____

b. Period reviewed: _____

c. Records appeared adequate: Yes _____ No _____

3) Comments: _____

14. LEAK TESTS

- a. Leak tests required: Yes _____ No _____
- b. If "Yes" leak tests conducted: Yes _____ No _____
- c. Records of leak tests maintained: Yes _____ No _____
- d. Leak tests records reviewed: Yes _____ No _____
- e. Period reviewed: _____
- f. Records of leak tests appear adequate: Yes _____ No _____
- g. Comments: _____

15. RADIOACTIVE EFFLUENT CONTROL AND WASTE DISPOSAL

- a. Byproduct material released to atmosphere and/or sewer (20.106 and 20.303):
Yes _____ No _____
- b. Records of releases or radioactive effluents maintained (20.401):
Yes _____ No _____
 - 1) Period reviewed: _____
 - 2) Records appear adequate: Yes _____ No _____
- c. Solid waste disposal method: None as yet - waste maintained in drums (see comment)
 - 1) Records of disposal maintained (30.51): Yes _____ No _____
 - 2) Surveys of waste prior to disposal made (20.201): Yes _____ No _____
 - 3) Period reviewed: _____
 - 4) Records of surveys appear adequate (20.401): Yes _____ No _____
- d. Comments: Waste produced during decontamination of Section D in Warehouse 2 in 1971 was removed by Gamma Nuclear Service Co., Inc. who performed the decontamination work before this Section was sold to Long & Co. (see # 22).

16. SHIPPING INCIDENTS

a. Have any shipping incidents occurred since (date) No

1) Was incident documented: Yes _____ No _____

2) If "Yes" documentation appears adequate: Yes _____ No _____

b. Comments (reports to DOT, etc.): _____

17. NOTIFICATIONS AND REPORTS

a. Licensee in compliance with 10CFR 19.13 (reports to individuals):

Yes _____ No _____

b. Licensee in compliance with 10CFR 20.405 (over exposures):

Yes _____ No _____

c. Licensee in compliance with 10CFR 20.403 (incidents):

Yes _____ No _____

d. Licensee in compliance with 10CFR 20.402 (theft or loss):

Yes _____ No _____

e. Comments: _____

18. POSTING OF NOTICES

- a. Licensee in compliance with 10CFR 19.11(a) or (b): Yes No
- b. Licensee in compliance with 10CFR 19.11(c): Yes No
- c. Comments: _____

19. ENVIRONMENTAL MONITORING PROGRAM

- a. Environmental Monitoring Program required: Yes _____ No _____
- b. If "Yes" records reviewed: Yes _____ No _____
- c. Period reviewed: _____
- d. Records appeared adequate: Yes _____ No _____
- e. If Environmental Program is not required, briefly describe any existing program: _____

20. CONFIRMATORY MEASUREMENTS

- a. Independent measurements made by inspector: Yes No
- b. Comments (describe type, results, comparison with licensee results): Direct α and $\beta\gamma$ surveys plus smears using NRC instrumentation*. In middle of aisle (~15 ft. wide) between Thorium Nitrate (TN) drums - 17 mR/hr (max.); direct survey at surface of TN drums - ~50 mR/hr (max.); survey of material which leaked from a TN drum - from 2 to 5×10^4 d/m/61cm² α ; aisle floor survey - 6 to 10×10^3 d/m/61cm² α (over an area where some material dropped on floor) and up to 2×10^3 d/m/61cm² α (in apparently clean floor area); vertical surface of non-leaking TN drums - $< 1 \times 10^3$ d/m/61cm² α .

(Cont. on page 12a)

* Eberline Geiger Counter, model E-530 (NRC# 000716), calibrated 8/10/77.
Eberline GasPAC, model PAC-3G (NRC# 000709), calibrated 7/27/77.

¶ 20 b (Cont.)

Direct $\beta\gamma$ survey of Monazite drums (no leakers here) showed ~ 10 mR/hr (max.).

A survey at outer surface of warehouse wall showed < 0.5 mR/hr.

Each Thorium Nitrate drum has a radioactive material label, class D poison, Group I or II, 17 millicuries.

21. INDEPENDENT INSPECTION EFFORT

- a. Comment on type of independent inspection effort conducted: Toured area used for storage of licensed material - checked posting and labeling; inspected depot's inventory of radiation detection instrumentation.

22. CONTINUATION FROM PREVIOUS PARAGRAPHS - USE BACK OF PAGE IF NECESSARY

The decontaminated Section D in Warehouse 2 was sold (~1972) to Long & Co., P.O. Box 565, Hammond, Ind. 46320 - Ph: (219) 937-4300
A Mr. Garland Middendorf is in charge of Long & Co. operations.

Attached is a copy of letter dated 9/22/71 to GSA from Gamma Nuclear regarding final floor contamination levels in Section D of Warehouse 2.

A future project (not funded as yet) will involve repackaging the Thorium Nitrate drums - that is, the TN drums will be placed in larger (70-gal capacity) drums & surrounded by poured tar on the bottom and sides up to ~4" from the top.

H. SZCZEPANSKI
HAMMOND



GAMMIE NUCLEAR SERVICE CO., INC.

PIPE LEAK FINDING • INDUSTRIAL PROCESS TRACING

3737 MT. PROSPECT RD., FRANKLIN PARK, ILL. 60131 PHONE (312) 766-8770

SEPTEMBER 22, 1971

MR. MARSHALL BRADLEY
CHIEF INSPECTION BRANCH
GSA-PMDS
RM 1222 FEDERAL BUILDING
219 SOUTH DEARBORN STREET
CHICAGO, ILLINOIS 60604

DEAR MR. BRADLEY:

WE HEREBY CERTIFY THAT WE HAVE MONITORED THE ENTIRE FLOOR AREA
IN WAREHOUSE 2, SECTION D, GSA-PMDS HAMMOND DEPOT, HAMMOND,
INDIANA, AND THAT THE CONTAMINATED FLOOR AREA DOES NOT EXCEED
THE FOLLOWING AT ANY LOCATION:

5,000 DPM/100 CM² FIXED ALPHA
1,000 DPM/100 CM² REMOVABLE ALPHA

RESPECTFULLY SUBMITTED,

GAMMIE NUCLEAR SERVICE Co., Inc.


DONALD G. GAMMIE, PRESIDENT

DGG:EB

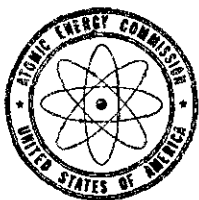
9/77

Designated "Official Record Copy"

Date

JAN 07 1993

1/0
IE:07



UNITED STATES
ATOMIC ENERGY COMMISSION

DIVISION OF COMPLIANCE
REGION I
970 BROAD STREET
NEWARK, NEW JERSEY 07102

201 645-

APR 27 1973

General Services Administration
Attention: Mr. Kirtley, Director
Stockpile Storage Division
Property Management and Disposal Service
Washington, D.C. 20405

Docket No. 40-341

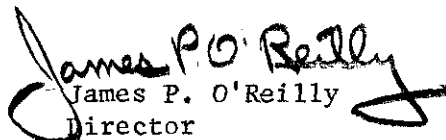
Date of Inspection: February 21, 1973

Gentlemen:

Enclosed with this letter is Form AEC-591, "Inspection Findings and Licensee's Acknowledgment", showing that no items of non-compliance were found during our inspection of your licensed activities conducted on the date shown above. Please retain the form in your files. No acknowledgment of this letter is required.

Your cooperation is appreciated.

Very truly yours,


James P. O'Reilly
Director

Enclosure:
Form AEC-591

INSPECTION FINDINGS AND LICENSEE ACKNOWLEDGMENT

<p>1. LICENSEE</p> <p>General Services Administration Property Management and Disposal Service Washington, D.C. 20405</p>	<p>2. REGIONAL OFFICE</p> <p>U.S. Atomic Energy Commission Directorate of Regulatory Operations Region I 970 Broad Street Newark, New Jersey 07102</p>
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<p>3. SOCKET NUMBER(S)</p> <p>40-341</p>	<p>4. LICENSE NUMBER(S)</p> <p>STC-133</p>	<p>5. DATE OF INSPECTION</p> <p>February 21, 1973</p>
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6. INSPECTION FINDINGS
 The inspection was an examination of the activities conducted under your license as they relate to radiation safety and to compliance with the Commission's rules and regulations and the conditions of your license. The inspection consisted of selective examinations of procedures and representative records, interviews with personnel, and observations by the inspector. The findings as a result of this inspection are as follows:

No items of noncompliance or unsafe conditions were found.

The following items of noncompliance related to records, signs, and labels were found:

- A. Rooms or areas were not properly posted to indicate the presence of a RADIATION AREA. 10 CFR 20.203(b) or 34.42
- B. Rooms or areas were not properly posted to indicate the presence of a HIGH RADIATION AREA. 10 CFR 20.203(c) (1) or 34.42
- C. Rooms or areas were not properly posted to indicate the presence of an AIRBORNE RADIOACTIVITY AREA. 10 CFR 20.203(d)
- D. Rooms or areas were not properly posted to indicate the presence of RADIOACTIVE MATERIAL. 10 CFR 20.203(e)
- E. Containers were not properly labeled to indicate the presence of RADIOACTIVE MATERIAL. 10 CFR 20.203(f) (1) or (f) (2)
- F. A current copy of 10 CFR 20, a copy of the license, or a copy of the operating procedures was not properly posted or made available. 10 CFR 20.206(b)
- G. Form AEC-3 was not properly posted. 10 CFR 20.206(c)
- H. Records of the radiation exposure of individuals were not properly maintained. 10 CFR 20.401(a) or 34.33(b)
- I. Records of surveys or disposals were not properly maintained. 10 CFR 20.401(b) or 34.43(d)
- J. Records of receipt, transfer, disposal, export or inventory of licensed material were not properly maintained. 10 CFR 30.51, 40.61 or 70.51
- K. Records of leak tests were not maintained as prescribed in your license, or 10 CFR 34.25(c)
- L. Records of inventories were not maintained. 10 CFR 34.26
- M. Utilization logs were not maintained. 10 CFR 34.27
- N. Records of radiation survey instrument calibration were not maintained. 10 CFR 34.24
- O. Records of teletherapy electrical interlock tests were not maintained as prescribed in your license.
- P. Other _____

Fred N. Brandkamp
Fred N. Brandkamp, Radiation Specialist

(AEC Compliance Inspector)

7. The AEC Compliance Inspector has explained and I understand the items of noncompliance listed above. The items of noncompliance will be corrected within the next 30 days.

(Date)

(Licensee Representative - Title or Position)

R. O. McClintock, Senior ^{EMH}

General Services Administration
Property Management and Disposal Service
Washington, D. C. 20405
Lic No. STC-133

Inspector Evaluation: Baltimore Md. Depot Inspection of 2/27/73
Hammond, Indiana Depot (RO.III assist) 3/1/73

Both inspections indicate the presence of a containment problem relative to thorium nitrate in storage, due to the corrosive effects of the material on certain types of drums. At both locations the nature of the situation has been recognized and adequately controlled. There are no significant health and safety hazards, and the planned repackaging effort should adequately resolve the matter.

This license has been ~~inspected~~ classified E III; I recommend that this classification be retained and that it be reinspected in 3 years - March '76. The next inspection should include a review of the records at the Wash. D. C. offices of this licensee.

Fred N. Brandkamp
Radiation Specialist