



U.S. NUCLEAR REGULATORY COMMISSION

RESPONSE TO FREEDOM OF
INFORMATION ACT (FOIA) REQUEST

PDR-016

NRC FOIA REQUEST NUMBER(S)

FOIA-86-61

RESPONSE TYPE

☐ FINAL☒ PARTIAL

DATE

OCT 24 1986

DOCKET NUMBER(S) (If applicable)

REQUESTER

Ms. Midori Higuchi

PART I - RECORDS RELEASED OR NOT LOCATED (See checked boxes)

☐ No agency records subject to the request have been located.☐ No additional agency records subject to the request have been located.☐ Agency records subject to the request that are identified in Appendix _____ are already available for public inspection and copying in the NRC Public Document Room, 1717 H Street, N.W., Washington, DC.☒ Agency records subject to the request that are identified in Appendix B are being made available for public inspection and copying in the NRC Public Document Room, 1717 H Street, N.W., Washington, DC, in a folder under this FOIA number and requester name.☐ The nonproprietary version of the proposal(s) that you agreed to accept in a telephone conversation with a member of my staff is now being made available for public inspection and copying at the NRC Public Document Room, 1717 H Street, N.W., Washington, DC, in a folder under this FOIA number and requester name.☐ Enclosed is information on how you may obtain access to and the charges for copying records placed in the NRC Public Document Room, 1717 H Street, N.W., Washington, DC.☐ Agency records subject to the request are enclosed. Any applicable charge for copies of the records provided and payment procedures are noted in the comments section.☐ Records subject to the request have been referred to another Federal agency(ies) for review and direct response to you.☐ In view of NRC's response to this request, no further action is being taken on appeal letter dated _____.

PART II.A - INFORMATION WITHHELD FROM PUBLIC DISCLOSURE

☒ Certain information in the requested records is being withheld from public disclosure pursuant to the FOIA exemptions described in and for the reasons stated in Part II, sections B, C, and D. Any released portions of the documents for which only part of the record is being withheld are being made available for public inspection and copying in the NRC Public Document Room, 1717 H Street, N.W., Washington, DC, in a folder under this FOIA number and requester name.

Comments

SIGNATURE, DIRECTOR, DIVISION OF RULES AND RECORDS

*David H. Gandy*8611040413 861027
PDR FOIA
HIGUCHI86-61 PDR

FREEDOM OF INFORMATION ACT RESPONSE

FOIA NUMBER: 86-61

DATE

PART II.B - APPLICABLE FOIA EXEMPTIONS

Records subject to the request that are described in the enclosed Appendices C and D are being withheld in their entirety or in part under FOIA Exemptions and for the reasons set forth below pursuant to 5 U.S.C. 552(b) and 10 CFR 9.5(a) of NRC Regulations.

1. The withheld information is properly classified pursuant to Executive Order 12356 (EXEMPTION 1)
2. The withheld information relates solely to the internal personnel rules and procedures of NRC (EXEMPTION 2)
3. The withheld information is specifically exempted from public disclosure by statute indicated: (EXEMPTION 3)

Section 141-145 of the Atomic Energy Act which prohibits the disclosure of Restricted Data or Formerly Restricted Data (42 U.S.C. 2161-2165).

Section 147 of the Atomic Energy Act which prohibits the disclosure of Unclassified Safeguards Information (42 U.S.C. 2167).

4. The withheld information is a trade secret or commercial or financial information that is being withheld for the reason(s) indicated: (EXEMPTION 4)

The information is considered to be confidential business (proprietary) information.

The information is considered to be proprietary information pursuant to 10 CFR 2.790(d)(1).

The information was submitted and received in confidence from a foreign source pursuant to 10 CFR 2.790(d)(2).

- X 5. The withheld information consists of interagency or intraagency records that are not available through discovery during litigation. Disclosure of predecisional information would tend to inhibit the open and frank exchange of ideas essential to the deliberative process. Where records are withheld in their entirety, the facts are inextricably intertwined with the predecisional information. There also are no reasonably segregable factual portions because the release of the facts would permit an indirect inquiry into the predecisional process of the agency. (EXEMPTION 5)

6. The withheld information is exempted from public disclosure because its disclosure would result in a clearly unwarranted invasion of personal privacy. (EXEMPTION 6)

7. The withheld information consists of investigatory records compiled for law enforcement purposes and is being withheld for the reason(s) indicated: (EXEMPTION 7)

Disclosure would interfere with an enforcement proceeding because it could reveal the scope, direction, and focus of enforcement efforts, and thus could possibly allow them to take action to shield potential wrongdoing or a violation of NRC requirements from investigators. (EXEMPTION 7(A))

Disclosure would constitute an unwarranted invasion of personal privacy (EXEMPTION 7(C))

The information consists of names of individuals and other information the disclosure of which would reveal identities of confidential sources. (EXEMPTION 7(D))

PART II.C - DENYING OFFICIALS

Pursuant to 10 CFR 9.9 and/or 9.15 of the U.S. Nuclear Regulatory Commission regulations, it has been determined that the information withheld is exempt from production or disclosure, and that its production or disclosure is contrary to the public interest. The persons responsible for the denial are those officials identified below as denying officials and the Director, Division of Rules and Records, Office of Administration, for any denials that may be appealed to the Executive Director for Operations (EDO).

DENYING OFFICIAL	TITLE/OFFICE	RECORDS DENIED	APPELLATE OFFICIAL	
			SECRETARY	EDO
John C. Hoyle	Assist. Secretary to the Commission	Appendices C & D	X	

PART II.D - APPEAL RIGHTS

The denial by each denying official identified in Part II.C may be appealed to the Appellate Official identified in that section. Any such appeal must be in writing and must be made within 30 days of receipt of this response. Appeals must be addressed as appropriate to the Executive Director for Operations or to the Secretary of the Commission, U.S. Nuclear Regulatory Commission, Washington, DC 20555, and should clearly state on the envelope and in the letter that it is an "Appeal from an Initial FOIA Decision."

Appendix B

Documents to be Released

1. 1/7/86 NRC-drafted State Cable 4050 (1 page)
2. 1/10/86 NRC-drafted State Cable 8343 (1 page)
3. 1/12/86 Ltr to D. Bangart from M. Dockter re: US DOE Aerial and Ground Radiation Measurements (1 page)
4. 1/14/86 Memo for P. Davis from D. Cool re: License and Amendments for Sequoyah Fuels Corporation, Sequoyah Facility, Sub-1010 (1 page)
5. 1/17/86 Ltr to R. Luke from R. Martin re: Confirmation of Action Ltr (3 pages)
6. 1/21/86 Memo for J. Taylor from R. Martin re: Industrial Safety (3 pages)
7. 1/21/86 Letter to K. Cameron from K. Burke re: Preliminary Notifications (1 page)
8. 1/22/86 Memo to R. Cunningham from H. Faulkner re: Bulge Uf₆ Cylinder, April 19, 1985. Canada (1 page)
9. 1/22/86 Facsimile Transmittal to R. Chappell from R. Smith (8 pages)
10. 1/23/86 Memo for R. Brown from H. Faulkner re: Japanese Questions on Uf₆ Cylinder Rupture (2 pages)
11. 1/23/86 Telegraphic Message to T. Okazaki from R. Hauber (1 page)
12. 1/24/86 Memo for J. Davis from C. Heltemes re: Lessons Learned Group (LLG) (1 page)
13. 1/24/86 Memo for J. Davis from T. Murley re: Lessons Learned Group (LLG) (1 page)
14. 1/24/86 Memo for J. Davis from R. Martin re: Follow-on Actions Resulting from the Kerr-McGee UF₆ Accident (6 pages)
15. 1/24/86 Memo for J. Davis from R. Martin re: Response to Proposed Lessons Learned Group (LLG) (1 page)

Appendix B (cont'd)

16. 1/27/86 Memo for L. Cobb from w. Shafer re: Fuel Facility Inspector Qualifications (3 pages)
17. 1/30/86 Memo for J. Taylor from J. Martin re: Regional Interface with OSHA Agencies for Non-Radiological Issues w/enclosure re: Letter to C. Eschels from D. Kunihiro dtd 12/13/85 (2 pages)
18. 1/30/86 Memo for L. Cobb from J. Grace re: Response to Congressman Markey's Request w/enclosure re: Qualifications of Individuals (10 pages)
19. 1/30/86 Memo for J. Davis from J. Grace re: Lessons Learned Group for Sequoyah Release (1 page)
20. 1/31/86 Region IV Daily Staff Note from R. Martin (1 page)
21. 2/21/86 Memo for Chairman Palladino and the Commissioners from V. Stello re: Staff Requirements-Memorandum from Secretary dated 1/23/86 re: Sequoyah Fuels Corporation w/enclosure re: Staff Plans for Follow-on Task Resulting from the Sequoyah Fuels Corp. (STC) Facility Accident on 1/4/86 (5 pages)
22. 2/25/86 Facsimile Transmittal to R. Cunningham from R. Bangart (3 pages)
23. 2/27/86 Facsimile Transmittal to B. Dalrymple from R. Bangart (6 pages)
24. 3/14/86 Testimony on the January 4, 1986 Accident at the Kerr-McGee Sequoyah Facility, Presented by N. Palladino (20 pages)

Appendix C

Documents Withheld in Part

- | | | | |
|----|--------|---|------------------|
| 1. | 2/7/86 | Memo for Chairman Palladino from V. Stello re:
Follow-up Responses to Briefing on 1/10/86 and
your memo of 1/8/86 (1 page) | Release |
| | | Enclosure | |
| | | a. Questions and Answers (14 pages) | Withhold
Ex 5 |
| | | b. January 10, 1986 EDO Principal Correspondence
Control from Chairman Palladino to V. Stello
re: Questions on Incident at Kerr-McGee (1 page) | Release |
| | | c. January 8, 1986, Memo to V. Stello from
N. Palladino re: Incident at Kerr-McGee
Nuclear Fuel Fabrication Plant Near
Gore, Oklahoma (1 page) | Release |
| | | d. Chairman's Questions on Kerr-McGee Incident
(2 pages) | Withhold
Ex 5 |
| 2. | 2/7/86 | Memo for Chairman Palladino from V. Stello re:
Follow-up Responses to Briefing on 1/10/86 and
your memo of January 8, 1986 (1 page) | Release |
| | | Enclosure: Questions and Answers (14 pages) | Withhold
Ex 5 |
| 3. | 3/5/86 | Memo for Office Directors from V. Stello
re: Chairman Backup Questions (1 page) | Release |
| | | Enclosure: Additional Backup
Questions for the Chairman (10 pgs.) | Withhold
Ex 5 |

Appendix D

Documents Withheld

1. 3/6/86 Chairman's Questions on Kerr-McGee Incident (2 pages)
2. Undated Memo for V. Stello from S. Chilk re: Staff Requirements Briefing on Event at Kerr-McGee Sequoyah Facility, 1:00 p.m., Friday January 10, 1986, Commissioners' Conference Room, DC Office to Public Attendance (2 pages)

THE YASUDA FIRE & MARINE INSURANCE COMPANY OF AMERICA

One World Trade Center
SUITE 7733
NEW YORK, N.Y. 10048

TEL: (212) 466-0781
TLX: MCI 697-3257

January 24, 1986

Director
Office of Administration
Nuclear Regulatory Commission
Region 4
611 Ryan Drive
Arlington TX 76011

FREEDOM OF INFORMATION
ACT REQUEST

FOIA-86-61
Rec'd 2-3-86

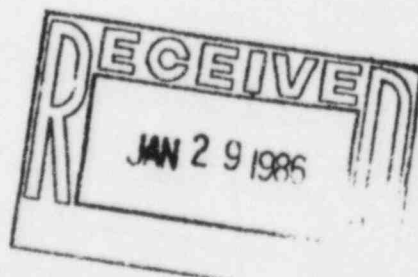
Re: Gas Leak at Sequoyah Fuel Corp's Kerr McGee Plant
at Gore, Oklahoma on January 4, 1986

To whom this may concern:

I wish to receive the records of your investigation of the captioned incident as per the provision of the Freedom of Information Act. Please send this material together with the invoice to my attention at above address.

Very truly yours,

Midori
Midori Higuchi
Production Department



8610140024

Release

JAN 14 1986

FCUP:DAC
40-8027

MEMORANDUM FOR: Patricia R. Davis
Legal Assistant to Commissioner Asselstine
Office of the Commission

FROM: Donald A. Cool, Ph.D.
Uranium Fuel Licensing Branch
Division of Fuel Cycle and Material Safety, NMSS

SUBJECT: LICENSE AND AMENDMENTS FOR SEQUOYAH FUELS CORPORATION,
SEQUOYAH FACILITY, SUB-1010

Enclosed are copies of Source Materials License No. SUB-1010 as renewed on September 20, 1985. Also enclosed are copies of the License Conditions Section of the renewal application (pages dated August 23, 1985) and the Radiological Contingency Plan and update (dated March 11, 1982, and August 24, 1984) which are referenced by the license.

Source Materials License No. SUB-1010 has been amended once since the renewal (Amendment 1, dated December 23, 1985). A copy is enclosed for your information.

DONALD A. COOL

Donald A. Cool, Ph.D.
Uranium Process Licensing Section
Uranium Fuel Licensing Branch
Division of Fuel Cycle and
Material Safety, NMSS

Enclosures:

1. Source Materials License SUB-1010
2. License Conditions Section
3. Radiological Contingency Plan
(March 11, 1982)
4. Radiological Contingency Plan
Update (August 24, 1984)
5. Amendment No. 1 (December 23, 1985)

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INFO: LDC-02 LDC-02 LDC-02 LDC-02 LDC-02 LDC-02 LDC-02 LDC-02
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DRAFTED BY: U2NRG RDMHBER
 APPROVED BY: OEC-NTC MPROCHNIK
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UNVIE, UOCLCO, UOCLC FROM AIT WAGDC

E.O. 12356: N/A

TAGS: TRUC

SUBJECT: RUPTURED URANIUM HEXAFLUORIDE CYLINDER AT
 SEQUOYAH CONVERSION FACILITY, LOOSE, OKLAHOMA (NRC-20-1)

REF: ES STATE A-204

1. MISSIONS ARE REQUESTED TO INFORM NRC OFFICIAL CONTACTS
 DURING THEIR BUSINESS HOURS OF THE FOLLOWING INFORMATION
 AS NRC-20-1

2. THE U.S. NUCLEAR REGULATORY COMMISSION HAS SENT AN
 INVESTIGATION TEAM TO THE SEQUOYAH FUEL FABRIICATION
 FACILITY (FORMERLY FERRIS MOORE NUCLEAR CONVERSION FACILITY) IN
 CORE, OKLAHOMA TO INVESTIGATE THE CIRCUMSTANCES OF AN
 INCIDENT WHICH OCCURRED AT THE FACILITY AT 11:00 AM ON JANUARY 4, 1980. WHEN A CYLINDER CONTAINING
 APPROXIMATELY 25 POUNDS OF URANIUM HEXAFLUORIDE WAS
 RUPTURED, ALLOWING THE CONTENTS TO BE RELEASED TO THE ATMOSPHERE AND
 RESULTING IN THE DEATH OF ONE COMPANY EMPLOYEE FROM THE
 INHALATION OF HYDROGEN FLUORIDE (HFL).

3. ACCORDING TO STATEMENTS FROM COMPANY OFFICIALS, PLANT
 EMPLOYEES WHO OBSERVED THE CYLINDER RUPTURE ESTIMATED
 27,500 POUNDS AND WERE IN THE PROCESS OF REPAIRING THE

CYLINDER, ALLOWING THE CONTENTS OF THE CYLINDER TO BE
 RELEASED TO THE ATMOSPHERE IN VARIOUS FORMS. COMPANY
 OFFICIALS ESTIMATE THAT THE CONTENTS OF THE CYLINDER
 EMPTIED IN ABOUT 20 TO 40 MINUTES.

3. CONTACT WITH THE AIR RESULTED IN THE FORMATION OF
 HYDROGEN FLUORIDE (HFL) AND URANYL FLUORIDE. ALTHOUGH IT
 IS BELIEVED, BASED ON RADIATION SURVEYS AND SAMPLE RESULTS
 TO DATE, THAT MOST OF THE URANYL FLUORIDE WAS DEPOSITED
 IN THE IMMEDIATE VICINITY OF THE PLANT, THE HYDROGEN
 FLUORIDE, A TOXIC AND CORROSIVE CHEMICAL, FORMED A PLUME
 THAT WAS VISIBLE AT MORE THAN A MILE FROM THE PLANT SITE
 BEFORE IT WAS DISPERSED. INTERSTATE HIGHWAY NO. 40, WHICH
 RUNS EAST-WEST ABOUT A MILE SOUTH OF THE PLANT, WAS CLOSED
 FOR A SHORT PERIOD OF TIME AFTER THE INCIDENT BY THE
 OKLAHOMA HIGHWAY PATROL.

4. ABOUT 25 PEOPLE, MOSTLY COMPANY EMPLOYEES, WERE
 HOSPITALIZED AS A RESULT OF THE INCIDENT, BUT ONLY A FEW
 WERE DIAGNOSED AS SUFFERING FROM RESPIRATORY PROBLEMS
 RELATED TO INHALATION OF HYDROGEN FLUORIDE. THOSE
 EXHIBITING ACTUAL RESPIRATORY PROBLEMS WERE TRANSFERRED TO
 A MEDICAL FACILITY IN FORT SMITH, ARKANSAS, FROM A
 HOSPITAL IN CALLAHAN, OKLAHOMA. ONE PERSON, A COMPANY
 EMPLOYEE, DIED ENROUTE TO FORT SMITH. NO ADDITIONAL
 DEATHS HAVE BEEN REPORTED. NUMEROUS COMPANY EMPLOYEES
 AND LOCAL RESIDENTS HAVE REPORTED TO THE GALLAGHER HOSPITAL
 AT THE COMPANY'S REQUEST FOR INITIAL SCREENING. MANY HAVE
 BEEN ASKED FOR URINE SAMPLES WHICH THE COMPANY WILL
 ANALYZE AT ITS TECHNICAL CENTER IN OKLAHOMA CITY.

5. THE COMPANY CONTINUED TO PERFORM RADIATION SURVEYS AT
 THE PLANT AND TO PERFORM SURVEYS AND TAKE SAMPLES FROM
 THE ENVIRONMENT IN THE AREA THAT THE PLUME IS BELIEVED TO
 HAVE TRAVERSED.

6. ALTHOUGH THE RUPTURE TOOK PLACE IN A STEAM-HEATING
 FACILITY OUTSIDE THE MAIN PROCESS BUILDINGS, CONTAMINATION
 WAS SPREAD THROUGH MOST PLANT BUILDINGS BY THE BUILDING
 VENTILATION SYSTEMS. THE COMPANY CONTINUES TO
 DECONTAMINATE THOSE AREAS NEEDED TO RESUME ITS RECOVERY
 ACTIVITIES.

7. THE NRC INVESTIGATION TEAM IS FOCUSING ON THE EVENTS
 THAT LED TO THE CYLINDER RUPTURE, THE RESULTANT HEALTH AND
 ENVIRONMENTAL IMPACTS AND THE RECOVERY ACTIVITIES THAT ARE
 CURRENTLY TAKING PLACE. THE COMPANY HAS AGREED TO LEASE
 THE EQUIPMENT AND FACILITIES RELATED TO THIS INCIDENT
 UNTOUCHED AND NOT TO RESUME FACILITY OPERATIONS WITHOUT
 NRC CONSENT. THE TEAM IS MAKING ARRANGEMENTS TO
 INTERVIEW ALL PLANT EMPLOYEES WHO WERE AT THE FACILITY AT
 THE TIME OF THE INCIDENT AND TO HAVE THOSE INTERVIEWS
 TRANSCRIBED. ARRANGEMENTS HAVE BEEN MADE THROUGH THE U.S.
 DEPARTMENT OF ENERGY FOR AN ARKANSAS EXPOSURE SURVEY.

8. THIS INFORMATION IS CURRENT AS OF MONDAY MORNING,
 JANUARY 6, 1980. A COPY OF THE NRC TEAM'S REVIEW WILL BE
 FORWARDED TO NRC OFFICIAL CONTACTS IN THE NEAR FUTURE.

9. FOR LONDON, CHANGE ADDRESS OF MR. JOHN C. MORTON, THE
 TECHNICAL SUPPORT UNIT, NUCLEAR REGULATIONS INTERNATIONAL,
 HEATH AND LETHBRIDGE AVENUE, WINDYBUSH COURT, BUCKINGHAM,
 LONDON, U.K. W1P 4LJ.

10. FOR WASHINGTON, CHANGE ADDRESS OF THE WALTER REED
 OFFICE, TO 6701 WASHINGTON AVENUE, WASHINGTON, D.C. 20012.
 A 2244 JEFFERSON, WASHINGTON, D.C. 20012

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A-1

INFO LOG-00 COPY-01 ADS-00 INR-10 EUR-00 SS-00 CIAE-00
 EN-00 IO-16 NEA-07 ARA-00 NSAE-00 L-03 EAP-00
 AIT-02 PA-02 EPAE-00 SIG-03 OES-05 ACDA-12 USIE-00
 SP-02 SNP-01 PRS-01 /079 R

DRAFTED BY: USNRC:ROHAUSER
 APPROVED BY: OES/NTC: MPROCHNIK
 AIT:DDEAN (INFO)

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TO AMEMBASSY ATHENS IMMEDIATE

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AMEMBASSY PARIS IMMEDIATE

AMCONSUL RIO DE JANEIRO IMMEDIATE

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INFO AIT TAIPEI FROM AIT WASHDC IMMEDIATE 7193

UNCLAS STATE 000343

UNWIE, USOEC, USEEC

E.O. 12356: N/A

TAGS: TNUC

SUBJECT: RUPTURED URANIUM HEXAFLUORIDE CYLINDER AT
 - SEQUOYAH CONVERSION FACILITY, GORE, OKLAHOMA
 - (NRC-86-1A)

REFS: A) 85 STATE A-304, B) STATE 4050, C) DUBLIN 6980

1. MISSIONS ARE REQUESTED TO INFORM NRC OFFICIAL CONTACTS DURING REGULAR BUSINESS HOURS OF THE FOLLOWING INFORMATION AS NRC-86-1A. IT PROVIDES AN UPDATE ON THE JANUARY 5, 1986 RUPTURE OF A CYLINDER CONTAINING APPROXIMATELY 15 TONS OF URANIUM HEXAFLUORIDE (UF6) WHICH RESULTED IN THE DEATH OF ONE SEQUOYAH FUELS COMPANY (SFC) EMPLOYEE.

2. AT A NEWS BRIEFING ON JANUARY 7, THE SEQUOYAH FUELS COMPANY ACKNOWLEDGED THAT THE PLANT'S OPERATING PROCEDURES PROHIBIT HEATING A UF6 CYLINDER THAT HAS BEEN OVERFILLED.

3. BASED ON INFORMATION OBTAINED BY THE U.S. NUCLEAR REGULATORY COMMISSION'S (NRC) INVESTIGATION TEAM AS OF JANUARY 8, AND VISUAL OBSERVATION OF THE RUPTURED CYLINDER, THE BEST JUDGEMENT OF THE TEAM IS THAT THE CYLINDER FAILED BY HYDRAULIC RUPTURE. THE NRC TEAM HAS FOUND NO INFORMATION WHICH WOULD INDICATE THE CYLINDER WAS DEFECTIVE. THE

EXTERNAL PRESSURE. IT RUPTURED INDICATED THAT IT WAS DUE TO INTERNAL PRESSURES FAR BEYOND DESIGN PRESSURES. SUCH LARGE PRESSURES WOULD BE PRODUCED HYDRAULICALLY WHEN THE LIQUID CONTENTS EXPAND TO A VOLUME GREATER THAN THE VOLUME OF THE VESSEL. PRELIMINARY ANALYSIS BY THE NRC TEAM AT THE SITE INDICATES THAT THIS CONDITION OCCURRED.

4. ALL SFC EMPLOYEES WHO WERE HOSPITALIZED AS A RESULT OF THIS INCIDENT HAVE BEEN RELEASED. THERE IS NO DATA AT THIS TIME TO INDICATE ANY SIGNIFICANT OFFSITE RADIOLOGICAL IMPACTS.

5. FOR DUBLIN: PLEASE PASS THIS ADDITIONAL INFORMATION TO MR. F. J. TURVEY, NUCLEAR ENERGY BOARD, DUBLIN.

6. FOR LONDON: PLEASE CHANGE OFFICE DESIGNATION OF JOHN S. MACLEOD, NII, FROM TECHNICAL SUPPORT UNIT TO POLICY SECTION. SHULTZ

UNCLASSIFIED

B.2

12 January 1986

Dick Bangert
NRC Region 4
Arlington, Texas

SUBJECT: USDOE AERIAL AND GROUND RADIATION MEASUREMENTS

Dear Mr. Bangert:

The USDOE Aerial Measuring System was flown at NRC request to document the background radiation environment surrounding the Kerr McGee Sequoyah Fuel Facility following the accidental release of UF₆ on 4 Jan 1986. In addition, the AMS team deployed an Intrinsic Germanium detector and a battery powered 4000 channel analyzer to provide ground based check points to support the aerial measurements.

The aerial results are provided to you as an overlay to an aerial photo of the facility. The area surveyed is a five mile square centered on the site with an additional two lines flown SE 18 miles to Keota, Oklahoma. The Carlile school is included in this survey area.

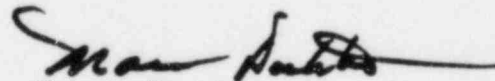
The Intrinsic Germanium results are given in the attached data sheets and have been included by your staff in the other ground sampling and measurement data.

In the outbrief conducted this morning copies of photo proof books and selected enlargements were delivered to you. The remaining proof books will be sent to the Region 4 office in Arlington, Texas.

Zolin Burson, data assessment specialist from E6&6/EM will remain on-site for several days to assist the NRC staff in assembling the off-site sampling data.

This will conclude the on-site support to be provided to NRC Region 4 and we expect to continue working with you on data collected during this mission. For this purpose please be in touch with the DOE Nevada Operations Office Nuclear Systems Division in Las Vegas, Nevada (FTS 575-1280).

Sincerely,



Marvin Dockter
DOE Response Team Leader

A.3