



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION III
700 ROOSEVELT ROAD
GLEN ELLEN, ILLINOIS 60137

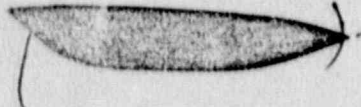
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K-M

April 4, 1980

Mr. G. J. Sinke
Kerr-McGee Nuclear Corporation
Kerr-McGee Center
Oklahoma City, Oklahoma

Dear Mr. Sinke:

Enclosed, as promised in my letter of December 14, 1979, is the March 19, 1980, report of Dr. George Voelz's radioactivity measurements performed on



Sincerely,

James G. Keppler
James G. Keppler
Director

Enclosure: as stated

cc w/enclosure:
Bill Sellers
Dr. G. L. Voelz
J. H. Sniezek

Information in this record was deleted
in accordance with the Freedom of Information
Act, exemptions 6
FOIA- 89-376

APR 30 1980

E/16

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PDR FOIA
DEGRAZI89-376 PDR



LOS ALAMOS SCIENTIFIC LABORATORY

Post Office Box 1663 Los Alamos, New Mexico 87545

In reply refer to:
Mail stop:H
400

March 19, 1980

Mr. W. L. Fischer
 US Nuclear Regulatory Commission
 799 Roosevelt Road
 Glen Ellyn, Illinois 60137

Dear Mr. Fischer:

This is our report on radioactivity measurements performed on Mr. [redacted] a former employee of Kerr-McGee Nuclear Corporation, as requested by letter from NRC Director James G. Keppler to me on December 14, 1979. On January 7 and 8, 1980, [redacted] was at Los Alamos for performance of whole body counts, special chest counts, and collection of urine samples. I have also had the opportunity to review the in vivo counting and bioassay data forwarded to me by Gerald J. Sinke, Coordinator, Radiation Health and Safety, Kerr-McGee Nuclear Corporation.

Three separate measurements of radioactivity in the chest region were made on [redacted] using phoswich scintillation detectors that are designed for measuring americium-241 (^{241}Am) and plutonium-239 (^{239}Pu). The results are as follows:

Measurements	^{241}Am	^{239}Pu
#1	-0.08 ± 0.09 nCi	2.6 ± 11.0 nCi
#2	0.11 ± 0.09 nCi	2.7 ± 11.1 nCi
#3	<u>0.01 ± 0.09 nCi</u>	<u>-10.2 ± 11.3 nCi</u>
Average	0.01 ± 0.06 nCi	- 1.6 ± 6.6 nCi

The ± uncertainties are 1 standard deviation from the stated values. The several negative values result from the counter background counts being slightly greater than the counts obtained with [redacted]. The results are all consistent and indicate that we did not detect any americium or plutonium in [redacted].

The urine sample collected from him was analyzed for americium and plutonium by our usual procedures. The results are as follows:

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Mr. W. L. Fischer

-2-

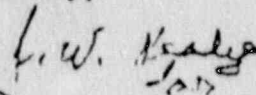
March 19, 1980

Nuclide	Counts/50,000 sec		Percent Tracer Recovery	Urine Activity
	Sample	Background		
^{239}Pu	1	1	67	0 pCi/24 hours
^{238}Pu	0	1	67	0 pCi/24 hours
^{241}Am	4	3	92	0 pCi/24 hours

These results indicate that we were unable to detect any of these radionuclides in his urine. The chemical recoveries in these analyses are satisfactory as indicated by the tracer recovery data. Quality control samples were analyzed also with each sample and these showed good precision.

These results give us no basis for estimating any deposition of these radionuclides in [redacted] since there are no significant positive values. Our experience at Los Alamos indicates that we should be able to detect a fraction of present permissible internal deposition. I am always somewhat concerned about basing an opinion on only one set of samples or counts even when they are as consistent as these. Results from two or more samples over some period of time do give a better baseline. The negative results of these tests indicate that whatever exposure [redacted] may have had is not sufficient to give us a detectable quantity in urine or by direct counting methods.


Sincerely,



George L. Voelz, M.D.
Health Division Leader

GLV:rmb

cc Mr. William Sellers



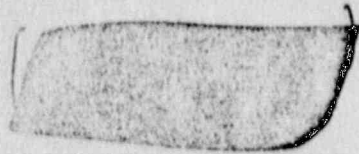
TRONEX
CHEMICALS

RARE EARTH DIVISION

American Potash & Chemical Corporation

228 ANN STREET • WEST CHICAGO, ILLINOIS 60185

April 27, 1970



Re: Film Badge Reading

Dear 

The Atomic Energy Commission requires that you be notified whenever your film badge shows over 1250 millirem of radiation in a quarter of a year. For the first quarter of 1969, your badge showed a total reading of 1270 millirem.

The following wording is required by law:

"This report is furnished to you under the provisions of the Atomic Energy Commission Regulations entitled 'Standards for Protection Against Radiation' (10 CFR 20)".

You should preserve this report for future reference.

Very truly yours,

WCF:jl
cc: B.J.Bennett

W. C. Foulkes
W. C. Foulkes
Safety Engineer and
Radiation Safety Officer

Information in this record was deleted
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A SUBSIDIARY OF KERR-MACGEE CORPORATION

E/2

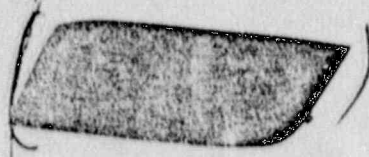
Trona[®]
CHEMICALS

RARE EARTH DIVISION

American Potash & Chemical Corporation

225 ANN STREET • WEST CHICAGO, ILLINOIS 60108

September 14, 1970



RE: Film Badge Reading

Dear 

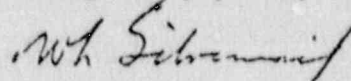
The Atomic Energy Commission requires that you be notified whenever your film badge shows over 1250 millirem of radiation in a quarter of a year. For part of the third quarter of 1970, your badge showed a reading of 1400 millirem.

The following wording is required by law:

"This report is furnished to you under the provisions of the Atomic Energy Commission Regulations entitled 'Standards for Protection Against Radiation' (10 CFR 20)

You should preserve this report for future reference."

Very truly yours,



W. L. Silvernail
Radiation Officer

WLS:j1

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Act, exemptions 6
FOIA- 89-376

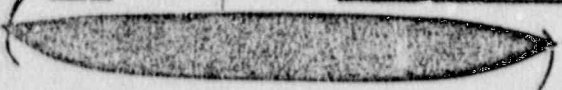


A SUBSIDIARY OF KERR-MCGEE CORPORATION

E/3

Removed from
file 9/16/70 + replaced in
file of corrected
copy

SEPTEMBER 17, 1970

<u>NAME</u>	<u>SOCIAL SECURITY NO.</u>	<u>PERIOD</u>	<u>WHOLE BODY EXPOSURE (MREM)</u>
		3rd Quarter 1970	1400

25. (continued)

instruments include a Victoreen Model 440 and an Eberline Model PAC-40 meter. All instruments are calibrated by the Health Physics Associates consulting firm.

PERSONNEL MONITORING

26. The licensee uses the film badge service of R. S. Landauer Company. All thorium plant production workers are on a weekly schedule and the remainder of personnel may have an occasion to enter in the area where thorium is used or stored is on a monthly schedule. During the recent months, the number of persons assigned to weekly film badges ranged from 25 to 35, while the number of persons at the monthly cycle have ranged from 100 to 110. The film badge reports submitted by Landauer to the licensee for the years 1968, 1969, and the latest ones for 1970, were reviewed during this inspection. For the year 1968, the maximum whole body exposure received by any person during the entire year was 2.98 rem. No person received a whole body exposure in excess of 1.25 rem in any calendar quarter. During 1968, the maximum whole body exposure received by any one person wearing a monthly cycle badge was 3.05 rem. There was one person who received a quarterly exposure during the second calendar quarter of 1.35 rem. This overexposure was reported to the Commission as required. During 1969, the maximum whole body exposure received by any one person on the weekly cycle was 3.60 rem. This person did not receive an exposure in excess of 1.25 in any calendar quarter. During this film badge report review, it was noted that [redacted] received a whole body exposure during the first calendar quarter 1969 of 1.27 rem. This overexposure was never reported to the Commission which constitutes noncompliance with 10 CFR 20.405(a). In addition, the licensee advised that the employee was not notified of this overexposure in writing which constitutes noncompliance with 10 CFR 20.405(b). The licensee representatives and Mr. [redacted] licensee's consultant, advised that they were concerned with this particular person's whole body exposure as evidenced on the badge. In this and a second badge placed on the person during [redacted] of time. They identified the second badge as badge [redacted]

Information received pursuant to
in accordance with the provisions of the
Act, Chapter 6
FOIA 20-426

el/1

26. (continued)

The R. S. Landauer report identifies [redacted] as receiving an exposure of 1.18 rem at the same time [redacted] was showing 1.27 rem. Mr. Rivkin, the consultant, advised that it was he that suggested that the two totals be averaged which came to 1.225 rem for the first calendar quarter. The licensee representatives and Mr. Rivkin were advised that badges like that cannot be averaged. The maximum reading must be accepted as the actual exposure. The film badge reports for 1969 for the monthly cycle badges were all quite low and no person exceeded 1.25 rem for the entire year. For 1970, the weekly badge results have been reported through February 8, 1970, and showed the highest whole body exposure through that time to be 350 millirem. No monthly film badge report has been received for 1970 as yet.

27. The licensee did not perform bioassay sampling, nor do they use dosimeters in their personal monitoring program.

28. All film badges are enclosed within a plastic carrying case to reduce the possibility of contamination.

RADIATION SURVEYS AND/OR EVALUATION

29. As described in the licensee's application dated May 19, 1969, liquid effluent samples are obtained on a daily basis. One quart grab sample is obtained from the overflow hose which drains into the settling pond. The daily samples are put together and is considered a single composite weekly sample. The composite samples are allowed to stand until the solids settle to the bottom of the glass jar. An aliquot of the clear liquid is taken and then evaporated and alpha counted and is considered their soluble sample. After the soluble sample is taken, the composite sample is thoroughly stirred. Another sample is taken which is called total soluble and insoluble. Each of the soluble results are subtracted from the soluble and insoluble combination results to give the final data for the water samples. A review of the licensee's water sample records show that, except for one week in the summer of 1969, all results for both soluble and insoluble had been less than the water concentrations allowed in Appendix B, Table II, 10 CFR 20. During the week of July 7 - 13, 1969, one composite soluble sample showed 2.2×10^{-6} uc/ml.



LORDD REALTORS

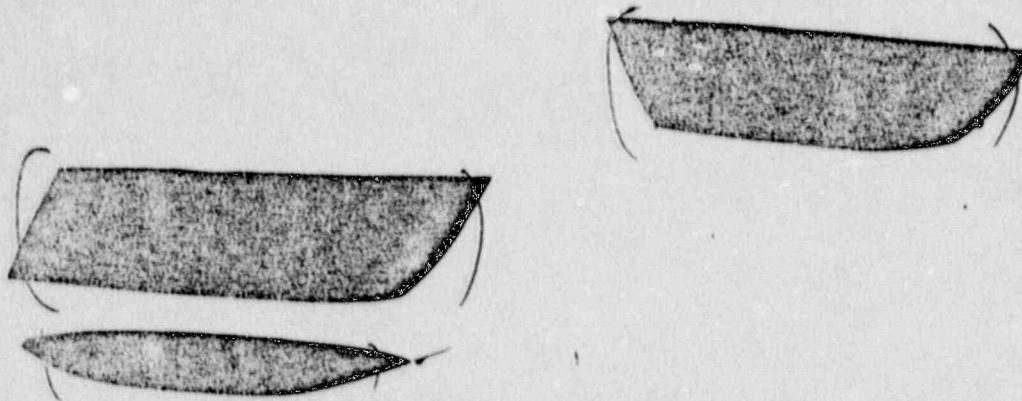
Member of Multiple Listing Service




September 26, 1977

ORVILLE C. HITTMAN
RUTH R. HITTMAN
WALLY SCHWEIGERT
RICHARD LUXON
DAWN S. LUXON
WALTER L. "BUD" CROWLEY
LINDA K. DALL

Annette Brown
George J. Daleiden



Today I visited the City Hall of West Chicago and found that the  Property is zoned residential R-2 as shown on the City's Zoning Map. We have a copy at our office.

I also called the U.S. Nuclear Regulatory Commission, 799 Roosevelt Rd., Glen Ellyn, Ill. 60137. Telephone 858-2660. I talked with a Mr. Lonergan and as far as he could tell me there are no residential restrictions in regards to radio activity in this area. The "danger signs" on the idled factory is a U. S. Government posting procedure and is confined to the building on which the signs are posted.

If further information is desired you may call the USNRC at 858-2660 and ask for Mr. Lonergan or Jan Strasma in the Public Affairs Department.

Sincerely yours,


Sales Associate.

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FOIA- 89-376

4/7

Removed from
K 7008 list 10/8/75
& replaced by
scintigraph cy

APPENDIX

<u>Name</u>	<u>Social Security No.</u>	<u>Age</u>	<u>Whole Body Exposure*</u>
[REDACTED]			1.42 rem

*For period 2nd qtr., 1975.

DAILY REPORT REGION III

DATE 06/23/76

BYL	✓		
WLG	✓		
SAB	✓		
EJA	✓	✓	VG
			MP
			FI

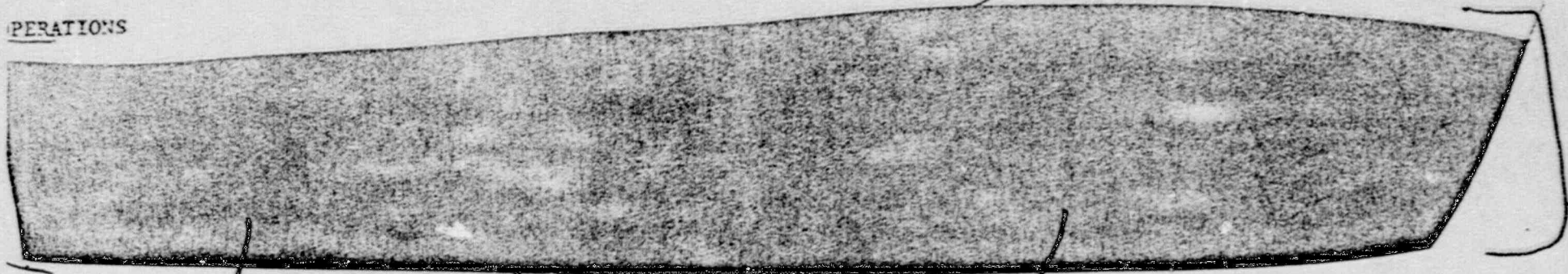
Facility/Licensee

Notification

Item or Event

Regional Action

OPERATIONS



OUTSIDE SCOPE OF REQUEST

F&MS

Kerr-McGee Chemical Corporation
 Chicago, Illinois
 Lic. No. STA-583

IE:III was present as an observer at a meeting between representatives of NRC-OMSS, Kerr-McGee, Illinois EPA and Dept. of Public Health, and ERDA-ANL at the licensee's West Chicago facility on 6/22/76. Topic of meeting pertained to preparation for proposed release of a portion of licensee property to unrestricted use.

Information.

Transmitted
 10:55
 KM

Facility/Licensee FF&MS(continued)	Notification	Item or Event	Regional Action
Waste Treatment Facility Reed-Kepler Park West Chicago, Illinois		The conditions existing at Reed-Kepler Park and the waste treatment facility in West Chicago as of 5:00 p.m. Friday, July 16 are as follows: <ol style="list-style-type: none"><li data-bbox="864 488 1521 611">1. The tennis court has been released to Public use. The radioactive residues were removed and placed in the primary disposal site with in the Park.<li data-bbox="864 650 1572 773">2. The primary disposal area was fenced off and posted by the State of Illinois. The fencing was placed at an approximate 0.1 mR/hr isodose line.<li data-bbox="864 813 1572 867">3. All other areas within the Park have been released for public use.<li data-bbox="864 906 1521 1117">4. The Waste Treatment Facility in West Chicago, has been surveyed. Two areas have been found to be radioactive to levels less than 1 mR/hr. These areas have been roped off and posted. The entire WTF is a permanently fenced facility.	Information.

OUTSIDE SCOPE OF REQUEST

Jude

DAILY REPORT REGION III

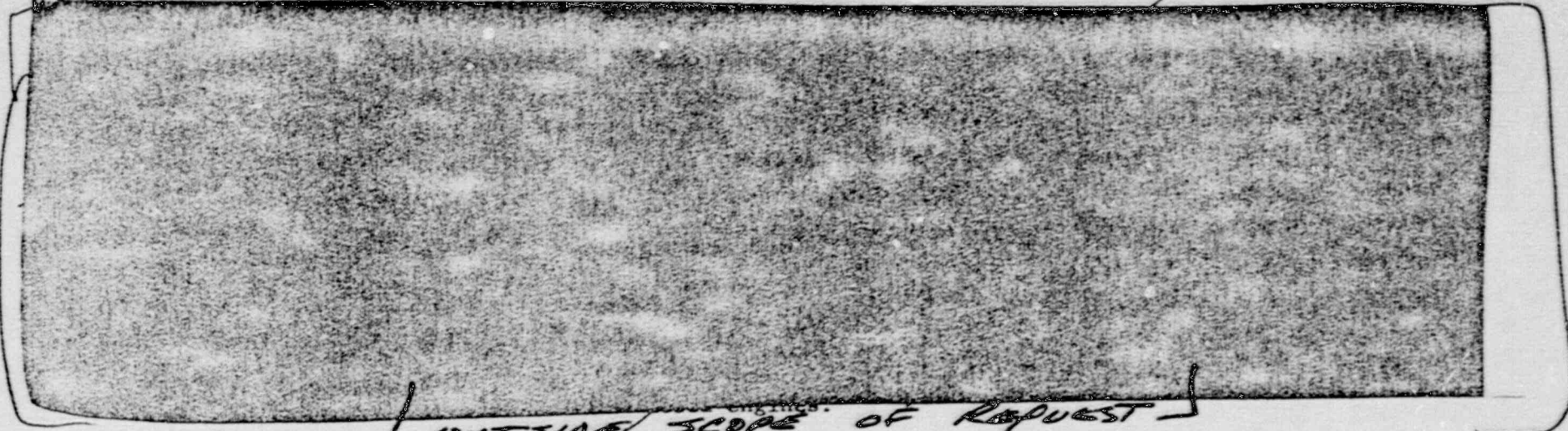
DATE 07/23/76

Facility/Licensee

Notification

Item or Event

Regional Action



OUTSIDE SCOPE OF REQUEST

FF&MS

Kerr-McGee Chemical Corporation
West Chicago, Illinois
Lic. No. STA-583

Meeting in IE:III office's-7/22/76

(Reference Daily Report of 7/21/76.)
Representatives of Licensee Management and their newly acquired consultant Health Physics organization met with IE:III representatives at Region III office's on 7/22/76. The licensee voluntarily agreed not to initiate further decontamination operations until their consultant H. P. organization has reviewed and strengthened the current Health Physics program.

IE:III plans to issue an Immediate Action Letter and review the proposed health physics program when it becomes available.

*Transmitted
10-45
AKK*

September 17, 1970

MA	WEX
GPC	
CF	PTS
HDT	BTC
	FILE

Invert

Gen W. Roy, Acting Chief, Materials Inspection and Enforcement Branch
Division of Compliance, Headquarters

COMPLIANCE INQUIRY MEMORANDUM
AMERICAN POTASH & CHEMICAL CORPORATION
WEST CHICAGO, ILLINOIS, LICENSE NO. STA-583 (40-2061)
REPORT OF FILM BADGE OVEREXPOSURE

Reference letter dated September 16, 1970, from subject licensee in which a report is made of a film badge reading of 1400 mrem for employee [redacted] during the 3rd calendar quarter of 1970. The report indicates the reading may not be a valid personal exposure due to film badge storage practices used by Tonay.

Region III will review this matter during the next scheduled inspection.

James M. Allen
Senior Radiation Specialist

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FOIA- 89-376

OFFICE ▶	CO-III				
SURNAME ▶	Allen	<i>Phillip</i>			
DATE ▶	9/17/70				

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E/4

July 30, 1976

The Honorable Richard J. Truitt, Mayor
City of West Chicago
City Hall
West Chicago, Illinois 60185

Dear Mayor Truitt:

This is in response to recent telephone calls from [redacted] a City of West Chicago employee, to Mr. Jan Strasma of the Regional Office concerning the movement of soil at the Kerr-McGee Chemical Company facility in West Chicago.

As a result of an inspection by this office on July 8, 1976, Kerr-McGee agreed to retrieve soil containing thorium ore residues which had apparently washed into a ditch between the west boundary fence and the railroad tracks at a point adjacent to a large pile of ore residues.

The company has begun the removal of this soil and ore residue from the ditch. The material is being placed within the boundary fence in the area of the existing residue piles.

The agreement of Kerr-McGee to retrieve the material from the ditch is documented in the enclosed letter (Enclosure 1). The NRC Regional Office staff considers Kerr-McGee's actions to be acceptable and responsive. The company is using the same procedures as those utilized in removing the soil adjacent to the tennis courts at Reed-Koppler Park. There have been several inspection visits to the Kerr-McGee plant in the past weeks and further visits are planned to assure that the site is maintained in a manner that complies with NRC regulations and provides adequate protection for the plant's West Chicago neighbors.

As you may have known, Kerr-McGee has been removing processing equipment and decontaminating facilities at the plant for possible turnover to another firm. The facilities cannot be released for unrestricted use without the permission of the NRC, and no such release has yet been authorized. Such NRC authorization would be based on an independent survey by the NRC of radiation levels in the buildings and grounds.

~~82 04 2300 77~~ 2pp

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Act, exemptions 6
FOIA 89-376


OFFICE	IE:III	IE:III	IE:III	IE:III	
SURNAME	Strasma/ms	Fisher	Lonegan	Koppler	
DATE	7/30/76	7/30/76	7/30/76	7/30/76	

E/S

Mayor Richard J. Truitt

- 2 -

During a recent inspection of the decontamination operations, NRC inspectors found certain inadequacies in the monitoring programs for working conditions for employees inside the plant. Kerr-McGee has suspended all decontamination activities and retained a consulting firm to develop an acceptable program for monitoring the working conditions. The company's agreement is documented in a second enclosure.

I hope this letter is responsive to the questions raised by 
If I can be of further assistance, please do not hesitate to call on me or my staff.

Sincerely yours,

James G. Keppler
Regional Director

Enclosures:
As stated

bcc: John G. Davis, Deputy Director
Dudley Thompson, Acting Director, DFO
G. Roy, IE:HQ
J. Fouchard, PAO:HQ
R. Cunningham, NMSS
PDR
Local PDR
Reg Central Files

OFFICE	IE:III	IE:III	IE:III	IE:III		
SURNAME	Strasma/ma	Fisher	Lonergan	Keppler		
DATE	7/30/76	7/30/76	7/30/76	7/30/76		



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

April 28, 1977

Non-Licensee

MEMORANDUM FOR: Region III Files

THRU: G. T. Lonergan, Chief, Materials Radiological
Protection Section

FROM: C. T. Oberg, Radiation Specialist

SUBJECT: INFORMATION CALL
POSSIBLE RADIOACTIVE CONTAMINATION IN
LUMBER OBTAINED FROM WEST CHICAGO, ILLINOIS

On April 27, 1977, an RIII inspector received a telephone call from a [redacted] stating that she had some lumber which may be radioactive. [redacted] stated that her husband obtained the lumber, possibly 2 x 4's and 2 x 6's, from the Optimus Club who had used it for Christmas tree stands. Her husband had made a flower bed with the lumber and now they were concerned about radioactivity. They were told by someone from the Optimus Club that the lumber was originally obtained from West Chicago, possibly from buried waste material.

[redacted] had originally called the Fermi Laboratory who, in turn, referred her to the RIII, NRC.

The RIII inspector asked [redacted] if she knew the location from which the lumber was actually obtained. She stated that she did not. She was asked who told her that the lumber was possibly radioactive and again she did not know the individual except that he/she was from the Optimus Club. She further stated that her husband might know more about the origin and the person who informed them. The RIII inspector asked if she would find out from her husband about these items and advise the inspector, she said she would.

The RIII inspector obtained [redacted] address and telephone number (see opening paragraph) and informed her that she would be contacted in the future and that RIII personnel would possibly check the lumber for her.

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ROR 13-2 E/6

Region III Files

- 2 -

April 28, 1977

The RIII inspector discussed this information call with Dr. John Cooper, another RIII inspector, who lives in the Geneva, Illinois area. Dr. Cooper indicated that he could check the lumber some evening on his way home from the RIII NRC office.

C. T. Oberg

C. T. Oberg
Radiation Specialist

cc: J. M. Allan



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

October 4, 1977

MEMORANDUM FOR: Region III Files

FROM: G. T. Lonergan, Chief, Materials Radiological
Protection Section No. 1

SUBJECT: KERR-MC GEE CHEMICAL CORP., WEST CHICAGO, ILLINOIS
LICENSE NO. STA-583
INQUIRY REGARDING PURPORTED HAZARDS OF LIVING BY THE
KERR-MC GEE, WEST CHICAGO, ILLINOIS PLANT SITE

G. T. Lonergan received a telephone call from a [redacted] of [redacted] of West Chicago [redacted] on 9/26/77. [redacted] was concerned about a sign he saw posted on the door of the Kerr-McGee Chemical Corporation (KMCC) plant on Anne St. in West Chicago indicating Danger - Radioactive Material. His question was, is there any danger? Lonergan explained that the signs were placed on the premises in accord with U. S. Nuclear Regulatory regulations requiring posting and that the signs have been there for quite some time. [redacted] also indicated his concern about people who had been living next to the plant for greater than 20 years. Again, his question was, is there any danger? Lonergan replied that KMCC had been issued a license to carry on their operation by the Nuclear Regulatory Commission and the license has conditions by which the licensee must abide in order to protect the health and safety of himself, his employees and the members of the public. It was also explained that the Nuclear Regulatory Commission inspects against the license conditions and Federal regulations governing safe working conditions with radioactive material and any items of noncompliance are brought to the attention of the licensee.

[redacted] asked about the recent over-flight, and what was found. Lonergan pointed out that the aerial radiation survey of West Chicago had recently been completed and that data gathered is being evaluated by the U. S. Nuclear Regulatory Commission, Argonne National Laboratory and by EG&G, the company which performed the survey. The initial information from the survey indicates that no significant radiation levels were measured that were not previously identified during the NRC investigation of thorium activities in West Chicago. Lonergan pointed out that no deposits similar

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FOIA: 89-376

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E/8

October 4, 1977

to those previously found in Reed-Keppler Park had been identified. [redacted] asked when he could get copies of the results. To this Lonergan replied that upon receipt of final report and evaluation of the results of the aerial survey and the findings of any small scattered locations which were identified during the flight as possible contaminated areas that the results would be made public. He was also told that RIII hopes to meet with the Mayor of West Chicago sometime in the near future and apprise him of the results.

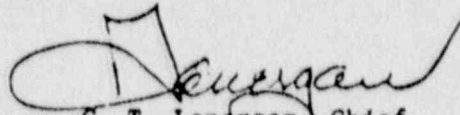
Later in the day, [redacted] a City Engineer for the City of West Chicago called Lonergan. [redacted] indicated that a party who was interested in purchasing property on Brown St. near Kerr-McGee had visited the village hall and inquired about any radiation hazards of living near the Kerr-McGee facility. The reason given for the inquiry was that the bank would not mortgage a piece of property near the area because of a sign on the Kerr-McGee building. Lonergan responded to [redacted] in the same manner as he had replied to [redacted] as indicated above. Foster indicated that the party that contacted him was a woman, no name was given, and he informed her that he would call us for an answer.

On 9/27/77, [redacted] arrived at RIII unannounced, and requested to see G. T. Lonergan. [redacted] indicated to Lonergan that as a realtor he had arranged to sell a piece of property on Brown St. in West Chicago nearby the Kerr-McGee facility. He indicated that the bank (later stated to be Bell Savings in Glen Ellyn) will not make a loan on the property because they indicated to the party who applied for the loan that they saw a danger sign on the Kerr-McGee building nearby.

[redacted] also showed Lonergan a letter which he had prepared on [redacted] Realtors letter head to [redacted] The letter indicated that [redacted] had contacted the U. S. NRC and had talked to Mr. Lonergan. [redacted] characterized his conversation with Lonergan that as far as he could tell there were no residential restrictions in regard to radioactivity in the area, he also characterized Lonergan's statement as the danger signs on the idle factory is a U. S. Government posting procedure and is confined to the building on which the signs are posted. After a short discussion, Lonergan reminded [redacted] that similar signs are required to be posted in the Nuclear Medicine Departments of hospitals, and on shipments of radioactive material that are being transported on our highways. In addition, Lonergan pointed out that the results of the aerial survey and the followup on indicated isolated hot spots was being evaluated by Argonne National Laboratory for the U. S. NRC. Preliminary results from that evaluation has not identified any

October 4, 1977

location outside of Reed-Keppler Park or outside the Kerr-McGee fence wherein an individual could receive in excess of acceptable limits if he should remain in contact with such spots for an entire year. [REDACTED] asked if RIII would prepare a letter pertaining to the safety of the property on Brown St. to Bell Savings, to which Lonergan replied that he thought that such a letter would be improper until the final survey results would be available. With that [REDACTED] seemed satisfied, and took his leave.



G. T. Lonergan, Chief
Materials Radiological
Protection Section No. 1

cc: J. M. Allan
J. A. Pagliaro
C. T. Oberg
R. J. Strasma

Appendix A

Information in this record was deleted
in accordance with the Freedom of information
Act, exemptions 6
FOIA- 89-376

E/9

RESUME

BERT JAMES SMITH

PERSONAL DATA:

Birthdate: [REDACTED]
Place of Birth: [REDACTED]
Marital Status: [REDACTED]
Sex: Male
Age: [REDACTED]

Height: [REDACTED]
Weight: [REDACTED]
Health: [REDACTED]
Social Security: [REDACTED]
Citizenship: [REDACTED]

EDUCATION:

B.S., 1975, Washington State University, Pullman, Washington
Major: Geology

M.S., 1979, Washington State University, Pullman, Washington
Major: Engineering
Thesis Subject: Geophysical and hydrogeologic investigation of the
Moscow-Troy areas, Idaho.

PUBLICATIONS:

Crosby, J. W. III and B. J. Smith, 1976, Geophysical borehole investigation of
the Sundersert Nuclear Project - Blythe Site Specific: Washington State
University, College of Engineering, Research Report 76/15-40.

PROFESSIONAL EXPERIENCE:

6-79 to present	Kerr-McGee Corporation, Engineering Services Division, Oklahoma City, Oklahoma <u>Staff Hydrologist</u> . Manages hydrologic investigations, prepares technical assessments and reports on ground- water problems.
8-78 to 10-78	United States Bureau of Reclamation, Grand Coulee Dam Project, Coulee Dam, Washington <u>Civil Engineering Inspector</u> . Inspect placement and quality of concrete for a canal modification project.
6-78 to 8-78	Washington State University, Civil and Environmental Engineering, Pullman, Washington <u>Supervisor - Resistivity crew</u> . Conducted deep earth resistivity soundings in Latah County, Idaho.
1-78 to 6-78	Washington State University, Civil and Environmental Engineering, Pullman, Washington <u>Teaching Assistant</u> . Responsible for teaching two laboratory sections the instrumentation and field application of: magnetic, seismic, gravimetry, resis- tivity, spontaneous potential, and borehole geophys- ical methods of investigation. CE 524 - Geophysical Engineering.

6-77 to
9-77

Washington State University, College of Engineering
Research, Pullman, Washington
Geophysical Operator (borehole logging). Responsible
for the field borehole logging operations on the MX
missile sitings; Caliente-Tonopah, Nevada sites. Geo-
physical logs include the nuclear and electric logs.

6-76 to
9-76

Washington State University, College of Engineering
Research, Pullman, Washington
Geophysical Operator (borehole logging). Responsible
for the field borehole logging operations on the
Sundesert Nuclear Project - Blythe site specific.
Geophysical logs include the nuclear and electric logs.

6-75 to
9-75

El Paso Natural Gas Company, El Paso, Texas
Geologist. Reconnaissance mapping in SE Alaska. Geo-
chemical soil sampling on a grid. Collected stream
sediment samples for geochemical analysis. Conducted
geophysical surveys.

Edwin Tanner Still

Professional Biography

1. Personal Vitae:

2. Education:

Monroe High School 1950-53.

University of Georgia, Athens, Georgia, D.V.M. 1959. Attendance 1953-59

University of Rochester, Rochester, New York, M.S. 1964. Attendance 1963-64

Course work at University of Georgia consisted of 90 quarter hours of pre-veterinary school requirements in inorganic and organic chemistry, botany, physics, zoology, literature, mathematics, animal sciences, etc., at undergraduate level and approximately 240 quarter hours in the School of Veterinary Medicine.

Course work at the University of Rochester School of Medicine and Dentistry was in radiation biology and consisted of courses in environmental health, nuclear physics, epidemiology, statistics, biological effects of radiation, toxicology, aerosols, health physics, etc.

3. Professional Experience:

- 1959-61 Base Veterinarian, Ellington AFB, Texas
- 1961-63 Base Veterinarian, McGuire AFB, New Jersey
- 1964-67 Research Investigator, Radiobiology Branch, School of Aerospace Medicine, Brooks AFB, Texas
- 1967-69 Senior Research Investigator, Mammalian Radiobiology Section, Biological and Medical Sciences Division, Naval Radiological Defense Laboratory, San Francisco, California
- 1967-69 Air Force Liaison Officer, Naval Radiological Defense Laboratory, San Francisco, California
- 1969-75 Technical Representative, Biomedical Programs, Division of Biomedical and Environmental Research, U.S. Atomic Energy Commission, Washington, D.C. (Energy Research and Development Administration)

- 1975-76 Chairman, Radiation Biology Department, Armed Forces Radiobiology Research Institute, Bethesda, Maryland 20014
- 1976-78 Research Program Coordinator, Armed Forces Radiobiology Research Institute, Bethesda, Maryland 20014
- 1979-82 Assistant to the Director (Biomedical Effects), Defense Nuclear Agency, Washington, D.C. 20305
- 1982-83 Senior Physical Scientist, Corporate Medical Department, Environment and Health Management Division, Kerr-McGee Corporation, Oklahoma City, Oklahoma 73125
- 1983-84 Vice President, Environmental Affairs, Environment and Health Management Division, Kerr-McGee Corporation, Oklahoma City, Oklahoma 73125
- 1984 to Present Vice President and Director, Environment and Health Management Division, Kerr-McGee Corporation, Oklahoma City, Oklahoma 73125

4. Professional Affiliations:

American Veterinary Medical Association
 D.C. Veterinary Medical Association
 Oklahoma Veterinary Medical Association
 Sigma Xi
 Health Physics Society

5. Military Service:

U. S. Air Force, September 1959-October 1979. Retired, Colonel

6. Papers and Abstracts:

- (1) "The Effect of Massive Doses of 32 MeV Protons and ⁶⁰Cobalt Gamma Radiation on Serum Enzyme Levels of Whole-Body Irradiated Primates," G.V. Dalrymple, I. L. Lindsay, J. J. Ghidoni, H. L. Kundel, and E. T. Still. SAM-TR-65-22, 1965.
- (2) Ibid, Journal of Nuclear Medicine, 6, 588-593, August 1965.
- (3) "Some Effects of Whole-Body 32 MeV Proton Irradiation on Primates," G. V. Dalrymple, I. L. Lindsay, J. J. Ghidoni, H. L. Kundel, and E. T. Still, R. Jacobs, R. Hall, G. Williams, and I. L. Morgan. SAM-TR-65-43, 1965.
- (4) "Early Physiologic Changes in Primates Following Mixed Gamma-Neutron Pulsed Radiation," E. A. Rice, D. S. Sawyer, E. T. Still, and S. E. Beard. SAM-TR-65-31, 1965.

- (5) "Clinical Aspects of Proton Irradiation," G. V. Dalrymple, I. L. Lindsay, J. J. Ghidoni, H. L. Kundel and E. T. Still, Abstract, 13th Annual Meeting, Radiation Research 25, May 1965.
- (6) "Some Effects of Whole-Body 32 MeV Proton Irradiations on Primates," G. V. Dalrymple, I. Lindsay, J. J. Ghidoni, H. L. Kundel, E. T. Still, R. Jacobs, and I. L. Morgan. Radiation Research 28, 406-433, 1966.
- (7) "Dose-Rate Effect on Acute Mortality of Mice Following 138 MeV Proton or 2 MeV X-Ray Irradiation," J. E. Traynor and E. T. Still. Abstract, 15th Annual Meeting, Radiation Research Society, May 1967.
- (8) "Dose-Rate Studies with Sheep and Swine," E. J. Ainsworth, N. P. Page, J. F. Taylor, G. F. Leong, and E. T. Still. In Proceedings of a Symposium, "Dose Rate in Mammalian Radiation Biology," 29 April - 1 May 1968, U. of Tenn., AEC, Agriculture Research Laboratory, Oak Ridge, Tennessee.
- (9) Ibid, NRDL-TR-68-96, June 1968.
- (10) "Reexamination of Biological Recovery Rates and Equivalent Residual Doses," G. F. Leong, E. J. Ainsworth, J. F. Taylor and E. T. Still. In Proceedings of a Symposium, "Radiological Protection of the Public in a Nuclear Mass Disaster," Inter-laken, Switzerland, 26 May - 1 June 1968.
- (11) "Acute Mortality and Recovery Studies in Burros Irradiated with 1 MrP X-Rays," E. T. Still, N. P. Page, J. F. Taylor, W. G. Wisecup, E. J. Ainsworth and G. F. Leong. NRDL-TR-68-101, September 1968.
- (12) "Dose-Rate Effect on LD50 (30) in Mice Exposed to ⁶⁰Cobalt Gamma Irradiation," J. E. Traynor and E. T. Still, SAM-TR-68-97, October 1968.
- (13) "Hematological Response in Sheep Given Protracted Exposures to ⁶⁰Cobalt Gamma Radiation," E. T. Still, S. T. Taketa, E. J. Ainsworth, G. F. Leong, and J. F. Taylor, NRDL-TR-69-6, January 1969.
- (14) "Survival Time and Hematological Response in Sheep Subjected to Continuous Gamma Irradiation," E. T. Still, J. F. Taylor, G. F. Leong, and E. J. Ainsworth. Abstract, 17th Annual Meeting, Radiation Research Society, May 1969.
- (15) "Survival Time and Hematological Responses in Sheep Subjected to Continuous ⁶⁰Cobalt Gamma Irradiation," E. T. Still, J. F. Taylor, G. F. Leong, and E. J. Ainsworth, NRDL-TR-69-28, June 1969.

- (16) "Mortality of Sheep Subjected to Acute and Subsequent Protracted Irradiation," E. T. Still, J. F. Taylor, G. F. Leong, and E. J. Ainsworth, NRDL-TR-69-32, January 1969.
- (17) "Acute Lethality and Recovery of Goats after 1 MvP X-Irradiation," J. F. Taylor, E. T. Still, N. P. Page, G. F. Leong, and E. J. Ainsworth. NRDL-TR-69-32, January 1969.
- (18) "The Effect of Exposure Rate on Radiation Lethality in Swine," J. F. Taylor, E. T. Still, E. J. Ainsworth, and G. F. Leong. NRDL-TR-69-96, July 1969.
- (19) "The Influence of the Amount of Initial Radiation Exposure on the Recovery Pattern in Sheep," E. T. Still, J. F. Taylor, G. F. Leong, and E. J. Ainsworth, NRDL-TR-69-97, July 1969.
- (20) "Acute Mortality and Recovery Studies in Burros Irradiated with 1 MvP X-Rays," E. T. Still, N. P. Page, J. F. Taylor, W. G. Wisecup, E. J. Ainsworth, and G. F. Leong. Radiation Research 39 580-593 (1969).
- (21) "Inter-Laboratory Comparison of Mortality of Sheep Exposed to Cobalt Gamma Rays," T. S. Mobley and E. T. Still. Joint AFWL-TR-69-48 (1969).
- (22) "Acute Lethality and Recovery of Goats after 1 MvP X-Irradiation," J. F. Taylor, E. T. Still, N. P. Page, G. F. Leong, and E. J. Ainsworth. Radiation Research 45, 110-126 (1971).
- (23) "Vulnerability of Livestock to Fallout Gamma Radiation," E. T. Still and N. P. Page. In Proceedings of a Symposium on Survival of Food Crops and Livestock in the Event of Nuclear War, Brookhaven National Laboratory, Upton, New York. AEC Symposium Series 24, 648-655 (December 1971).
- (24) "Environmental Effects of Nuclear Industry," E. T. Still, General Topical Session at the 45th Annual Meeting of the South Carolina Academy of Science, March 23-25, 1972. Bulletin of the S. C. Academy of Sciences, XXXIV, 48-54, 1972.
- (25) "Factors Modifying the Response of Large Animals to Low-Intensity Radiation Exposure," N. P. Page, and E. T. Still, In Proceedings of the National Symposium on Natural and Man-made Radiation in Space, Las Vegas, Nevada, March 1-5, 1971. NASA TM Z-2440, 622-632 (January 1972).
- (26) "Radon Daughters Research and Litigation Issues," E. T. Still and J. C. Stauter. American Mining Congress Annual Meeting, Phoenix, Arizona, September 1985.

7. Representative Presentations of Academic Nature

- (1) Lecturer in Radiation Biology, Health Physics, and Radiation - Standards for U.S. Air Force School of Aerospace Medicine in courses for: Flight Medical Officers Training; Flight Nurses Training; Allied Officers Advanced Medical Training; NASA Astronaut Training; Medical Service Corps Engineer Training; and Laboratory Animal Medicine Graduate Course for Veterinarians (1964-67).
- (2) Lecturer on Laboratory Animal Models for Biomedical Research for Laboratory Animals Training Course, Animal Health Division, Agricultural Research Service, U.S. Department of Agriculture (1970).
- (3) Lecturer on Low-Dose Ionizing Radiation for military physicians course of the Medical Effects of Nuclear Weapons at Armed Forces Radiobiology Research Institute (1979).
- (4) Lecturer on Fertile Women and Occupational Radiation Exposure Considerations, AFRRRI (1976).
- (5) Lecturer on Development of Nuclear Weapons History-Policy-Docctrine for Uniformed Services University of Health Sciences (1978).
- (6) Symposium Session Chairman and Working Group Chairman on Fallout-Radiation Effects on Livestock at Brookhaven National Laboratory, New York for Symposium entitled, "Survival of Food Crops and Livestock in the Event of Nuclear War" (1971).

8. Representative Participation on Committees, Interagency Panels, Groups

- (1) Member, Interdepartmental Committee on National Blood Program Research (1972-73).
- (2) Liaison member, Hematology Study Section, National Institutes of Health (1971-75).
- (3) Member, Joint Technical Coordinating Group for Munitions Effectiveness - Ad Hoc Working Group For Medical and Environmental Evaluation of Depleted Uranium, and contributor to Special Report (1973-74).
- (4) Member of special committee convened by Assistant Secretary of Army to perform a Hazard Evaluation of the Use of Depleted Uranium Penetrators, and contributor to report on biological effects and dose rates (1978-79).
- (5) Invited Scientific Reviewer for Energy Research and Development Administration Research Programs on Internal Emitters (1976).

- (6) Expert witness for Puerto Rico Water Resources Authority, Commonwealth of Puerto Rico, at Environmental Quality Board hearing on radiation effects of nuclear power plants (1972).
- (7) Designated U.S. Air Force expert consultant on medical effects of depleted uranium to the Department of State for meetings with NATO allies (1978).
- (8) Member, Radiation Safety Audit and Inspection Team for Enewetak Atoll (1978-79).
- (9) DoD representative to Science Working Group of the Inter-agency Task Force on the Health Effects of Ionizing Radiation (1978-79).
- (10) Designated DoD representative to Interagency Committee on Transuranic Element Soil Contamination Guidelines (1976-79).
- (11) Designated DoD member of Interagency Committee on Federal Research into the Biological Effects of Ionizing Radiation (1979).
- (12) Designated DoD member of the Committee for Development of the Federal Strategy for Research into the Biological Effects of Ionizing Radiation (1979).
- (13) Member, Committee on Metabolism and Dosimetry of High - LET Radionuclides, U. S. Environmental Protection Agency National Workshop on Radioactivity in Drinking Water (1983-84).
- (14) Member, National Environmental Studies Project Taskforce, Atomic Industrial Forum, Washington, D.C. (1983-85).
- (15) Member, Task Group on Uranium Mining and Milling - Radiation Safety Programs, National Council on Radiation Protection and Measurements, Bethesda, Maryland (1984 to present).

ETS-2/27/85

DATE THIS RECORD COMPLETED

August 15, 1984



NAME: Mark S. Krippel

JOB TITLE: Health Physicist EFFECTIVE DATE: October 1, 1981

DEPARTMENT AND WORK LOCATION: Health Physics Department - West Chicago Facility

ORGANIZATIONAL UNIT OR SUBSIDIARY OF KERR-MCGEE CORPORATION ORIGINAL EMPLOYMENT DATE: Kerr-McGee Chemical Corp. January 12, 1981

BRIEF DESCRIPTION OF PRESENT DUTIES/RESPONSIBILITIES:

PHOTOGRAPH DATE: AUGUST, 1984

II. EDUCATION LEVEL ACHIEVEMENTS

INSTITUTION	DEGREE & YEAR	PRINCIPAL COURSE OF STUDY
Bradley University	B.S., 1979	Biology

III. CONTINUING EDUCATION
List special courses, institutes, college courses, and trade schools which are relative to your qualifications

INSTITUTION	DATES	DESCRIBE STUDIES OR TRAINING
K-M West Chicago	1/12/81	Radiation Worker Training
Georgia Institute Technology	5/4-15/81	Radiation Protection Short Course
Home Study	5/81	Rockwell Radiation Protection
West Chicago Facility		
Asbestos Handling Training	5/27/81	Asbestos Handling
K-M West Chicago	8/21/81	Fire Protection Seminar
K-M West Chicago	5/27/82	Multimedia Standard First-Aid
K-M West Chicago	6/16/82	Fire Protection Seminar
K-M West Chicago	8/8/83	Red Cross CPR
UTHSC San Antonio	1/9-13/84	Radiation Safety Officer's Course

HIGHEST LEVEL OF EDUCATION ATTAINED (Circle one only)

PRIMARY GRADES: 1 2 3 4 5 6 7 8

HIGH SCHOOL: 1 2 3 4

COLLEGE: 1 2 3 4

GRADUATE STUDIES: X

COMPLETE REVERSE SIDE

Health Physics Society

Midwest Chapter Health Physics Society

-IV-

**PERSONAL
ACHIEVEMENTS**

- List by number
- 1. Patents
- 2. Publications
- 3. Licenses
- 4. Societies
- 5. Professional Organizations
- 6. Other activities which you consider significant.

-V-

EMPLOYMENT EXPERIENCE

Start with present company position and list every position, including those with Kerr-McGee or its Subsidiaries, since graduation or for the last 15 years, whichever is most recent.

COMPANY AND WORK LOCATION	POSITION RESPONSIBILITIES	MONTH & YEAR	
		BEGINNING	ENDING
Will County, Il. Health Dept.	Epidemiologic Assistant - Epidemiologic Studies	1/80	1/81
Kerr-McGee Chemical Corp.	Associate Health Physics Technician	1/81	7/81
Kerr McGee Chemical Corp.	Health Physics Technician	7/81	5/83
Kerr-McGee Chemical Corp.	Senior Health Physics Technician	5/83	10/83
Kerr-McGee Chemical Corp.	Health Physicist	10/83	



DATE THIS RECORD COMPLETED
August 24, 1984

NAME: Walter Harris

JOB TITLE: On-Site Project Manager EFFECTIVE DATE: 12-01-80

DEPARTMENT AND WORK LOCATION: West Chicago Facility

ORGANIZATIONAL UNIT OR SUBSIDIARY OF KERR-MACKEY CORPORATION ORIGINAL EMPLOYMENT DATE: RMCC - Chemical Operations 02-25-57

BRIEF DESCRIPTION OF PRESENT DUTIES/RESPONSIBILITIES:
Responsible for decontamination, demolition and stabilization of the old West Chicago Facility in a timely, cost efficient and safe manner.

PHOTOGRAPH DATE: AUGUST, 1984

II - EDUCATION LEVEL ACHIEVEMENTS	INSTITUTION	DEGREE & YEAR	PRINCIPAL COURSE OF STUDY
	Illinois Institute of Tech Chicago, Illinois	CHE/1943	Chemical Engineering
	Case College	1943	Advanced Organic Chemistry
	U.S. Navy	ETM/1944	12-month Course: Electricity Sonar, Radar Receivers, etc.

III - CONTINUING EDUCATION List special courses, insti- tutes, college courses, and trade schools which are re- lative to your qualifications	INSTITUTION	DATES	DESCRIBE STUDIES OR TRAINING
	Industrial Eng. Seminar	1960	Establishing maintenance procedures. 3-Week Work Sampling - Work simplification
	Trona, California	1962	Cost Reduction
	Engineering Seminar	--	Pert Diagrams
	Plant Engineering Seminar	--	Fork Truck Maintenance

HIGHEST LEVEL OF EDUCATION ATTAINED (Circle one only)

1 2 3 4 5 6 7 8 1 2 3 4 1 2 3 (4) GRADUATE STUDIES X

COMPLETE REVERSE SIDE

IV. PERSONAL ACHIEVEMENTS

- 1 Patents
- 2 Publications
- 3 Licenses
- 4 Societies
- 5 Professional Organizations
- 6 Other activities which you consider significant.

5. Previous member of American Institute of Plant Engineers

5. Member of Rotary International

V. EMPLOYMENT EXPERIENCE

Start with present company position and list every position, including those with Kerr-McGee or its Subsidiaries, since graduation or for the last 15 years, whichever is most recent.

COMPANY AND WORK LOCATION	POSITION RESPONSIBILITIES	MONTH & YEAR	
		BEGINNING	ENDING
Kerr-McGee Chemical Corp. West Chicago, Illinois	On-Site Project Manager - duties - responsible for the decontamination, demolition and stabilization of the West Chicago Project.	12/80	Present
Kerr-McGee Nuclear Corp. Gore, Oklahoma	Manager - Maintenance & Construction - Managed a work crew of 42 persons and was responsible for Stores, Facility Maintenance and also coordinated labor skills required for Engineering Construction & Modification Projects.	02/72	12/80
Kerr-McGee Chemical Corp. West Chicago, Illinois	Manager - Maintenance & Construction - Manager - Plant Engineering - Department consisting of Maintenance, Power Plant, Stores and Engineering	02/57	1971
		1971	02/72

BIOGRAPHICAL DATA

DATE THIS RECORD COMPLETED

11-3-82



PHOTOGRAPH IN THIS SPACE

Scott C. Munson

I. PRESENT POSITION	Manager, Quality Assurance	EFFECTIVE DATE 7-2-81
	DEPARTMENT AND WORK LOCATION West Chicago Facility	
	ORGANIZATIONAL UNIT OR SUBSIDIARY OF KERR-MCCLELL CORP. OR ORIGINAL EMPLOYMENT DATE KMCC - Chemical Operations	10-01-82
	BRIEF DESCRIPTION OF PRESENT DUTIES/RESPONSIBILITIES Establishing and maintaining an effective Quality Assurance Program for the West Chicago Project.	

PHOTOGRAPH DATE

II. EDUCATION LEVEL ACHIEVEMENTS

INSTITUTION	DEGREE & YEAR	PRINCIPAL COURSE OF STUDY
North Dakota State University	BS - 1975	Civil Engineering

III. CONTINUING EDUCATION

List special courses, institutes, college courses, and trade schools which are relative to your qualifications

INSTITUTION	DATES	DESCRIBE STUDIES OR TRAINING
Colorado State Univ.	1976	Spring Semester - "Air Pollution Control"
John Hopkins Univ.	1976	One Week - "Medical Use of Radionuclides"
USNRC - Denver, Colo.	1976	One Week - "Radiological Emergency Response Planning"
Oak Ridge Assoc. Univ.	1977	Ten Weeks - "Health Physics & Radiation Protection"
USNRC - Glen Ellyn, IL	1977	One Week - "Inspection Procedures Course"
USNRC - Silver Springs, MD	1977	Two Weeks - "Orientation in Regulatory Practices & Procedures"
USNRC - Glen Ellyn, IL	1977	Two Weeks - "On-Job Inspection Training"
Louisiana State Univ.	1978	One Week - "Safety Aspects of Industrial Radiography"
USNRC - Nevada Test Site	1979	Two Weeks - "Radiological Emergency Response"
University of Lowell	1982	One Week - "Internal Radiation Dosimetry"
University of Lowell	1982	One Week - "Certification Review for H.P."

HIGHEST LEVEL OF EDUCATION ATTAINED (Circle one only)

1	2	3	4	5	6	7	8	1	2	3	4	1	2	3	(4)	GRADUATE STUDIES X
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COMPLETE REVERSE SIDE

- 3. - Passed E.I.T. Exam for North Dakota in 1975.
- Passed Part I of American Board of Health Physics Exam in 1982.

**IV
PERSONAL
ACHIEVEMENTS**

- 1. List by number
- 2. Patents
- 3. Publications
- 4. Licenses
- 5. Societies
- 6. Professional Organizations
- 7. Other activities which you consider significant

- 4. - Member of the Health Physics Society.

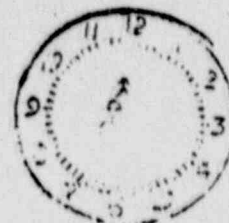
V

EMPLOYMENT EXPERIENCE

Start with present company position and list every position, including those with Kerr-McGee or its Subsidiaries, since graduation or for the last 15 years, whichever is most recent.

COMPANY AND WORK LOCATION	POSITION RESPONSIBILITIES	MONTH & YEAR	
		BEGINNING	ENDING
KMCC-West Chicago	Manager, Quality Assurance	7/81	Present
KMCC-West Chicago	Health Physicist	10/79	7/81
North Dakota State Health Department	Manager, Radiation & Noise Control Programs	09/77	10/79
North Dakota State Health Department	Environmental Engineer, Radiation & Noise Programs	12/75	09/77

JUN 07 '83 AM





Kerr-McGee
Engineering Services

BRAD L. SNOW
Hydrologist, Geological Engineer

Mr. Snow has experience in groundwater hydrology, geotechnical engineering and construction cost estimation. This experience is related primarily to waste disposal activities associated with coal and uranium mining and chemical plants. It includes groundwater contamination studies and monitoring, evaluation of disposal and remedial action options, water resource investigations, geotechnical aspects of waste management and

computer applications. He has estimated the cost of constructing a hazardous waste landfill and of reclaiming a uranium mill tailings pile. Field experience has been gained in geologic logging and sampling, geophysical surveying, land surveying and monitoring well installation. Mr. Snow received B.S. and M.S. degrees in Geological engineering from the University of Missouri-Rolla with an emphasis in soil and rock engineering and hydrology.

SUMMARY OF EXPERIENCE

Kerr-McGee Corporation
(1982 to date)

Hydrologist

Estimated costs of decommissioning a chemical plant including the land disposal of low-level radioactive waste. Estimated the costs of reclaiming a uranium mill tailings pile. Determined leachate seepage quantities expected from a coal mine tailings pond with various design considerations. Designed and installed groundwater monitoring wells. Evaluated potential groundwater contamination associated with uranium and coal mining refuse disposal, oil and gas and chemical production. Investigated possible sources of water to supply an underground coal mine. Designed and analyzed groundwater pumping tests for aquifer hydrologic properties. Computer-modeled drainage effects of open mine ventilation holes on an aquifer. Compared the effectiveness of a slurry wall cut-off with ditch pumpage in preventing groundwater contamination from a

tailings pond. Evaluated stability of overburden soil and salt formation beds in proposed solution mining project. Analyzed potential of hydraulic fracturing in solution mining injection wells.

SHELL MINING

(1981)

Coordinated drilling program to determine roof, coal and floor rock properties for coal mine site selection.

U.S. CORPS OF ENGINEERS

(1980)

Logged and sampled soil and rock for geotechnical site investigations. Conducted electrical resistivity survey to locate naturally saline groundwater pollution.

JIM WALTER RESOURCES

(1978)

Prepared a proposal for a methane drainage system in an underground coal mine, including cost estimation and technical specifications.

CITY OF

KANSAS CITY, MISSOURI

(1977)

Surveyed city sewers and roads.

RESUME

JAMES LUCIUS GRANT

EDUCATION: Ph.D., Civil Engineering, (Hydraulics, Hydrology)
 Georgia Institute of Technology
 M.S., Applied Mathematics
 Georgia Institute of Technology
 B.E., Civil Engineering
 Georgia Institute of Technology
 B.S., Applied Mathematics
 Georgia Institute of Technology

PROFESSIONAL MEMBERSHIP:

American Geophysical Union
American Water Works Association

PROFESSIONAL REGISTRATION:

Professional Engineer in Georgia, Kentucky,
Colorado, Wyoming, Nevada
Land Surveyor in Georgia

CAREER SUMMARY

Dr. Grant has more than 15 years of experience in civil engineering and hydrology. Prior to practicing engineering, he was a mathematical analyst for a major defense contractor for almost four years.

Dr. Grant has conducted numerous investigations requiring surface and ground water hydrology and geotechnical engineering expertise. He has supervised the design, operation, and licensing of hazardous and nuclear waste disposal sites, the water supply and accident analysis of numerous nuclear and conventional power plants, the design of ground water supply systems, and the design of subsurface injection systems. He has authored more than 100 technical publications and reports on statistical analysis and surface and ground water hydrology.

WASTE MANAGEMENT AND DISPOSAL

Dr. Grant has provided technical direction and consultation in waste management and disposal in all areas of the country. His experience spans all aspects of geotechnical considerations in the disposal of nuclear and hazardous waste, and includes site selection and characterization, design and performance evaluation, and the development of site closure and monitoring programs.

SURFACE AND GROUND WATER HYDROLOGY

Dr. Grant has broad experience in many aspects of surface and ground water hydrology. Specific experience includes the evaluation of surface and ground water supplies, ground water protection and contamination studies, geochemical studies, surface water hydraulics, and dam and reservoir design.

DESIGN AND MANAGEMENT OF SUBSURFACE INVESTIGATIONS

Dr. Grant has managed many projects requiring investigation and testing of subsurface conditions. Representative projects include investigations in the southeast, midwest, and Gulf Coastal areas, as well as investigations in the Rocky Mountain areas of Colorado and Utah, and the desert areas of Nevada.

NUMERICAL SIMULATION

Dr. Grant has more than 20 years experience in the design, coding and use of numerical models for the simulation of various systems. His experience includes performance simulation of various C5-A missions, and the design and coding of a simulation of the air defense mission of AWACS. Dr. Grant has extensive experience in modeling the hydraulic behavior of surface and ground water systems, and in modeling the movement of contaminants through the ground water system.

KERR-McGEE CORPORATION
PUBLIC RELATIONS DEPARTMENT

This information will be used by Public Relations in wide employee bulletins and in news releases on new managerial personnel as well as in other standing positions with Kerr-McGee

DATE: April 9, 1981
 Internal Only
 External Only
 Both
 DATE JOINED KERR-McGEE: July 12, 1968

PERSONNEL INFORMATION

NAME OF EMPLOYEE: Frank D. Lyons

NAME OF TITLE OF POSITION: President, Engineering Services Division
 LOCATION OF NEW POSITION: Oklahoma City, Oklahoma

REPORTS TO: President, Kerr-McGee Corporation, F. A. McPherson
 DATE OF CHANGE: September, 1979

NEW DUTIES - BRIEFLY:
 Executive engineering management through vice president, Hydrology; vice president, Mining and Milling (includes Mine Contractors); and vice president, Project Management for Kerr-McGee Corporation

FORMER POSITION IN KERR-McGEE: Director, Corpus Christi Project
 DIVISION AND DEPARTMENT: Refining - Southwestern Refining C
 LOCATION OF FORMER POSITION: Oklahoma City, Oklahoma
 DATE: June, 1978 - September, 1979

OTHER POSITIONS HELD IN KERR-McGEE:
 Vice President, Operations - Chemical Corporation, Okla. City, Okla. April, 1976 - January, 1978
 Director, Argus Project - Chemical Corporation, Okla. City, Okla. March, 1972 - June, 1978
 Executive Vice President - Moss American Tie Co., Okla. City, Okla. July, 1968 - March, 1972

PREVIOUS EXPERIENCE (Name of agency, title, dates of service):
 Principal, Howard-Samis-Lyons, Architects-Engineers, Okla. City, Okla. June, 1967 - July, 1968
 Director, Oklahoma Highway Department, Okla. City, Okla. February, 1961 - June, 1967
 Missouri Highway Department, Jefferson City, Missouri, Senior Engineer, 1950-1961

EDUCATION (University, degrees if received, year obtained):
 Springfield Senior High School - 1944; Drury College, Springfield, Missouri, A.B. Mathematics - 1948; Missouri School of Mines, B.S. Civil Engineering, Rolla, Missouri - 1950; University of Missouri-Rolla, Civil Engineer - 1965.

PROFESSIONAL SOCIETY MEMBERSHIPS:
Present Memberships
 National Society of Professional Engineers; Oklahoma Society of Professional Engineers; Fellow-American Society of Civil Engineers (Past President, Oklahoma Section); Society of American Military Engineers (Past President and Director of Oklahoma City Post); Chi Epsilon Civil Engineer Fraternity; Academy of Civil Engineers, University of Missouri-Rolla; National Defense Executive Reserve (Ex Officio).
Past Memberships
 American Roadbuilders Association (National Director); American Public Works Association (Top 10 in U. S. Award, 1965); American Association of State Highway Officials (Executive Committee, Chairman of Emergency Planning Committee); Mississippi Valley Highway Officials Association (President); Ozarks Regional Commission (Oklahoma representative); National Highway Research Board (Panel Administration Chairman).

OTHER INFORMATION (Use Reverse Side if Space Available)

Resume of:

WILLIAM J. SHELLEY

PERSONAL INFORMATION

Age:
Date of Birth:
Height:
Weight:
Health:
Marital Status:

MILITARY: January 1943 to March 1946

Assigned to Medical Corps, January 1943 to July 1944. Assigned to Quartermasters Corps, July 1944 to March 1946, as petroleum products laboratory technician. Assigned to Western Pacific area May 1945 to March 1946.

EDUCATION

Elementary education in Wichita, Kansas public schools. Received BS ChE in February 1948 and MS ChE in February 1949 from the University of Michigan, Ann Arbor.

After Army service, supported self with teaching and research fellowships and miscellaneous work in summers.

WORK HISTORY

March 31, 1984 - Retired

1979 - 1984 - Kerr-McGee

Established a Division of Health and Environmental Management. Position was changed to Vice President, Nuclear Licensing and Regulation, this included responsibility for all activities involving use of radioactive materials: i.e., well logging sources and thorium.

1976 to 1979

With the termination of the Cimarron Fuel Fabrication Plant and further integration of the Nuclear Corporation organization, assumed the responsibility for work relating to mines and mills. Responsible to management for maintaining awareness of all regulations and proposed regulations, recommending technical programs to forestall onerous and stringent requirements and methods of meeting requirements.

June 1971 to 1979 - Kerr-McGee Nuclear Corporation (formerly Nuclear Div.)

Director, Regulation and Control - Responsible for representing corporation with all Federal, State and Local regulatory agencies; License activities and environmental reports and discussions with USNRC; Monitoring, reporting and discussions with Department of Health and Water Quality Control Board. Responsible to management for monitoring

WORK HISTORY (Continued)

operations for license and regulation compliance. Proposing improved processes and equipment and reviewing all changes to equipment and procedures. Serve as corporation representative on industry committees.

Responsible for management of Quality Assurance, Laboratory and Nuclear Safety groups. Supervision, personnel selection and evaluation, selection and approval of methods and equipment for chemical and physical measurements are included.

September 1969 to June 1971 - Assistant to Group Vice President. The Nuclear Division General Manager was replaced by a senior Kerr-McGee executive with no prior nuclear industry experience and many organizational assignments were changed including my own. Provided advice and recommendations on all problems of operational management. These have included problems of production scheduling, cost forecasting and control, material and quality control, engineering and equipment modification. During startup of the new conversion plant, functioned as relief of the plant and production managers during their vacations.

May 1967 to September 1969 - Manager of Manufacturing. Responsible for operation of uranium fuels plant located north of Oklahoma City involving the production of commercial fuel element pellets and powder, enriched uranium aluminum alloys for test reactor fuel, and recovery of enriched scrap for Atomic Energy Commission and government contracts.

Participated with corporation engineering and architect-engineering firm in design of \$20,000,000 concentrate to UF₆ conversion facility located in eastern Oklahoma. Developed plans for staffing, start-up, and operation of facility upon completion of construction.

Supervised the design and construction of plutonium-uranium mixed oxide fuel plant located at Oklahoma City site. Developed planning for start-up training and operation on initial fuel element contract.

December 1964 to May 1967 - Mallinckrodt Chemical Works - Uranium Division Vice President

August 1966 to May 1967 - Mallinckrodt Chemical Works - Uranium Division Assistant to Vice President, Industrial Chemicals Division - Served in staff capacity to Marketing Division Manager with responsibilities for closer integration of sales forecasting, technical service and product development, during transition period.

Participated in termination of Uranium Division operation and placing the Weldon Spring plant in standby. Plant operation terminated December 1966 and operating contract terminated July 1967. Termination involved

WORK HISTORY (Continued)

final negotiations with U.S. Atomic Energy Commission, pension and insurance carriers.

September 1961 to August 1966 - Division Manager

Responsible for the operation of chemical refining and metal fabrication facilities owned by the United States Atomic Energy Commission as Weldon Spring, Missouri. Responsible to USAEC for operation of \$50,000,000 production facility in accordance with plans formulated in cooperation with AEC and other uranium processing contractors. Annual operating budget of approximately \$10,000,000, employing 500 people with a payroll of \$4,000,000. Responsible for planning and directing applied research in progress and product improvement to meet changing requirements of consumer sites.

Division was autonomous with its own staff and service departments except sales and marketing activities. Operating contract was a fully integrated cost-plus fixed-fee type, reporting to Oak Ridge Operations Office through an Area Office in St. Louis. Responsible to parent company management for satisfactory performance under contract and close coordination of personnel placement and training activities with parent company.

1956 to 1962 - Continuously participated in or directed application of data processing systems to Division activities. These direction responsibilities included the evaluation of needs via feasibility studies, purchase of equipment, and implementation of systems. The objective of the Division was a completely integrated management information system for the Division's needs.

Division safety record included three calendar years of accident-free performance. Record at termination was 600 days and 1,800,000 man-hours. Several National Safety Council awards to Division for these years. Personnel decreased from 850 to 500 during period.

February 1961 - Assistant Division Manager

April 1960 - Director of Administration

Responsible for activities of production control, administration services, accounting, and purchasing departments.

October 1955 to December 1959 - Production Control Manager - Responsible for production scheduling, production reporting and material accountability functions, including technical responsibility for determining sampling and assaying programs for feed materials and product. Developed design

WORK HISTORY (Continued)

criteria of sampling plant. Responsible for preparation and justification of operating budget including construction and process development.

September 1951 to October 1955 - Administrative Assistant - Responsible for the operation of Division purchasing, office services, material accountability and classification sections. Participated in operating contract administration and responsible for production scheduling and cost estimation.

February 1949 to September 1951 - Project Engineer - Assignments in construction, research and development, plant start-up, and miscellaneous administrative activities. Responsible for construction of laboratory, investigation of continuous denitration processes, and shift supervisor during start-up of hydrofluorination plant.

RESUME

William J. Ganus
VICE PRESIDENT, ENGINEERING SERVICES
KERR-McGEE CORPORATION

EDUCATION

University of Texas	Austin	B.S.	Geology	1958
University of Arizona	Tucson	M.S.	Hydrology	1965
University of Arizona	Tucson	Ph.D.	Hydrology	1972

PROFESSIONAL EXPERIENCE

6 years Vice President, Engineering Services, Kerr-McGee Corporation, Oklahoma City, Oklahoma

3 years Corporate Hydrologist, Kerr-McGee Nuclear Corporation, Oklahoma City, Oklahoma

4 years Assistant/Associate Professor, Department of Geological Sciences, San Diego State University; granted tenure; and Consultant in Hydrology to six geotechnical firms in San Diego, California

5 years Lecturer, Department of Hydrology, University of Arizona; and Associate in Harshbarger and Associates, Consultants in Hydrogeology, Tucson, Arizona

2 years Hydrogeologist, J. M. Montgomery Inc., Consulting Engineers, Pasadena, California

5 years Exploration Geologist, Standard of Indiana, Farmington, New Mexico

PROFESSIONAL MEMBERSHIP

Geological Society of America
National Water Well Association
American Association for Advancement of Science
Sigma Xi

PROFESSIONAL REGISTRATION - Geologist

Arizona #1703
California #3200
Georgia #547

BIBLIOGRAPHY

Authored or co-authored approximately 60 professional reports on geology and hydrology for industry and consulting firms. Additionally, 10 papers or abstracts of presentations published in professional periodicals.

CURRICULUM VITAE

Robley D. Evans

4 April 1975

Place and date of birth

Education

- 1928 California Institute of Technology - B.S. in physics
1929 California Institute of Technology - M.S. in physics
1932 California Institute of Technology - Ph.D. in physics

Professional positions

- 1929-1931 Director of research laboratory - C. F. Braun Company
1932-1934 National Research Council Fellow, University of California, Berkeley
1934-1938 Assistant professor, Massachusetts Institute of Technology
1938-1945 Associate professor, Massachusetts Institute of Technology
1945-1972 Professor of physics, Massachusetts Institute of Technology and
Director, Radioactivity Center, M.I.T.
1972-pres. Professor of Physics, Emeritus, M.I.T., and Consultant to the
Radioactivity Center, M.I.T.
1973-pres. Special Project Associate, Mayo Clinic, Rochester, Minnesota

Awards

- 1937 Theobald Smith Medal and Award in the Medical Sciences, American
Association for the Advancement of Science
1948 Presidential Certificate of Merit - application of radioactive isotopes
to war problems performed outside the Manhattan Project
1959 Distinguished Achievement Award, Hollywood High School Alumni Association
1963 Hull Award and Gold Medal, American Medical Association
1966 Silvanus Thompson Medal, British Institute of Radiology

Nonindustrial consultantships

- 1944-1946 Consultant, Office of Scientific Research and Development, Division 19
1945-pres. Consultant in Biophysics, Peter Bent Brigham Hospital
1946-1947 Expert consultant, Department of State
1947-1949 Expert consultant, U. S. Department of the Army
1947-1955 Consultant, Brookhaven National Laboratory
1948-1964 Consultant, Health Division, Los Alamos Scientific Laboratory
1948-1973 Consultant in Physics, Massachusetts General Hospital
1949-1954 Expert consultant to Secretary of Defense on medical aspects of atomic
warfare, National Military Establishment, Research and Development Board
1949-1956 Consultant, Army Medical Center, Walter Reed Hospital
1950-1972 Consultant, Division of Biology and Medicine, U. S. Atomic Energy Commission
1952-1969 Consultant, U. S. Naval Radiological Defense Laboratory
1959-pres. Advisor to Massachusetts Institute of Technology Medical Department
on radiation protection problems
1960 Consultant, National Bureau of Standards
1961-1971 Consultant, U. S. Public Health Service
1962-1969 Consultant to Surgeon General, Department of the Army
1964-1968 Advisor to University of Chicago
1965-1969 Consultant, Federal Radiation Council

Nonindustrial consultantships (cont.)

- 1965- Consultant, Roger Williams Hospital, Providence, Rhode Island
1967 Consultant, Office of Aviation Medicine, Federal Aviation Administration,
U. S. Dept. of Transportation
1967-1974 Consultant, Blood Research Institute
1972-1975 Consultant, Division of Biomedical and Environmental Research, U. S. Atomic
Energy Commission
1975- Consultant, Division of Biological + Environmental Research, Energy Research and
Development Administration
- Committees, boards, panels, elective offices in scientific societies
- 1938-1946 Chairman, Committee on Standards of Radioactivity, National Research
Council
1940 Chairman, International Conference on Applied Nuclear Physics, Cambridge
1941 Member, National Bureau of Standards Advisory Committee on Safe
Handling of Radioactive Luminous Compound (NBS Handbook No. 27)
1944-1951 ASA Subcommittee on Radium Dust and Radon Gas, 237
1946-1969 Chairman, Subcommittee on Shipment of Radioactive Substances,
National Research Council
1946-1972 Vice Chairman, Committee on Nuclear Science, National Research Council
1947-1953 Member, Mixed Commission on Radiobiology, International Union of Pure
and Applied Physics
1948-1951 Member, Joint Commission on Standards, Units, and Constants of
Radioactivity, International Council of Scientific Unions
1948-1953 Member, AEC Advisory Committee on Isotope Distribution; Chairman, 1952-1953
1948-1949 Vice chairman, New England Section, American Physical Society
1949-1950 Chairman, New England Section, American Physical Society
1950-pres. Member, Committee on Isotopes, Massachusetts General Hospital
1951-1955 Member, Joint Commission on Radioactivity, International Council of
Scientific Unions
1953-1955 Member, Aircraft Nuclear Propulsion Medical Advisory Group
1955- Member, Massachusetts Institute of Technology Committee on Radiation
Protection
1957 Member, Massachusetts Department of Labor and Industries Advisory
Committee on Rules and Regulations of Radiation Protection
1957-pres. Member, Relative Hazard Factor Subcommittee, National Committee on
Radiation Protection and Measurements
1959- Member, Massachusetts Institute of Technology Committee on
Radioisotope Utilization
1959-pres. Member, Committee on Shipment of Radioactive Substances, American
Standards Association
1962-1967 Member, NAS-NRC Subcommittee on Symbols, Units, and Nomenclature of
Committee on Nuclear Science
1962-1965 Councillor, Physics, Radiation Research Society
1962-1964 Member, Ad Hoc Advisory Committee on Radiation Pathology, Armed
Forces Institute of Pathology
1963-1966 Chairman, Committee on Education, Radiation Research Society
1963-1969 Scientific Advisory Board, CRI, New Eng. Deaconess Hospital
1963-1966 Member 1963, Chairman 1964, NAS-NRC Panel 231 Advisory to NBS on
Radiation Physics
1964-1968 Member, Review Committee for Radiological Physics Division, Argonne
National Laboratory; Chairman 1967-1968
1964-1972 Member, Clinical Research Center Policy Committee, Massachusetts
Institute of Technology
1964-pres. Member, Isotopes Committee, Peter Bent Brigham Hospital
1964-1967 Chairman, ICRU Task Group on High Energy (≥ 100 MeV) and Space
Radiation Dosimetry

Committees, boards, panels, executive offices in scientific societies (cont.)

- 1965-1971 Council Member, National Council on Radiation Protection and Measurements; honorary member 1975-
- 1965-1968 Member, Board of Directors, Health Physics Society
- 1965-1966 Vice President, Radiation Research Society
- 1965-1966 President-Elect, Radiation Research Society
- 1966-1967 President, Radiation Research Society
- 1966- Consultant, Committee 2, ICRP Task Group to review Commission recommendations concerning radon, thoron, and their daughter products
- 1965-1968 Member, Visiting Committee for the Medical Dept., Brookhaven National Laboratory
- 1966 Senior U. S. Delegate to International Association for Radiation Research, Cortina, Italy
- 1966-1968 Chairman, Board of Visitors, U. S. Naval Radiological Defense Laboratory
- 1966-1969 Member, Organizing Committee, U. S. National Committee for the Second International Conference on Medical Physics
- 1 Dec. 1966-15 Apr. 1967 - Visiting Professor of Physics, Arizona State University, Tempe, Arizona
- 1967 Chairman, FAA Standing Committee for Radiation Biology Aspects of the Supersonic Transport (SST)
- 1967-1969 Member, USAFSAM and NASA ad hoc Committee on Electron Therapy
- 1968-pres. Vice Chairman, Advisory Committee, U. S. Transuranium Registry
- 1968-~1970 Member, NAS Committee on Radioactive Waste Management
- 1971- Member, Arizona Atomic Energy Commission Technical Advisory Committee
- 1971-1972 President Elect, Health Physics Society
- 1972-1973 President, Health Physics Society
- 1972-pres. Chairman, Advisory Committee to Center for Human Radiobiology, Argonne National Laboratory, Chicago

Certifications

- 1961 Certified Health Physicist, American Board of Health Physics

Editorships

- 1941-1943 Associate editor, Journal of Applied Physics
- 1944 Associate editor, Medical Physics, Yearbook Publishers, Inc. (Otto Glasser, ed.)
- 1948-1953 Member, editorial advisory board, Cancer
- 1955-1969 Member, editorial board, International Journal of Applied Radiation and Isotopes
- 1959-1962 Editor in Physics, Radiation Research
- 1962-pres. Member, Editorial Advisory Board, Mt. Washington Observatory News Bulletin
- 1962-1970 Member, Health Physics, editorial advisory board
- 1963-1966 Editorial Board, Physics in Medicine and Biology

Professional societies:

American Physical Society (fellow), American Association for the Advancement of Science (fellow), American Academy of Arts and Sciences (Life fellow, 1945), American Association of Physics Teachers, American Nuclear Society, American Association of Physicists in Biology and Medicine, American Industrial Hygiene Association, Health Physics Society, Radiation Research Society, Sigma Xi, Tau Beta Pi, Phi Kappa Delta, American Roentgen Ray Society (associate), New England Roentgen Ray Society (honorary), Royal Scientific and Literary Society, Goteborg, Sweden (honorary foreign), New York Academy of Sciences (fellow), Society of Nuclear Medicine (honorary).

Publications

Author or co-author of over 200 scientific papers on nuclear physics, statistics, interaction of radiation in matter, medical physics, radiation standards, biological effects of radiation, industrial applications of radiation and of radionuclides, and other topics in pure and applied radioactivity in Physical Review, Review of Scientific Instruments, Medicine, Nucleonics, American Journal of Roentgenology Radium Therapy and Nuclear Medicine, New England Journal of Medicine, Reviews of Modern Physics, Acta de l'Union Internationale contre le Cancer, British Journal of Radiology, Science, Health Physics, etc.

Author of the textbook on nuclear physics and nuclear radiation, The Atomic Nucleus, 972 pp., McGraw-Hill Book Co., Inc., New York, 1955.

Author of chapters in various other books, such as "Compton Effect" from Handbuch der Physik, pp. 218-298 (1958); "Statistical Fluctuations in Nuclear Processes" from Methods of Experimental Physics, pp. 761-806 (1963); "Interaction of α and β Particles with Matter" from Some Aspects of Internal Irradiation, pp. 381-396 (1962); "Gamma Rays" from American Institute of Physics Handbook, pp. 8-81 - 8-106 (1963). Co-author of "Measurements of the Effects of Atmospheric Variables on Radon-222 Flux and Soil-Gas Concentrations" from The Natural Radiation Environment, pp. 191-215 (1964). Author of "Fundamentals of Radioactivity and Its Instrumentation" from Advances in Biological and Medical Physics, pp. 151-221 (1948); "Isotopes: Radioactive; Measurement" from Medical Physics, pp. 643-658 (1944); "Radioisotopes and Their Radiations" from Nuclear Medicine, pp. 1-24 (1965); "X-ray and γ -ray Interactions" from Radiation Dosimetry, pp. 93-155 (1968); "Radiogenic Tumors in the Radium and Mesothorium Cases Studied at M.I.T.", in Delayed Effects of Bone-seeking Radionuclides (1969), "Radiogenic Effects in Man of Long-Term Skeletal Alpha-Irradiation", in Radiobiology of Plutonium (1972), and others.

HOWARD E. KREMERS



EDUCATION:

Western Reserve University, 1939
A.B. Degree in Chemistry
Geology Minor

Syracuse University, 1941
M.S. in Chemistry

University of Illinois, 1944
Ph.D. in Inorganic Chemistry
Organic Chemistry and Geology Minors

PROFESSIONAL
EXPERIENCE:

1982 to Present
Consultant to Kerr-McGee Chemical Corporation

1982
Retired from Kerr-McGee Chemical Corporation,
West Chicago, Illinois.

1972 to 1982
Director, Marketing Services
Kerr-McGee Chemical Corporation, Oklahoma City,
Oklahoma.

1970 to 1972
Manager, Marketing Services
Kerr-McGee Chemical Corporation, Oklahoma City,
Oklahoma.

1969 to 1970
Manager, Market Research and Development
American Potash and Chemical Corporation,
Oklahoma City, Oklahoma.

1959 to 1969
Manager, Market Development
American Potash and Chemical Corporation
New York, New York.

1953 to 1959
Vice President, Market Development
Lindsay Chemical Company

PROFESSIONAL
EXPERIENCE
(continued)

1957 to 1958

Secretary
Lindsay Chemical Company
West Chicago, Illinois

1956 to 1957

Technical Assistant to the President
Lindsay Chemical Company
West Chicago, Illinois

1946 to 1956

Director of Research
Lindsay Chemical Company
West Chicago, Illinois

1944 to 1946

Chemist
Lindsay Chemical Company
West Chicago, Illinois

PERSONAL

ACHIEVEMENTS: U.S. Patent 2,900,231

About 35 publications in the period 1941 to 1974, largely in rare earths -- both general and specific -- including chapters in recognized chemical handbooks on rare earth and thorium technology.

Membership in many professional societies in the field of glass and ceramics, chemistry, and related subjects.

Member, Chemists Club, New York, New York.

Considerable experience and expertise in technical service, advertising and promotion, development of markets for new products.

BIOGRAPHICAL DATA

DATE THIS RECORD COMPLETED
February 27, 1985

(STAPLE A RECENT PHOTOGRAPH IN THIS SPACE)

I - PRESENT POSITION	NAME Ivan L. Denny	
	JOB TITLE Manager - West Chicago Project	EFFECTIVE DATE 1-1-85
	DEPARTMENT AND WORK LOCATION Chemical Operations - Oklahoma City, Okla.	
	ORGANIZATIONAL UNIT OR SUBSIDIARY OF KERR-MCGEE CORPORATION Kerr-McGee Chemical Corporation	
ORIGIN OF EMPLOYMENT DATE 1-1-65		ORIGINAL EMPLOYMENT DATE
BRIEF DESCRIPTION OF PRESENT DUTIES/RESPONSIBILITIES Manages the stabilization project for the West Chicago Facility which is under Nuclear Regulatory Commission's jurisdiction.		

PHOTOGRAPH DATE

II - EDUCATION LEVEL ACHIEVEMENTS	INSTITUTION	DEGREE & YEAR	PRINCIPAL COURSE OF STUDY
		Iowa State University Ames, Iowa	BS '64

III - CONTINUING EDUCATION List special courses, institutes, college courses, and trade schools which are relative to your qualifications	INSTITUTION	DATES	DESCRIBE STUDIES OR TRAINING
		O.U. Center for Continuing Education	1967
	Kerr-McGee Corporation	1973	Basic Management Principles Course
	Kerr-McGee Corporation	1976	Performance Improvement Seminar
	Ammerman Enterprises, Inc.	1981	Electronic Media Seminar

HIGHEST LEVEL OF EDUCATION ATTAINED (Circle one only)	PRIMARY GRADES								HIGH SCHOOL				COLLEGE				GRADUATE STUDIES
	1	2	3	4	5	6	7	8	1	2	3	4	1	2	3	(4)	X

**-IV-
PERSONAL
ACHIEVE-
MENTS**

- List by number
1. Patents
2. Publications
3. Licenses
4. Societies
5. Professional Organizations
6. Other activities which you consider significant.

National Fertilizer Solutions Association - Kerr-McGee Rep. 1972.
 Kerr-McGee Advisor for Junior Achievement, 1972-1973-1974.
 Kerr-McGee Executive Advisor for Junior Achievement, 1978-1979.
 Member, United Methodist Church, Serving on Administrative Board, Board of Trustees, and Finance Committee.
 Past Member Junior Chamber of Commerce.
 Member of Chamber of Commerce.
 Case #740 - Company Patent pending for "Methods for Reducing the Amount of Particles Which Become Airbourne During Either or Both the Dismantling and Moving of Structures".

**-V-
EMPLOYMENT EXPERIENCE**

Start with present company position and list every position, including those with Kerr-McGee or its Subsidiaries, since graduation or for the last 15 years, whichever is most recent.

COMPANY AND WORK LOCATION	POSITION RESPONSIBILITIES	MONTH & YEAR	
		BEGINNING	ENDING
K-M Chemical Corp. - OKC	Manager - West Chicago Project	1-85	Pres
K-M Chem Corp. - OKC	Manager - Special Projects	6-82	1-85
K-M Chem Corp. - OKC	Manager - New Products	9-80	6-82
K-M Chem. Corp. - OKC	Manager - Special Projects	10-79	8-80
K-M Chem. Corp. - OKC	Director, Phosphate Operations	4-78	10-79
K-M Chem. Corp. - OKC	Assistant Director, TREP	1-78	4-78
K-M Chem. Corp. - OKC	Manager, Manufacturing	12-75	1-78
K-M Chem. Corp. - OKC	Mgr., Equipment Maintenance & Distribution	12-70	12-75
K-M Chem. Corp. Madison, Wisconsin	Supervisor, Operations & Maintenance	10-68	12-70
K-M Chem. Corp. - OKC	Operations & Maintenance-Supervisor	9-66	10-68
KMCC - Des Moines, IA	Operations & Maintenance-Specialist	1-65	9-66
Self Employed - Farmer Hendrick, IA	Farming	3-64	1-65
Iowa State University Ames, IA	Student & Graduated	6-59	2-64

FOR ED JUZWIAK

GLOSS GUARD & INVESTIGATION SERVICE, INC.
INCIDENT REPORT

410

DATE OF REPORT 3/2/79	TIME <input checked="" type="checkbox"/> AM <input checked="" type="checkbox"/> PM	ALL OF THE FOLLOWING QUESTIONS MUST BE ANSWERED IN THE NARRATIVE: WHO, WHAT, WHERE, WHEN, WHY & HOW.	
1. NATURE OF INCIDENT DISCHARGE OF EMPLOYEE	2. LOCATION OF INCIDENT	3. TIME	4. DATE 3/7
5. CLIENT COMPANY KERR MCGEE	6. ADDRESS WEST CHICAGO	7. NOW ASSIGNMENT RECEIVED PHONE <input type="checkbox"/> CITIZEN <input type="checkbox"/> ON	
REPORTED BY: NAME GUARD CAPT SPAD	ADDRESS Gloss SECURITY Service		
PERSON(S) INVOLVED: LIST NAMES, ADDRESSES & PHONE NUMBERS: 1. CAPT SPAD GLOSS SECURITY 2. MR'S GARRIS GLOSS SECURITY 3. SUBJECT			
WITNESS(ES): LIST NAMES, ADDRESSES & PHONE NUMBERS:			
NARRATIVE: DESCRIBE INCIDENT & ACTION TAKEN The ABOVE SUBJECT was a new employee, subject was in client premises on 3/2/79 to break in for duty. Mrs Garris showed subject the job routine. Mrs Borrowed subject car to go up town upon fire alarm he found Capt Spaid at the plant. Capt's said found evidence that subject smothered some Pat. Capt Spaid discharged subject and escorted him off the property. Capt Spaid gave Mrs notice that if subject returned Mrs would call police & have the subject arrested. The subject returned later Mrs called police, when the police arrived subject had left area. Mrs turned over small			
C/D 1048 (Rev. 11/77)			REPORTING OFFICER

Continued on Reverse:



Information in this record was deleted in accordance with the Freedom of Information Act, exemptions 5 & 89-326

Plante Bag of Pot + Pipe to Police.

on 3/8/79 Kris showed Subject Car jacket in Court
Green hpts Spud + Police arrived searched Meas. At 7:30
arrived. We were called by Police that Subject was at

West Chgo Police Station 117th St + 1st Special Unit to P.D.
After conference with Police Officers, it was our decision
not to press charges on the Subject. He was warned
not to go near the Plant or we would seize a hundred
for Criminal Trespass. The subject claimed he received ten
ten dollars in the reason he came back to the plant today

It was my decision to quietly resolve the
incident or to avoid any publicity for the Glass Agency
or the Client Company.

Arthur D. Shea Pres.

REPORTING OFFICER

GLOSS GUARD & INVESTIGATION SERVICE INC.

INCIDENT REPORT

Assigned from Rpt 7700 Exhibit B of Apat

DATE 4/26/79

TIME 6:00 AM PM

TO Kerr McGee

LOCATION 258 Ann St West Chicago

WHAT HAPPENED

I WAS TAKING A WALK OUT FRONT OF THE BUILDING WHEN I WALKED OVER TO THE RR TRACKS TO LOOK AT THE SIDE OF THE BUILDING WHEN I SAW TWO KIDS WALKING THEIR BIKES DOWN THE ROAD TOWARDS ANN ST WHEN THEY CAME UP TO WHERE I WAS STANDING WHEN I ASKED WHAT THEY WERE DOING ON THE PROPERTY. THEN THEY TOLD ME THAT THEY GOT NOCKED DOWN BY TWO MALES WHO JUMPED OVER THE FENCE BY THE RR TRACKS AND THEN RAN OVER THE RR TRACKS AND RAN AWAY AND THEN THE POLICE WERE CALLED and officer Handel and Car
6pm DATE 4/26/79

WHEN

WHERE

ICERA MCGEE FACTORY
258 Ann St
West Chicago

WHO WAS INVOLVED OR PRESENT
NAME
ADDRESS

West Chicago Police
Officer Handel and

GUARDS REPORT OF INCIDENT AND WHO WAS NOTIFIED AT THE AGENCY

I THEN CALLED THE OFFICE AND TALKED TO CAPTIAN SPRID and asked what I should do

RESPECTFULLY SUBMITTED

Information in this record was deleted in accordance with the Freedom of Information Act, exemptions 6

FOIA- 89-376

Christopher W Gaddis #A229
Guard
SIGNATURE & RANK

3 COPIES TO BE SUBMITTED: ONE TO CLIENT
ONE TO AGENCY
ONE TO LOG FILE

E/it

4/27/79



GLOSS GUARD & INVESTIGATION SERVICE INC.

INCIDENT REPORT

DATE April 30, 1979
TIME 8:30 AM _____ PM _____

TO Kerr McGee

LOCATION 254 ANN ST WEST CHICAGO

WHAT HAPPENED	AT 8:30 PM 4/30/79 I OBSERVED  RIDING A XL 125 RED & ORANGE HONDA IN THE FIELD AREA, SOUTH OF KERR MCGEE'S MAIN PLANT AREA, OUTSIDE OF THE FENCED AREAS. HE THEN WENT NORTH ALONG THE RAILROAD RIGHT OF WAY TO ANN ST., I STOPPED HIM AND FOUND HE HAD NO DRIVERS LIC., NO VEH. LIC. AND NO TAIL LIGHT. I ASKED MY OFFICE TO HAVE WEST CHICAGO PD. MEET ME AT THE TRUCK AREA.
WHEN	APRIL 30, 1979 MONDAY 8:30 PM
WHERE	KERR MCGEE WEST CHICAGO, ILL
WHO WAS INVOLVED OR PRESENT NAME ADDRESS	
GUARDS REPORT OF INCIDENT AND WHO WAS NOTIFIED AT THE AGENCY	THE OFFICER AND I WARNED HIM OF HIS VIOLATIONS AND ABOUT TRUSS PASSES ON KERR MCGEE PROPERTY & THE RAILROAD RIGHT OF WAY.

RESPECTFULLY SUBMITTED

Carl David
SIGNATURE & RANK

3 COPIES TO BE SUBMITTED: ONE TO CLIENT
ONE TO AGENCY
ONE TO LOG FILE

File 51.100

GLOSS GUARD & INVESTIGATION SERVICE INC.

INCIDENT REPORT

TO: Kona McBee Chemical +
Gloss Guard + Invest. LOCATION: Kona - McBee Chemical

DATE: 4/30/79
TIME: 3:30 AM PM

WHAT HAPPENED

OBSERVED 2 MORE JUVENILE SUBJECTS
AROUND FENCE AREA ON WEST-SIDE
OF PLANT BETWEEN RAIL-ROAD TRACKS
& ADJACENT TO FENCE = 100 FT.
S/O NORTH SIDE OF BUILDING

WHEN

4/30/77

WHERE

SEE ABOVE

WHO WAS INVOLVED
OR PRESENT
NAME
ADDRESS

JUVENILE SUBJECTS #1. 

GUARDS REPORT
OF
INCIDENT AND WHO
WAS NOTIFIED
AT
THE AGENCY

LOGGED ON LOG SHEET
[Handwritten signature]

RESPECTFULLY SUBMITTED

[Handwritten Signature]
SIGNATURE & RANK

3 COPIES TO BE SUBMITTED: ONE TO CLIENT
ONE TO AGENCY
ONE TO LOG FILE

840
5/10/79

GLOSS GUARD & INVESTIGATION SERVICE INC.

INCIDENT REPORT

DATE 5/3/79

TIME 2:30 AM PM

TO V. M. P. 2581 477 1/2 Cling LOCATION

WHAT HAPPENED
The Guard was making his 2.00 clock round when he saw two Guys walking inside the Building and the Guard asked them what they were doing in the Building and they said they were looking around when I said come up to the office with me and they took off and ran away from me then the Guard called the police and the police came and said leave the property

WHEN
2 P.M

WHERE
25th Ave. St

WHO WAS INVOLVED OR PRESENT
NAME
ADDRESS


GUARDS REPORT OF INCIDENT AND WHO WAS NOTIFIED AT THE AGENCY
called Claren. at Gloss Office

RESPECTFULLY SUBMITTED

Christopher W. Madala A229
SIGNATURE & RANK

3 COPIES TO BE SUBMITTED: ONE TO CLIENT
ONE TO AGENCY
ONE TO LOG FILE

05/10/79

MEMORANDUM

File in
Kerr McGee
File

SAUTIZED CV INTS US

October 26, 1979

TO: I. L. Denny

FROM: S. C. Munson

SUBJECT: High School Student Trespassing at the
Kerr McGee Chemical Corp. West Chicago Facility

On October 25, 1979, [redacted] was found leaving the intermediate site area at approximately 4:15 pm. [redacted] was taken to the office area of Building No. 12 and surveyed with an Eberline PAC-4G alpha survey instrument. [redacted] was found to have contamination of approximately 1000 dpm on his hands and 1600 dpm on his shoes. No contamination was found on his clothing. [redacted] was asked to remove his shoes and wash his hands, which he did. We were told by [redacted] that he was 15 years old and lived at [redacted] in West Chicago with his brother and sister-in-law, [redacted]. An attempt was made to contact his guardians, but they could not be reached.

At this time Carl Paperiello with the U.S. Nuclear Regulatory Commission, Region III Office, Glen Ellyn, Il., was contacted and informed of the situation. Dr. Paperiello was interested in knowing the area which the youth had been in, the radiation field in this area, and what time he spent there. A survey conducted later during the day indicated levels of about 0.06 mR/hr at three (3) feet from the ground surface and 0.07 to 0.08 mR/hr at six (6) inches above the surface. [redacted] stated that he was in the site for 2 to 3 minutes.

Mr. I. L. Denny was informed of the incident and was asked how we should proceed at this point. After discussing the situation with Kerr McGee personnel, Mr. Denny described how we should handle this situation and similar incidents in the future.

[redacted] shoes were washed and found to be adequately decontaminated when re-surveyed. [redacted] was given his shoes and allowed to leave the facility at about 5:15 pm. His guardians were contacted and informed of the incident.

S. C. Munson
S. C. Munson

cc: G. J. Sinke
Dr. Carl Paperiello ←

Information in this record was deleted
in accordance with the Freedom of Information
Act, exemptions 6
FOIA- 89-376

NOV 1 1979

E/12



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

DEC 14 1979

Dr. George L. Voelz
Health Division Leader
Los Alamos Scientific Laboratory
Mail Stop 400
P.O. Box 1663
Los Alamos, NM 87545

*Replaced in
file by sanitized
copy*

Dear Dr. Voelz:

This is to confirm the arrangements discussed on December 11, 1979, by W. L. Fisher of this office regarding whole body counting [redacted] former employee of Kerr-McGee. We understand that, at no cost to [redacted] Kerr-McGee, or NRC, you will perform whole body counts and bioassay analyses to determine whether [redacted] has a significant burden of plutonium. The results should be provided in writing to [redacted] attorney (Mr. Bill Sellers), and to NRC RIII (W. L. Fisher).

We have arranged through Mr. Sellers for [redacted] to arrive at Los Alamos on January 7, 1980, in time for an afternoon count and to leave Los Alamos on January 8, 1980, upon completion of your measurements. Please obtain him a motel reservation at Los Alamos for the night of January 7.

We have asked Kerr-McGee to send you a copy of whole body count, bioassay, and nasal smear data, etc. obtained during [redacted] employment.

We appreciate your willing assistance in this matter.

Sincerely,

James G. Keppler
Director

Enclosures:

1. Ltr Keppler to Sellers
dtd 12/14/79
2. Ltr Keppler to Sinke
dtd 12/14/79

cc w/enclosures:

Mr. Bill Sellers
Mr. G. J. Sinke
Kerr-McGee Nuclear Corporation
Mr. J. H. Sniezek
Nuclear Regulatory Commission

Information in this record was deleted
in accordance with the Freedom of Information
Act, exemptions 6

FOIA 89-376

RIII *WLD*
Fisher/jg
12/13/79

asa
RIII
Davis

E/13

JK
RIII
Keppler

8204150096-1p



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

DEC 14 1979

Mr. Bill Sellers
P.O. Box 1404
Sapulpa, OK 74066

Dear Mr. Sellers:

Enclosed is a copy of a letter to Dr. George Voelz, Los Alamos Scientific Laboratory, confirming arrangements to examine [redacted] on January 7 and 8, 1980.

Dr. Voelz suggests that [redacted] fly to Albuquerque, rent a car, and drive to Los Alamos, about ninety miles north of Albuquerque. He should arrive at Los Alamos by early afternoon on January 7 and proceed to the Health Research Laboratory located next to the Los Alamos Medical Center. The receptionist will contact Dr. Voelz. Upon completion of the examination on January 8, he should return to Albuquerque and fly back to Oklahoma.

Upon completion of the trip, he should submit his airline ticket stub, car rental receipt, and motel receipt to Mr. Sinke of Kerr-McGee for reimbursement.

Although you have given oral authorization to Mr. A. B. Davis of my staff in a telephone conversation of December 11, 1979, to release Dr. Voelz's examination results to Kerr-McGee, I request that you provide us a statement, signed by [redacted] granting this authorization.

If you have any questions in this matter, please contact Mr. A. B. Davis of my staff.

Sincerely,

James G. Keppler
James G. Keppler
Director

Enclosures:

1. Ltr Keppler to Voelz
dtd 12/14/79
2. Ltr Keppler to Sinke
dtd 12/14/79

cc w/enclosures:

Dr. G. L. Voelz
Los Alamos Scientific
Laboratory
Mr. G. J. Sinke
Kerr-McGee Nuclear Corporation
Mr. J. H. Sniezek
Nuclear Regulatory Commission

8204230021 lp.



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

DEC 14 1979

Mr. G. J. Sinka
Kerr-McGee Nuclear Corporation
Kerr-McGee Center
Oklahoma, OK 73102

Dear Mr. Sinka:

Enclosed are copies of letters to Dr. George Voelz, LASL, and Mr. Bill Sellers, attorney, arranging for [redacted] to be examined by Dr. Voelz on January 7 and 8, 1980.

We understand that you will provide Dr. Voelz a copy of whole body count, bioassay, and nasal smear data, etc. obtained during [redacted] employment.

We also request that Kerr-McGee reimburse [redacted] air fare, car rental, and motel expenses upon submittal of appropriate receipts.

As apparent from the above discussion, your offer to have [redacted] whole body counted by Helgeson Nuclear Services was not accepted.

We will provide you a copy of Dr. Voelz's results after we have received written authorization from [redacted] to do so.

We appreciate your willing assistance in this matter.

Sincerely,

James G. Keppler
James G. Keppler
Director

Enclosures:

1. Ltr Keppler to Sellers
dtd 12/14/79
2. Ltr Keppler to Voelz
dtd 12/14/79

cc w/enclosures:

Mr. Bill Sellers
Dr. G. L. Voelz
Los Alamos Scientific
Laboratory
Mr. J. H. Sniezek
Nuclear Regulatory Commission

8204230027 Lp.

IN-26
19-01
KEMHX

BARTLETT, IL

20 DECEMBER 1979, 1725

I, [REDACTED] HEREBY MAKE THE FOLLOWING STATEMENT, VOLUNTARILY, TO CHARLES H. WELZ, WHO HAS IDENTIFIED HIMSELF AS AN INVESTIGATOR WITH THE U.S. NUCLEAR REGULATORY COMMISSION. I MAKE THIS STATEMENT FREELY WITH NO THREATS OR PROMISES OF REWARD HAVING BEEN MADE TO ME. I HAVE ASKED MR. WELZ TO ASSIST ME IN THIS STATEMENT.

ON JANUARY 23, 1976, I CONTRACTED WITH [REDACTED] TO REMOVE AN OLD STONE WALL IN HIS HOME, AND TO REPLACE THAT WALL WITH ONE MADE OF CONCRETE.

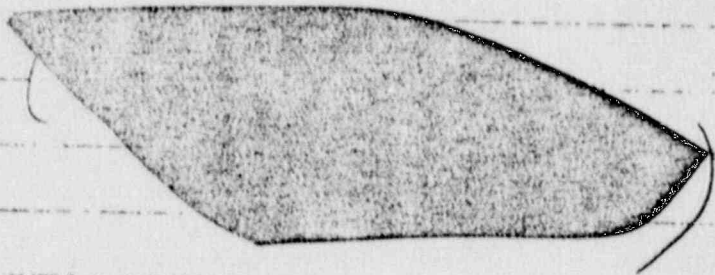
THE SPECIFICATIONS CALLED FOR USING ONE, 27 FOOT LONG 'I' BEAM. I HAD ORIGINALLY PLANNED TO OBTAIN THE BEAM FROM THE OLD LINDSAY LIGHT COMPANY PLANT, WHICH I HAD CONTRACTED, WITH ITS OWNER AT THAT - KERR MCGEE, TO DEMOLISH. THE REMOVAL OF THE BEAM FROM ITS PLACE IN THE LINDSAY PLANT HAD NOT BEEN FINISHED, WHEN I NEEDED A BEAM AT THE [REDACTED] HOME. RATHER THAN WAIT FOR THE BEAM TO BE TAKEN FROM THE LINDSAY PLANT, I DECIDED TO USE AN 'I' BEAM I HAD IN MY STOCK. THE BEAM USED IN THE [REDACTED] HOME CAME FROM MY STOCK, AND NOT FROM THE KERR-MCGEE OWNED LINDSAY LIGHT PLANT.

Information in this record was deleted in accordance with the Freedom of Information Act, Executive Order 12958

89-326

WHEN CONTRACTING WITH [REDACTED] FOR THE REMODELING OF
NICK HARRIS, I TOLD HIM I WOULD BE GETTING THE BEAM
FROM THE LEADLEY LIGHT PLANT OWNED BY KERR-MCGEE.
I NEVER TOLD HIM, OR HIS WIFE, THAT THE 'I' BEAM
CAME FROM MY STOCK, AND NOT FROM THE LEADLEY PLANT.
THE [REDACTED] HAVE NEVER ASKED ME ABOUT THE ORIGIN OF
THE 'I' BEAM USED IN REMODELING THERE HOME. THE JOB
AT THE [REDACTED] HOME WAS COMPLETED ABOUT 12 FEBRUARY 1979.

EQUIPMENT - M.C.
I NEVER REMOVED ANY MATERIALS FROM THE LEADLEY
LIGHT PLANT WHICH WERE NOT INSPECTED PRIOR TO
THE REMOVAL FROM THE PLANT PROPERTY. ALL OF THE
EQUIPMENT - M.C.
MATERIALS I REMOVED AFTER HAVING THEM INSPECTED
BY ROY MCCLEAN, A KERR-MCGEE EMPLOYEE, WERE
LOGGED-OUT BY MCCLEAN.



I HAVE READ THE FOREGOING STATEMENT, CONSISTING OF TWO
HANDWRITTEN PAGES. I HAVE MADE NECESSARY CORRECTIONS AND
HAVE INITIALED THEM. I HAVE SIGNED MY NAME TO BOTH PAGES.
THIS STATEMENT IS THE TRUTH TO THE BEST OF MY KNOWLEDGE.

WITNESSED: [Signature]
CHARLES H. WISEL

[REDACTED]
DATE: Feb 20, 1979

March 3, 1980

TO: CHR Records Room

FROM: J. Rundo *J.R.*

SUBJECT: Results of measurements of radioactivity in [redacted]

[redacted] were investigated for their radioactive content on Wednesday, February 13, 1980. The results were as follows

	L-Y001	L-Y002	
Retained radon-222 (RaC)	1.27 ± 0.59	-0.95 ± 0.57	nCi
Emanating radium-226 (breath)	5.03 ± 0.67	3.42 ± 0.50	nCi
Total ²²⁶ Ra	6.3 ± 0.9	2.5 ± 0.8	nCi
Retained ²¹² Bi (ThC)	150 ± 70	230 ± 70	pCi
Emanating ²²⁶ Ra (breath)	0.95 ± 0.27	2.30 ± 0.52	pCi
Total ²²⁶ Ra	151 ± 70	232 ± 70	pCi

Comments: 1. ²²⁶Ra The values for the retained ²²²Rn (obtained by external gamma-ray counting) are not significant in either case, but both of the apparent values for the emanating ²²⁶Ra contents are. It is impossible to say whether this indicates an actual content of ²²⁶Ra at about the levels shown, or whether the subjects live in houses, or work in a building, with a higher than usual radon concentration.

2. ²²⁶Ra The value observed for the retained ²¹²Bi is barely significant in the case of [redacted] that for [redacted] is highly significant. The values for the emanating ²²⁶Ra are both significant although neither value is higher than has been observed in some of the "Lindsay controls," i.e. people who live in West Chicago but have never worked at the Lindsay plant. There can be little question that [redacted] contains a trace of thorium, apparently in the lung, but whether [redacted] does, is equivocal.

JR/ns/
cc: M. J. Colbert, M.D.
A. F. Stehney
R. E. Toohy

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Act, exemptions 6
FOIA- 89-376

MAR 11 1980

E/IS



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

Doni
WC

AUG 12 1980

Center for Human Radiobiology
ATTN: Dr. Andrew Stehney
Associate Division Director
Argonne National Laboratory
Argonne, IL 60439

Dear Dr. Stehney:

This refers to the telephone conversations between you and Dr. C. J. Paperiello of this office on August 4 and 5, 1980. We have been informed by the attorney for Mr. Robert Westrum, the owner of the building at 185 W. Washington Street in West Chicago, that 15 individuals who either currently work in the building or who worked on remodeling the building wish to be counseled for internal thorium.

As discussed in the above telephone conversations we are requesting your assistance in this matter. We request that the individuals on the enclosed list be assayed for thorium intake.

If you need any assistance from us please contact C. J. Paperiello (932-2511). Your assistance in this matter is appreciated.

Sincerely,

James G. Keppler
James G. Keppler
Director

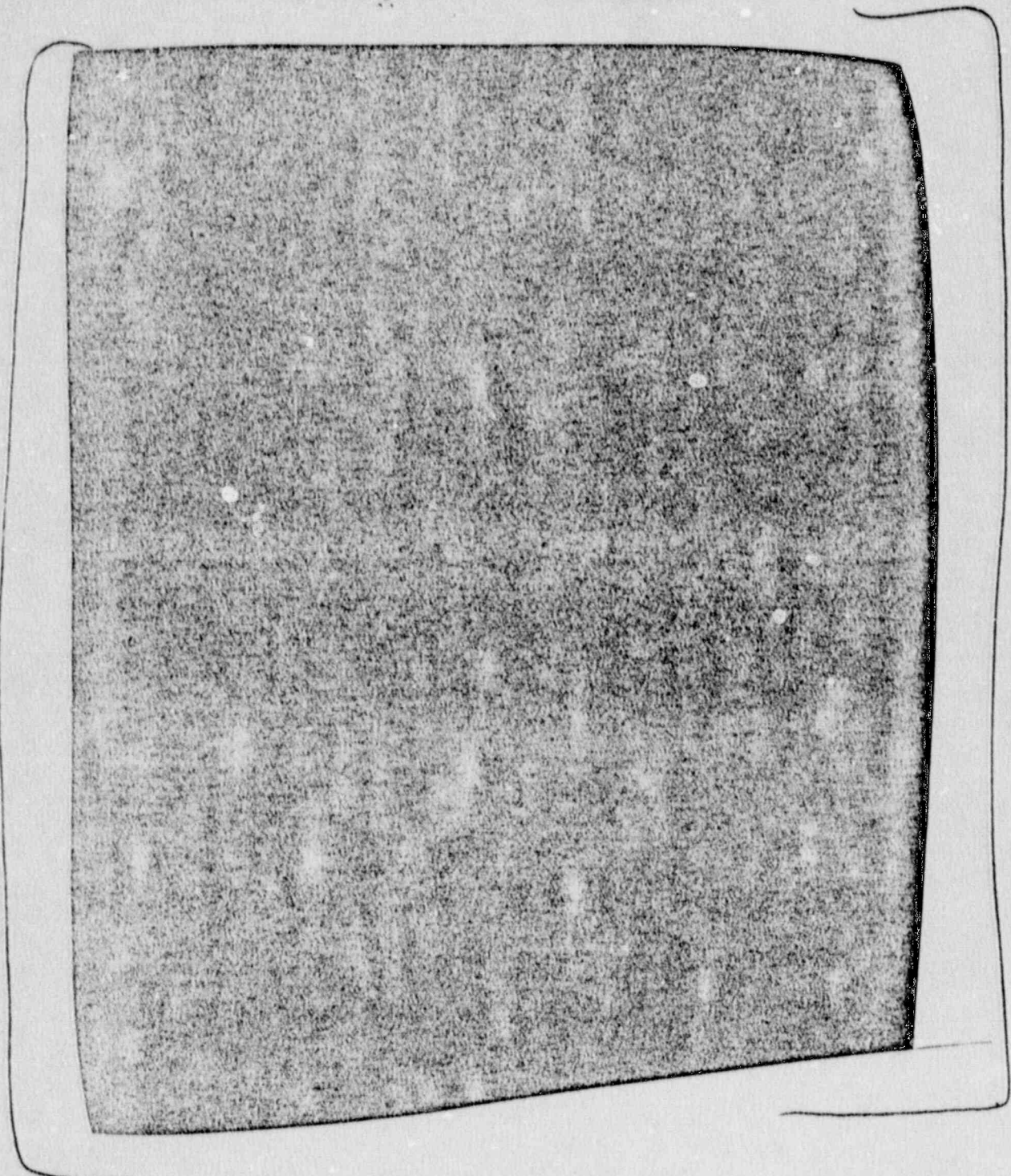
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Act, exemptions 6
FOIA- 89-376

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E/17

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List of People to be Tested



October 29, 1980

Mr. Robert D. Greenwalt
Attorney At Law
185 West Washington Street
West Chicago, IL 60185

Replaced in file of sanitized copy

Dear Mr. Greenwalt:

In response to your letter of August 6, 1980, we have had Argonne National Laboratory perform bioassay measurements for thorium on thirteen individuals. Two other individuals ~~_____~~ have not been counted because they apparently could not be reached by Argonne.

The results of these measurements have been sent to each individual.

If you have any questions on this matter, please call Dr. C. J. Paperiello of this office at 932-2611.

Sincerely,

James G. Kappler
Director

Information in this record was deleted
in accordance with the Freedom of Information
Act, exemptions 6

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FOIA: 89-376

6130
Ken Me S
West
E/18

OFFICE	RIII <i>CP</i>	RIII <i>CP</i>	RIII <i>AK</i>	RIII <i>AK</i>	
SURNAME	Paperiello/rd	Davis	Strasna	Kappler	
DATE	10/22/80	10/22/80	10/22/80	10/22/80	