

VOID SHEET

TO: License Fee Management Branch

FROM: Region IV

SUBJECT: VOIDED APPLICATION

Control Number: 462341

Applicant: Halliburton Co.

Date Voided: 4/5/90

Reason for Void: Requested change
was combined with 462175
into Amendment 57 dated
March 7, 1989. No renewal
accomplished under this
mail control number.

9405060125 900405
PDR ADDCK 03005902
C PDR

Bitter Gruczynski
Signature Date
4/5/90

Attachment:
Official Record Copy of
Voided Action

FOR LFMB USE ONLY

Final Review of VOID Completed:

- Refund Authorized and processed
- No Refund Due 91
- Fee Exempt or Fee Not Required

APR 10 09:30

RECEIVED

Comments: _____

Log completed

030184 _____

Processed by: M. Perini 4/1/90

ML401

Amendment No. 14

MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 40 and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

| | | | |
|--|-------------------------------------|--|--|
| Licensee | | In accordance with letter dated December 21, 1988 | |
| 1. Halliburton Company | | 3. License number 35-00502-04G is amended in its entirety to read as follows: | |
| 2. 1015 Bois D'Arc Duncan, Oklahoma 73533 | | 4. Expiration date March 31, 1991 | |
| | | 5. Docket or Reference No. 030-05902 | |
| 6. Byproduct, source, and/or special nuclear material | 7. Chemical and/or physical form | 8. Maximum amount that licensee may possess at any one time under this license | |
| A. As specified in Condition 10. | A. As specified in Condition 10. | A. Not applicable | |
| 9. Authorized use | | | |
| A. Pursuant to Section 32.51, 10 CFR Part 32, the licensee is authorized to distribute the devices containing sealed sources specified in Condition 10. of this license to persons generally licensed pursuant to Section 31.5, 10 CFR Part 31 or equivalent provisions of the regulations of any Agreement State. | | | |

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number
35-00502-04G

Docket or Reference number
030-05902

Amendment No. 14

10. Each device (slurry density meter) distributed pursuant to terms and conditions of this license shall be in accordance with the following table:

| <u>Device Model Number</u> | <u>Source Manufacturer and Model Number</u> | <u>Isotope</u> | <u>Maximum Activity Per Source (Millicuries)</u> |
|----------------------------|--|----------------|--|
| 10-SD | Sealed Sources (Halliburton Services Model R/A-D; General Nuclear Model CS-1000; Gammatron Model GT-GHP; Amersham/Gulf Nuclear Model CS-2; New England Nuclear Model NER-572; Texas Nuclear Model 570-57157C; Amersham/Gamma Industries Models CS-1000 (HP) or VD(HP); U.S. Nuclear Model 375; Amersham Corporation Models CDCQ 5690, CDCQ 5701, or CDCQ 6335; 3M Model 4P6D; Hastings Radiochemical Works Model CS-II-A or CS-II-B) | Cs-137 | 15 |

MATERIALS LICENSE
SUPPLEMENTARY SHEET

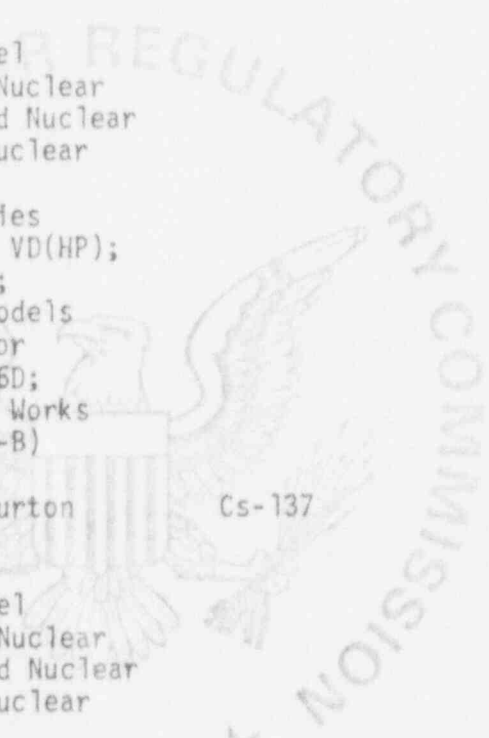
License number
35-00502-04G

Docket or Reference number
030-05902

Amendment No. 14

10. (continued)

| <u>Device Model Number</u> | <u>Source Manufacturer and Model Number</u> | <u>Isotope</u> | <u>Maximum Activity Per Source (Millicuries)</u> |
|----------------------------|--|----------------|--|
| 20-SD | Sealed Sources (Halliburton Services Model R/A-D; General Nuclear Model CS-1000; Gammatron Model GT-GHP; Amersham/Gulf Nuclear Model CS-2; New England Nuclear Model NER-572; Texas Nuclear Model 570-57157C; Amersham/Gamma Industries Models CS-1000 (HP) or VD(HP); U.S. Nuclear Model 375; Amersham Corporation Models CDCQ 5690, CDCQ 5701, or CDCQ 6335; 3M Model 4P6D; Hastings Radiochemical Works Model CS-II-A or CS-II-B) | Cs-137 | 30 |
| 55-SD | Sealed Sources (Halliburton Services Model R/A-D; General Nuclear Model CS-1000; Gammatron Model GT-GHP; Amersham/Gulf Nuclear Model CS-2; New England Nuclear Model NER-572; Texas Nuclear Model 570-57157C; Amersham/Gamma Industries Models CS-1000 (HP) or VD(HP); U.S. Nuclear Model 375; Amersham Corporation Models CDCQ 5690, CDCQ 5701, or CDCQ 6335; 3M Model 4P6D; Hastings Radiochemical Works Model CS-II-A or CS-II-B) | Cs-137 | 60 |



**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

| | |
|----------------------------|--------------|
| License number | 35-00502-04G |
| Docket or Reference number | 030-05902 |
| Amendment No. 14 | |

10. (continued)

| <u>Device Model Number</u> | <u>Source Manufacturer and Model Number</u> | <u>Isotope</u> | <u>Maximum Activity Per Source (Millicuries)</u> |
|----------------------------|--|----------------|--|
| 100-SD | Sealed Sources (Halliburton Services Model R/A-D; General Nuclear Model CS-1000; Gammatron Model GT-GHP; Amersham/Gulf Nuclear Model CS-2; New England Nuclear Model NER-572; Texas Nuclear Model 570-57157C; Amersham/Gamma Industries Models CS-1000 (HP) or VD(HP); U.S. Nuclear Model 375; Amersham Corporation Models CDCQ 5690, CDCQ 5701, or CDCQ 6335; 3M Model 4P6D; Hastings Radiochemical Works Model CS-II-A or CS-II-B) | Cs-137 | 120 |

- 11. This license does not authorize possession or use of licensed material.
- 12. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.
 - A. Application dated July 16, 1984
 - B. Letter dated July 17, 1986
 - C. Letter dated August 21, 1985
 - D. Letter dated October 3, 1986
 - E. Letter dated October 22, 1987
 - F. Letter dated February 3, 1988
 - G. Letter dated August 5, 1988
 - H. Letter dated December 21, 1988

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date MAR 6 1989

Original signed by
 By JACK F. WHITTEN
 Nuclear Materials Licensing Section
 Region IV
 Arlington, Texas 76011

OFFICIAL RECORD COPY

ML40

MAR 6 1989

Halliburton Services
Government Regulations Department
ATTN: R. L. Bechtel, Manager
P.O. Drawer 1431
Duncan, Oklahoma 73536-0100

Gentlemen:

Please find enclosed Amendment No. 14 to your NRC material license.

You should review this amendment carefully and be sure that you understand all conditions. If you have any questions, you may contact the reviewer who signed your license amendment at 817/860-8100.

Please be advised that you must conduct your program involving radioactive materials in accordance with the conditions of your NRC license, representations made in your license application, and NRC regulations. In particular, note that you must:

1. Operate in accordance with NRC regulations 10 CFR Part 19, "Notices, Instructions and Reports to Workers; Inspections," 10 CFR Part 20, "Standards for Protection Against Radiation," and other applicable regulations.
2. Possess radioactive material only in the quantity and form indicated in your license.
3. Use radioactive material only for the purposes indicated in your license.
4. Notify NRC in writing of any change in mailing address (no fee required if the location of radioactive material remains the same).
5. Request and obtain appropriate amendments if you plan to change ownership of your sole proprietorship or partnership, change the corporate status of your company, change locations of radioactive material, or make any other changes in your facility or program which are contrary to your license conditions or representations made in your license application and any supplemental correspondence with NRC. A license fee may be charged for the amendments if you are not in a fee-exempt category.
6. Submit a complete renewal application with proper fee, or termination request at least 30 days before the expiration date on your license. You will receive a reminder notice approximately 90 days before the expiration date. Possession of radioactive material after your license expires is a violation of NRC regulations.

RIV:NMLS
JEWhitten
3/2/89

C:NMLS
CLCain
3/2/89

7. Request termination of your license if you plan to permanently discontinue activities involving radioactive material.

You will be periodically inspected by NRC. A fee may be charged for inspections in accordance with 10 CFR Part 170. Failure to conduct your program in accordance with NRC regulations, license conditions, and representations made in your license application and supplemental correspondence with NRC will result in enforcement action against you. This could include issuance of a notice of violation; imposition of a civil penalty; or an order suspending, modifying, or revoking your license as specified in the General Policy and Procedures for NRC Enforcement Action, 10 CFR Part 2, Appendix C. Since serious consequences to employees and the public can result from failure to comply with NRC requirements, prompt and vigorous enforcement action will be taken when dealing with licensees who do not achieve the necessary meticulous attention to detail and the high standard of compliance which the NRC expects of its licensees.

Thank you for your cooperation.

Sincerely,

Original signed by
JACK E. WHITTEN

Charles L. Cain, Chief
Nuclear Materials Licensing Section

Enclosure:
As stated

JAN 18 1989

Halliburton Services
ATTN: R. L. Bechtel
Manager
Govt. Regulations Dept.
Drawer 1431
Duncan, OK 73536-0100

RECEIVED
JAN 23 1989

Gentlemen:

This refers to your letter dated December 21, 1988, for amendments to Materials Licenses 35-00502-04G, 35-00502-02, 35-00502-03, and 42-01068-07.

Amendment fees totalling \$690 are required as specified in §170.31; 3J (\$230), 5A (\$170), 3A (\$120), and 5A (\$170) of 10 CFR 170, copy enclosed. Payment should be made to the U.S. Nuclear Regulatory Commission and mailed to my attention at our Washington, D.C. address.

Your application will be processed by the Region IV Licensing staff located at 611 Ryan Plaza Drive, Suite 1000, Arlington, Texas 76011. The fees, however, are required prior to issuance of the amendments. When submitting the fee, please refer to CONTROL NUMBERS 462339, 462340, 462341, and 462342.

Sincerely,

Signed by:
Glenda Jackson

Glenda Jackson
License Fee Management Branch
Division of Accounting and Finance
Office of Administration and
Resources Management

Enclosure:
10 CFR 170

cc: Region IV

DISTRIBUTION:
Pending Fee File
ARM/DAF R/F
LFMB R/F (2)
DW/RIVV/HALLIB

OFFICE: ARM/LFMB *kb* ARM/LFMB *G*
SURNAME: MMessier:kb GJackson
DATE: 01/17/89 01/17/89

(FOR LFMS USE)
INFORMATION FROM LTS

BETWEEN:
LICENSE FEE MANAGEMENT BRANCH, ARM
AND
REGIONAL LICENSING SECTIONS

PROGRAM CODE: 03240
STATUS CODE: 0
FEE CATEGORY: 3J
EXP. DATE: 19910331
FEE COMMENTS: _____

LICENSE FEE TRANSMITTAL

A. REGION 46

1. APPLICATION ATTACHED
APPLICANT/LICENSEE: HALLIBURTON SERV.
RECEIVED DATE: 881227
DOCKET NO: 3005902
CONTROL NO.: 462339
LICENSE NO.: 35-00502-04G
ACTION TYPE: AMENDMENT

2. FEE ATTACHED
AMOUNT:
CHECK NO.:

3. COMMENTS

SIGNED
DATE

Billie Gruszynski
1/5/89

B. LICENSE FEE MANAGEMENT BRANCH (CHECK WHEN MILESTONE 03 IS ENTERED)

1. FEE CATEGORY AND AMOUNT: 3A (\$230)

2. CORRECT FEE PAID. APPLICATION MAY BE PROCESSED FOR:
AMENDMENT
RENEWAL
LICENSE

3. OTHER

SIGNED
DATE

1st Messer
2/14/89

FEB 24 1989



HALLIBURTON SERVICES

GOVERNMENT REGULATIONS DEPARTMENT

R.L. BECHTEL
Manager

R.A. LEONARDI, JR.
Radiation Safety Officer

Writer's Direct Dial Number
(405) 251-3565

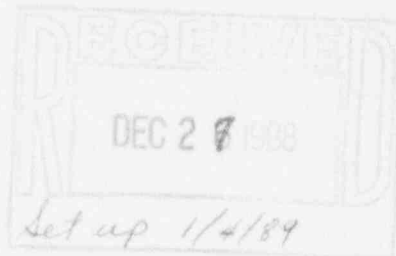
DRAWER 1431, DUNCAN, OKLAHOMA 73536-0100

Senior Environmental Engineers
S.A. BURFORD
R.E. HOUSER

Environmental Engineers
J.W. PRESGROVE
J.R. SANDERS, JR.

December 21, 1988

Mr. Jack E. Whitten
Nuclear Materials Safety Section
U. S. Nuclear Regulatory Commission
Region IV
611 Ryan Plaza Drive
Suite 1000
Arlington, Texas 76011



Dear Sir:

Attached for your evaluation and approval is the proposed Halliburton Company Oil Field Services Group Corporate Radiation Safety Program. The audit portion of the program is essentially the same as that submitted to you in our correspondence of October 22, 1987 and February 3, 1988 with the removal of specific license numbers.

If you have any questions, please let me know.

Very truly yours,

R.L. Bechtel

R. L. Bechtel

RLB:im
Attachment

Jan - 3-18
9865677
4650 - 4630 applied
38
Andy
2/14/89
1/14/89
Mesalon
(See 462341 + 462340 + 462342
for add # 4620) (170) (4170)

462339

Corporate Radiation Safety person and individual company management informed as to the status of their individual program. They will perform or oversee the audit program within the individual company and will submit written reports and evaluations as determined within the audit outline.

4. The individual company or subsidiary radiation oversight committee will be chaired by that company's RSO. Membership will be selected by the company RSO and consist of company personnel within all the departments that utilize radioactive materials. Additional members may be selected if needed or desired. The RSO will select an appropriate meeting schedule but in no case will it be greater than semi-annually. Official documentation must be maintained as to the time and content of committee meetings and such documentation must be submitted to the corporate person.
5. The proposed Corporate Audit and Report Program will be as outlined below:

PROPOSED HALLIBURTON COMPANY CORPORATE RADIOACTIVE SAFETY
AND MATERIAL AUDIT PROGRAM

TRACER MATERIALS

- A. Comprehensive audits of the handling, use, storage and disposition of licensed tracer materials conducted under Licenses which NRC has jurisdiction shall be conducted at intervals not to exceed three (3) months by either the individual Company Radiation Safety Officer (RSO), Assistant Radiation Safety Officer (ARSO), Division Radiation Safety Officer, or Division Safety Coordinator for the licenses for which they are responsible. Audits shall be conducted at each active service center. (Active service centers are those at which radioactive tracer material has been possessed, used, or stored within the previous six (6) months) Any deficiencies noted by the audit shall be promptly corrected. The audits shall be documented in a report by the Company RSO and within thirty (30) days of each audit and the report shall be submitted to the individual responsible for Corporate Radiation Safety. A determination shall be made whether the deficiency was an isolated event or one that indicates a potential systematic failure in which case all active service centers shall be notified.

462339

- B. Additional unannounced audits shall be performed at active service centers if prior corrective actions are not implemented or if the corrective actions were not effective.
- C. A review of audit findings for each licensed tracer activity relative to Licenses which NRC has jurisdiction shall be conducted by the individual responsible for Corporate Radiation Safety, at intervals not to exceed six (6) months and the review shall be documented in a report. In addition the person responsible for Corporate Radiation Safety, or an NRC-approved alternate, shall conduct audits at selected active service centers.
- D. Within thirty (30) days of the above audit review, copies of the completed audit report shall be provided to the individual Company President, as appropriate, for his review. The person responsible for Corporate Radiation Safety shall ensure through the individual company RSO that all corrective actions are properly implemented and incorporated into the licensee's program.
- E. Records of the review and audits identified above shall be maintained for inspection by the Commission for a period of three (3) years.

SEALED SOURCES (GENERALLY LICENSED)

- A. Comprehensive audits of the handling, use, storage and disposition of general licensed sealed sources under NRC jurisdiction shall be conducted at intervals not to exceed twelve (12) months by either the Radiation Safety Officer (RSO) or Assistant Radiation Safety Officer (ARSO), Division Radiation Safety Officer, or Division Safety Coordinator for their licenses for which they are responsible, or an individual appointed by the Company Radiation Safety Officer. Audits shall be conducted at each active service center. (Active service centers are those at which general licensed radioactive material has been possessed, used, or stored within the previous six (6) months.) Any deficiencies noted by the audit shall be promptly corrected. The audits shall be documented in a report within sixty (60) days of each audit and the report shall be submitted to the person responsible for Corporate Radiation Safety. A determination shall be made whether the deficiency was an isolated event or one that indicates a potential

the Company Radiation Safety Officer. Audits shall be conducted at each active service center. (Active service centers are those at which specific licensed radioactive material has been possessed, used, or stored within the previous six (6) months.) Any deficiencies noted by the audit shall be promptly corrected. The audits shall be documented in a report within thirty (30) days of each audit and the report shall be submitted to the individual responsible for Corporate Radiation Safety. A determination shall be made whether the deficiency was an isolated event or one that indicates a potential systematic failure in which case all active service centers shall be notified.

- B. Physical inventories shall be conducted every six (6) months to account for all specific licensed sources and/or devices received and possessed under the license. This inventory will be conducted by an individual appointed by the RSO.
- C. Additional unannounced audits shall be performed at active service centers if prior corrective actions are not implemented or if the corrected actions were not effective.
- D. If analysis of two (2) six (6) month audits indicate a strong effective compliance program is in place, relaxation to a twelve (12) month audit period can be initiated upon NRC approval.
- E. A review of the audit findings shall be conducted for each specific licensed sealed source activity relative to licenses under NRC jurisdiction by the individual responsible for Corporate Radiation Safety, at intervals not to exceed nine (9) months and the review shall be documented in a report.
- F. Within thirty (30) days of the above audit review, copies of the completed audit report shall be provided to the Company President, for his review.
- G. The individual responsible for Corporate Radiation Safety through the individual company RSO shall be the responsible Licensee representative to ensure that all corrective actions are properly implemented and incorporated into the licensee's program.
- H. Records of the reviews and audits identified above shall be maintained for inspection by the Commission for a period of three (3) years.