

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 1, Parts 30, 31, 32, 33, 34, 35, 39, 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.

<p>Licensee</p> <p>1. Agricultural Minerals Corporation</p> <p>2. c/o Verdigris Plant P.O. box 456 Catoosa, Oklahoma 74015</p>		<p>In accordance with letter dated June 25, 1991</p> <p>3. License number 35-16572-01 is amended in its entirety to read as follows:</p>	
		<p>4. Expiration date November 30, 1997</p>	
		<p>5. Docket or Reference No 030-11251</p>	
<p>6. Byproduct, source, and/or special nuclear material</p> <p>A. Cobalt-60</p>	<p>7. Chemical and/or physical form</p> <p>A. Sealed sources</p>	<p>8. Maximum amount that licensee may possess at any one time under this license</p> <p>A. See Condition 9.A.</p>	

9. Authorized use

- A. For possession and use in Berthold gauges which have been evaluated and approved for licensing purposes and authorized for distribution under a license issued by the Nuclear Regulatory Commission or an Agreement State.

CONDITIONS

10. Licensed material shall be used only at the licensee's facilities at 23302 E. 56th Street North, Verdigris, Oklahoma.
11. A. Licensed material shall be used by, or under the supervision of, Ronald G. Howerton.
- B. The Radiation Safety Officer for this license is Ronald G. Howerton.
12. Sealed sources containing licensed material shall not be opened or sources removed from source housings by the licensee.
13. A. Each gauge shall be tested for leakage or radioactive material at no longer than 6-month intervals or at such longer intervals not to exceed 3 years as are provided in the license of the gauge manufacturer and communicated in writing to the licensee by the manufacturer; however,

OFFICIAL COPY

250052

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License number
35-16572-01

Docket or Reference number
030-11251

Amendment No. 06

13. (Continued.)

- (1) Gauges containing only krypton-85 need not be tested for leakage of radioactive material,
- (2) Gauges containing only tritium, not more than 100 microcuries of other beta and/or gamma emitting material, or not more than 10 microcuries of alpha emitting material, and gauges held in storage in the original shipping container prior to initial installation need not be tested for any purpose, and
- (3) In the absence of a certificate from a transferor indicating that a test has been made within 6 months prior to the transfer, a gauge (or a replacement sealed source for the gauge) received from another person shall not be put into use until tested.

- B. Any source in storage and not being used need not be tested. When the source is removed from storage for use or transfer to another person, it shall be tested before use or transfer.
- C. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more of removable contamination, the gauge shall be removed from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. A report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region IV, 611 Ryan Plaza Drive, Suite 1000, Arlington, Texas 76011, ATTN: Director, Division of Radiation Safety and Safeguards. The report shall specify the source involved, the test results, and corrective action taken. Records of leak test results shall be kept in units of microcuries and shall be maintained for inspection by the Commission. Records may be disposed of following Commission inspection.
- D. The licensee is authorized to collect leak test samples for analysis by ABB Process Automation or Texas Nuclear, or tests for leakage and/or contamination shall be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.

14. Each gauge shall be tested for the proper operation of the on-off mechanism and indicator, if any, at no longer than 6-month intervals or at such longer intervals as specified by the manufacturer, not to exceed 3 years, and at the same interval as the leak test specified in Condition 13.A.
15. Installation, initial radiation survey, relocation, removal from service, maintenance, and repair of devices containing sealed sources and installation, replacement, and disposal of sealed sources shall be performed only by persons

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number
35-16572-01

Docket or Reference number
030-11251

Amendment No. 06

specifically licensed by the Commission or an Agreement State to perform such services.

16. The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 2 years from the date of each inventory.
17. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in 10 CFR 30.35(d) for establishing decommissioning financial assurance.
18. The licensee shall maintain records of information important to safe and effective decommissioning at Verdigris Plant, 241st E. Avenue and 56th Street North, Tulsa, Oklahoma, per the provision of 10 CFR 30.35(g) until this license is terminated by the Commission.
19. 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 June 25, 1991

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date DEC 28 1992

Original Signed By
William L. Fisher
By
Nuclear Materials Safety Section
Region IV
Arlington, Texas 76011



UNITED STATES
NUCLEAR REGULATORY COMMISSION

REGION IV

611 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TEXAS 76011-8064

DEC 28 1992

Agricultural Minerals Corporation
ATTN: Ronald G. Howerton
Radiation Safety Officer
c/o Verdigris Plant
P.O. Box 456
Catoosa, Oklahoma 74015

Gentlemen:

Please find enclosed Amendment No. 05 renewing 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: Inspection and Investigations," 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 purpose(s) 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 written NRC consent before transferring your license or any right thereunder, either voluntarily or involuntarily, directly or indirectly, through transfer of control of your license to any person or entity. A transfer of control of your license includes not only a total change of ownership, but also a change in the controlling interest in your company whether it is a corporation, partnership, or other entity. In addition, appropriate license amendments must be requested and obtained for any other planned changes in your facility or program that are contrary to your license or contrary to representations made in your license application, as well as supplemental correspondence thereto, which are incorporated into your license. 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

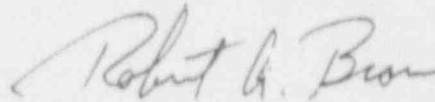
request at least 30 days before the expiration date on your license. You will receive a reminder notice approximately 90 days before the expiration date. Possession of radioactive material after your license expires is a violation of NRC regulations.

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,



Robert A. Brown
Nuclear Materials Licensing Section

Enclosure:
As stated

RIV:NML
RBrown
12/21/92

NMLS
~~Whitten~~
12/23/92

AUG 13 1991

Agricultural Minerals Corporation
ATTN: Ronald G. Howerton
P.O. Box 456
Catoosa, Oklahoma 74015

Docket No. 030-11251
License No. 35-16572-01
Control No. 463701

Gentlemen:

This is to acknowledge receipt of your application for renewal of the byproduct material license identified above. Your application is deemed timely filed and, accordingly, the license will not expire until final action has been taken by this office.

Any correspondence regarding the renewal application should reference the control number specified and your license number.

Sincerely,

Original Signed By
Billie Gruszynski

William L. Fisher, Chief
Nuclear Materials Licensing Section

RIV:NMLS
BRGruszynski:cs
8/13/91

C:NMLS
WLFisher
/ 791

APPLICATION FOR MATERIAL LICENSE

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 325 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (IMRB 7141) U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20545, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0120) OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.

APPLICATIONS FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

U.S. NUCLEAR REGULATORY COMMISSION
DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY, NMSS
WASHINGTON, DC 20545

ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS, IF YOU ARE LOCATED IN:

CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, PENNSYLVANIA, RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION I
NUCLEAR MATERIALS SAFETY SECTION B
475 ALLENDALE ROAD
KING OF PRUSSIA, PA 19380

ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION II
NUCLEAR MATERIALS SAFETY SECTION
101 MARIETTA STREET, SUITE 2900
ATLANTA, GA 30320

IF YOU ARE LOCATED IN:

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION III
MATERIALS LICENSING SECTION
795 ROOSEVELT ROAD
GLEN ELLEN, IL 60137

ARKANSAS, COLORADO, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, SOUTH DAKOTA, TEXAS, UTAH, OR WYOMING, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
MATERIAL RADIATION PROTECTION SECTION
611 RYAN PLAZA DRIVE, SUITE 1000
ARLINGTON, TX 76011

ALASKA, ARIZONA, CALIFORNIA, HAWAII, NEVADA, OREGON, WASHINGTON, AND U.S. TERRITORIES AND POSSESSIONS IN THE PACIFIC, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION V
NUCLEAR MATERIALS SAFETY SECTION
1450 MARIA LANE, SUITE 210
WALNUT CREEK, CA 94606

PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTION.

1. THIS IS AN APPLICATION FOR (Check appropriate item):

- ☐ A. NEW LICENSE
☐ B. AMENDMENT TO LICENSE NUMBER _____
☒ C. RENEWAL OF LICENSE NUMBER 35-16572-01

2. NAME AND MAILING ADDRESS OF APPLICANT (Include Zip Code):

Agricultural Minerals Corporation
P. O. Box 456
Catoosa, OK 74015

3. ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED:

Agricultural Minerals Corporation
23302 E. 56th St. North
Verdigris, OK 74015

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION:

Ronald G. Howerton

TELEPHONE NUMBER

918-266-1511

SUBMIT ITEMS 5 THROUGH 11 ON 8 1/2 x 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.

5. RADIOACTIVE MATERIAL:

a. Element and mass number; b. chemical and/or physical form; and c. maximum amount which will be possessed at any one time.

6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED:

7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE:

8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS:

9. FACILITIES AND EQUIPMENT:

10. RADIATION SAFETY PROGRAM:

11. WASTE MANAGEMENT:

12. LICENSEE FEES (51x 10 CFR 170 and Section 170.31)

FEE CATEGORY 3P AMOUNT ENCLOSED \$400.00

13. CERTIFICATION (Must be completed by applicant): THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT.

THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, AND 40 AND THAT ALL INFORMATION CONTAINED HEREIN, IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.

WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948, 62 STAT. 749 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

SIGNATURE - CERTIFYING OFFICER:

TYPED/PRINTED NAME:

TITLE:

Steven A. Savage

Vice President Engineering

FOR NRC USE ONLY

TYPE OF FEE FEE LOG FEE CATEGORY COMMENTS

REN

Reg. 3 IR

3P

AMOUNT RECEIVED:

\$400

CHECK NUMBER:

1256

463701

APPROVED BY:

DATE:

7/8/91

Reference: License Renewal for 35-16572-01

5. Radioactive Material

- A. Element and mass number: Cobalt-60
- B. Chemical and/or physical form: Sealed Sources (Professor Dr. Berthold Laboratories)
- C. Maximum amount which will be possessed at any one time: Not to exceed 52 millicuries per source.

6. Purpose(s) for which licensed material will be used.

For use in liquid level measurements in process vessels and as calibration check sources.

7. Individual(s) responsible for Radiation Safety Program and their training and experience.

Ronald G. Howerton - B.S. degree in Mechanical Engineering from Oklahoma State University.

Formal Training:

A. Principles and Practices of Radiation Protection

- 1. NBS Handbook 72, 1 day on-the-job in 1975.
- 2. Accuray, Inc., 1 day instruction in 1975.

B. Radioactivity measurement standardization and monitoring techniques and instruments.

- 1. Accuray, Inc., 1 day instruction in 1975.

C. Mathematics and Calculations basic to the use and measurement of radioactivity.

- 1. USAEC, Living with Radiation, 1 day on-the-job in 1975.
- 2. Accuray, Inc., 1 day instruction in 1975.

D. Radiation Protection Officer for 16 years (1975 to present).

8. Training for individuals working in or frequenting restricted areas.

Radiation levels are very low and areas are not easily accessible. Safety meetings on our program are given every two years.

9. Facilities and Equipment

- A. The facilities consist of two Stamicarbon designed urea plants with high pressure synthesis vessels.

- B. The equipment consists of Professor Dr. Berthold Laboratories sealed rod sources for continuous level gauging and sealed point sources for level alarms. The sources, detectors, and electronics were all supplied by Berthold.

10. Radiation Safety Program

- A. Licensed material shall be used only at the licensee's facilities at 241st E. Avenue and 56th Street North, Tulsa, Oklahoma.
- B. Licensed material shall be used by, or under the supervision of, Ronald G. Howerton.
- C. Sealed sources containing licensed material shall not be opened.
- D. 1. (a) The sources specified in Item 5.A. shall be tested for leakage and/or contamination at intervals not to exceed 6 months. Any source received from another person which is not accompanied by a certificate indicating that a test was performed within 6 months before the transfer shall not be put into use until tested.
- (b) Notwithstanding the periodic leak test required by this condition, any licensed sealed source is exempt from such leak tests when the source contains 100 microcuries or less of beta and/or gamma emitting material or 10 microcuries or less of alpha emitting material.
2. Any source in storage and not being used need not be tested. When the source is removed from storage for use or transfer to another person, it shall be tested before use or transfer.
3. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more of removable contamination, the source shall be removed from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. A report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region IV, 611 Ryan Plaza Drive, Suite 1000, Arlington, Texas 76011, ATTN: Chief, Radiological and Safeguards Programs Branch. The report shall specify the source involved, the test results, and corrective action taken. Records of leak test results shall be kept in units of microcuries and shall be maintained for inspection by the Commission. Records may be disposed of following Commission inspection.
4. The licensee is authorized to collect leak test samples for analysis by ABB Process Automation or Texas Nuclear, or tests for leakage and/or contamination shall be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.
- E. Installation, initial radiation survey, relocation, removal from service, maintenance, and repair of devices containing sealed sources and installation, replacement, and disposal of sealed sources shall be performed only by persons specifically licensed by the Commission or an Agreement State to perform such services.

F. The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 2 years from the date of each inventory.

11. Waste Management

Disposal of all sources will be by Professor Dr. Berthold Laboratories with consultation by ABB Process Automation.

JUN 27 1991

463701

(FOR LFMS USE)
INFORMATION FROM LTS

BETWEEN:

LICENSE FEE MANAGEMENT BRANCH, ARM
AND
REGIONAL LICENSING SECTIONS

PROGRAM CODE: 03120
STATUS CODE: 2
FEE CATEGORY: 3P
EXP. DATE: 19910831
FEE COMMENTS:

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED
APPLICANT/LICENSEE: AGRICULTURAL MINERALS CORPORATION
RECEIVED DATE: 910627
DOCKET NO: 3011251
CONTROL NO.: 463701
LICENSE NO.: 35-16572-01
ACTION TYPE: RENEWAL

2. FEE ATTACHED
AMOUNT: \$400.00
CHECK NO.: 1256

3. COMMENTS

SIGNED
DATE

Billie Grunaginski
7/2/91

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

1. FEE CATEGORY AND AMOUNT: 3P \$400
2. CORRECT FEE PAID. APPLICATION MAY BE PROCESSED FOR:
AMENDMENT ✓
RENEWAL ✓
LICENSE ✓
3. OTHER _____

SIGNED
DATE

Jim Rodriguez
7/1/91

JUL 19 1991

APPLICATION FOR MATERIAL LICENSE

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS
INFORMATION COLLECTION REQUEST 325 HRS FORWARD
COMMISSION RECORDING BURDEN ESTIMATE TO THE INFOR
MATION AND RECORDS MANAGEMENT BRANCH (MARB 7714)
U.S. NUCLEAR REGULATORY COMMISSION WASHINGTON, DC
20545-0001 TO THE PAPERWORK REDUCTION PROJECT (3150
0720) OFFICE OF MANAGEMENT AND BUDGET WASHINGTON
DC 20503

INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES
OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.

APPLICATIONS FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

U.S. NUCLEAR REGULATORY COMMISSION
DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY, NMSS
WASHINGTON, DC 20545

ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS, IF YOU ARE
LOCATED IN:

CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND,
MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, PENNSYLVANIA,
RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION I
NUCLEAR MATERIALS SAFETY SECTION B
475 ALLENDALE ROAD
KING OF PRUSSIA, PA 19406

ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA,
PUERTO RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR
WEST VIRGINIA, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION II
NUCLEAR MATERIALS SAFETY SECTION
101 MARUETTA STREET, SUITE 2900
ATLANTA, GA 30320

IF YOU ARE LOCATED IN:

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR
WISCONSIN, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION III
MATERIALS LICENSING SECTION
799 ROOSEVELT ROAD
GLEN ELLYN, IL 60137

ARKANSAS, COLORADO, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA,
NEW MEXICO, NORTH DAKOTA, OKLAHOMA, SOUTH DAKOTA, TEXAS, UTAH,
OR WYOMING, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
MATERIAL RADIATION PROTECTION SECTION
611 RYAN PLAZA DRIVE, SUITE 1000
ARLINGTON, TX 76011

ALASKA, ARIZONA, CALIFORNIA, HAWAII, NEVADA, OREGON, WASHINGTON,
AND U.S. TERRITORIES AND POSSESSIONS IN THE PACIFIC, SEND APPLICATIONS
TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION V
NUCLEAR MATERIALS SAFETY SECTION
1450 MARIA LANE, SUITE 210
WALNUT CREEK, CA 94606

PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL
IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTION

1. THIS IS AN APPLICATION FOR (check appropriate item):

- ☐ A. NEW LICENSE
☐ B. AMENDMENT TO LICENSE NUMBER _____
☒ C. RENEWAL OF LICENSE NUMBER 35-16572-01

2. NAME AND MAILING ADDRESS OF APPLICANT (include Zip Code):

Agricultural Minerals Corporation
P. O. Box 456
Catoosa, OK 74015

3. ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED:

Agricultural Minerals Corporation
23302 E. 56th St. North
Verdigris, OK 74015

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION:

Ronald G. Howerton

TELEPHONE NUMBER:

918-266-1511

SUBMIT ITEMS 5 THROUGH 11 ON 8 1/2 x 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE.

5. RADIOACTIVE MATERIAL

a. Element and mass number, b. chemical and/or physical form, and c. maximum amount
which will be possessed at any one time

6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED:

7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR
TRAINING AND EXPERIENCE:

8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS:

9. FACILITIES AND EQUIPMENT:

10. RADIATION SAFETY PROGRAM:

11. WASTE MANAGEMENT:

12. LICENSEE FEES (See 10 CFR 170 and Section 170.111)

FEE CATEGORY: 3P

AMOUNT
ENCLOSED \$400.00

13. CERTIFICATION (Must be completed by applicant): THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE
BINDING UPON THE APPLICANT.

THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS
PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, AND 40 AND THAT ALL INFORMATION CONTAINED HEREIN
IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.

WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948, 62 STAT. 749 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION
TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

SIGNATURE - CERTIFYING OFFICER

TYPED/PRINTED NAME

TITLE

DATE

Steven A. Savage

Vice President Engineering

June 25, 1991

FOR NRC USE ONLY

TYPE OF FEE	FEE LOG	FEE CATEGORY	COMMENTS
AMOUNT RECEIVED	CHECK NUMBER		

463701

APPROVED BY

DATE

Reference: License Renewal for 35-16572-01

5. Radioactive Material

- A. Element and mass number: Cobalt-60
- B. Chemical and/or physical form: Sealed Sources (Professor Dr. Berthold Laboratories)
- C. Maximum amount which will be possessed at any one time: Not to exceed 52 millicuries per source.

6. Purpose(s) for which licensed material will be used.

For use in liquid level measurements in process vessels and as calibration check sources.

7. Individual(s) responsible for Radiation Safety Program and their training and experience.

Ronald G. Howerton - B.S. degree in Mechanical Engineering from Oklahoma State University.

Formal Training:

A. Principles and Practices of Radiation Protection

- 1. NBS Handbook 72, 1 day on-the-job in 1975.
- 2. Accuray, Inc., 1 day instruction in 1975.

B. Radioactivity measurement standardization and monitoring techniques and instruments.

- 1. Accuray, Inc., 1 day instruction in 1975.

C. Mathematics and Calculations basic to the use and measurement of radioactivity.

- 1. USAEC, Living with Radiation, 1 day on-the-job in 1975.
- 2. Accuray, Inc., 1 day instruction in 1975.

D. Radiation Protection Officer for 16 years (1975 to present).

8. Training for individuals working in or frequenting restricted areas.

Radiation levels are very low and areas are not easily accessible. Safety meetings on our program are given every two years.

9. Facilities and Equipment

- A. The facilities consist of two Stamicarbon designed urea plants with high pressure synthesis vessels.

- B. The equipment consists of Professor Dr. Berthold Laboratories sealed rod sources for continuous level gauging and sealed point sources for level alarms. The sources, detectors, and electronics were all supplied by Berthold.

10. Radiation Safety Program

- A. Licensed material shall be used only at the licensee's facilities at 241st E. Avenue and 56th Street North, Tulsa, Oklahoma.
- B. Licensed material shall be used by, or under the supervision of, Ronald G. Howerton.
- C. Sealed sources containing licensed material shall not be opened.
- D. 1. (a) The sources specified in Item 5.A. shall be tested for leakage and/or contamination at intervals not to exceed 6 months. Any source received from another person which is not accompanied by a certificate indicating that a test was performed within 6 months before the transfer shall not be put into use until tested.
- (b) Notwithstanding the periodic leak test required by this condition, any licensed sealed source is exempt from such leak tests when the source contains 100 microcuries or less of beta and/or gamma emitting material or 10 microcuries or less of alpha emitting material.
2. Any source in storage and not being used need not be tested. When the source is removed from storage for use or transfer to another person, it shall be tested before use or transfer.
3. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more of removable contamination, the source shall be removed from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. A report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region IV, 611 Ryan Plaza Drive, Suite 1000, Arlington, Texas 76011, ATTN: Chief, Radiological and Safeguards Programs Branch. The report shall specify the source involved, the test results, and corrective action taken. Records of leak test results shall be kept in units of microcuries and shall be maintained for inspection by the Commission. Records may be disposed of following Commission inspection.
4. The licensee is authorized to collect leak test samples for analysis by ABB Process Automation or Texas Nuclear, or tests for leakage and/or contamination shall be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.
- E. Installation, initial radiation survey, relocation, removal from service, maintenance, and repair of devices containing sealed sources and installation, replacement, and disposal of sealed sources shall be performed only by persons specifically licensed by the Commission or an Agreement State to perform such services.

F. The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 2 years from the date of each inventory.

11. Waste Management

Disposal of all sources will be by Professor Dr. Berthold Laboratories with consultation by ABB Process Automation.