DL-060195-04

JUN 01 1995

Corydon Crushed Stone
and Lime Co., Inc.
ATTN: Martin F. Bachman, President
P.O. Box 577
1100 Quarry Rd. N.W.
Corydon, IN 47112-0577

Dear Mr. Bachman:

Enclosed is your NRC Material License Number 13-26644-01 in accordance with your request.

Please review the enclosed document carefully and be sure that you understand all conditions. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region III office so that we can provide appropriate corrections and answers.

Please be advised that your license expires at the end of the day, in the month, and year stated in the license. Unless your license has been terminated, you must conduct your program involving byproduct 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. Not possess and use materials authorized in Items 6, 7, and 8, on the license until:

   a. You have constructed the facilities and obtained the equipment described in the license application and supporting documentation; and

   b. You have notified the U. S. Nuclear Regulatory Commission, Region III, ATTN: Chief, Nuclear Materials Safety Branch, in writing, that activities authorized by the license will be initiated.

3. Notify NRC, in writing, within 30 days:

   a. When Radiation Safety Officer permanently discontinues performance of duties under the license or has a name change; or

54856

b. When the licensee's mailing address changes (no fee is required if the location of byproduct material remains the same).

4. In accordance with 10 CFR 30.36(b) and/or license condition, notify NRC, promptly, in writing, and request termination of the license:

a. When you decide to terminate all activities involving materials authorized under the license; or

b. If you decide not to complete the facility, acquire equipment, or possess and use authorized material.

5. Request and obtain a license amendment before you:

a. Change Radiation Safety Officers;

b. Order byproduct material in excess of the amount, or radionuclide, or form different than authorized on the license;

c. Add or change the areas of use or address or addresses of use identified in the license application or on the license; or

d. Change ownership of your organization.

6. Submit a complete renewal application with proper fee or termination request at least 30 days before the expiration date of your license. You will receive a reminder notice approximately 90 days before the expiration date. Possession of byproduct material after your license expires is a violation of NRC regulations. A license will not normally be renewed, except on a case-by-case basis, in instances where licensed material has never been possessed or used.

In addition, please note that NRC Form 313 requires the applicant, by his/her signature, to verify that the applicant understands that all statements contained in the application are true and correct to the best of the applicant's knowledge. The signatory for the application should be the licensee or certifying official rather than a consultant.

You will be periodically inspected by NRC. 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, or 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 Actions, 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 NRC expects of its licensees.

Sincerely,

Original Signed By
William P. Reichhold
Nuclear Materials Licensing Section

License No. 13-26644-01
Docket No. 030-33862

Enclosure: New License Package

DOCUMENT NAME: M:\03033862.CL5
To receive a copy of this document, indicate in the box: "C" = Copy without attachment/enclosure "E" = Copy with attachment/enclosure "N" = No copy

OFFICE	DRSS/RIII							
NAME	WPReichhold:brt							
DATE	05/9/95							

OFFICIAL RECORD COPY

NRC FORM 374
(7-94)

U.S. NUCLEAR REGULATORY COMMISSION

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, 36, 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.

030-33862

Licensee	
1. Corydon Crushed Stone & Lime Co., Inc.	3. License Number 13-26644-01
2. P.O. Box 577 1100 Quarry Rd. N.W. Corydon, IN 47112-0577	4. Expiration Date June 30, 2000
	5. Docket or Reference No. 030-33862

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. Cesium-137	A. Sealed Source (Troxler Dwg. No. A-102112)	A. No single source to exceed 9 millicuries each
B. Americium-241	B. Sealed Source (Troxler Dwg. No. A-102451)	B. No single source to exceed 44 millicuries each
C. Americium-241	C. Sealed Source (Troxler Dwg. No. A-100606)	C. No single source to exceed 100 millicuries each
D. Americium-241	D. Sealed Source (Troxler Dwg. No. A-100337)	D. No single source to exceed 300 millicuries each
E. Californium-252	E Sealed Source (Troxler Dwg. No. A-105162 or A-105862)	E. No single source to exceed 100 microcuries each

9. Authorized Use:

A. and B. To be used in Troxler Model 3400 Series moisture/density gauges.

A. To be used in Troxler Model 4640 Series surface density measuring gauges.

B. To be used in Troxler Models 3216 and 3218 surface moisture measuring gauges.

C. and D. To be used in Troxler Model 3241 Series asphalt content measuring gauges.

E. To be used in Troxler Model 3241 laboratory asphalt content measuring system.

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number 13-26644-01
Docket or Reference number 030-33862

CONDITIONS

10. Licensed material may be stored at the licensee's facilities located at 1100 Quarry Road, Corydon, Indiana, and may be used at temporary job sites of the licensee anywhere in the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material.

11. A. The Radiation Safety Officer for this license is James E. Horton.

    B. Assistant Radiation Safety Officer: Donald G. Thurman

12. Licensed material shall only be used by, or under the supervision and in the physical presence of, James E. Horton or individuals who have successfully completed the manufacturer's training program for gauge users, have been instructed in the licensee's routine and emergency operating procedures and who have been designated by the Radiation Safety Officer.

13. A. Sealed sources and detector cells shall be tested for leakage and/or contamination at intervals not to exceed 6 months or at such other intervals as specified by the certificate of registration referred to in 10 CFR 32.210.

    b. Notwithstanding Paragraph A of this Condition, sealed sources designed to emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed 3 months.

    C. In the absence of a certificate from a transferor indicating that a leak test has been made within 6 months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.

    D. Sealed sources need not be leak tested if:

    (i) they contain only hydrogen-3; or

    (ii) they contain only a radioactive gas; or

    (iii) the half-life of the isotope is 30 days or less; or

    (iv) they contain not more than 100 microcuries of beta and/or gamma emitting material or not more than 10 microcuries of alpha emitting material; or

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030-33862

(v) they are not designed to emit alpha particles, are in storage, and are not being used. However, when they are removed from storage for use or transferred to another person, and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source or detector cell shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.

E. The leak 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, a report shall be filed with the U.S. Nuclear Regulatory Commission in accordance with 10 CFR 30.50(b)(2), and the source shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region III, ATTN: Chief, Nuclear Materials Safety Branch, 801 Warrenville Road, Lisle, Illinois 60532-4351. The report shall specify the source involved, the test results, and corrective action taken.

F. The licensee is authorized to collect leak test samples for analysis by Troxler Electronic Laboratories, Inc. Alternatively, tests for leakage and/or contamination may be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.

14. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.

15. When performing tests at temporary job sites, the authorized user shall not leave the moisture/density gauge unattended. Upon completion of tests the device shall be locked in the licensee's vehicle or a secure building to prevent unauthorized use, loss, or theft.

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.

17. The licensee is authorized to transport licensed material only in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."

18. Each portable nuclear gauge shall have a lock or outer locked container designed to prevent unauthorized or accidental removal of the sealed source from its shielded position. The gauge or its container must be locked when in transport, storage, or when not under the direct surveillance of an authorized user.

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License number: 13-26644-01
Docket or Reference number: 030-33862

9. Any cleaning, maintenance, or repair of the gauge(s) that requires removal of the source rod shall be performed only by the manufacturer or by other persons specifically licensed by the Commission or an Agreement State to perform such services.

10. 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.

11. The licensee may not possess and use materials authorized in Items 6, 7, and 8 until:

    1. The licensee has constructed the facilities and obtained the equipment described in the application and supporting documentation; and

    2. The U. S. Nuclear Regulatory Commission, Region III, ATTN: Chief, Materials Licensing Section, 801 Warrenville Road, Lisle, IL 60532-4351 has been notified that activities authorized by the license will be initiated.

12. Within 30 days of the date of a decision not to complete the facility, acquire equipment, or possess and use authorized material, the licensee must notify the Commission in writing, of the decision.

13. 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 U.S. 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 May 10, 1995; and

    B. Letter dated May 17, 1995.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date 1 June 1995

By _____
Materials Licensing Section, Region III

COPY

BETWEEN:

LICENSE FEE MANAGEMENT BRANCH, ARM
AND
REGIONAL LICENSING SECTIONS

(FOR LFMB USE)
INFORMATION FROM LTS

PROGRAM CODE:
STATUS CODE: 3
FEE CATEGORY:
EXP. DATE: 0
FEE COMMENTS:
DOCKET NO. ASSIGNED:

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED
APPLICANT/LICENSEE: CURYDON CRUSHED STONE & LIME
RECEIVED DATE: 5/5/95
DOCKET NO: 303486
CONTROL NO.:
LICENSE NO.:
ACTION TYPE: NEW LICENSE

2. FEE ATTACHED
AMOUNT: X Fee transferred
CHECK NO.: fm. 398425

3. COMMENTS
~~398425~~

SIGNED D. Hensley
DATE 5-12-95

B. LICENSE FEE MANAGEMENT BRANCH (CHECK WHEN MILESTONE OR IF ENTERED) ✓

1. FEE CATEGORY AND AMOUNT: 3P $570.00

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

3. OTHER

SIGNED SC
DATE 5/16/95

Log	MAY I III
Remitter	
Check No.	1331 1336
Amount	$400 $170
Fee Category	3P
Type of Fee	Application
Date Check Rec'd	5/11/95 5/11/95
Date Completed	5/16/95
By:	SC

Fee transferred from APR 14 III Log-CN398425

NRC FORM 313 (1-94) 10 CFR 30, 32, 33, 34, 35, 36, 39 and 40

U. S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB: NO. 3150-0120 EXPIRES 6-30-96

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 9 HOURS. SUBMITTAL OF THE APPLICATION IS NECESSARY TO DETERMINE THAT THE APPLICANT IS QUALIFIED AND THAT ADEQUATE PROCEDURES EXIST TO PROTECT THE PUBLIC HEALTH AND SAFETY. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (T-6 F33), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0120), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

APPLICATION FOR MATERIAL LICENSE

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.

APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:

DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY
OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS
U.S. NUCLEAR REGULATORY COMMISSION
WASHINGTON, DC 20555-0001

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:

LICENSING ASSISTANT SECTION
NUCLEAR MATERIALS SAFETY BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION I
475 ALLENDALE ROAD
KING OF PRUSSIA, PA 19406-1415

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

NUCLEAR MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION II
101 MARIETTA STREET, NW, SUITE 2900
ATLANTA, GA 30323-0199

IF YOU ARE LOCATED IN:

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

MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION III
801 WARRENVILLE RD.
LISLE, IL 60532-4351

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH, WASHINGTON, OR WYOMING, SEND APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING SECTION
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
611 RYAN PLAZA DRIVE, SUITE 400
ARLINGTON, TX 76011-8064

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 JURISDICTIONS.

1. THIS IS AN APPLICATION FOR (Check appropriate item)
   - [ ] A. NEW LICENSE
   - [X] B. AMENDMENT TO LICENSE NUMBER 13-26644-01
   - [ ] C. RENEWAL OF LICENSE NUMBER

2. NAME AND MAILING ADDRESS OF APPLICANT (Include Zip code)
Corydon Crushed Stone & Lime Co., Inc.
P.O. Box 577
Corydon, IN 47112-0577

3. ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED
Corydon Crushed Stone & Lime Co., Inc. - Asphalt Plant is located 2½ miles northwest of Corydon, IN at 1100 Quarry Rd., Corydon, IN 47112. Licensed material will be used at the address listed in Item 3 and at temporary jobsites in States subject to NRC's regulatory authority.

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION
Martin F. Bachman

TELEPHONE NUMBER
(812) 738-2216

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 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 170.31)
FEE CATEGORY N/A - This is additional info | AMOUNT ENCLOSED $

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, 36, 39 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.

CERTIFYING OFFICER - TYPED/PRINTED NAME AND TITLE	SIGNATURE	DATE
Martin F. Bachman, President	Martin F. Bachman	5/10/95

FOR NRC USE ONLY

TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
Appl.	MAY 7 III	3P	$570.00	1331 & 1336	1331 = 400; 1336 = $170; Fee transferred from CN 393425
APPROVED BY: SC				DATE: 5/16/95	

CORYDON CRUSHED STONE & LIME CO., INC.
APPLICATION FOR MATERIAL LICENSE
SUPPLEMENT PAGE #1 TO NRC FORM 313

ITEM 5 - Radioactive Material

Radionuclide	Max. Activity	Mfr.'s Name	Model #		Registry No.
A. Cs-137	9 mCi	Troxler	A-102112	3400 4640	NC-646-D-130-S NC-646-D-131-S
B. Am-241:Be	44 mCi	Troxler	A-102451	3400 3216 3218	NC-646-D-130-S NC-646-D-126-S NC-646-D-126-S
C. Am-241:Be	110 mCi	Troxler	A-100608 Or A-100337	3241	NC-646-D-128-S
D. Cf-252	100 mCi	Troxler	A-105162 Or A-105862	3242	NC-646-D-135-B

Possession Limit Commitment

We will confine our possession of licensed material to quantities such that we will not exceed the applicable limits in 10 CFR 30.35(d).

ITEM 6 - Purposes For Which Licensed Material Will Be Used

A. For use in Troxler Model 3400, 4640, & 4545 series gauges to measure the moisture/density of soils, aggregates and construction materials.

B. For use in Troxler Model 3400, 3216, & 3218 series gauges measuring hydrogen with relation to moisture content of construction/building materials.

C. For the use in Troxler 3241 series gauges for the measurement of hydrogen with relation to oil content in asphaltic construction materials.

D. For the use in Troxler 3242 series gauges for the measurement of hydrogen with relation to oil content in asphaltic construction materials.

* The sealed source will not be lowered into the ground more than 1-3 feet.

ITEM 7 - Individuals Responsible For Radiation Safety Program And Their Training Experience

Jim Horton and Donald Thurman both are high school graduates and have been designated as the company's Radiation Safety Officers. The Troxler Electronic Laboratories, Inc. nuclear gauge safety training course to be held at the Holiday Inn-Southwest in Louisville, Kentucky on May 2, 1995 will be completed by both Jim Horton and Donald Thurman. This course satisfies Nuclear Regulatory Commission and Agreement State requirements for gauge operator and radiation safety officer certification, as well as the US DOT training requirement of 49CFR172, subpart H. Their certificates will be forwarded to you as soon as possible. Tom Jones has also attended the above training and will be designated as an authorized user of the gauges.

CORYDON CRUSHED STONE & LIME CO., INC.
APPLICATION FOR MATERIAL LICENSE
SUPPLEMENT PAGE #2 TO NRC FORM 313

ITEM 7 - INDIVIDUALS RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE (Continued)

Duties and Responsibilities of the Radiation Safety Officer

1. The Radiation Safety Officer has the authority to stop any and all operations that he considers unsafe.

2. The Radiation Safety Officer will be given sufficient time and commitment from management to fulfill all duties and responsibilities to ensure that radioactive materials are used only by authorized individuals and in a safe manner.

3. All mailings and bulletins will be reviewed, copied, and distributed to the Radiation Safety Officers. It will be the responsibility of the Radiation Safety Officers to keep such records on file and to make sure that all authorized personnel comply with these regulations.

4. The Radiation Safety Officers will ensure that all terms and conditions of the license are being met and that the information contained in the license is up-to-date.

5. The Radiation Safety Officers will ensure that the equipment has been leak tested in the required timely manner and that the leak test is performed in the manner prescribed by the equipment manufacturer.

6. The Radiation Safety Officers will maintain the records as required by the license and regulations. These records shall include personnel exposure records, leak test records, and training certificates for all authorized users.

7. The Radiation Safety Officers will ensure that the equipment is properly secured against unauthorized removal at all times when it is not in use.

8. The Radiation Safety Officers will serve as a point of contact and give assistance in case of an emergency such as equipment damaged in the field or theft and to notify the proper authorities in case of an emergency.

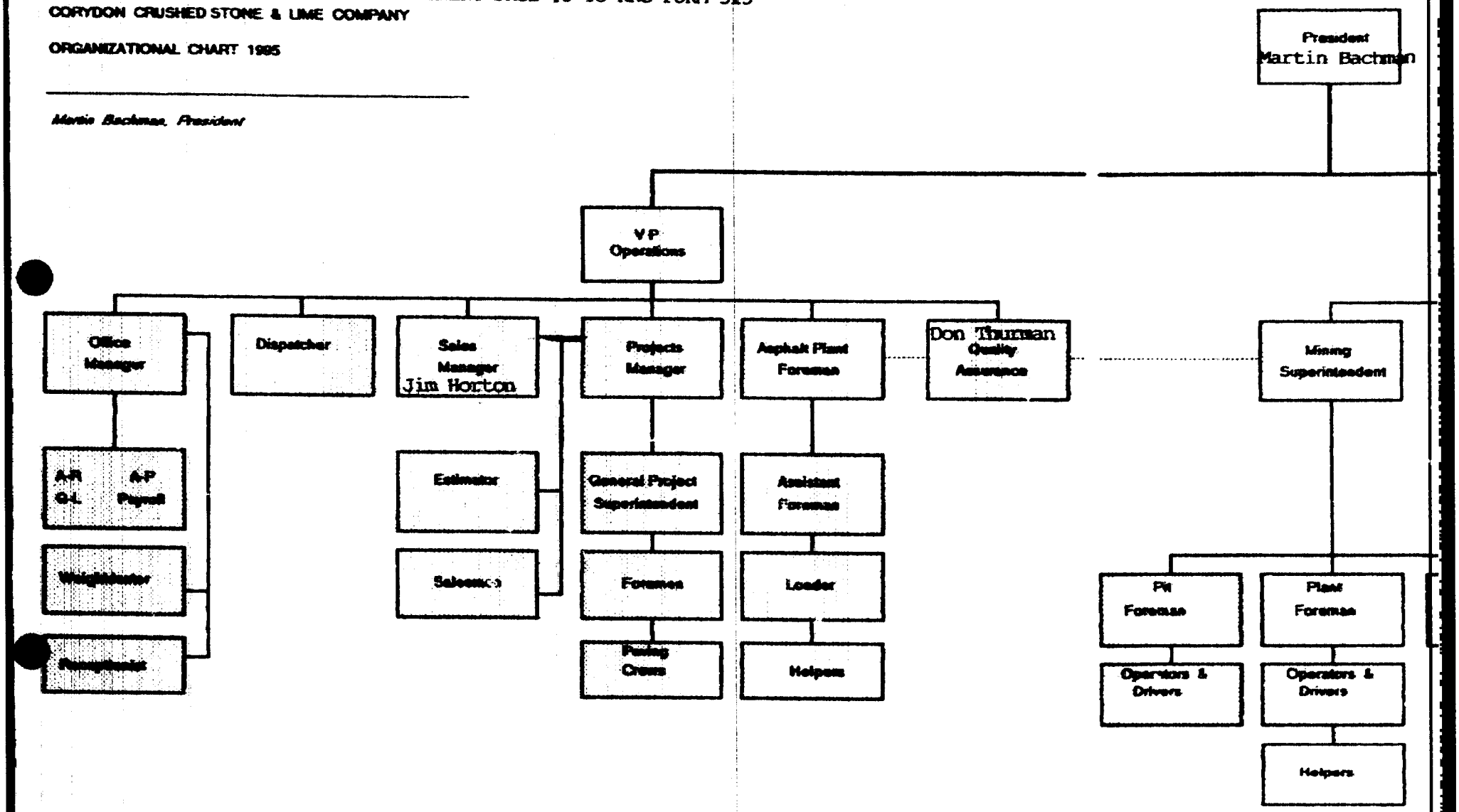
9. The Radiation Safety Officers will ensure that all users have read and understand the proper radiation safety operating and emergency procedures.

CORYDON CRUSHED STONE & LIME CO., INC.
APPLICATION FOR MATERIAL LICENSE
SUPPLEMENT PAGE #3 TO NRC FORM 313

CORYDON CRUSHED STONE & LIME COMPANY

ORGANIZATIONAL CHART 1995

Martin Bachman, President



CORYDON CRUSHED STONE & LIME CO., INC.
APPLICATION FOR MATERIAL LICENSE
SUPPLEMENT PAGE #4 TO NRC FORM 313

ITEM 8 - TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS

1. Each individual that will operate the nuclear gauge will have successfully completed the Troxler nuclear gauge training course. The Troxler nuclear gauge training course satisfies Nuclear Regulatory Commission and Agreement State requirements for gauge operator and radiation safety officer certification, as well as the US DOT training requirement of 49CFR172, Subpart H. The Radiation Safety Officers will distribute copies of our operating and emergency procedures to all individuals that will operate the nuclear gauge. Each individual that will operate the nuclear gauge will first have to be designated as an authorized user by the Radiation Safety Officers. The Radiation Safety Officers will maintain records on each individual that will be authorized to use the nuclear gauge. These records shall consist of the individual's certificate stating that he or she has successfully completed the Troxler nuclear gauge training course which satisfies the Nuclear Regulatory Commission requirements, a copy of the Radiation Safety Officers certificate stating that he or she has successfully completed the Troxler nuclear gauge training course which satisfies the Nuclear Regulatory Commission requirements and is certified to operate as an instructor, a record that the individual was trained in and received copies of the proper operating and emergency procedures concerning the use of the nuclear gauge, and a record that the individual has been designated by the Radiation Safety Officer as an authorized user of the nuclear gauge. The Radiation Safety Officers will maintain such records on each individual until at least 3 years after the individual terminates employment.

2. The Radiation Safety Officers will hold refresher training at least once in a years time for all individuals who are authorized to use the nuclear gauge. This refresher training will include participating in "dry runs" of emergency procedures, reviewing operating and emergency procedures, DOT requirements, changes in regulations or license conditions, and deficiencies during the performance of annual audits of the radiation safety program. This training will also include a review of NRC notices and bulletins. This refresher training should last approximately 2-4 hours and will encompass all of the items listed above. The Radiation Safety Officers will maintain records of the refresher training course which will consist of the date of the training, the identity of the instructor, a list of the attendees, and a description of all topics discussed. These records will be kept on file for at least 3 years.

CORYDON CRUSHED STONE & LIME CO., INC.
APPLICATION FOR MATERIAL LICENSE
SUPPLEMENT PAGE #5 TO NRC FORM 313

ITEM 9 - FACILITIES AND EQUIPMENT

1. The proposed storage facility for the nuclear gauge is the control house garage at our asphalt plant. This structure currently exists and is shown in the diagram attached. Our asphalt plant is located at 1100 Quarry Road in Corydon, Indiana. The gauges will be stored in a locked tool cabinet in the control house garage at our asphalt plant. The nuclear gauges will be secured inside a locked enclosed building in a locked steel cabinet when not in use.

2. All possible means shall be provided to ensure that the equipment is secured in the transporting vehicle and that the equipment is away from the passenger compartment. When transporting the gauges, they will be either locked in the trunk of a car, hidden from view in a locked van, or secured by a lock and chain while in an open bed truck. The gauge will be transported in the Troxler transportation case.

3. When the gauges are being used in the field, we will maintain control over the gauge at all times. The gauge is never to be left unattended. During periods of non-use at a temporary jobsite, the gauges must be secured in a vehicle as they would when being transported. This means secured in place and locked. During periods of non-use in off-duty hours at a temporary jobsite, the gauges are to be transported back to their proposed permanent storage facility at the control house garage.

ITEM 10 - RADIATION SAFETY PROGRAM

1. All gauge users will wear the personnel monitoring device that has been assigned to them. The personnel monitoring equipment will consist of TLD's supplied by Troxler Radiation Monitoring Services on a quarterly exchange period.

2. At each jobsite we will have at least one survey instrument capable of measuring between 1 microsievert per hour (0.1 millirem per hour) and 1 millisievert per hour (100 millirems per hour). This instrument will be used to perform surveys after an incident. Each survey instrument will be calibrated by the manufacturer at intervals not to exceed 6 months. Before using a survey instrument, we will check the response of the instrument with a dedicated check source that was supplied with the instrument and, if the instrument does not respond properly, then we will not use the instrument until it is repaired and operable or until we can obtain an operable instrument. No maintenance will be performed in which the radioactive source is removed from the gauge. For this type of maintenance, the gauge will be returned to the manufacturer.

CORYDON CRUSHED STONE & LIME CO., INC.
APPLICATION FOR MATERIAL LICENSE
SUPPLEMENT PAGE #6 TO NRC FORM 313

ITEM 10 - RADIATION SAFETY PROGRAM (CONTINUED)

3. Gauges will be leak tested at intervals not to exceed six months. The leak test will be performed using the Troxler Electronic Laboratories, Inc. Model 3880 Leak Test Kit. Their address is; Troxler Electronic Laboratories, Inc., 3008 Cornwallis Road, P.O. Box 12057, Research Triangle Park, NC 27709. Troxler Electronic Laboratories, Inc. is licensed under North Carolina Radioactive Materials License #032-0182-1. The leak test will be performed using the manufacturers instructions. These samples will be taken by either one of our Radiation Safety Officers, Don Thurman or Jim Horton. Troxler Electronic Laboratories, Inc. analyzes samples using a Baird Polyspec Research Nuclear Spectrometer Model #987514 utilizing a Baird Atomic Scintillation Probe Model #062422 that is calibrated with NIST traceable sources of Cs-137, Cl-136 and Am-241. Analysis and return of results is typically performed on the day of receipt of the leak test wipe. Troxler will request a retest for activity detected between 0.00005 and 0.005 microCuries. Troxler will immediately notify the customer for activity detected that is greater than .005 microCuries, and advise that the sealed source(s) should be removed from service. A written report to the customer will follow. A perpetual record of all leak tests are maintained by Troxler.

4. We will conduct inventories, at intervals not to exceed 6 months, to account for all sealed sources and any devices received and possessed under the license. The Radiation Safety Officers will maintain records of the inventories for at least 3 years from the date of the inventory. These inventory records will include: the radionuclide and amount in units of becquerels or curies of byproduct material in each sealed source, the manufacturer's name, model number, and serial number of each device containing byproduct material, location of each sealed source and device, and the date of the inventory.

5. Periodic maintenance will include cleaning the gauge. During any maintenance, the individual must wear the personnel monitoring device and the radioactive source must be in the safe shielded position in accordance with the manufacturer's directions or recommendations. No maintenance will be performed in which the radioactive source is removed from the gauge. For this type of maintenance, the gauge will be returned to the manufacturer.

6. We will maintain current copies of applicable DOT regulations and will develop and implement procedures for complying with applicable DOT regulations.

7. We will have on hand the proper operating and emergency procedures for using the gauge at all times. We will implement these operating and emergency procedures in correspondence with the NRC. We will provide all users of gauging devices before they begin using the gauge, a copy of our operating and emergency procedures. We will post a copy of the proper operating and emergency procedures for using the gauge at each jobsite.

CORYDON CRUSHED STONE & LIME CO., INC.
APPLICATION FOR MATERIAL LICENSE
SUPPLEMENT PAGE #7 TO NRC FORM 313

ITEM 10 - RADIATION SAFETY PROGRAM (CONTINUED)

7. OPERATING PROCEDURES

1. The Troxler nuclear gauges will be permanently stored in a locked steel tool cabinet located in the control house gargage at the asphalt plant. These gauges should be stored at this location during periods of non-use in off duty hours. Before removing the gauge from its storage area, check to make sure that the gauge source rod is in the shielded, locked position, then lock the transport case. Authorized personnel are to transport these gauges back to the permanent storage area at the end of their shift.

2. You must sign the gauge out in the log book which will also be kept in the locked steel cabinet. You must enter the date(s) of use, your name or names of authorized personnel who will be responsible for the gauge, and the location of the temporary jobsite where the gauge will be used into this log book before the gauge is removed from its permanent place of storage.

3. This equipment is never to be left unattended. During breaks and lunches or other times of non-use at a temporary jobsite, these gauges must be stored in their transportation cases and must be maintained in constant surveillance by the authorized user.

4. All applicable DOT requirements must be followed when transporting the gauge. When transporting the gauges, they should be either locked in the trunk of a car, hidden from view in a locked van, or secured by a lock and chain while in an open bed truck. The gauges should always be transported and stored in the Troxler transportation case. Also, all possible means should be taken to assure that the equipment is secure and stored away from the passenger compartment of the vehicle.

5. Do not touch the source rod with your fingers, hands, or other parts of your body and always make sure that the source rod is in the shielded position after each measurement is taken.

6. You must always wear your assigned thermoluminescent dosimeter (TLD) when using the gauge.

7. You must never wear another person's TLD. This personnel monitoring device is to monitor the authorized user only. Each person will be assigned their own TLD to use. It is very important that each person wears their own TLD so the radiation measurements are exact and each person can be correctly monitored.

8. Your TLD is never to be stored near the gauges. Your TLD should always be stored in the radiation free area designated for this purpose.

9. You must always keep unauthorized persons away from the area where the gauge is to be used. This is important for their safety as well as your own.

ITEM 10 - RADIATION SAFETY PROGRAM (CONTINUED)

7. OPERATING PROCEDURES

10. You should always maintain constant surveillance and immediate control of the gauge when it is not in storage.

11. The gauges must be seen by heavy equipment operators. To assist operators of heavy equipment in seeing the gauges, make sure that you always " stake and flag " each gauge, being sure that the flags are tall enough to be seen clearly by the heavy equipment operators.

12. Never look under the gauge when the source rod is being lowered into the ground. Also, never lower the gauge more than 1-3 feet into the ground.

13. After each measurement, always return the source to the shielded position and lock it there.

14. When the gauge is not in use at a temporary jobsite, it must be placed in a secured storage location. This could be, for example, locked in the trunk of a car.

15. The gauge must be returned to its permanent storage location at the end of the work shift.

16. When the gauge is returned to its permanent place of storage, indicate this by filling in this information in the log book.

17. When the gauge is being transported, it must be in the Troxler transportation case and this case must be properly labeled. At all times of transport, the operator must have a properly completed Bill of Lading and Emergency procedures for each gauge with them.

EMERGENCY PROCEDURES

If the source fails to return to the shielded position or if any other emergency or unusual situation arises which cause physical damage to the gauge, then the following steps are to be taken:

1. Locate the source(s).

2. Immediately secure the area around the gauge. You must seal or cordon off an area measuring at least 15 feet in radius from the gauge and prevent entry to this area by unauthorized personnel.

3. If heavy equipment or a vehicle is involved, it must be detained until the extent of the contamination (if any) is determined.

CORYDON CRUSHED STONE & LIME CO., INC.
APPLICATION FOR MATERIAL LICENSE
SUPPLEMENT PAGE #9 TO NRC FORM 313

ITEM 10 - RADIATION SAFETY PROGRAM (CONTINUED)

7. EMERGENCY PROCEDURES

4. Make a visual inspection of the gauge to determine whether any damage to the source housing or shield has occurred.

5. Notify the following personnel as follows:

1. Jim Horton, Radiation Safety Officer
Home Phone # (812) 952-2792 Work Phone # (812) 738-2216
Mobile Phone # (812) 738-9266

2. Donald Thurman, Radiation Safety Officer
Home Phone # (812) 633-4433 Work Phone # (812) 738-2216

3. Martin F. Bachman, Company President
Home Phone # (812) 738-7225 Work Phone # (812) 738-2216
Mobile Phone # (812) 738-9225

6. Describe the present existing conditions to the Radiation Safety Officer and follow any instructions that he gives to you.

7. In the event that the gauge becomes lost or is stolen, you must contact one of the Radiation Safety Officers listed above immediately.

8. As soon as possible, the Radiation Safety Officer should arrange for a survey to be conducted using the appropriate radiation detection instrumentation.

9. The Radiation Safety Officer should also notify local authorities as well as the NRC as required. You may contact the NRC by calling the NRC's Emergency Operations Center at (301) 816-5100, which is staffed 24 hours a day and will accept collect calls.

10. The Radiation Safety Officer will be responsible to file any reports of the incident with the NRC in a timely manner and as required.

8. ANNUAL AUDIT OF RADIATION SAFETY PROGRAM

1. Jim Horton, Radiation Safety Officer, will be the records keeper for our radiation safety program. Don Thurman, Radiation Safety Officer, will conduct audits of our radiation safety program. His safety qualifications are listed under entry #7 - Individuals Responsible For Radiation Safety Program on Supplement Page #1.

CORYDON CRUSHED STONE & LIME CO., INC.
APPLICATION FOR MATERIAL LICENSE
SUPPLEMENT PAGE #10 TO NRC FORM 313

ITEM 10 - RADIATION SAFETY PROGRAM (CONTINUED)

8. ANNUAL AUDIT OF RADIATION SAFETY PROGRAM

2. We will conduct audits as described in Appendix I of Policy and Guidance Directive PG 2-07 (Rev. 0), dated September 1994.

3. We will conduct audits at intervals not to exceed 12 months and will maintain records of the audits for at least 3 years after the record is made.

4. Martin F. Bachman, company president, or other authorized management personnel will review the documented results of the audit promptly after the audit's completion.

5. We will take prompt action to correct deficiencies identified during audits and will inform all personnel (including those at other locations and those working under other licenses) of the deficiencies and the actions management expects its personnel to take to avoid similar deficiencies.

9. FINANCIAL ASSURANCE AND RECORDKEEPING FOR DECOMMISSIONING

1. We will restrict our possession of licensed materials to quantities below the minimum level specified in 10 CFR 30.35(d) for establishing financial assurance for decommissioning.

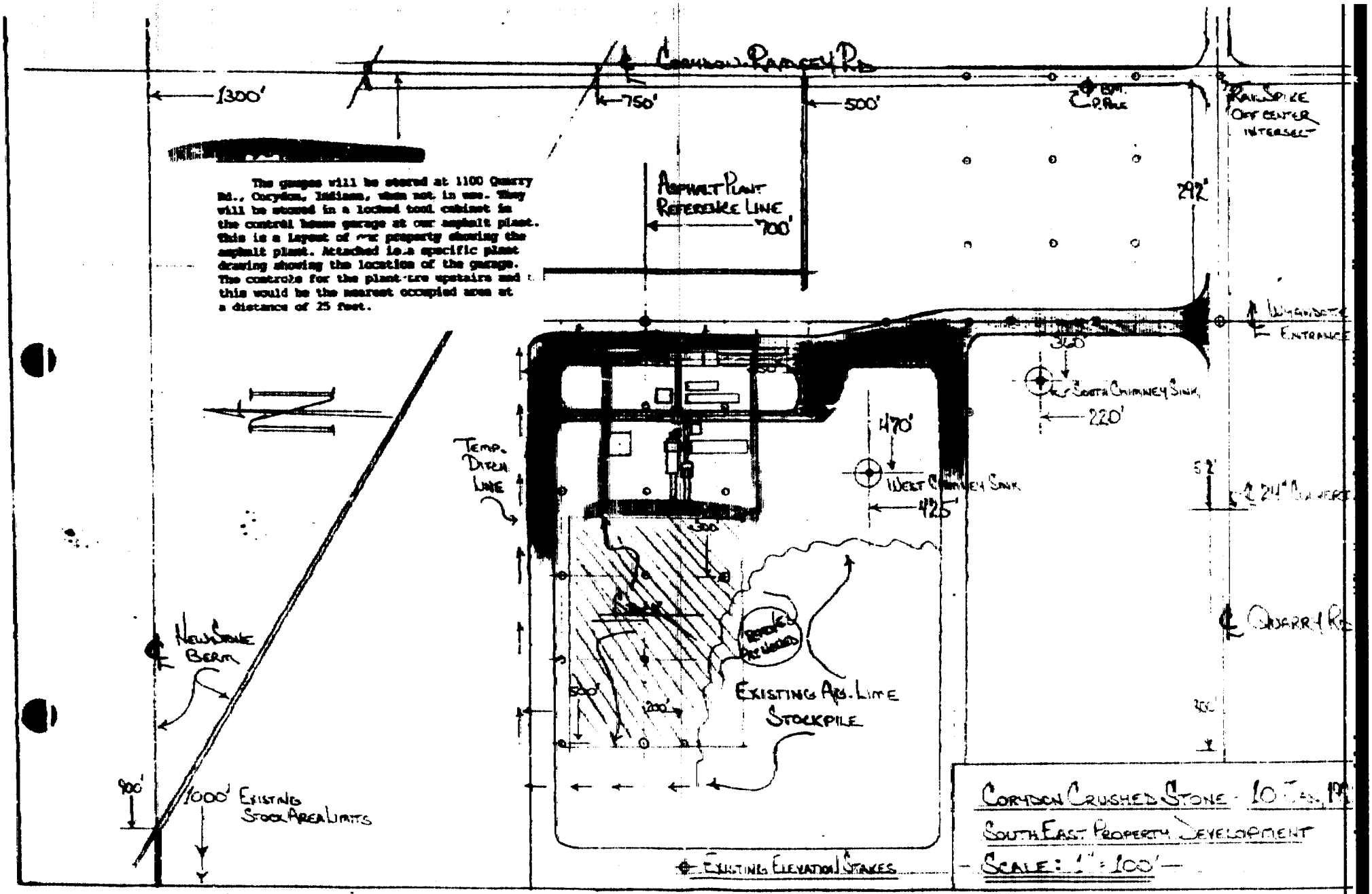
2. Records of information important to the safe and effective decommissioning of the facility will be maintained in an identified location, until the license is terminated by the Commission. The records will include the following:

   a. Records of any leakages
   b. Records of any spills
   c. Records of any unusual incidents that involve the spread of contamination

These records will be kept in a locked file cabinet in Mr. Jim Horton's office. His office is located at our scalehouse location at 1100 Quarry Rd., Corydon, IN 47112.

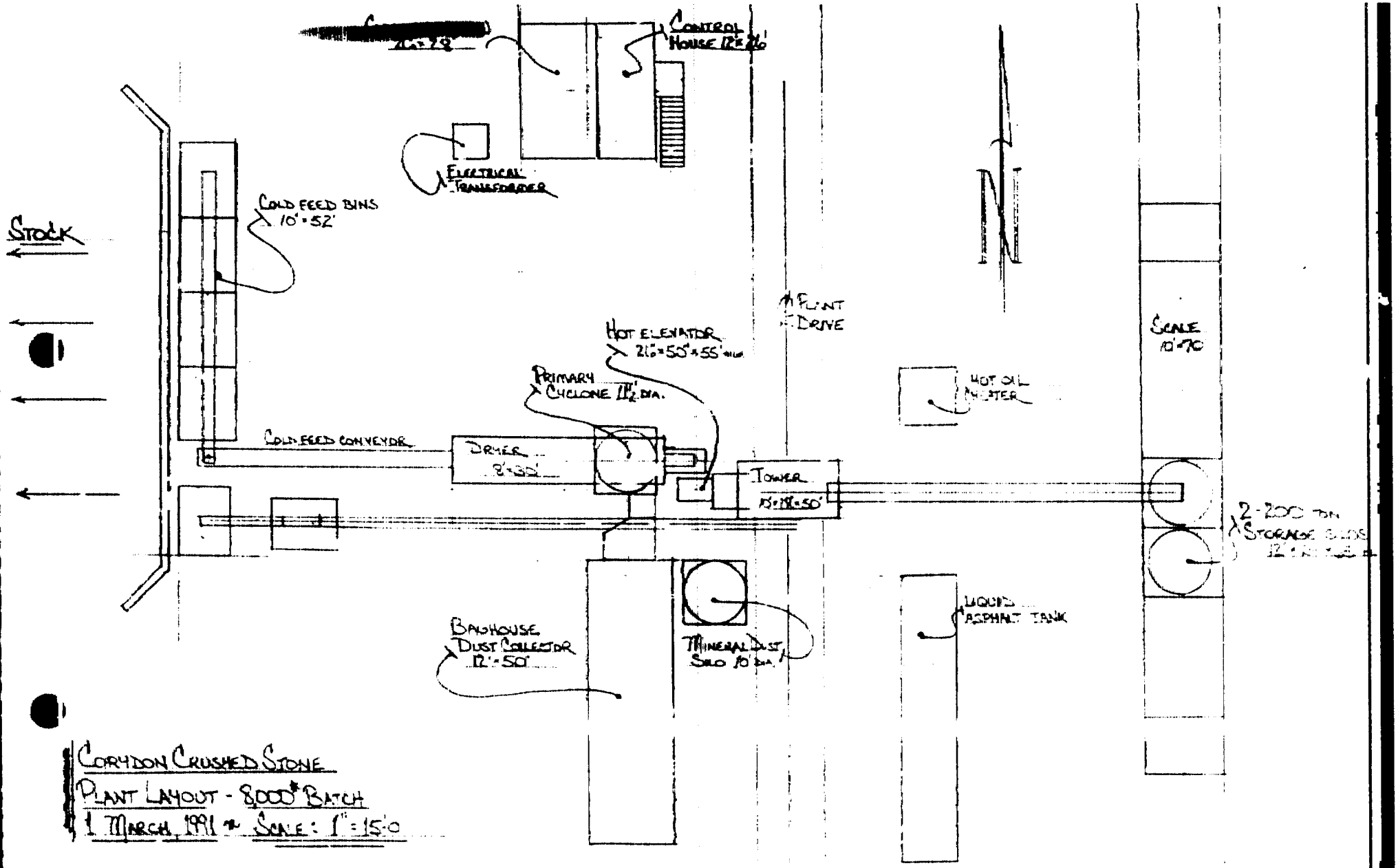
ITEM 11 - WASTE MANAGEMENT

1. Disposal will be by transfer of the radioactive material to a person who is specifically licensed to receive and possess it.



The gauges will be stored at 1100 Quarry Rd., Corydon, Indiana, when not in use. They will be stored in a locked tool cabinet in the control house garage at our asphalt plant. This is a layout of our property showing the asphalt plant. Attached is a specific plant drawing showing the location of the garage. The controls for the plant are upstairs and this would be the nearest occupied area at a distance of 25 feet.

CORYDON CRUSHED STONE & LIME CO., INC.
APPLICATION FOR MATERIAL LICENSE
SUPPLEMENT PAGE #11 TO NRC FORM 313



Corydon Crushed Stone
Plant Layout - 8000# Batch
1 March 1991 - Scale: 1" = 15'-0

THIS DOCUMENT MAY BE USED TO VERIFY TRAINING REQUIRED BY 49CFR172, SUBPART H.

[illegible] TROXLER

NAME

5/02/95

TRAINING DATE

Training materials used are part of the Troxler Electronic Laboratories, Inc. Nuclear Gauge Safety Training Program. Topics covered apply to recognition, labeling, preparation for transport, transportation, regulatory compliance, emergency response, personal protection, and accident avoidance only as they apply to radioactive White I and Yellow II portable gauging devices.

TROXLER ELECTRONIC LABORATORIES, INC.
3008 CORNWALLIS ROAD
P.O. BOX 12057
RESEARCH TRIANGLE PARK, NC 27709

[illegible] JONES

INSTRUCTOR

I hereby certify that the above named employee has been properly trained and tested in accordance with the requirements of 49CFR172,subpart H

Martin E. Jackson, President

COMPANY OFFICIAL

5/02/97

EXPIRATION DATE

COMPANY AND ADDRESS

TROXLER

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[illegible]

NAME

[illegible]

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RESEARCH TRIANGLE PARK, NC 27709

[illegible]

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Martin J. Hackman, President

COMPANY OFFICIAL

[illegible]

EXPIRATION DATE

COMPANY AND ADDRESS

TROXLER

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JAMES E. HORTON

NAME

5/23/89

TRAINING DATE

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[illegible]
INSTRUCTOR

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Martin J. Jackson, Jr., President
COMPANY OFFICIAL

5/23/91
EXPIRATION DATE

COMPANY AND ADDRESS

TROXLER

TROXLER ELECTRONIC LABORATORIES, INC.

HEREBY CERTIFIES THAT

[redacted]

of

[redacted]

HAS SUCCESSFULLY COMPLETED THE TROXLER ELECTRONIC LABORATORIES, INC. TRAINING COURSE FOR THE USE OF NUCLEAR TESTING EQUIPMENT.

SUBJECTS INCLUDED IN THIS COURSE WERE AS FOLLOWS:

Radiological Safety

1. Principles and practices of radiation protection.
2. Leak testing procedures.
3. Mathematics and calculations basic to the use and measurement of radioactivity.
4. Biological effects of radiation.
5. Radioactivity measurement standardization and monitoring techniques and instruments.
6. Accident and incident procedures.
7. Procedures for nuclear gauge storage and transportation.
8. General safety precautions.

Gauge Operation

1. Instrument theory
2. Operating procedures
3. Maintenance
4. Field application
5. Gauge calibration

[redacted]

Frank D. Jones

[redacted]

[redacted]

INSTRUCTOR | DATE | PRESIDENT

TROXLER ELECTRONIC LABORATORIES, INC.

HEREBY CERTIFIES THAT

[illegible]

of

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3. *Mathematics and calculations basic to the use and measurement of radioactivity.*
4. *Biological effects of radiation.*
5. *Radioactivity measurement standardization and monitoring techniques and instruments.*
6. *Accident and incident procedures.*
7. *Procedures for nuclear gauge storage and transportation.*
8. *General safety precautions.*

Gauge Operation

1. Instrument theory
2. *Operating procedures*
3. Maintenance
4. Field application
5. *Gauge calibration*

[illegible]

Frank S. Jones

INSTRUCTOR	DATE	PRESIDENT

TROXLER ELECTRONIC LABORATORIES, INC.

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4. *Field application*
5. *Gauge calibration*

[redacted]

Frank D. Jones

FRANK D. JONES

INSTRUCTOR

[redacted]

DATE

[redacted]

PRESIDENT

13-26644-01
030-33832

VOID SHEET

TO: License Fee Management Branch

FROM: Jim Richards

SUBJECT: VOIDED APPLICATION

Control Number: 398425

Applicant: Corydon Crushed Stone & Lime Co.

Date Voided: 4/28/95

Reason for Void: Licensee will resubmit application for M/D gauge and refer to control 398425.

W. P. Reinhold 2 May 1995
Signature Date

Attachment:
Official Record Copy of
Voided Action

FOR LFMB USE ONLY

Final Review of VOID Completed:

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

398556
ML
30

Comments: _____ Log completed ☐