

MATERIALS LICENSE

Amendment No. 09

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.

301748

Licensee

1. American Engineering
Testing, Inc.
2. 2102 University Avenue West
St. Paul, MN 55114

In accordance with letter dated
August 2, 19963. License Number 22-20271-01 is amended in
its entirety to read as follows:

4. Expiration Date May 31, 2002

5. Docket or
Reference No. 030-181806. Byproduct, Source, and/or
Special Nuclear Material7. Chemical and/or Physical
Form8. 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 10
millicuries

B. Americium-241

B. Sealed source
(Troxler Dwg.
No. A-102451)B. No single source
to exceed 50
millicuries

C. Cesium-137

C. Sealed source
(Campbell Pacific
Nuclear Model
No. CPN-131)C. No single source
to exceed 10
millicuries

D. Americium-241

D. Sealed source
(Campbell Pacific
Nuclear Model
No. CPN-131)D. No single source
to exceed 50
millicuries

E. Cesium-137

E. Sealed source
(Humboldt
Scientific, Ind.
Dwg. No. 2200064)E. No single source
to exceed 11
millicuries

F. Americium-241

F. Sealed source
(Humboldt
Scientific, Ind.
Dwg. No. 2200067)F. No single source
to exceed 44
millicuries9610070038 960920
PDR ADOCK 03018180
C PDR

COPY

oh
mc
230
SD

MATERIALS LICENSE
SUPPLEMENTARY SHEETLicense Number
22-20271-01Docket or Reference Number
030-18180

Amendment No. 09

9. Authorized Use:

- A. and B. To be used in Troxler Model 3400 Series surface moisture/density gauges.
- C. and D. To be used in Campbell Pacific Nuclear Corporation Model MC Series surface moisture/density gauges.
- E. and F. To be used in Humboldt Scientific, Inc. Model 5001 Series surface moisture/density gauges.

CONDITIONS

10. Licensed material may be used at the licensee's facilities located at:

2102 University Ave. W
St. Paul, MNWest Michigan Street, Suite 4
Duluth, MN1730 First Avenue
Mankato, MN4410 19th St. N.W.
Rochester, MNSchofield Ave., Suites 1, 2 and 4B
Schofield, WIWest College Drive
Marshall, MN

and 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. Licensed material shall be used by, or under the supervision and in the physical presence of, individuals who have satisfactorily completed the device manufacturer's training program or the licensee's training program in accordance with letter dated September 1, 1994 for portable gauge users and have been designated by the licensee's Radiation Protection Officer. The licensee shall maintain records of the individuals who have been designated as authorized users.
- B. The Radiation Protection Officer for the activities authorized by this license is Michael D. Rewitzer.
- C. The Alternate Radiation Protection Officer for the activities authorized by this license is Gregory C. Owens.
12. 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.

COPY

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

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22-20271-01

Docket or Reference Number
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- B. 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.
- C. 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
 - (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.
- D. 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.
- E. The licensee is authorized to collect leak test samples for analysis by Troxler Electronics, 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.
13. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders by the licensee.

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14. 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.
15. The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under the license.
16. 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."
17. 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.
18. 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.
19. 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.
20. 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. Letter dated May 4, 1992 (with attachments) (excluding requests for in-house training of gauge users).
 - B. Letters dated March 22, 1994, September 1, 1994 and August 2, 1996 with attachments.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date

September 20, 1996

By

Patricia M. Jackson

Nuclear Materials Licensing Branch, Region III

COPY

(FOR LFMS USE)
INFORMATION FROM LTS

BETWEEN:

License Fee Management Branch, ARM
and
Regional Licensing Sections

Program Code: 03121
Status Code: 0
Fee Category: 3P
Exp. Date: 20020531
Fee Comments:
Decom Pin Assur Req'd: N

R7

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee: AMERICAN ENGINEERING TESTING, INC.
Received Date: 960820
Docket No: 3018180
Control No.: 301748
License No.: 22-20271-01
Action Type: Amendment

2. FEE ATTACHED

Amount: 300
Check No.: 13933

3. COMMENTS

Signed
Date

D. Hersey
8-23-96

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered)

1. Fee Category and Amount:

3P \$300

2. Correct Fee Paid. Application may be processed for:

Amendment ☒
Renewal ☐
License ☐

3. OTHER

Signed
Date

SC 8/27/96

SEP 03 1996

1996 AUG 26 AM 11:20

Log	Aug 12 III
Remitter	
Check No.	13933
Amount	\$300
Fee Category	3P
Type of Fee	Am
Date Check Rec'd	8/26/96
Date Completed	8/27/96
By:	SC



AMERICAN
ENGINEERING
TESTING, INC.

CONSULTANTS
• GEOTECHNICAL
• MATERIALS
• ENVIRONMENTAL

August 2, 1996

Materials Nuclear Regulatory Commission
Region III
801 Warrenville Road
Lisle, IL 60532-4351

Re: Amendment of Materials License #22-20271-01

Item #3

Add to our list of facilities one new branch laboratory located at Route 4, Box 1, West College Drive, Marshall, MN 56258 and a new building located at 2102 University Ave W., St. Paul, MN 55114.

Item #9

Replace facility sketch of our construction materials department in St. Paul with sketch of new building and add facility sketch for our Marshall, Minnesota facility.

Included is the 300.00 amendment fee. Thank you.

Sincerely,

Michael D. Rewitzer
Radiation Protection Officer

Terrance E. Swor
President

MDR:TES/maa

Enclosure

RECEIVED

AUG 20 1996

REGION III

AUG 20 1996

Pm 8/16/96

AN AFFIRMATIVE ACTION EMPLOYER

2102 University Ave. W. • St. Paul, MN 55114 • 612-659-9001 • Fax 612-659-1379
Duluth • Mankato • Rochester • Wausau

301748

OVERHEAD DOOR

23'

STORAGE

18'

TROXLER
STORAGE

45'

LAB

OVERHEAD DOOR

24'

OFFICE

15'

NOTE:

APPROXIMATELY 40 MAN-HOURS OF
OCCUPANCY / WEEK IN LAB AND
OFFICE AREAS

WEST COLLEGE DRIVE



AMERICAN
ENGINEERING
TESTING, INC.

PROJECT MARSHALL OFFICE
ROUTE 4, BOX 1 WEST COLLEGE DR

SUBJECT

SCALE

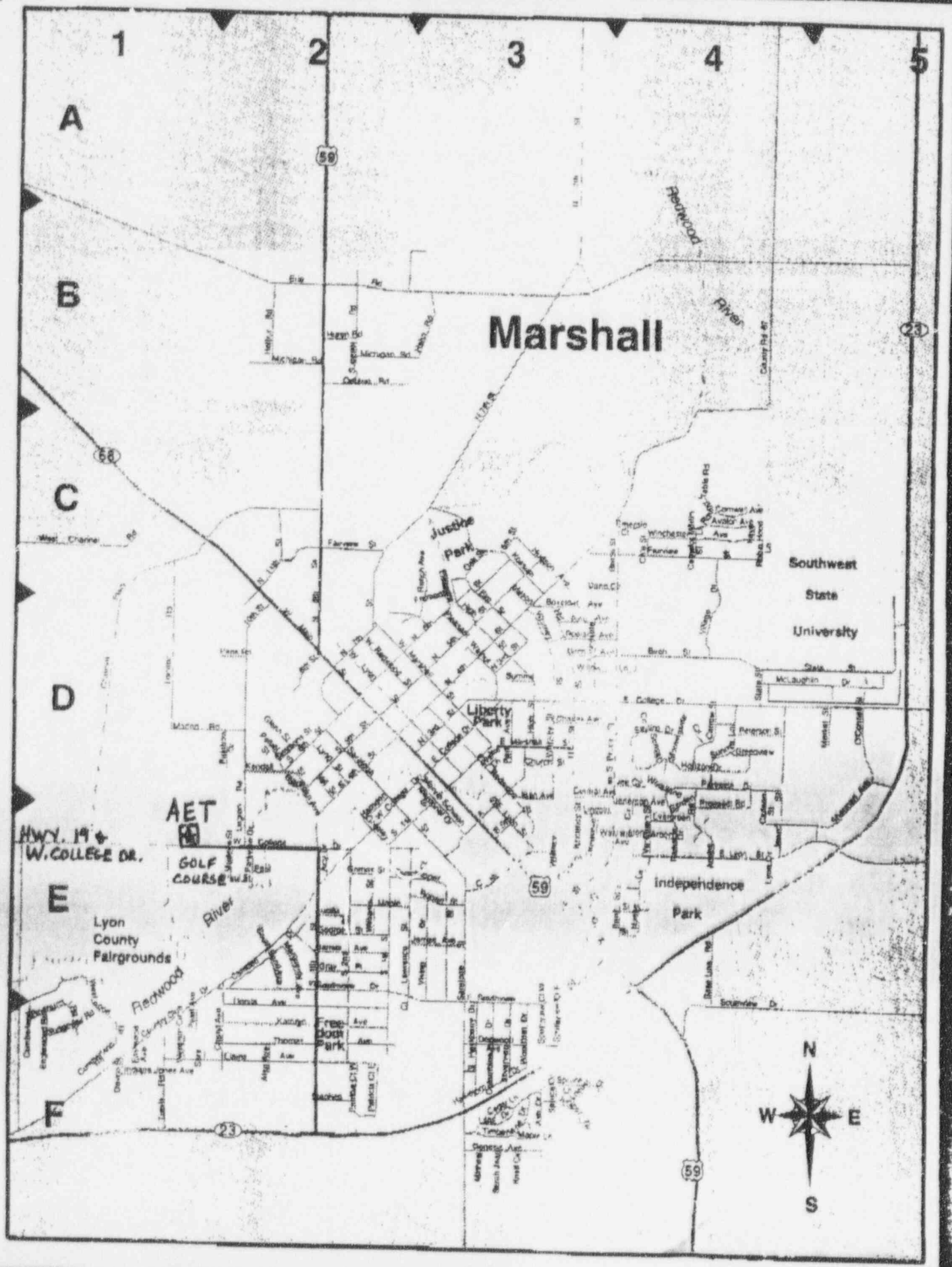
DRAWN
BY

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BY

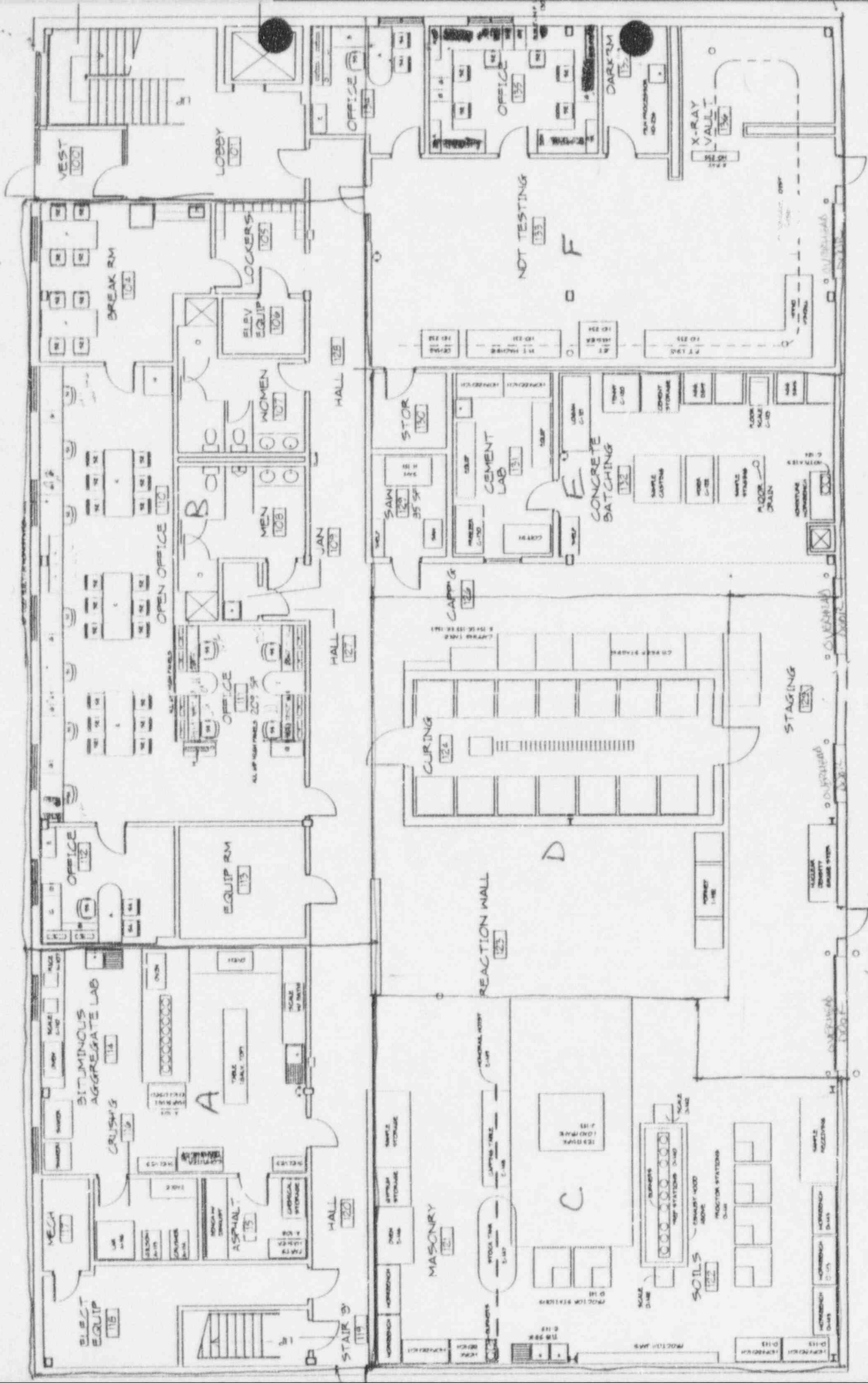
AET JOB NO.

DATE

PAGE



Bldg 4
2102 UNIVERSITY AVE W
ST. PAUL, MN.



ESTIMATED MAN-HOURS / WEEK OCCUPANCY:

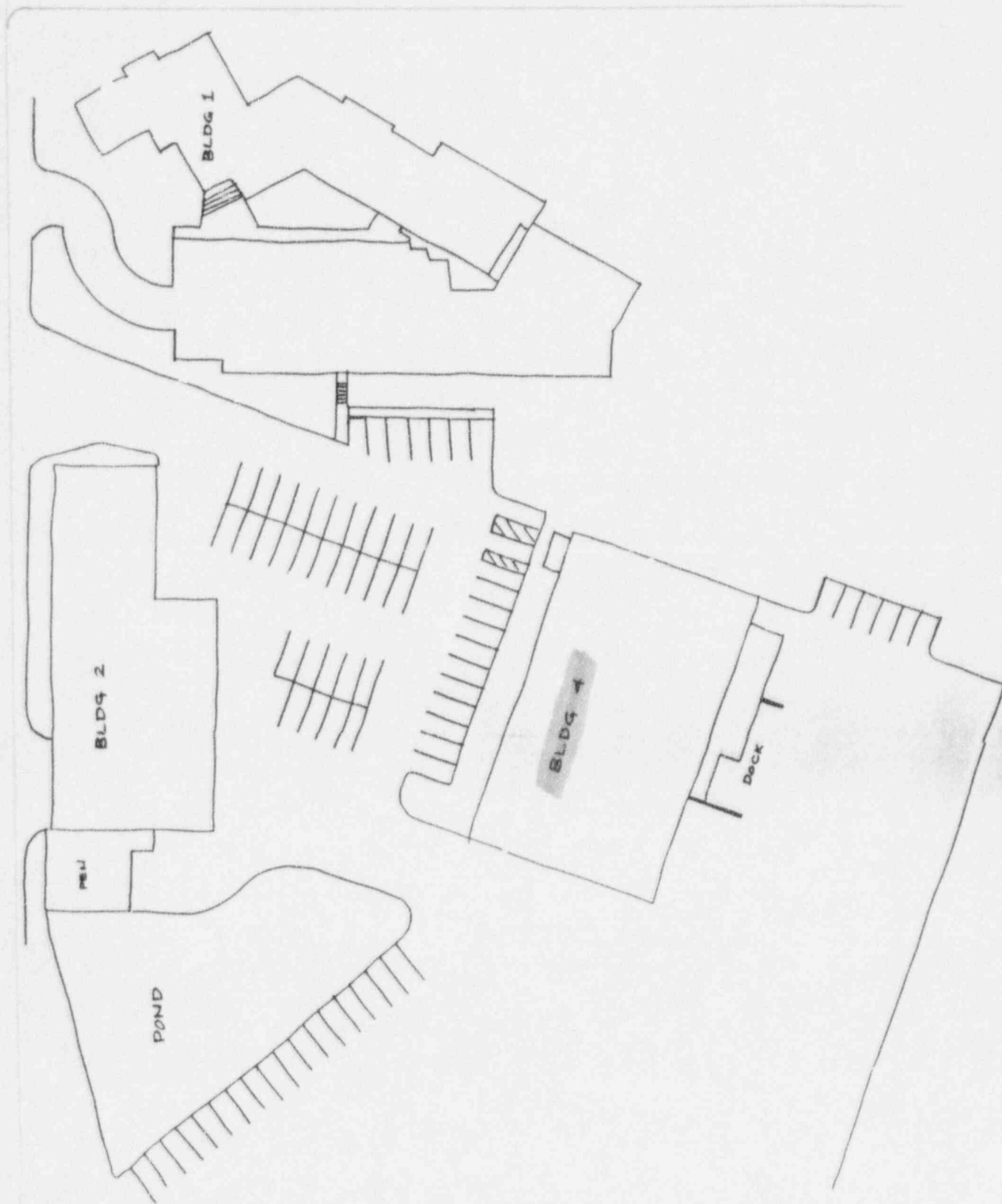
Area	Man-Hours
A	60
B	180
C	200
D	100
E	20
F	40

AMERICAN ENGINEERING TESTING
2102 UNIVERSITY AVE W.
ST. PAUL, MINN.



UNIVERSITY AVE W.

CLEVELAND AVE.



SEP 23 1996

Michael D. Rewitzer
Radiation Safety Officer
American Engineering Testing, Inc.
2102 University Ave., West
St. Paul, MN 55114

Dear Mr. Rewitzer:

Enclosed is Amendment No. 09 to your NRC Material License No. 22-20271-01 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.

Note that your expiration date has been extended by five years. Please refer to our letter to you dated May 6, 1996 for details.

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

301748

3. 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.
4. 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.
5. 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

M. Rewitzer

-3-

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
Patricia M. Vacherlon
Nuclear Materials Licensing Branch

License No.: 22-20271-01

Docket No.: 030-18180

Enclosure: Amendment No. 09

DOCUMENT NAME: M:\03018180.CL6

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	DNMS/RIII								
NAME	PVacherlon/jaw								
DATE	09/20/96 <i>mm</i>								

OFFICIAL RECORD COPY