

NRC Form 313 I
(12-81)
10 CFR 30

U.S. NUCLEAR REGULATORY COMMISSION

1. APPLICATION FOR:
(Check and/or complete as appropriate)

APPLICATION FOR BYPRODUCT MATERIAL LICENSE
INDUSTRIAL

a. NEW LICENSE Yes

b. AMENDMENT TO:
LICENSE NUMBER

c. RENEWAL OF:
LICENSE NUMBER

See attached instructions for details.

Completed applications are filed in duplicate with the Division of Fuel Cycle and Material Safety, Office of Nuclear Material Safety, and Safeguards, U.S. Nuclear Regulatory Commission, Washington, DC 20555 or applications may be filed in person at the Commission's office at 1717 H Street, NW, Washington, D. C. or 7915 Eastern Avenue, Silver Spring, Maryland.

2. APPLICANT'S NAME (Institution, firm, person, etc.)

Atlantic States Cast Iron Pipe Company

TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION
201-454-1161

3. NAME AND TITLE OF PERSON TO BE CONTACTED
REGARDING THIS APPLICATION

Daniel J. Yadzinski, Mgr. of Engineering

TELEPHONE NUMBER: AREA CODE - NUMBER EXTENSION
Same

4. APPLICANT'S MAILING ADDRESS (Include Zip Code)

(Address to which NRC correspondence, notices, bulletins, etc., should be sent.)

183 Sitgreaves Street
Phillipsburg, N.J. 08865

5. STREET ADDRESS WHERE LICENSED MATERIAL WILL BE USED
(Include Zip Code)

Same

(IF MORE SPACE IS NEEDED FOR ANY ITEM, USE ADDITIONAL PROPERLY KEYED PAGES.)

6. INDIVIDUAL(S) WHO WILL USE OR DIRECTLY SUPERVISE THE USE OF LICENSED MATERIAL

(See Items 16 and 17 for required training and experience of each individual named below)

FULL NAME

TITLE

a. William R. Mason

Production Manager

b. Samuel Imboden

Melting Foreman

c. Michael Stefano, Jr.

General Melting Foreman

7. RADIATION PROTECTION OFFICER

Joseph E. Maddock, III

Attach a resume of person's training and experience as outlined in Items 16 and 17 and describe his responsibilities under Item 15.

Safety Supervisor

8. LICENSED MATERIAL

L I N E NO.	ELEMENT AND MASS NUMBER A	CHEMICAL AND/OR PHYSICAL FORM B	NAME OF MANUFACTURER AND MODEL NUMBER (If Sealed Source) C	MAXIMUM NUMBER OF MILLICURIES AND/OR SEALED SOURCES AND MAXIMUM ACTI- VITY PER SOURCE WHICH WILL BE POSSESSED AT ANY ONE TIME D
(1)	Cs-137	Sealed	Texas Nuclear Model 57157C	No single source to exceed 1000 millicuries
(2)				
(3)				
(4)				

DESCRIBE USE OF LICENSED MATERIAL

E

"OFFICIAL RECORD COPY"

(1) Indicate level of stock height in a foundry cupola

(2) Applicant... Aug-7-85 I.

(3) Check No. 059389

(4) Amount, Fee, Date, Type of Fee... Application

(5) Date Check Recd. 8/15/85

ML10

04109

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29-20885-01
PDR

9. STORAGE OF SEALED SOURCES

LINE NO.	CONTAINER AND/OR DEVICE IN WHICH EACH SEALED SOURCE WILL BE STORED OR USED.	NAME OF MANUFACTURER	MODEL NUMBER
	A.	B.	C.
(1)	One each Texas Nuclear Model 5203 source holder.		
(2)			
(3)			
(4)			

10. RADIATION DETECTION INSTRUMENTS

LINE NO.	TYPE OF INSTRUMENT	MANUFACTURER'S NAME	MODEL NUMBER	NUMBER AVAILABLE	RADIATION DETECTED (alpha, beta, gamma, neutron)	SENSITIVITY RANGE (milliroentgens/hour or counts/minute)
	A	B	C	D	E	F
(1)	No radiation detection instrumentation is necessary to safely possess and utilize					
(2)	these devices.					
(3)						
(4)						

11. CALIBRATION OF INSTRUMENTS LISTED IN ITEM 10

<input type="checkbox"/> a. CALIBRATED BY SERVICE COMPANY NAME, ADDRESS, AND FREQUENCY Not Applicable	<input type="checkbox"/> b. CALIBRATED BY APPLICANT <i>Attach a separate sheet describing method, frequency and standards used for calibrating instruments.</i> Not Applicable
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12. PERSONNEL MONITORING DEVICES

TYPE (Check and/or complete as appropriate.) A	SUPPLIER (Service Company) B	EXCHANGE FREQUENCY C
<input type="checkbox"/> (1) FILM BADGE <input type="checkbox"/> (2) THERMOLUMINESCENCE DOSIMETER (TLD) <input type="checkbox"/> (3) OTHER (Specify): _____ _____ _____	See Addendum No. 12	<input type="checkbox"/> MONTHLY <input type="checkbox"/> QUARTERLY <input type="checkbox"/> OTHER (Specify): _____ _____ _____

13. FACILITIES AND EQUIPMENT (Check where appropriate and attach annotated sketch(es) and description(s).)

- ☐ a. LABORATORY FACILITIES, PLANT FACILITIES, FUME HOODS (Include filtration, if any), ETC.
☐ b. STORAGE FACILITIES, CONTAINERS, SPECIAL SHIELDING (fixed and/or temporary), ETC.
☐ c. REMOTE HANDLING TOOLS OR EQUIPMENT, ETC. See Addendum No. 13
☐ d. RESPIRATORY PROTECTIVE EQUIPMENT, ETC.

14. WASTE DISPOSAL

a. NAME OF COMMERCIAL WASTE DISPOSAL SERVICE EMPLOYED

b. IF COMMERCIAL WASTE DISPOSAL SERVICE IS NOT EMPLOYED, SUBMIT A DETAILED DESCRIPTION OF METHODS WHICH WILL BE USED FOR DISPOSING OF RADIOACTIVE WASTES AND ESTIMATES OF THE TYPE AND AMOUNT OF ACTIVITY INVOLVED. IF THE APPLICATION IS FOR SEALED SOURCES AND DEVICES AND THEY WILL BE RETURNED TO THE MANUFACTURER, SO STATE.

No waste disposal is involved. In the event that the gauge is damaged or its use discontinued, we shall notify Texas Nuclear for removal and return the gauge for repair or disposal of the source material.

INFORMATION REQUIRED FOR ITEMS 15, 16 AND 17

Describe in detail the information required for Items 15, 16 and 17. Begin each item on a separate page and key to the application as follows:

See Addendum No. 15

15. **RADIATION PROTECTION PROGRAM.** Describe the radiation protection program as appropriate for the material to be used including the duties and responsibilities of the Radiation Protection Officer, control measures, bioassay procedures *(if needed)*, day-to-day general safety instruction to be followed, etc. If the application is for sealed source's also submit leak testing procedures, or if leak testing will be performed using a leak test kit, specify manufacturer and model number of the leak test kit.

See Addendum No. 16/17

16. **FORMAL TRAINING IN RADIATION SAFETY.** Attach a resume for each individual named in Items 6 and 7. Describe individual's formal training in the following areas where applicable. Include the name of person or institution providing the training, duration of training, when training was received, etc.

- a. Principles and practices of radiation protection.
- b. Radioactivity measurement standardization and monitoring techniques and instruments.
- c. Mathematics and calculations basic to the use and measurement of radioactivity.

d. Biological effects of radiation.

See Addendum No. 16/17

17. **EXPERIENCE.** Attach a resume for each individual named in Items 6 and 7. Describe individual's work experience with radiation, including where experience was obtained. Work experience or on-the-job training should be commensurate with the proposed use. Include list of radioisotopes and maximum activity of each used.

18. CERTIFICATE

(This item must be completed by applicant)

The applicant and any official executing this certificate on behalf of the applicant named in Item 2, certify that this application is prepared in conformity with Title 10, Code of Federal Regulations, Part 30, and that all information contained herein, including any supplements attached hereto, is true and correct to the best of our 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.

a. LICENSE FEE REQUIRED
(See Section 170.31, 10 CFR 170)

\$230.00

(1) LICENSE FEE CATEGORY:

(2) LICENSE FEE ENCLOSED: \$ 230.00

b. CERTIFYING OFFICIAL *(Signature)*

c. NAME *(Type or print)*
J. D. Singleton

d. TITLE
Vice President and General Manager

e. DATE
July 10, 1985

ATLANTIC STATES CAST IRON PIPE COMPANY

ADDENDUM NO. 12

Personnel Monitoring

No additional personnel monitoring devices need be utilized due to the presence of these gauging devices. The source holder(s) are designed such that radiation levels will be less than 5 mR/h one foot from any accessible surface at the maximum source loading for the device with the device in the OFF position. With the shutter(s) open, a collimated beam of radiation exists between the source head and detector traversing the vessel being monitored. It is not likely, when consideration is given to the design of the device, the precautions to be taken itemized below and the minimal accessibility, that any individual will receive a radiation exposure in excess of 0.125 rem per calendar quarter.

ATLANTIC STATES CAST IRON PIPE COMPANY

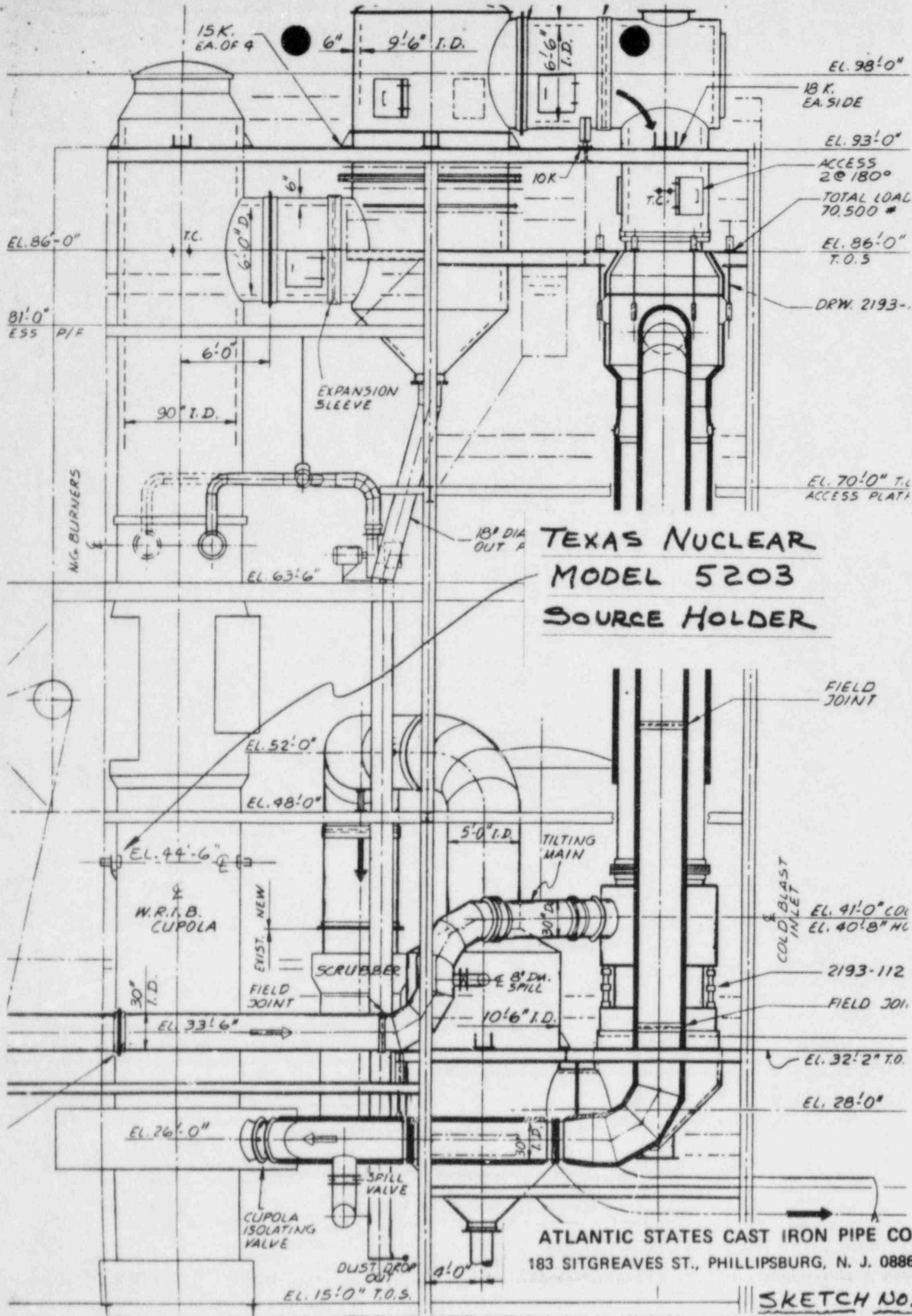
ADDENDUM NO. 13

Facilities and Equipment

The "Texas Nuclear" Model No. 5203 is to be used in a foundry cupola for the purpose of indicating the stock height within.

This device is located in an area where there is no access to within three feet except by ladder for periodic inspection. (Ref. Sketch No. 13).

There are no severe environmental conditions that can affect the integrity of the source and shielding. All environmental factors have been presented to the manufacturer for evaluation prior to specifying this device.



ATLANTIC STATES CAST IRON PIPE CO.
 183 SITGREAVES ST., PHILLIPSBURG, N. J. 08865

SKETCH NO. 13

ATLANTIC STATES CAST IRON PIPE COMPANY

ADDENDUM NO. 15

Radiation Protection

Based upon working conditions and physical accessibility, we estimate that 2 persons would routinely be within three feet of any of these devices 1 hour per week.

Our personnel will be instructed as to the size and location of the beam, the radiation levels in the beam and will be cautioned that unless the shutter is CLOSED these radiation levels are significant. These devices have the capability of producing high level radiation between the source holder and the detector. However, the combination of:

- i. during normal operation no individual has access to the vessel. The contained material and operating parameters preclude the access of any major portion of the body to the radiation field. Only authorized personnel are allowed to change the operating parameters and/or authorize access;
- ii. personnel are instructed to CLOSE the gauge shutter when the operation is stopped and/or work must be done in any vessel being monitored;
- iii. if the operation is to be shut down for any extended period of time or extensive work is to be done on the vessel, the radiation safety officer will be notified to insure that the shutter is locked in the CLOSED position and remains locked during this period of time;
- iv. signs displaying "Caution Radiation" and the standard symbol stating that the shutter must be CLOSED and the radiation safety officer notified prior to entering the vessel being monitored will be posted at installation;
- v. the general inaccessibility of these devices;

should be sufficient to prevent unauthorized entry to the radiation beam and preclude any unintentional radiation exposure.

Texas Nuclear personnel will perform the initial radiation survey and leak testing at the time of installation. Additionally, our personnel will receive specific training at the time of installation. This training will include construction features of the device, source integrity, beam geometry and intensity and operating details of the device. Any precautionary steps like the addition of shielding,

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signs, or precautions to be taken will be covered at the time in accordance with Texas Nuclear installation procedures and training.

The source holder will be tested for source integrity:

Model 5203 at least once every three years.

Leak testing will be performed by Texas Nuclear Procedure QT/lK.

In the event some catastrophic emergency occurs and this device may be involved, we will notify Texas Nuclear and await further instructions.

Any repair, relocation or removal of the source holder will be done by Texas Nuclear personnel.

No waste disposal is involved. In the event that the gauge is damaged or its use discontinued, we shall notify Texas Nuclear for removal and return the gauge for repair or disposal of the source material.

A radiation survey will be performed by Texas Nuclear personnel upon installation to assure the radiation levels around the device and in accordance with Texas Nuclear installation procedures.

INFORMATION NOTE: All questions concerning licensing or the radiation safety of the devices should be referred to:

Health Physics Section
Texas Nuclear Division
P.O. Box 9267
Austin, Texas 78766

Telephone: 512/836-0801
Ext. 310 or 311

ATLANTIC STATES CAST IRON PIPE COMPANY

ADDENDUM NO. 16

Resumes

- William R. Mason - 202 Aurora Street, Phillipsburg, N.J. 08865
Date of Birth - April 28, 1943
Social Security #135-32-2476
Born in Phillipsburg, N.J. and educated in Phillipsburg School System. Employed by Atlantic States Cast Iron Pipe Co. since August, 1965. Is presently Production Manager.
- Michael Stefano, Jr. - 38 Fox Street, Phillipsburg, N.J. 08865
Date of Birth - April 30, 1940
Social Security #142-28-6629
Born in Phillipsburg, N.J. and educated in Phillipsburg School System.
U. S. Marine Corps, 1960-1964, Corporal, Honorable Discharge
Employed by Atlantic States Cast Iron Pipe Company since February, 1971 and is presently General Foreman of Melting.
- Samuel Imboden - 3054 Hodle Ave., Easton, Pa.
Date of Birth - November 7, 1940
Social Security #165-30-6372
Born in Easton, Pa. and educated in Easton School System. Employed by Atlantic States Cast Iron Pipe Company since November, 1963 and is presently Melting Foreman.
- Joseph E. Maddock, III - 7 Wilson Street, Phillipsburg, N.J. 08865
Date of Birth - January 26, 1938
Social Security #145-30-1325
Born in Phillipsburg, N.J. and educated in Phillipsburg School System. Employed by Atlantic States Cast Iron Pipe Company since June, 1967 as 2nd shift First Aid Attendant, Promoted to Safety Director in 1970. Certified by National Safety Council per Advanced Safety Certificate, completed 1981. Continues participation in safety seminars.

BETWEEN: William O. Miller, Chief
License Fee Management Branch
Office of Administration -

John E. Glenn, Chief
Nuclear Materials Section B
Division of Engineering and
Technical Programs

LICENSE FEE TRANSMITTAL

A. REGION I

1. APPLICATION ATTACHED

Applicant/Licensee: Atlantic States Cast Iron Pipe Company

Application Dated: 7/10/85

Control No.: 04109

License No.: New

2. FEE ATTACHED

Amount: \$ 230.00

Check No.: 50389

3. COMMENTS

Signed Brenda Platchek

Date 7/16/85

B. LICENSE FEE MANAGEMENT BRANCH

1. Fee Category and Amount: \$230 - 3P

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

Amendment

Renewal

License ✓

Signed G. Jackson

Date 8/9/85