



COAL-MAC, INC.
P. O. BOX 1050
22 MINE ROAD
HARLESS INDUSTRIAL PARK
HOLDEN, WV 25625



BUSINESS: (304) 792-8400
FAX: (304) 792-8401

July 16, 2012

Br. 3

RECEIVED
REGION 1
JUL 27 AM 7:14

Licensing Assistance Team
Division of Nuclear Materials Safety
U.S. Nuclear Regulatory Commission, Region 1
475 Allendale Road
King of Prussia, PA 19406-1415

Re: Renewal to License No. 47-25599-01

03036047

Coal-Mac, Inc. hereby requests that the USNRC grant a renewal to License No. 47-25599-01. The requested changes are as follows:

- Remove Americium 241 from the license
- Remove *tie-down* documents identified in License Condition #25

Attached please find the following:

- Attachment A - NRC Form 313
- Attachment B - Appendix B
- Attachment C - Training Certificate
- Attachment D - Equipment photographs
- Attachment E - Inventory
- Attachment F - Radiation Safety Program
- Attachment G - Source Transfer Records

If there are any questions please contact Chuck Waine at 304-687-1500 or cwaine@archcoal.com

Best regards,

Chris Sykes
Coal-Mac, Inc.
President and General Manager

578004
NMSS/RGN1 MATERIALS-002

ATTACHMENT A

APPLICATION FOR MATERIALS LICENSE

Estimated burden per response to comply with this mandatory collection request: 4.4 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. Send comments regarding burden estimate to the Records and FOIA/Privacy Services Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollections@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NE08-10202, (3150-0120), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

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

IF YOU ARE LOCATED IN:

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

MATERIALS LICENSING BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION III
2443 WARRENVILLE ROAD, SUITE 210
Lisle, IL 60532-4352

ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:

IF YOU ARE LOCATED IN:

ALABAMA, CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, FLORIDA, GEORGIA, KENTUCKY, MAINE, MARYLAND, MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, NORTH CAROLINA, PENNSYLVANIA, PUERTO RICO, RHODE ISLAND, SOUTH CAROLINA, TENNESSEE, VERMONT, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO:

LICENSING ASSISTANCE TEAM
DIVISION OF NUCLEAR MATERIALS SAFETY
U.S. NUCLEAR REGULATORY COMMISSION, REGION I
475 ALLENDALE ROAD
KING OF PRUSSIA, PA 19406-1415

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS, LOUISIANA, MISSISSIPPI, 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 BRANCH
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV
812 E. LAMAR BOULEVARD, SUITE 400
ARLINGTON, TX 76011-4125

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

☐ B. AMENDMENT TO LICENSE NUMBER

☒ C. RENEWAL OF LICENSE NUMBER **47-25599-01**

2. NAME AND MAILING ADDRESS OF APPLICANT (Include ZIP code)

**Coal-Mac, Inc.
P.O. Box 1050, 22 Mine Road
Harless Industrial Park
Holden, West Virginia 25625**

3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED

**Ragland Complex - U.S. Route 65N, County Road 5,
Ragland, West Virginia and
Holden 22 Mining Complex, 22 Mine Road, Holden, West
Virginia**

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Charles R. Waine

TELEPHONE NUMBER

304-687-1500

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. LICENSE FEES (See 10 CFR 170 and Section 170.31)

FEE CATEGORY

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

Chris Sykes, President and General Manager

FOR NRC USE ONLY

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

APPROVED BY

DATE

ATTACHMENT B

Appendix B

Suggested Format for Providing Information Requested in Items 5 Through 11 of NRC Form 313

Suggested Format for Providing Information Requested in Items 5 Through 11 of NRC Form 313

Table B.1 Items 5 & 6: Materials To Be Possessed and Proposed Uses

Yes	No	Radioisotope	Manufacturer or Distributor Model No.	Quantity	Use As Listed on SSD Certificate	Specify Other Uses Not Listed on SSD Certificate
	<input checked="" type="checkbox"/>	Cobalt-60	Sealed source manufacturer or distributor and model number: _____ Device manufacturer or distributor and model number: _____	Not to exceed either the maximum activity per source or maximum activity per device as specified in Sealed Source and Device Registration Certificate	Yes <input type="checkbox"/> Specific description of the gauge use: _____ _____ _____ _____ _____	<input type="checkbox"/> Not applicable <input type="checkbox"/> Uses are: _____ (Submit safety analysis supporting safe use)
	<input checked="" type="checkbox"/>	Krypton-85	Sealed source manufacturer or distributor and model number: _____ Device manufacturer or distributor and model number: _____	Not to exceed either the maximum activity per source or maximum activity per device as specified in Sealed Source and Device Registration Certificate	Yes <input type="checkbox"/> Specific description of the gauge use: _____ _____ _____ _____ _____	<input type="checkbox"/> Not applicable <input type="checkbox"/> Uses are: _____ (Submit safety analysis supporting safe use)
	<input checked="" type="checkbox"/>	Strontium-90	Sealed source manufacturer or distributor and model number: _____ Device manufacturer or distributor and model number: _____	Not to exceed either the maximum activity per source or maximum activity per device as specified in Sealed Source and Device Registration Certificate	Yes <input type="checkbox"/> Specific description of the gauge use: _____ _____ _____ _____ _____	<input type="checkbox"/> Not applicable <input type="checkbox"/> Uses are: _____ (Submit safety analysis supporting safe use)
<input checked="" type="checkbox"/>		Cesium-137	Sealed source manufacturer or distributor and model number: <u>SEE ATT'D</u> Device manufacturer or distributor and model number: <u>SEE ATT'D</u>	Not to exceed either the maximum activity per source or maximum activity per device as specified in Sealed Source and Device Registration Certificate	Yes <input checked="" type="checkbox"/> Specific description of the gauge use: _____ _____ _____ _____ _____	<input checked="" type="checkbox"/> Not applicable <input type="checkbox"/> Uses are: _____ (Submit safety analysis supporting safe use)

APPENDIX B

Yes	No	Radioisotope	Manufacturer or Distributor Model No.	Quantity	Use As Listed on SSD Certificate	Specify Other Uses Not Listed on SSD Certificate
	<input checked="" type="checkbox"/>	Americium-241	Sealed source manufacturer or distributor and model number: _____ Device manufacturer or distributor and model number: _____	Not to exceed either the maximum activity per source or maximum activity per device as specified in Sealed Source and Device Registration Certificate	Yes <input type="checkbox"/> Specific description of the gauge use: _____ _____ _____ _____ _____	<input type="checkbox"/> Not applicable <input type="checkbox"/> Uses are: _____ (Submit safety analysis supporting safe use)
<input checked="" type="checkbox"/>		Other Isotope (Specify): Cf-252	Sealed source manufacturer or distributor and model number: SEE ATT'D Device manufacturer or distributor and model number: SEE ATT'D	Not to exceed either the maximum activity per source or maximum activity per device as specified in Sealed Source and Device Registration Certificate	Yes <input checked="" type="checkbox"/> Specific description of the gauge use: _____ _____ _____ _____ _____	<input checked="" type="checkbox"/> Not applicable <input type="checkbox"/> Uses are: _____ (Submit safety analysis supporting safe use)
<i>Financial Assurance Required and Evidence of Financial Assurance Provided</i>						

Table B.2 Items 7 Through 11: Training and Experience, Facilities and Equipment, Radiation Safety Program, and Waste Disposal

Item No. and Title	Suggested Response	Yes	Alternative Procedures Attached
<p>7. Individual(s) Responsible For Radiation Safety Program And Their Training And Experience</p> <p>7.1 Radiation Safety Officer</p> <p>Name: <u>Charles R. Wayne</u></p>	<p>Before obtaining licensed materials, the proposed RSO will have successfully completed the training described in Criteria in the section entitled "Individual(s) Responsible for Radiation Safety Program and Their Training and Experience - Radiation Safety Officer" in NUREG-1556, Vol. 4, dated October 1998.</p> <p>AND</p> <p>Before being named as the RSO, future RSOs will have successfully completed the training described in Criteria in the section entitled "Individual(s) Responsible for Radiation Safety Program and Their Training and Experience - Radiation Safety Officer" in NUREG-1556, Vol. 4, dated October 1998. Within 30 days of naming a new RSO, we will submit the new RSO's name to NRC to include in our license.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>7. Individual(s) Responsible For Radiation Safety Program And Their Training And Experience</p> <p>7.2 Authorized Users</p>	<p>PROPOSED AUTHORIZED USERS:</p> <p>Before using licensed materials, authorized users will have successfully completed the training described in Criteria in the section entitled, "Authorized Users" in NUREG-1556, Vol. 4, dated October 1998.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>8. Training for Individuals Who in the Course of Employment are Likely to Receive Occupational Doses of Radiation in Excess of 1 mSv (100 mrem) in a Year (Occupationally Exposed Workers) and Ancillary Personnel</p>	<p>The applicant is <i>not</i> required to, and should not, submit a training program, for individuals who in the course of employment are likely to receive occupational doses of radiation in excess of 1 mSv (100 mrem) in a year (occupationally exposed workers) and ancillary personnel, to the NRC for review during the licensing phase.</p>	Need Not Be Submitted with Application	

APPENDIX B

Item No. and Title	Suggested Response	Yes	Alternative Procedures Attached
9. Facilities and Equipment	We will ensure that the location of each fixed gauge meets the Criteria in the section entitled "Facilities and Equipment" in NUREG-1556, Vol. 4, dated October 1998.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. Radiation Safety Program - Audit Program	The applicant is <i>not</i> required to, and should not, submit its audit program to the NRC for review during the licensing phase.	Need Not Be Submitted with Application	
10. Radiation Safety Program - Survey Instruments	<p>Surveys pursuant to 10 CFR 20.1501 will be performed by a person specifically authorized by the NRC or an Agreement State to perform these surveys.</p> <p style="text-align: center;">OR</p> <p>We will use instruments that meet the Criteria in the section entitled "Radiation Safety Program - Instruments," in NUREG-1556, Vol. 4, dated August 1998, and <i>one</i> of the following:</p> <p>Each survey meter will be calibrated by the manufacturer or other person authorized by the NRC or an Agreement State to perform survey meter calibrations.</p> <p style="text-align: center;">OR</p> <p>We will implement the model survey instrument calibration program in Appendix I to NUREG-1556, Vol. 4, dated October 1998.</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. Radiation Safety Program - Material Receipt and Accountability	Physical inventories will be conducted at intervals not to exceed 6 months or at other intervals approved by the NRC, to account for all sealed sources and devices received and possessed under the license.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. Radiation Safety Program - Occupational Dosimetry	We will perform a prospective evaluation demonstrating that unmonitored individuals are not likely to receive, in one year, a radiation dose in excess of 10% of the allowable limits in 10 CFR Part 20 or we will provide dosimetry that meets the Criteria in the section entitled "Radiation Safety Program - Occupational Dosimetry," in NUREG-1556, Vol. 4, dated October 1998.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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Item No. and Title	Suggested Response	Yes	Alternative Procedures Attached
10. Radiation Safety Program - Public Dose	The applicant is not required to submit a response to the public dose section during the licensing phase. However, during NRC inspections, licensees must be able to provide documentation demonstrating, by measurement or calculation, that the total effective dose equivalent to the individual likely to receive the highest dose from the licensed operation does not exceed the annual limit for individual members of the public.	Need Not Be Submitted with Application	
10. Radiation Safety Program - Operating & Emergency Procedures	<p>If the gauge meets one or more of the safety conditions specified in "Discussion," in the section entitled "Radiation Safety Program-Operating Emergency Procedures," in NUREG 1556, Vol. 4, dated August 1998 state the following:</p> <p>Operating and emergency procedures will be developed, implemented, maintained, and distributed, and will meet the Criteria in the section entitled "Radiation Safety Program - Operating and Emergency Procedures," in NUREG-1556, Vol. 4, dated August 1998.</p> <p>For each gauge requested that does not meet one or more of the safety conditions specified in "Discussion," in the section entitled "Radiation Safety Program-Operating Emergency Procedures," in NUREG 1556, Vol. 4, dated August 1998 provide your operating, emergency and lock-out (if applicable) procedures to NRC for review.</p>	<p><input checked="" type="checkbox"/></p> <p>Procedures Attached</p>	<p><input type="checkbox"/></p>
10. Radiation Safety Program - Leak Test	<p>Leak tests will be performed at intervals approved by the NRC or an Agreement State and specified in the Sealed Source and Device Registration Certificate. Leak tests will be performed by an organization authorized by NRC or an Agreement State to provide leak testing services for other licensees or using a leak test kit supplied by an organization authorized by NRC or an Agreement State to provide leak test kits to other licensees and according to the kit supplier's instructions.</p> <p style="text-align: center;">OR</p> <p>We will implement the model leak test program published in Appendix M to NUREG-1556, Vol. 4, dated October 1998.</p>	<p><input checked="" type="checkbox"/></p> <p><input type="checkbox"/></p>	<p><input type="checkbox"/></p>

APPENDIX B

Item No. and Title	Suggested Response	Yes	Alternative Procedures Attached
10. Radiation Safety Program - Maintenance	<p><u>ROUTINE MAINTENANCE</u> We will implement and maintain procedures for routine maintenance of our fixed gauges according to each manufacturer's or distributor's written recommendations and instructions.</p> <p><u>NON-ROUTINE MAINTENANCE OPERATIONS</u> The gauge manufacturer, distributor or other person authorized by NRC or an Agreement State will perform non-routine operations such as installation, initial radiation survey, repair, and maintenance of components related to the radiological safety of the gauge, gauge relocation, replacement, and disposal of sealed sources, alignment, or removal of a gauge from service.</p>	<input checked="" type="checkbox"/>	<p><input type="checkbox"/></p> <p><input type="checkbox"/> The information listed in Appendix N supporting a request to perform non-routing operations in-house is attached</p>
10. Radiation Safety Program - Transportation	The applicant is <i>not</i> required to submit its response to transportation during the licensing process; this issue will be reviewed during inspection. However, the licensee should develop, implement, and maintain transportation procedures according to NRC and DOT regulations.	Need Not Be Submitted with Application	
10. Radiation Safety Program - Fixed Gauges Used at Temporary Job Sites	<p>This is not applicable to our program. We will not use fixed gauges at temporary job sites.</p> <p style="text-align: center;">OR</p> <p>We will develop, implement, maintain and distribute procedures that meet the Criteria in the section entitled "Radiation Safety Program - Fixed Gauges Used at Temporary Job Sites" in NUREG-1556, Vol. 4, dated October 1998.</p>	<p><input checked="" type="checkbox"/> Not Applicable</p> <p><input type="checkbox"/></p>	<p><input type="checkbox"/></p>
10. Radiation Safety Program - Minimization of Contamination	The applicant is not required to submit a response to minimization of contamination if the applicant's responses meet the criteria for the following sections: Radioactive Material - Sealed Sources and Devices, Facilities and Equipment, Radiation Safety Program - Operating and Emergency Procedures, Radiation Safety Program - Leak Testing, and Waste Management - Gauge Transfer and Disposal.	Need Not Be Submitted with Application	

APPENDIX B

Item No. and Title	Suggested Response	Yes	Alternative Procedures Attached
11. Waste Management - Gauge Disposal & Transfer	The applicant is not required to submit a response to waste management during the licensing process. However, the licensee should develop, implement, and maintain gauge transfer and disposal procedures in its radiation protection program.		Need Not Be Submitted with Application

Appendix B USNRC License Application

Item 5 Sealed Sources/ Devices

A. Element and Mass Number	B. Chemical and/ or Physical Form	C. Source Manuf/Model	D. Requested Possession Limit
Cs-137	Sealed Source	Amersham Models CDC.704, CDC.705, CDC.806, CDC.P4, CDC.93, CDC.ZT1, IPL Eckert Ziegler Model 225 Cs7.PO2, Cs7.PO4-A Thermo Fisher Models 696894, 57157C	800 mCi Total
Cf-252	Sealed Source	Frontier Technology Model 100 Amersham Model CVN.CY6 QSA Global Models CDC.700 Series, CVN.CYn Series, CVN.CY6, CDC.CY7, CVN.CY8, CVN.CY14, CVN.CY15, CVN.CY16, CVN.CY17 FSUE Model HK252M41 Series GE Hitachi Model GEN-Cf-100 Series IPL Eckert Ziegler Models 3004, 3014, N-252 Series	114.11 mCi Total

Item 6 Purposes of Use

To be used for measuring physical properties of coal and controlling industrial processes as described on device registry.

Thermo Fisher Models 5201 and 5204
Thermo Fisher Model CB-H1
Berthold Technologies Model LB 7440D

Item 7 Radiation Safety Officer

Coal-Mac, Inc. requests that Charles R. Waine be named as Radiation Safety Officer. Mr. Waine shall have the support of Coal-Mac, Inc. management to oversee the program and given the resources necessary to ensure regulatory compliance. A copy of Mr. Waine's training is attached.

Item 8 **Training**

The Radiation Safety Officer and Authorized Users shall have completed training as described in NUREG 1556, Volume #4.

Item 9 **Facilities and Equipment**

See attached photographs

Item 10 **Radiation Safety Program**

A copy of the Coal Mac, Inc.'s Radiation Safety Program including Operating and Emergency Procedures is included as an attachment.

Item 11 **Waste Management**

Coal Mac, Inc. shall ensure that licensed materials are disposed by or transferred to a properly licensed facility.

ATTACHMENT C



CERTIFICATE OF RADIOLOGICAL TRAINING

has successfully completed the

Charles R. Waine II

and successfully completed the

**8 HOUR RADIATION SAFETY OFFICER REFRESHER
TRAINING AND INSTRUCTION AS REQUIRED BY
NUREG-1556, VOLUME 4, APPENDIX G**

*Presented by Applied Health Physics, Inc.
October 12, 2009*

A handwritten signature in black ink, appearing to read 'Todd M. Kelly'.

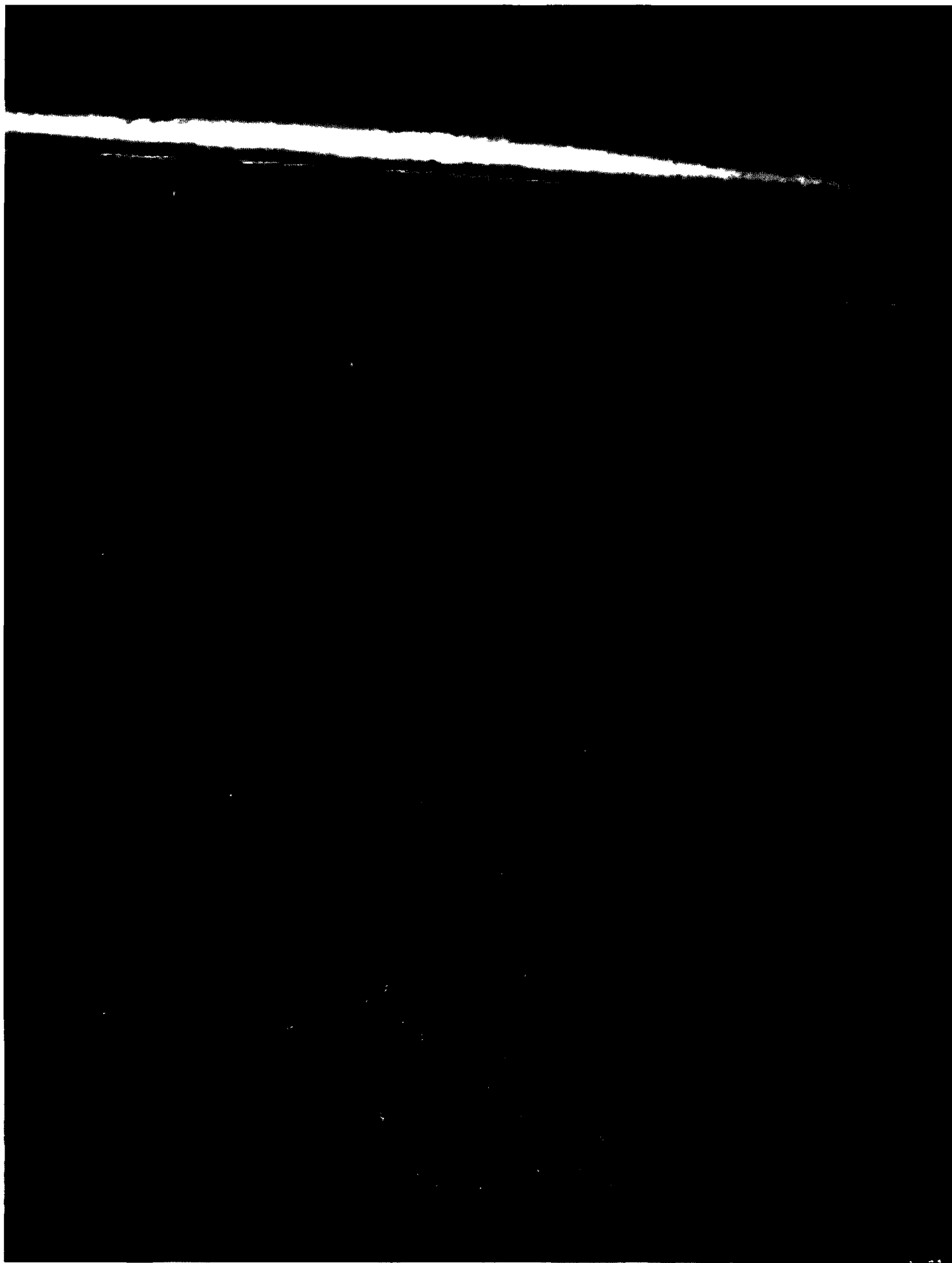
*Todd M. Kelly
President, Applied Health Physics, Inc.*

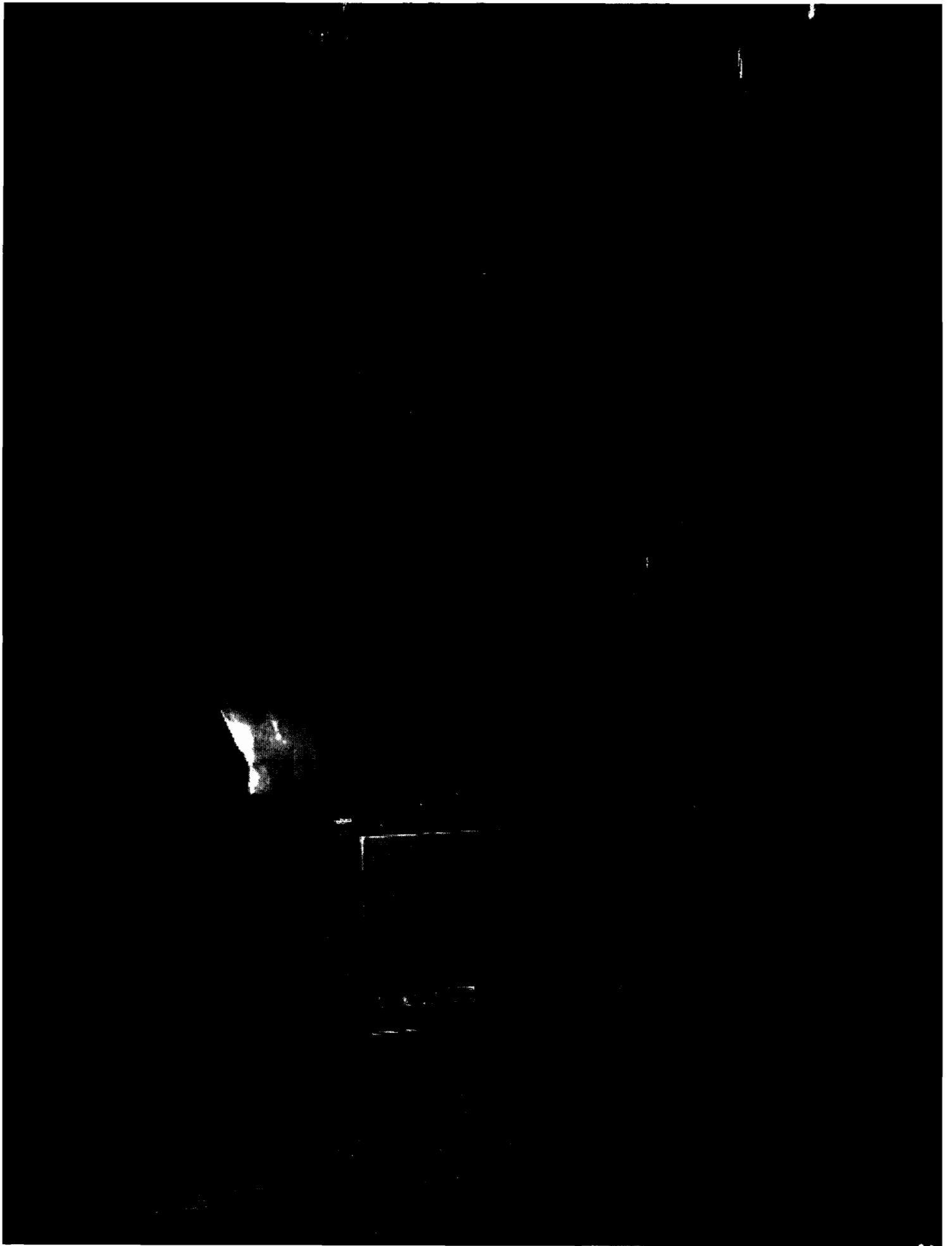
October 12, 2009



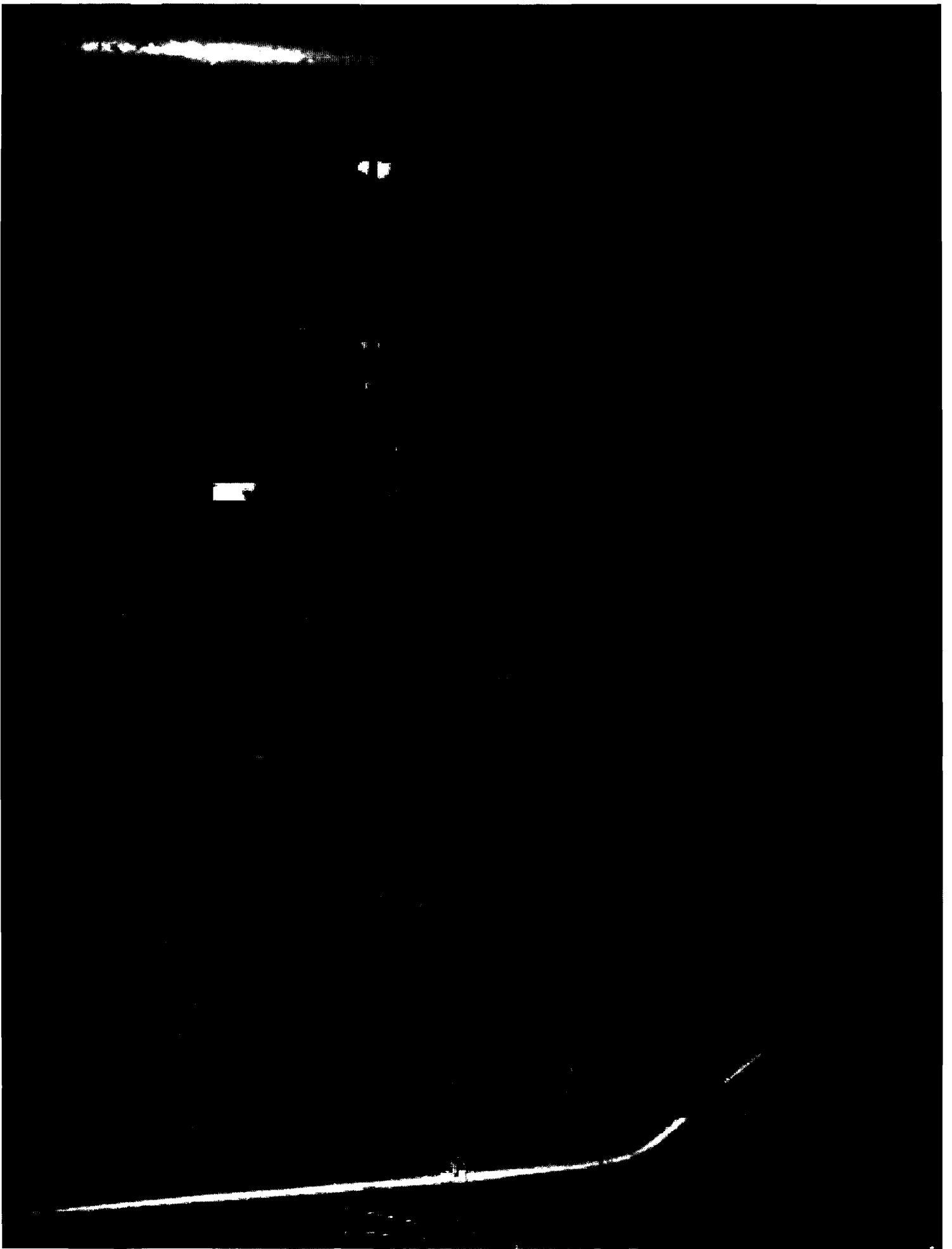
ATTACHMENT D

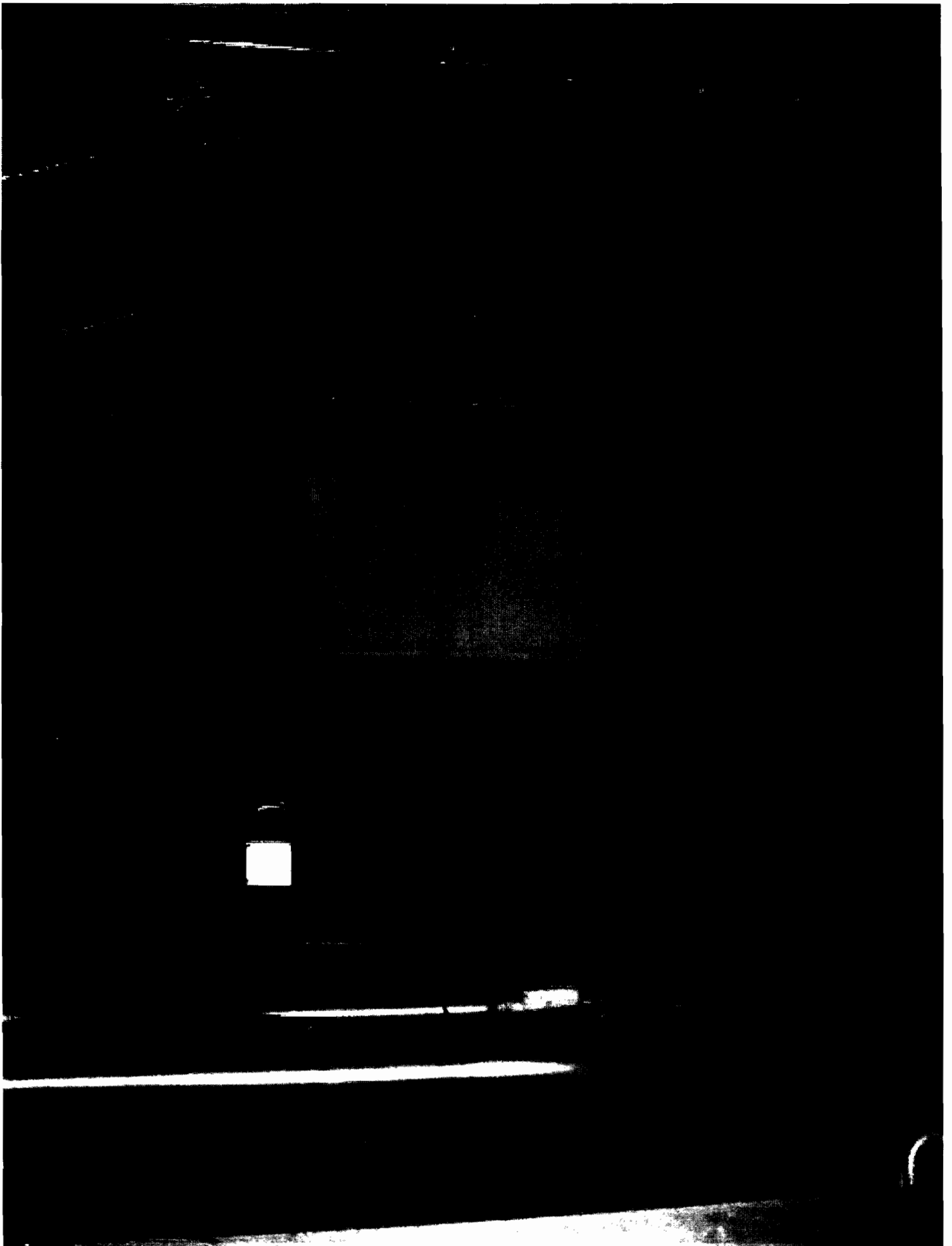
PHOTOS OF DEVICES AT RAGLAND

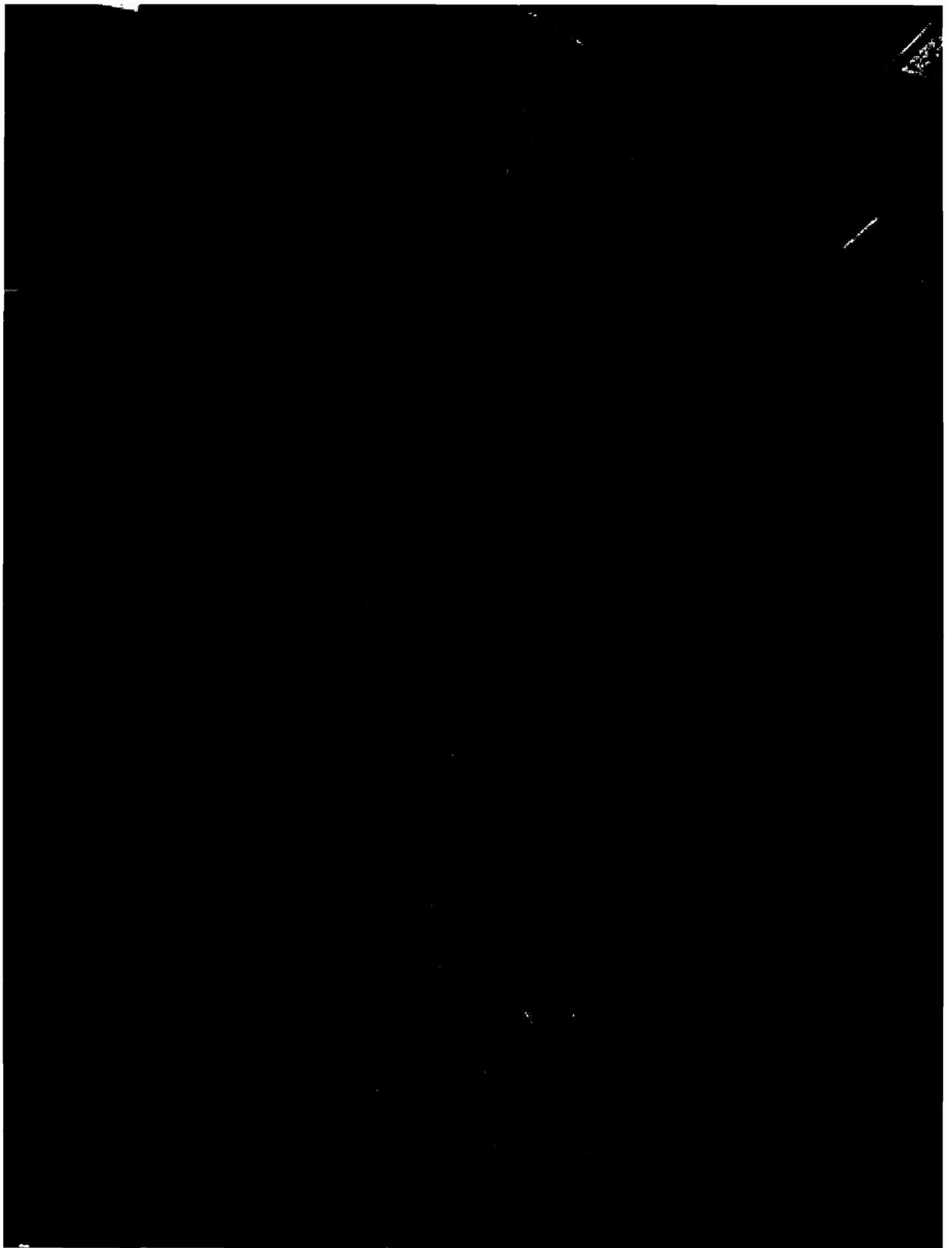






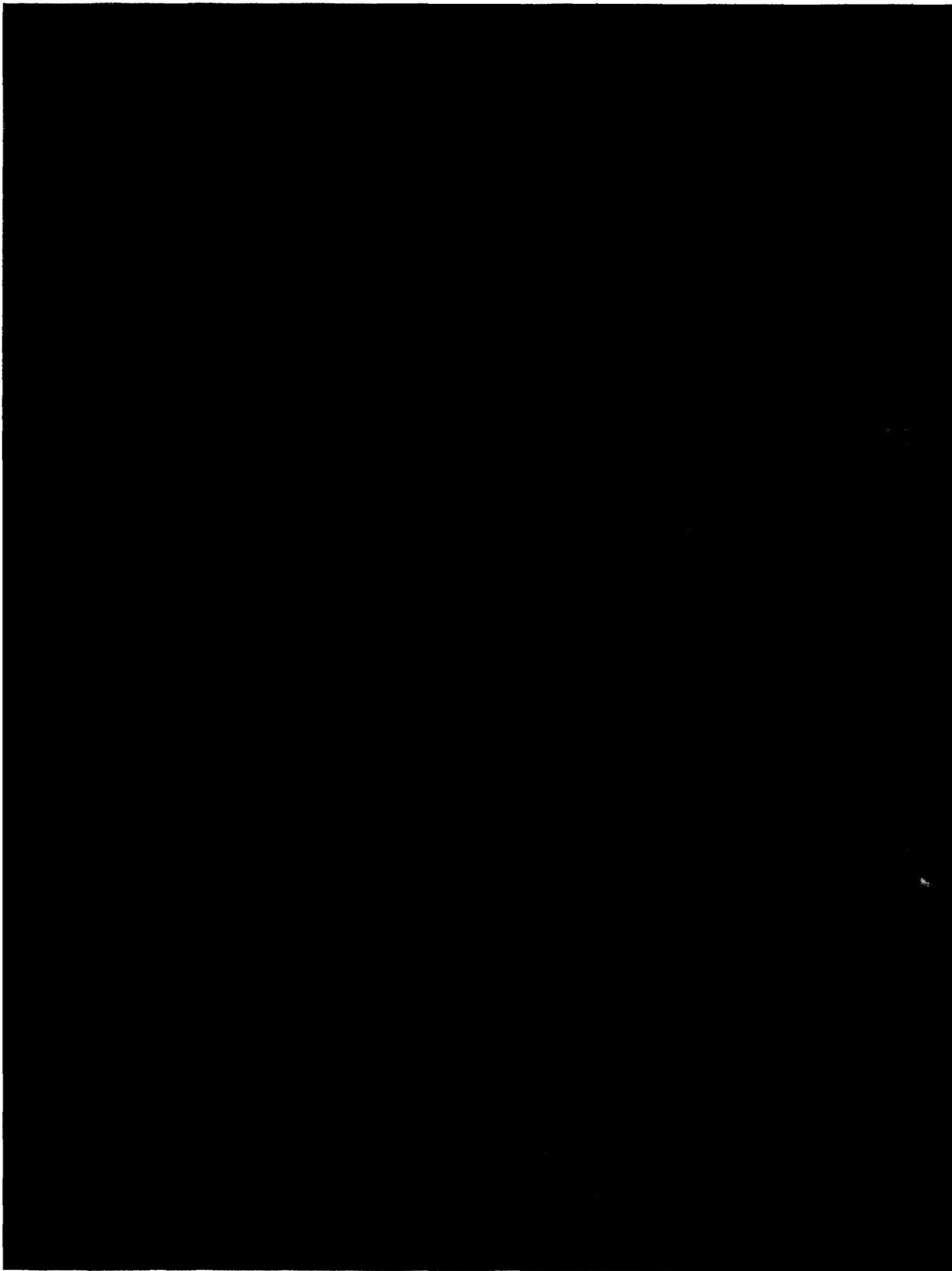


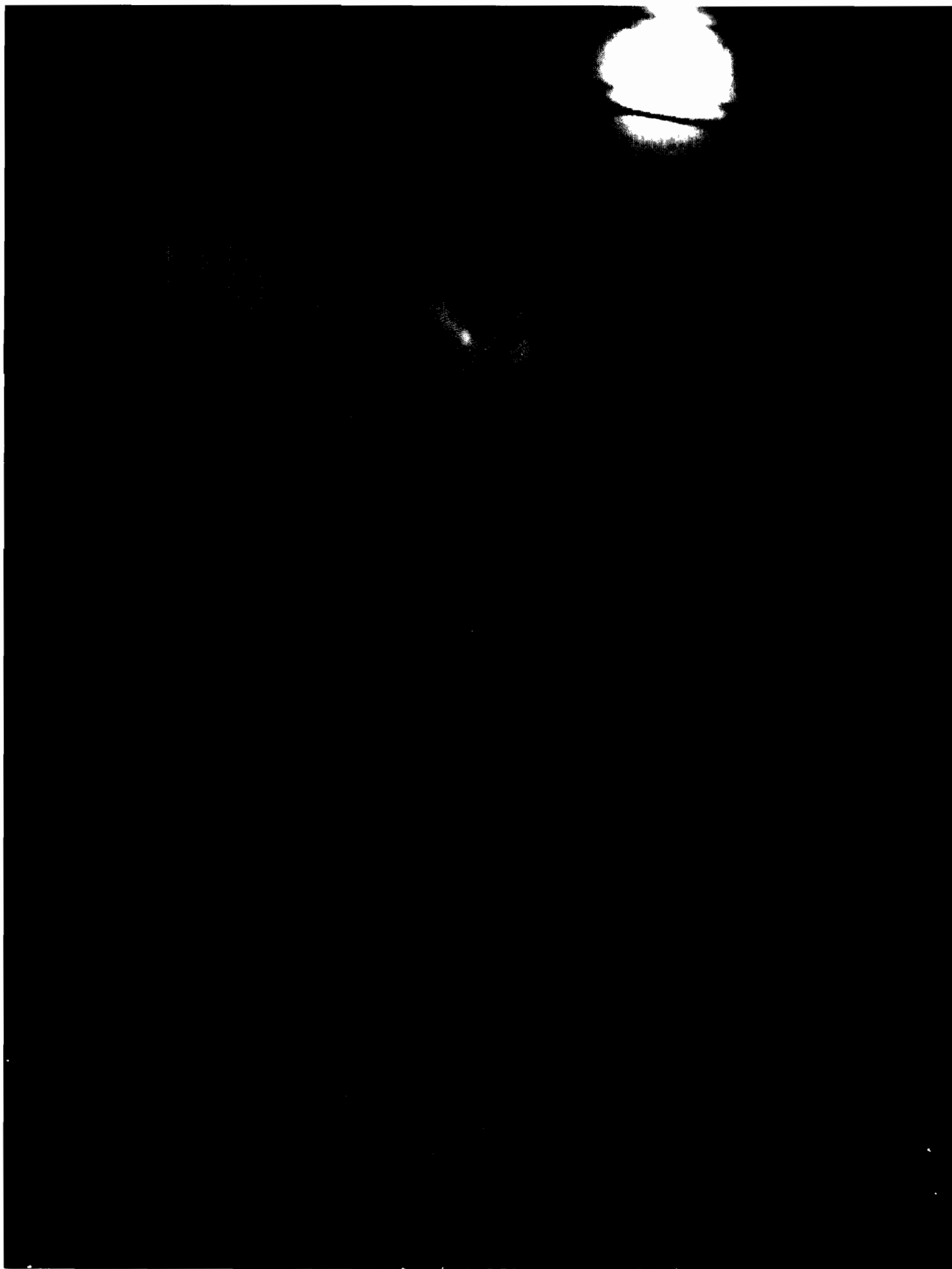




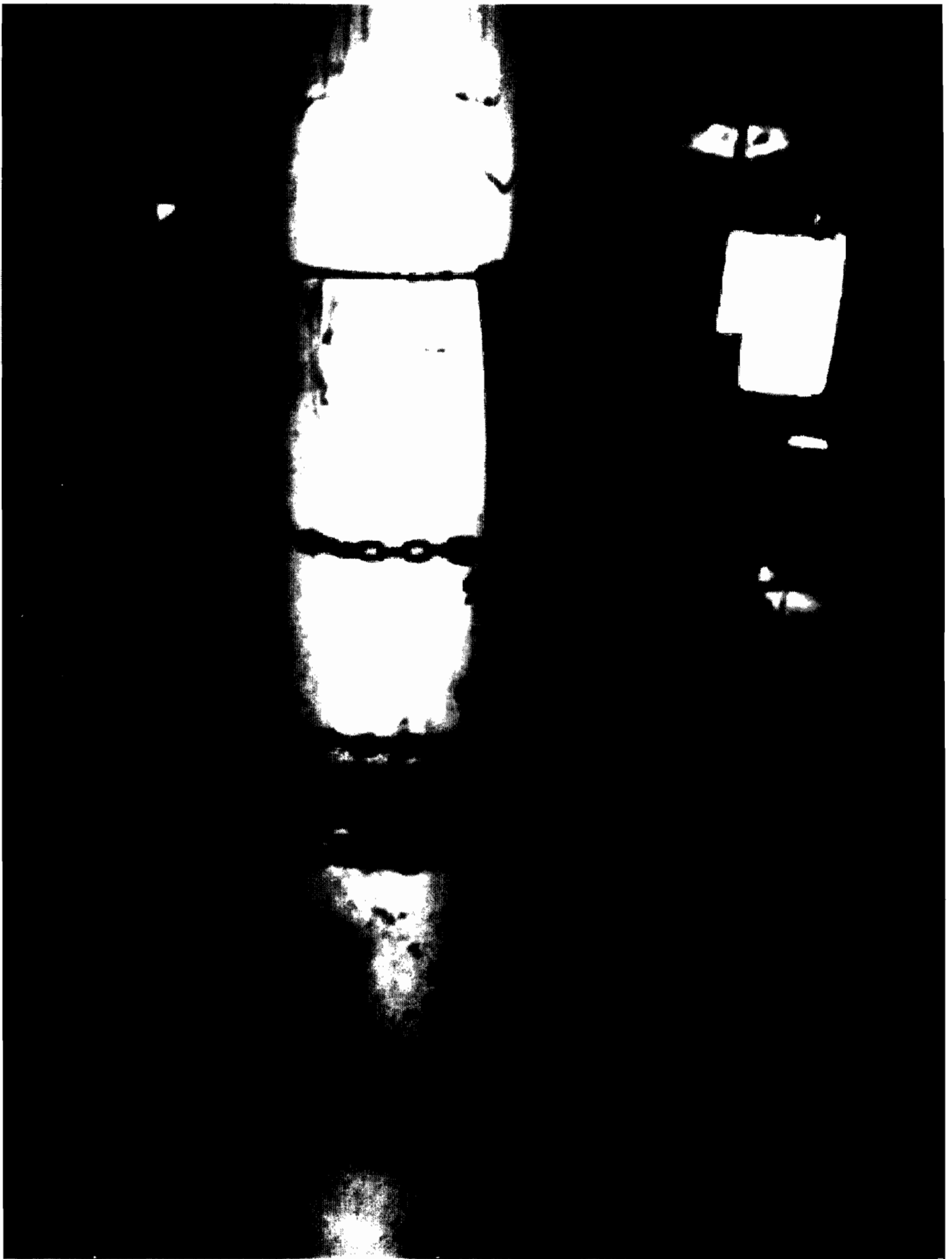
PHOTOS OF 3 DENSITY GAUGES AT
HOLDEN 22 PLANT

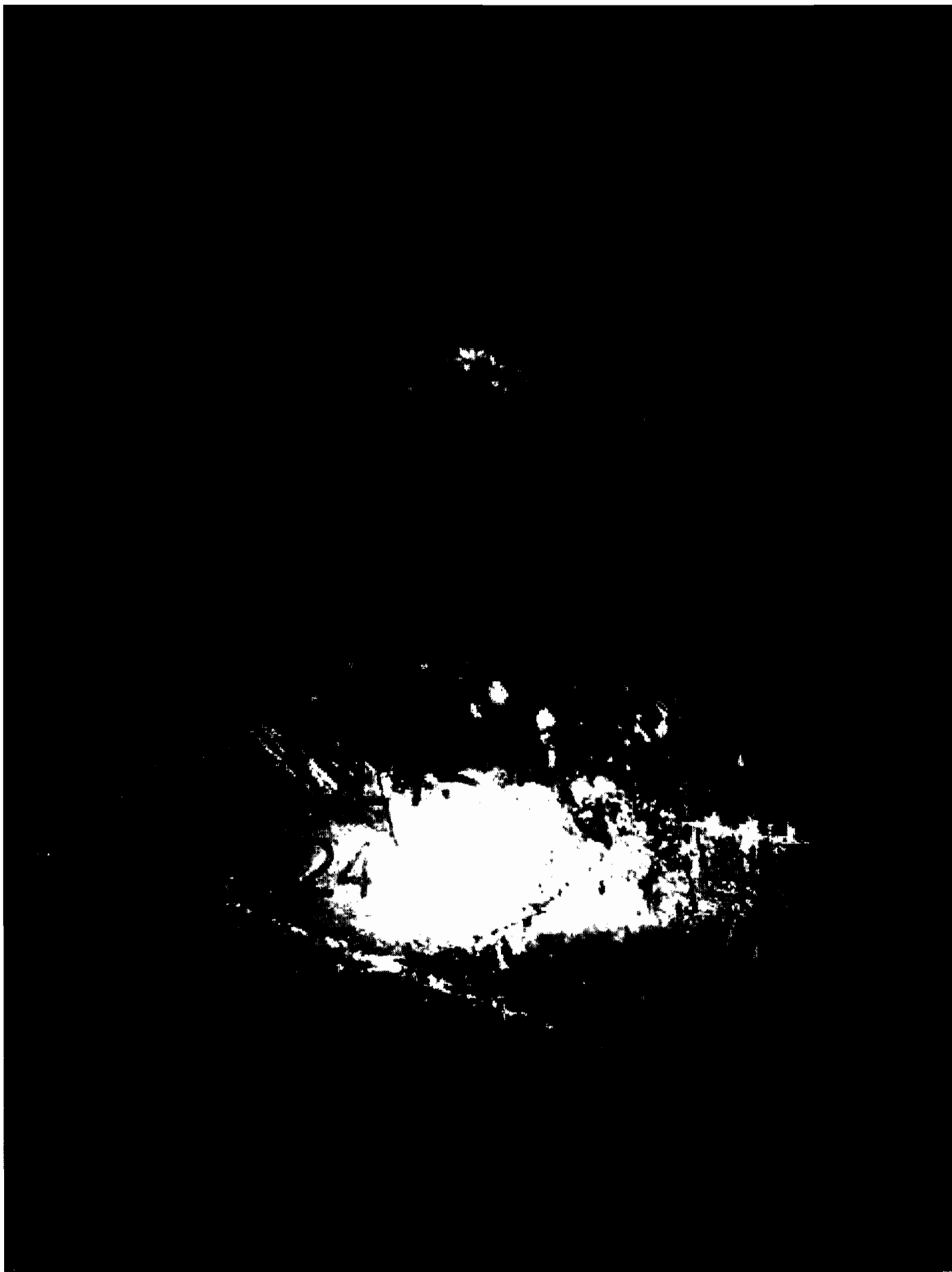










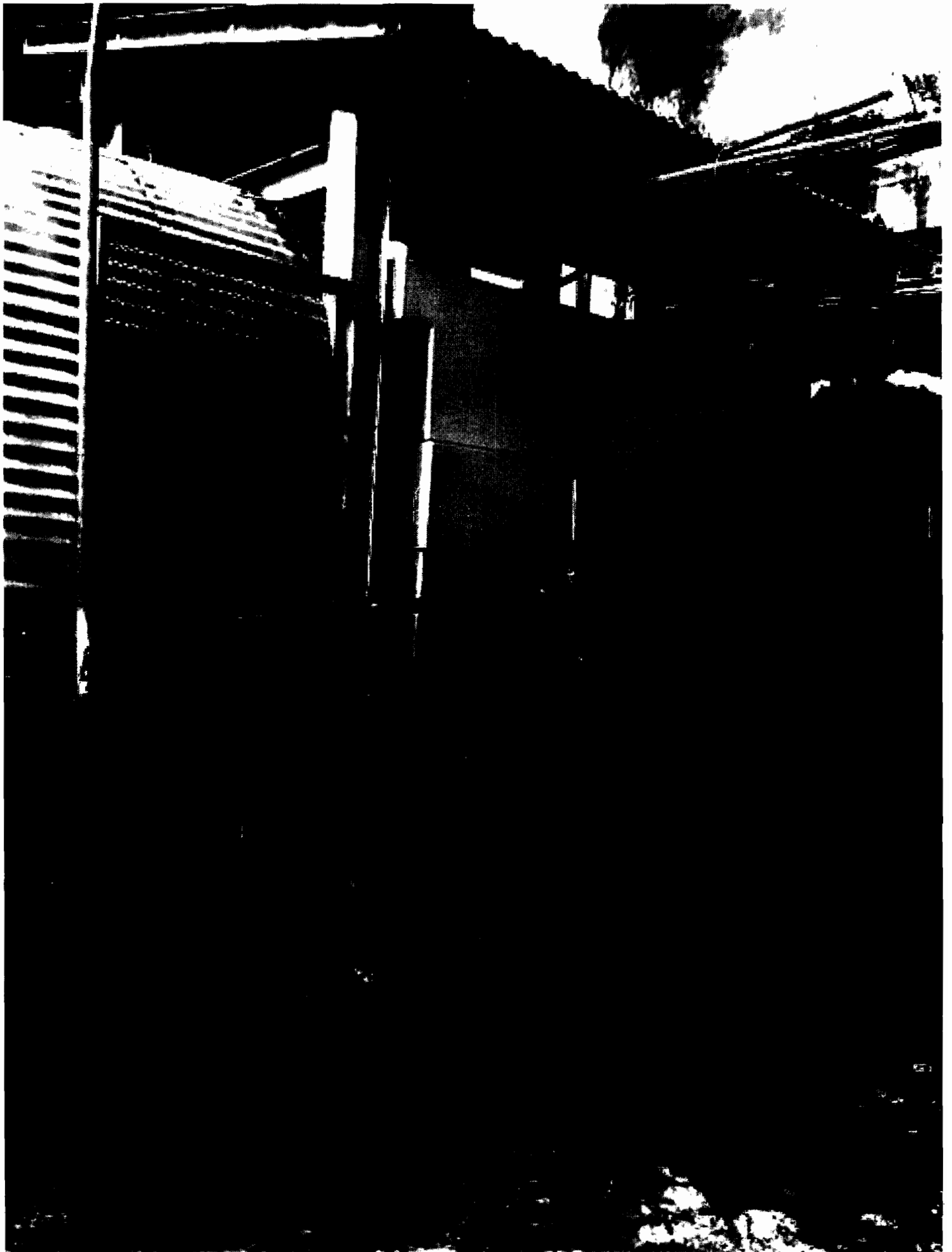


12 VA 1224 VDC
SERIAL NO. 112





**ECA ASH ANALYZER AT
HOLDEN 22 PLANT**









ATTACHMENT E

Ragland Complex Nuclear Device Audit form:

<u>Manufacturer:</u>	<u>Model #:</u>	<u>Serial #:</u>	<u>Device Type:</u>	<u>Sources:</u>	<u>Audit Check:</u>
Thermo-Fisher Scientific	CB - HI	840028	Ash Analyzer Moisture Meter	Californium - Cf 252 Cesium - Cs137	

Signed: _____

Date: _____

Holden 22 Nuclear Device Audit form:

<u>Manufacturer:</u>	<u>Model #:</u>	<u>Serial #:</u>	<u>Device Type:</u>	<u>Sources:</u>	<u>Audit Check:</u>
Thermo-Fisher Scientific	ECA - CBX	861012	Ash Analyzer	Californium - Cf 252	
Berthold Technologies	LB7440-D-CR	861012	Moisture Meter	Cesium - Cs137	
Thermo-Fisher Scientific	5201	B4776	Density Gauge	Cesium - Cs137	
Thermo-Fisher Scientific	5204	B4777	Density Gauge	Cesium - Cs137	
Thermo-Fisher Scientific	5201	B5239	Density Gauge	Cesium - Cs137	

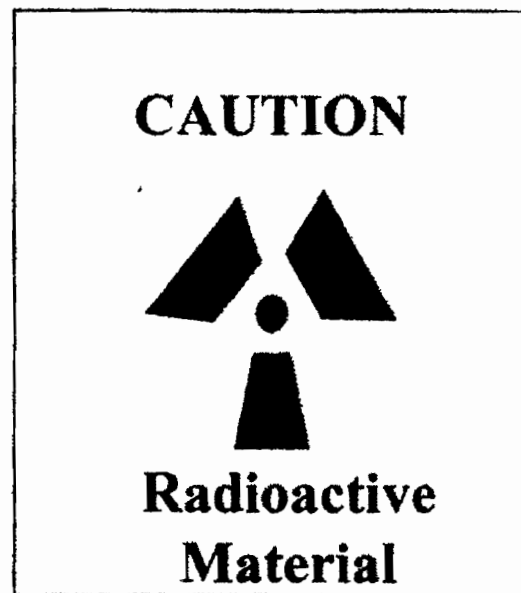
Signed: _____

Date: _____

ATTACHMENT F

Coal-Mac Inc.

Radiation Safety Program



Coal-Mac Inc.
Radiation Safety Program
Operating & Emergency Procedures

Operating Procedure:

- The gauges in use at this facility are considered safe to be around under normal working conditions.
- A *Caution: Radioactive Material* sign is posted near each unit making employees aware of their location.
- No employee should be working on or in any units, or near the units' sources.
- Any work to be performed on these units will be done by the manufacturer Thermo Scientific's local representative, Ron Curry 304-904-6944.

Emergency Procedures:

- In case any unit becomes damaged or an emergency situation takes place, immediately stop use of the unit.
- Secure the area and barricade the unit to prevent any further travel near the unit. Administer first aid to anyone if needed.
- Notify the following persons listed below in case of emergency:

	<u>Cell</u>	<u>Office</u>	<u>Home</u>
Chuck Waine	304/687-1500	304/475-5047	[REDACTED]
Ron Curry		604/904-6944	
Thermo Fisher			

- Arrange for a radiation survey and appropriate measures to correct the situation.
- Notify the NRC as required, for any damage to fixed gauges by calling the NRC's operations Center at 301/816-5100 or 301-951-0550.

PERSONAL INFORMATION WAS REMOVED
BY NRC. NO COPY OF THIS INFORMATION
WAS RETAINED BY THE NRC.

1-800-233-3457



NOTICE TO EMPLOYEES

WHAT IS THE RADIOLOGICAL HEALTH PROGRAM?

The Radiological Health Program (RHP) is a regulatory agency in the Radiation, Toxics and Indoor Air Division, Office of Environmental Health Services, Bureau for Public Health, Department of Health and Human Resources, in the State of West Virginia. The RHP is responsible for registration and inspection of devices and sources that produce radiation.

WHAT IS THE PURPOSE OF THE RHP?

The WV Code of State Regulations, Title 64 Chapter 23 establishes the Radiological Health Rule which is a law designed to protect workers and the public from unnecessary exposure to ionizing radiation. The purpose of the RHP is to provide oversight and assistance for users of radiation producing devices and any source of radioactive material which is not produced as a byproduct of nuclear fission.

WHAT IS THE RESPONSIBILITY OF MY EMPLOYER?

A business or individual that is required to be registered for the use of a radiation producing device and/or a radioactive source in West Virginia must comply with all requirements set forth in the Radiological Health Rule (64-CSR-23). If a registrant is found to be in violation of the law, the registration can be modified, suspended or revoked. The user can face fines or penalties for violations which are not corrected. Your employer must inform you of State or federal regulations or the requirements which pertain to your work with radiation sources. The requirements for registration of a source of radiation are found in 64-CSR-23, Sections 5 and 11.

WHAT IS MY RESPONSIBILITY?

For your own protection and the protection of your co-workers, you should know how the State regulations relate to your work and you should obey them. If you observe violations of the Radiological Health Rule or a safety concern, you should report them.

WHAT IF I CAUSE A VIOLATION?

If you deliberately engage in misconduct that may cause a violation of the WV Code of State Regulations, Radiological Health Rule, or deliberately provide inaccurate or incomplete information to either the RHP or your employer, you may be subject to enforcement action. If you report such a violation, the RHP will consider the circumstances surrounding your reporting in the determination of appropriate enforcement action, if any.

HOW MUCH RADIATION AM I ALLOWED TO GET?

If you work with a radiation producing device or a source of radioactive material, the amount of radiation exposure that you are permitted to receive may be regulated by the State RHP in sections 64-CSR-23.8.5, 23.8.10, 23.8.11, 23.8.12 or the U.S. NRC regulations in sections 10-CFR-20.1201, 20.1207 and 20.1208, depending on which regulations your employer is subject to. While these are the maximum allowable limits according to the law, your employer should keep your radiation exposure far below the limits "As Low As Reasonably Achievable" (ALARA).

MAY I GET A RECORD OF MY RADIATION EXPOSURE?

Yes. Your employer is required to advise you of your dose to radiation at least annually upon your request according to 64-CSR-23.8.51 and in the format described in 64-CSR-23.8.46 or 23.8.54.b and 23.13.4. In addition, you may request a written report of your radiation exposure when you leave your job.

CAN I BE FIRED FOR REPORTING SAFETY CONCERNS?

Federal and State law prohibits an employer from firing or otherwise discriminating against an employee for bringing safety concerns to their attention or to the regulatory agency because you ask the agency to enforce its rules, refuse to engage in activities that violate the rules, or provide information to your employer or the agency about violations.

MAY I TALK WITH AN INSPECTOR?

Yes. The RHP inspector will want to speak with you if you are worried about radiation safety or have concerns about activities regarding the use of radiation producing devices or radioactive material. Your employer may not prevent you from talking with an inspector. The agency will make every effort to protect your identity where appropriate and possible.

MAY I REQUEST AN INSPECTION?

Yes. If you believe that your employer is not in compliance with the WV Radiological Health Rule for the safe use of radiation producing devices or radioactive material, you may request an inspection. Your request should be addressed to the address below in writing and signed by you or your representative. Your employer may not discharge or discriminate against any worker because they file a complaint, report of a suspected violation, or agree to testify in proceedings afforded by the report or request for inspection.

HOW DO I REPORT SAFETY CONCERNS?

If you believe that violations of State or federal rules for safe use of radiation producing devices or radioactive material, you should report them immediately to your supervisor or the Radiation Safety Officer. If you choose to report directly to the RHP, you should clearly identify the allegation(s).

HOW DO I CONTACT THE RHP?

You can call an inspector or write to:
Radiological Health Program
Office of Environmental Health Services
Capitol and Washington Streets
1 Davis Square, Suite 200
Charleston, WV 25301-1758
Telephone: (304) 558-2961 or
Facsimile: (304) 558-0624 FAX
Internet: <http://www.wvdhhr.org/oehs>

(64-CSR-23.13.2) A copy of this Notice must be posted in sufficient locations to permit individuals, engaged in work with sources of radiation under the registration, to observe it on the way to or from any place of work to which this notice applies. This Notice shall be conspicuous and must be replaced if defaced or altered.

ATTACHMENT G

December 15, 2010

Mr. Charles Waine
Coal-Mac, Inc.
P.O. Box 1050
22 Mine Road
Holden, WV 25625

RE: INTENT TO TRANSFER OWNERSHIP OF SOURCES

Dear Mr. Waine:

This is to inform you that we have taken possession of two sealed sources, one (1) Cs-137 20mCi and one (1) Am-241 300mCi, as part of the decommissioning of your AshScan Coal Ash Analyzer. We took possession of these sources on 12/10/2010.

These sources are scheduled for disposal and we will forward you the official Transfer of Ownership document once it is available.

Please feel free to reach either myself or Raj Patel at 513.576.0700 with any questions and/or clarifications. Thank you.

Sincerely,

Gerald Buhr
Radiation Safety Officer
Kanawha Scales & Systems
26 Whitney Dr.
Milford, OH 45150

ACKNOWLEDGMENT OF RECEIPT OF RADIOACTIVE MATERIAL

February 9, 2011

Rajiv Patel
Kanawha Scales & Systems
26 Whitney Drive
Milford, OH 45150

RMA Number 31613

Attention Rajiv Patel:

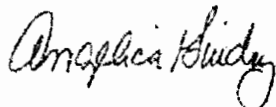
This is to certify that Thermo Fisher Scientific has received and accepted ownership of the radioactive material described below pursuant to applicable regulations and as authorized by our Texas Radioactive Material License I.03524.

Manufacturer	Model	Serial	Isotope	Source	Activity Units	Assay
COALSCAN	2500	80159	Am-241	1853LX	300 mCi	1/4/2011
COALSCAN	2500	80159	Cs-137	1234B	20 mCi	1/4/2011
Summary (2 sources)					320 mCi	

This receipt should be retained in your files as a permanent record showing the disposition of this radioactive material. If you are not the Radiation Safety Officer or responsible for maintaining regulatory records for radioactive material, please forward this letter to the appropriate person.

If you have any questions or require additional assistance, please contact us at (800) 437-7979 or (713) 272-0404.

Sincerely,
Thermo Fisher Scientific



Angelica Guidry
Nuclear Services Specialist

This is to acknowledge the receipt of your letter application dated

7/16/12, and to inform you that the initial processing which includes an administrative review has been performed.

☒ Renew (47-25599-01)
There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

☐ Please provide to this office within 30 days of your receipt of this card

A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned **Mail Control Number** 578004.
When calling to inquire about this action, please refer to this control number.
You may call us on (610) 337-5398, or 337-5260.