

APPENDIX A
APPLICATION FOR MATERIAL LICENSE

U.S. NUCLEAR REGULATORY COMMISSION
APPROVED BY DMB
3150-0120
Expires: 6-31-87

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.

FEDERAL AGENCIES FILE APPLICATIONS WITH:

U.S. NUCLEAR REGULATORY COMMISSION
DIVISION OF FUEL CYCLE AND MATERIAL SAFETY, NMSS
WASHINGTON, DC 20585

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

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

U.S. NUCLEAR REGULATORY COMMISSION, REGION I
NUCLEAR MATERIAL SECTION B
631 PARK AVENUE
KING OF PRUSSIA, PA 19406

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

U.S. NUCLEAR REGULATORY COMMISSION, REGION II
MATERIAL RADIATION PROTECTION SECTION
101 MARIETTA STREET, SUITE 2900
ATLANTA, GA 30323

IF YOU ARE LOCATED IN:

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

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

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

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

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

U.S. NUCLEAR REGULATORY COMMISSION, REGION V
MATERIAL RADIATION PROTECTION SECTION
1450 MARIA LANE, SUITE 210
WALNUT CREEK, CA 94598

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

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

- A. NEW LICENSE
 B. AMENDMENT TO LICENSE NUMBER 18-20930-01
 C. RENEWAL OF LICENSE NUMBER _____

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

Great Northern Paper Company
Main Street
East Millinocket, ME 04430
Att: D. P. Firlotte

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

Main Street
East Millinocket, ME 04430

4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

Douglas P. Firlotte

TELEPHONE NUMBER
(207) 746-9912

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

5. RADIOACTIVE MATERIAL

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

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

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

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

9. FACILITIES AND EQUIPMENT.

10. RADIATION SAFETY PROGRAM

11. WASTE MANAGEMENT.

12. LICENSEE FEES (See 10 CFR 170 and Section 170.31)
FEE CATEGORY 3p AMOUNT
ENCLOSED \$ 60.00

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

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

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

SIGNATURE-CERTIFYING OFFICER

Douglas P. Firlotte

TYPED/PRINTED NAME

Douglas P. Firlotte

TITLE
Electrical Engineer

DATE
7-23-87

A. ANNUAL RECEIPTS

<\$250K	\$1M-3.5M
\$250K-500K	\$3.5M-7M
\$500K-750K	\$7M-10M
\$750K-1M	>\$10M

B. NUMBER OF EMPLOYEES (7000 for entire facility excluding outside contractors)

C. NUMBER OF BEDS

8. WOULD YOU BE WILLING TO FURNISH COST INFORMATION (Dollar and/or staff hours) ON THE ECONOMIC IMPACT OF CURRENT NRC REGULATIONS OR ANY FUTURE PROPOSED NRC REGULATIONS THAT MAY AFFECT YOU? (NRC regulations permit it to protect confidential commercial or financial-proprietary-information furnished to the agency in confidence)

YES

NO

FOR NRC USE ONLY

TYPE OF FEE	FEES LOG	FEES CATEGORY	COMMENTS
AMD	Aug. 87	3P	

AMOUNT RECEIVED	CHECK NUMBER
860	273241

APPROVED BY

J. Kenneally

DATE

8/18/87

PRIVACY ACT STATEMENT ON THE REVERSE

8804180229 870917

REG1 LIC30

18-20930-01 DCD

"OFFICIAL RECORD COPY"

ITEM 5

<u>BY PRODUCT SOURCE</u>	<u>CHEMICAL AND/OR PHYSICAL FORM</u>	<u>MAXIMUM ACTIVITY PER SOURCE</u>
A. CESIUM 137	Sealed Sources Kay Ray Model 7080	100 MCi
B. CESIUM 137	Sealed Sources Kay Ray Model 70635	50 MCi
C. CESIUM 137	Sealed Sources Texas Nuclear Model #'s 5036 & 5038	200 MCi
D. KRYPTON 85	Sealed Sources Model No. NER-586 (Furnished By Measurex)	1000 MCi
E. KRYPTON 85	Sealed Sources Model No. H00570	500 MCi Sentrol

ITEM 6

- A. To measure levels of ash in Bark Boiler Precipitator Hoppers.
- B. To measure level in a Bark Ash Surge Bin.
- C. To measure the flow (Density) of bark on a belt flowing to and from a Bark Boiler.
- D. For use in a Measurex 2002 basis weight system for measuring the basis weight (Density) of paper.
- E. For use in a Sentrol model No. H00570 lab system to measure the basis weight (Density) of paper.

ITEM 2

1. Albert Hale is responsible for maintenance and radiation safety in Mill #2. He has received formal training from Kay-Ray in 1986 and training of the Measurex systems in 1982.
2. Bruce Thornton has received formal training from both Kay-Ray and Measurex.
3. Stephen Peabody has received formal training from Kay-Ray and Measurex.
4. Douglas Griffin has received formal training from Kay-Ray.
5. Robert Smith has received formal training from Kay-Ray.
6. Herbert Hargraves has received formal training from Kay-Ray.
7. Joseph St.Pierre has received formal training from Kay-Ray and training from Measurex.
8. Douglas Firlotte is an electrical engineer and is responsible for applications and the scheduling of source test, inspections and maintenance. He has received formal training from Kay-Ray.
9. Donald Lyons has received formal training from Kay-Ray.
10. Harold Carter has received formal training from Kay-Ray.
11. Elmer Haynes has received formal training from Kay-Ray.
12. Dorance Clay has received formal training from Kay-Ray.
13. Dennis Snyder has received formal training from Kay-Ray.

INDUSTRIAL PROCESS CONTROL EQUIPMENT

516 West Campus Drive • Arlington Heights, Illinois 60004 • (312) 259-5600 • TELEX: 281-005 • CABLE: KAYRAY

CERTIFICATION OF TRAINING

Name:

BRUCE E. THORNTON

Company:

Great Northern Paper

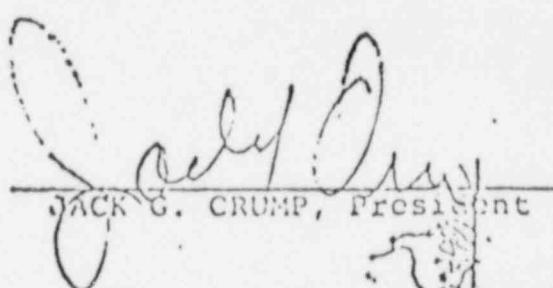
The above named individual has successfully completed the INSTALLATION AND NUCLEAR RADIATION SAFETY course offered by Kay-Ray, Inc., consisting of the following curriculum:

- Principles and practices of radiation protection
- Monitoring radiation levels using Geiger counters
- Radiation exposure limits
- Radiation areas defined
- Calculating radiation levels from known gamma source size and distances
- Calculating dose rates of typical installation
- Leak testing Kay-Ray source housings
- Safety practices required for the use and handling of Kay-Ray source housings.
- Installation of source housings demonstration and Hands-On installation

This training course consists of formal discussions, practical applications, leak testing, specific installation discussions, and hands-on installation completion with related forms for record keeping.

Certified on equipment
model 7050B, 7062, 7063

Instructor: Michael O'Brien
Date: April 3, 1981



JACK G. CRUMP, President

Jul 79

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Name: Stephen K. Peabody

Company: Great Northern Paper Company

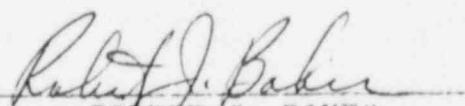
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- Calculating dose rates of typical installation
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- Safety practices required for the use and handling of Kay-Ray source housings
- Installation of source housings: demonstration and Hands-On installation

This training course consists of formal discussions, practical applications, leak testing, specific installation discussions, and hands-on installation completion with related forms for record keeping.

Certified on equipment
model 7050B, 7062, 7063

Instructor: Rich Phelan
Date: March 27, 1981

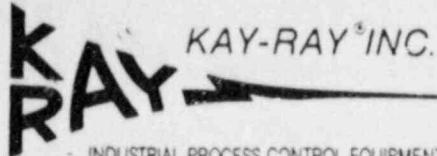

ROBERT J. BAKER
Vice President

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CERTIFICATION OF TRAINING

Name: Douglas P. Griffin

Company: Great Northern Paper

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- Calculating dose rates of typical installation
- Leak testing Kay-Ray source housings
- Safety practices required for the use and handling of Kay-Ray source housings
- Installation of source housings demonstration and Hands-On installation

This training course consists of formal discussions, practical applications, leak testing, specific installation discussions, and hands-on installation completion with related forms for record keeping.

Certified on Equipment
Model 7050, 7050B, 7062P, 7062BP Source Housings

Instructor: Ray Parsons
Date: 10/10/86

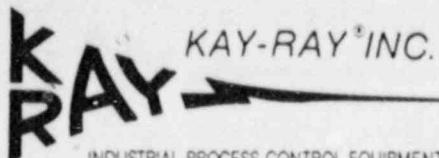
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Vice President of Operations

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Name: Robert K. Smith

Company: Great Northern Paper

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- Leak testing Kay-Ray source housings
- Safety practices required for the use and handling of Kay-Ray source housings
- Installation of source housings demonstration and Hands-On installation

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Certified on Equipment
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Instructor: Ray Parsons
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Name: Herbert Hargraves

Company: Great Northern Paper

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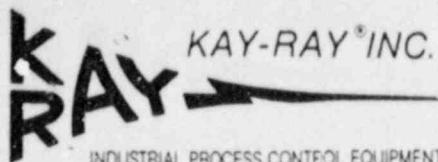
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Name: Joseph R. St. Pierre

Company: Great Northern Paper

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Instructor: Ray Parsons
Date: 10/10/86

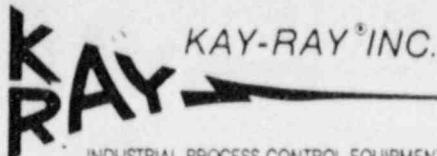
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Name: Albert E. Hale

Company: Great Northern Paper

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Certified on Equipment

Model 7050, 7050B, 7062P, 7062BP Source Housings

Instructor: Ray Parsons

Date: 10/10/86

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390 Holbrook Drive • Wheeling, IL 60090 • (312) 520-1100 • TELEX: 281-085 • CABLE: KAYRAY • FAX: (312) 520-1101

CERTIFICATION OF TRAINING

Name: Douglas P. Firlotte

Company: Great Northern Paper

The above named individual has successfully completed the INSTALLATION AND NUCLEAR RADIATION SAFETY COURSE offered by Kay-Ray, Inc., consisting of the following curriculum:

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Certified on Equipment 7062, 7063, 7080
Model

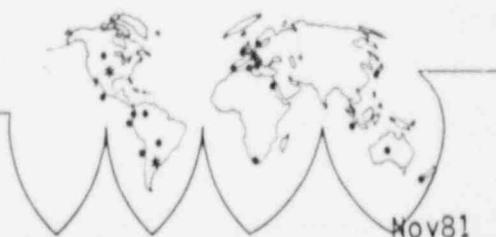
Instructor: Ray Parsons
Date: June 22-26, 1987

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CERTIFICATION OF TRAINING

Name: Donald R. Lyons

Company: Great Northern Paper

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Certified on Equipment 7062, 7063, 7080
Model

Instructor: Ray Parsons
Date: June 22-26, 1987

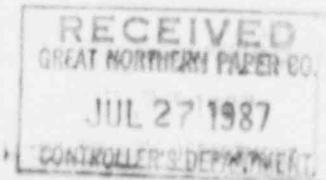
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CERTIFICATION OF TRAINING

Name: Harold L. Carter, Jr.

Company: Great Northern Paper

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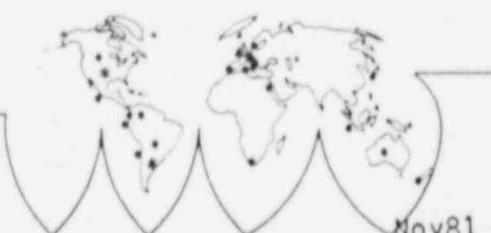
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Max L. Richardson
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Vice President of Operations

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CERTIFICATION OF TRAINING

Name: Elmer Haynes

Company: Great Northern Paper

The above named individual has successfully completed the INSTALLATION AND NUCLEAR RADIATION SAFETY COURSE offered by Kay-Ray, Inc., consisting of the following curriculum:

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Certified on Equipment 7062, 7063, 7080
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Instructor: Ray Parsons
Date: June 22-26, 1987

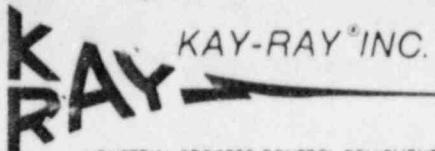
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KAY-RAY[®] INC.

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CERTIFICATION OF TRAINING

Name: Dorance Clay

Company: Great Northern Paper

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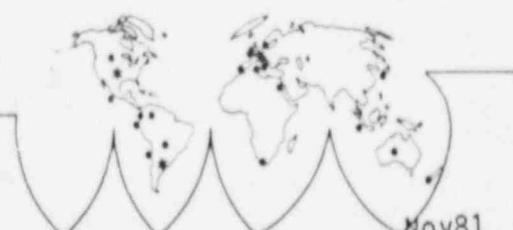
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Instructor: Ray Parsons
Date: June 22-26, 1987

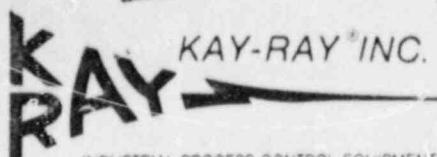
Max L. Richardson

Max L. Richardson
Vice President of Operations



WORLDWIDE SALES AND SERVICE OFFICES:

Africa • Argentina • Australia • Benelux • Brazil • Canada • Chile • Colombia • France
Germany • Indonesia • Italy • Japan • Mexico • New Zealand • Peru • Scandinavia • Spain
South Africa • United Kingdom • Venezuela



KAY-RAY[®] INC.

INDUSTRIAL PROCESS CONTROL EQUIPMENT

390 Holbrook Dr.ve • Wheeling, IL 60090 • (312) 520-1100 • TELEX: 281-085 • CABLE: KAYRAY • FAX: (312) 520-1101

CERTIFICATION OF TRAINING

Name: Dennis L. Snyder

Company: Great Northern Paper

The above named individual has successfully completed the INSTALLATION AND NUCLEAR RADIATION SAFETY COURSE offered by Kay-Ray, Inc., consisting of the following curriculum:

- Principles and practices of radiation protection
- Monitoring radiation levels using Geiger counters
- Radiation exposure limits
- Radiation areas defined
- Calculating radiation levels from known gamma source size and distances
- Calculating dose rates of typical installation
- Leak testing Kay-Ray source housings
- Safety practices required for the use and handling of Kay-Ray source housings
- Installation of source housings demonstration and Hands-On installation

This training course consists of formal discussions, practical applications, leak testing, specific installation discussions, and hands-on installation completion with related forms for record keeping.

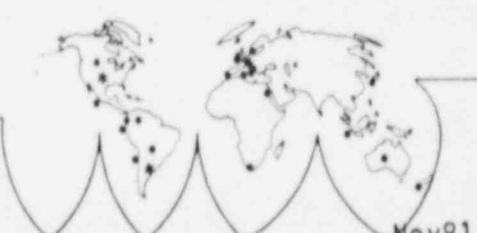
Certified on Equipment 7062, 7063, 7080
Model

Instructor: Ray Parsons
Date: June 22-26, 1987

Max L. Richardson
Max L. Richardson
Vice President of Operations

WORLDWIDE SALES AND SERVICE OFFICES:

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South Africa • United Kingdom • Venezuela



measurex
SYSTEMS, INC.

September 28, 1982

Western Division — Pulp & Paper

Northport Professional Building
1321 Washington Avenue
Portland, Maine 04103
(207) 797-2213
TLX 94-4319

Mr. Ed Bigney
Instrument Shop
GREAT NORTHERN PAPER COMPANY
Millinocket, ME 04462

Dear Ed:

Ralph Clark has conducted training on the Measurex Systems for Instrument Shop personnel at the East Millinocket mill. Ralph included radiation safety in the training.

The classes received instruction on general radiation safety and on procedures for checking correct operation of the source shutter, safety interlocks, and safety indicators. The procedures are part of the Measurex semi-annual radiation checks performed under the service contract. Written instructions for the semi-annual checks are contained in the Measurex Radiation Safety Manual, which is part of the documentation supplied with the system.

The following personnel received the training:

Albert Hale
Jeff Martin
Ralph McKenzie

Steve Peabody
Roland St. Pierre
Bruce Thornton

If you have any questions on radiation safety or the training, please contact me.

Yours truly,

MEASUREX SYSTEMS, INC.

Karl Kelley Jr.
Karl Kelley
Field Technical Manager

KK/cl

cc: Mr. Jeff Martin

ITEM 8

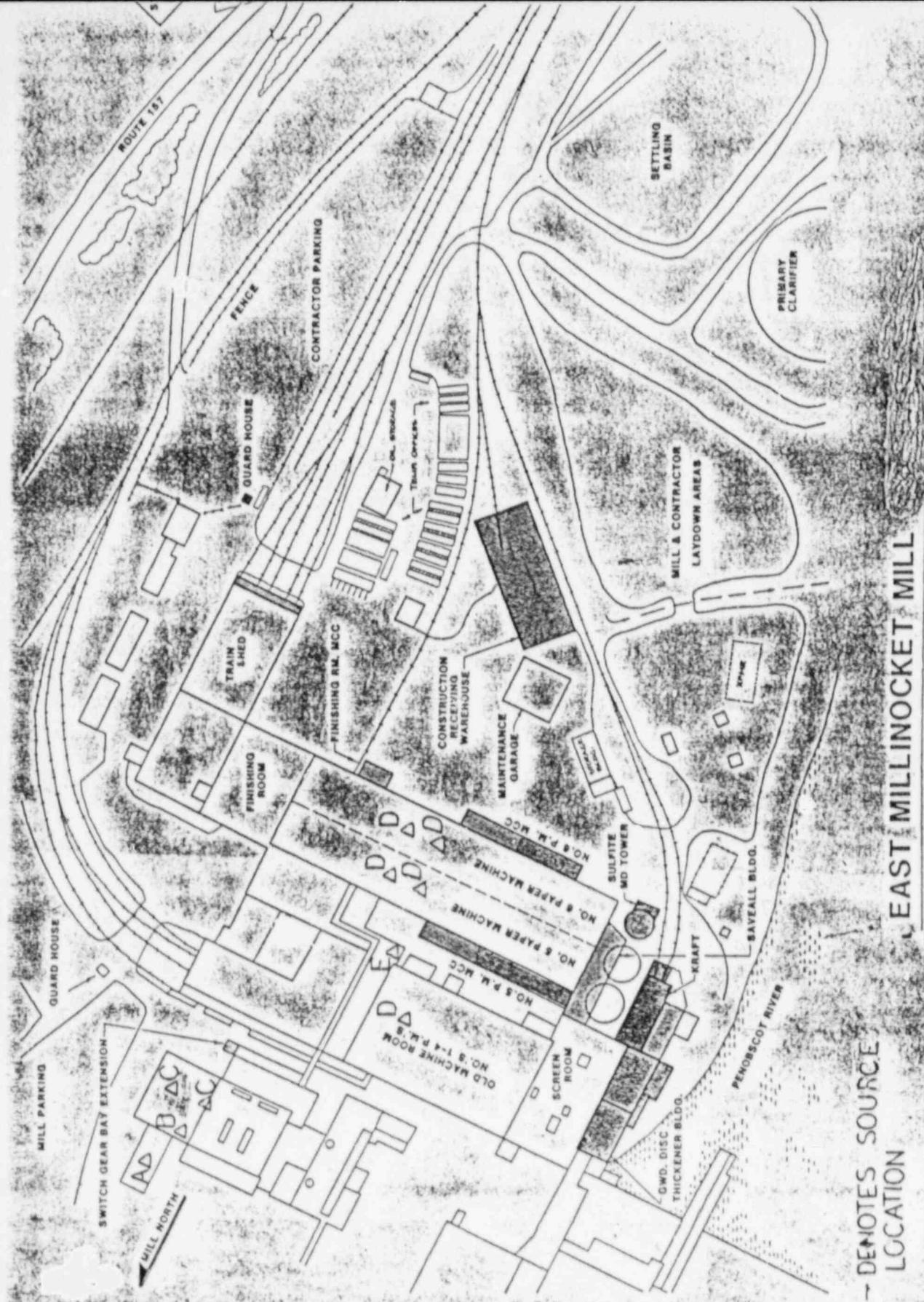
Operators are given operating instructions by a representative of the manufacturer during installation. Typically this is done by the installation engineer on site.

Routine cleaning of sensors are done by or under the direction of the individuals listed in Item 7.

Safety practices will be taught in periodical Department Safety Meetings.

ITEM 9

1. Typical installations of paper machine profile gauge and hopper and weight scale are shown in the following sketches.



△ → DENOTES SOURCE
LOCATION

EAST MILLINOCKET MILL

LETTER DENOTE SOURCE • TYPE

TYPE - see item #5

FILE NO.	SHL NO.	REV.
DRAW. NO.	I-SK-110-1S	A-4
DRAWING NUMBER		DATE 10-5-85
TITLE		CKD-1 DATE 10-5-85
DESIGNER		CORR.
CHECKED		APPD
REVIEWED		REV.
DRAWN BY		FILE NO.

NUCLEAR SOURCE LOCATIONS
EAST MILLINDOCKET MILL



Great Northern Paper

a company of
Great Northern Nekoosa Corporation

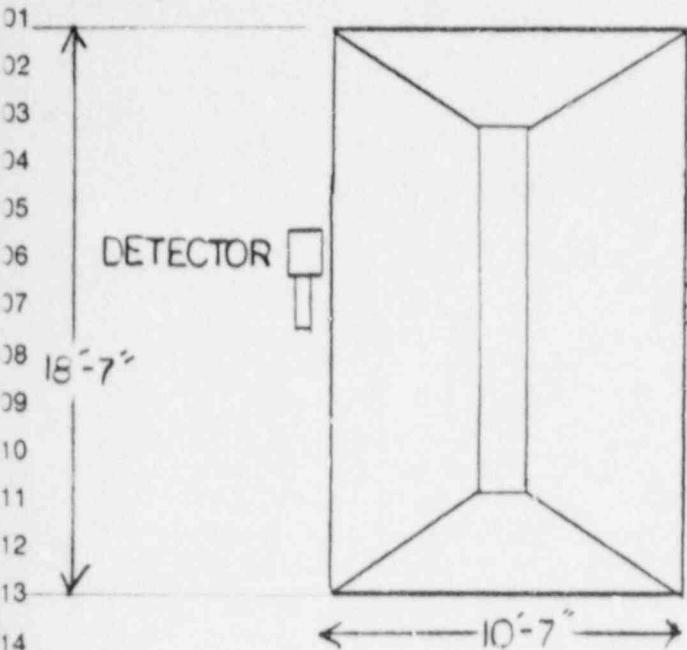
DATE
DRN DPF 10-3-85
CKD
CORR
APPD
REV.
FILE NO.

ELECTRICAL DEPARTMENT

EAST MILLINOCKET MILL
BARK BOILER - PRECIPITATOR
HOPPER - NUCLEAR SOURCE
TYPICAL INSTALLATION
Dwg. No. I-SK-183-6S
Sht. No.

SOURCE A

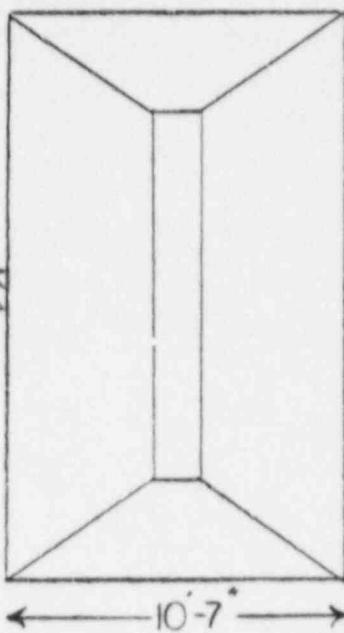
NOT TO SCALE



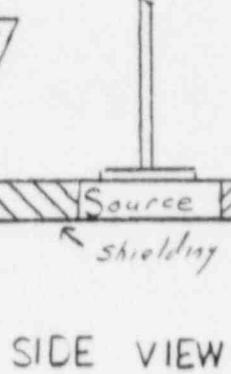
TOP
VIEW

SOURCE

Shielding



DETECTOR



SIDE VIEW

10'-8"

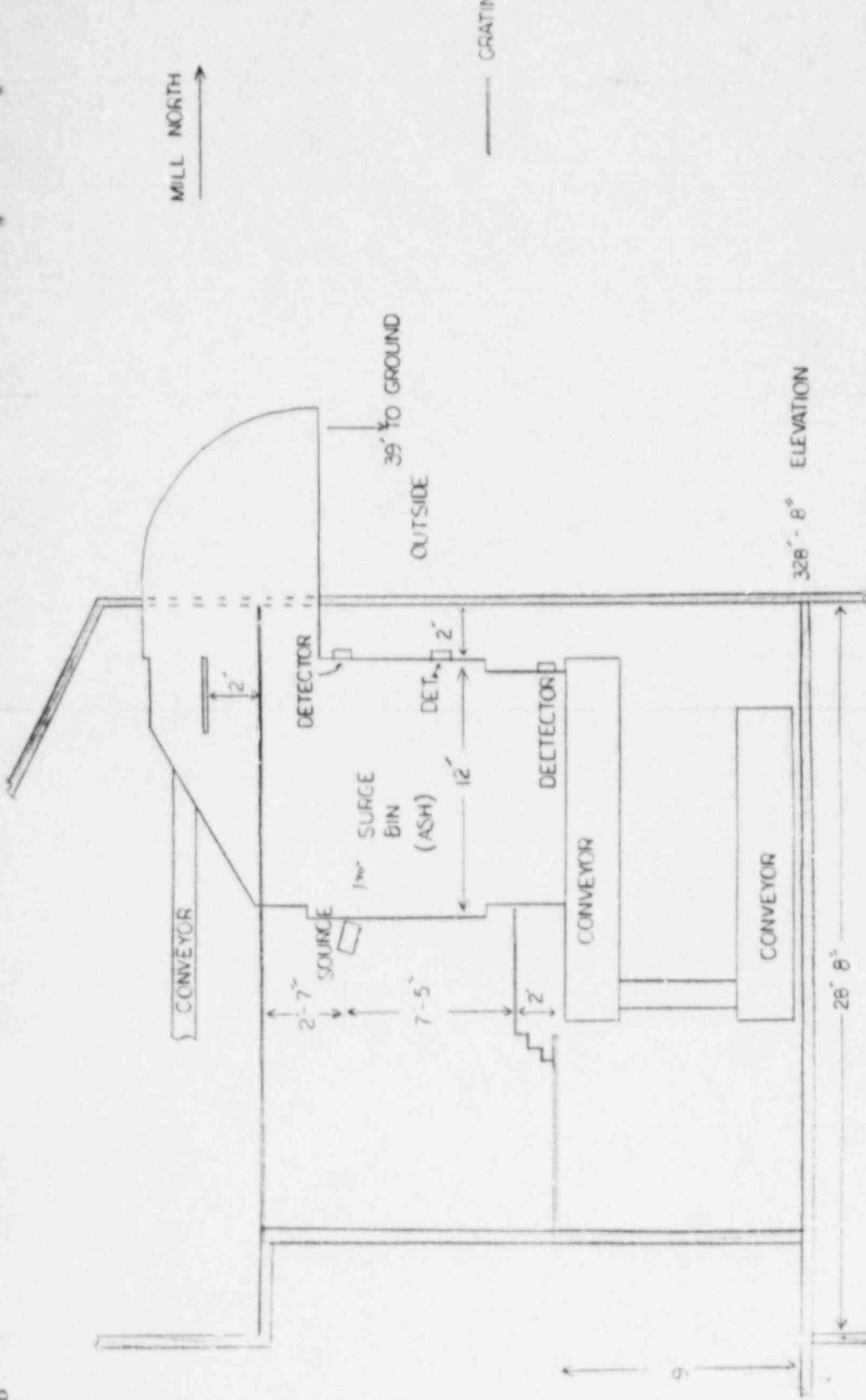
DETECTOR

10'-7"

EL. 323-10"

The graph displays two data series plotted against time. The y-axis represents a numerical value ranging from 0.00 to 0.04. The x-axis represents time points labeled 01, 02, 03, 04, and 05. Both series show an upward trend.

Time	Series 1 (approx.)	Series 2 (approx.)
01	0.015	0.005
02	0.018	0.008
03	0.022	0.012
04	0.026	0.018
05	0.035	0.038



		REVISIONS	
REV.	DATE	BY	FOR
		CBD	
		CBD	
		COMB	
		APMDO	
MB 14992			
MB 15057			

1 ELECTRICAL DEPARTMENT
EAST MILLINOCKET MILL
BARK BOILER- FLY ASH-SURGE BIN
NUCLEAR SOURCE LOCATION
wg. No. 1-SK-103-75

Dwg. No. 1-5K-1B3-75
Sht. No. 1

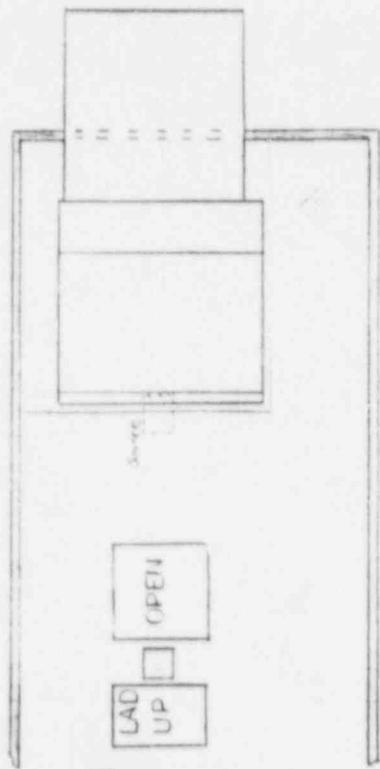


Great Northern Paper
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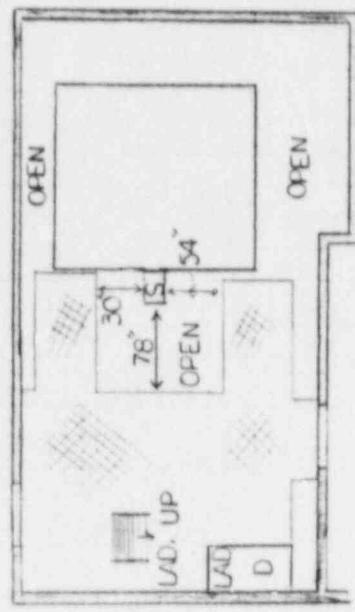
REFERENCE DRAWINGS

01 SOURCE E
 02
 03
 04
 05
 06
 07
 08
 09
 10 EL 356'-0" TOP VIEW
 11
 12
 13
 14
 15
 16
 17
 18
 19
 20
 21
 22
 23
 24
 25
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 34
 35

EL 356'-0"



EL 347'-0"



TOP VIEW

G.R.A.T. INC.

No.	Date	Revisions
1	1/1/75	1. 1/1/75
2		C.D.
3		C.D.
4		C.D.
5		A.P.V.O.
6		
7		
8		
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35		

ELECTRICAL DEPARTMENT
 EAST MILLINOCKET MILL
 BARK BOILER-FLY ASH-SURGE BIN
 NUCLEAR SOURCE LOCATION

Dwg No. 1-SK-183-75
 Sht. No. 2



Great Northern Paper
 a company of
 Great Northern Nekoosa Corporation



Great Northern Paper

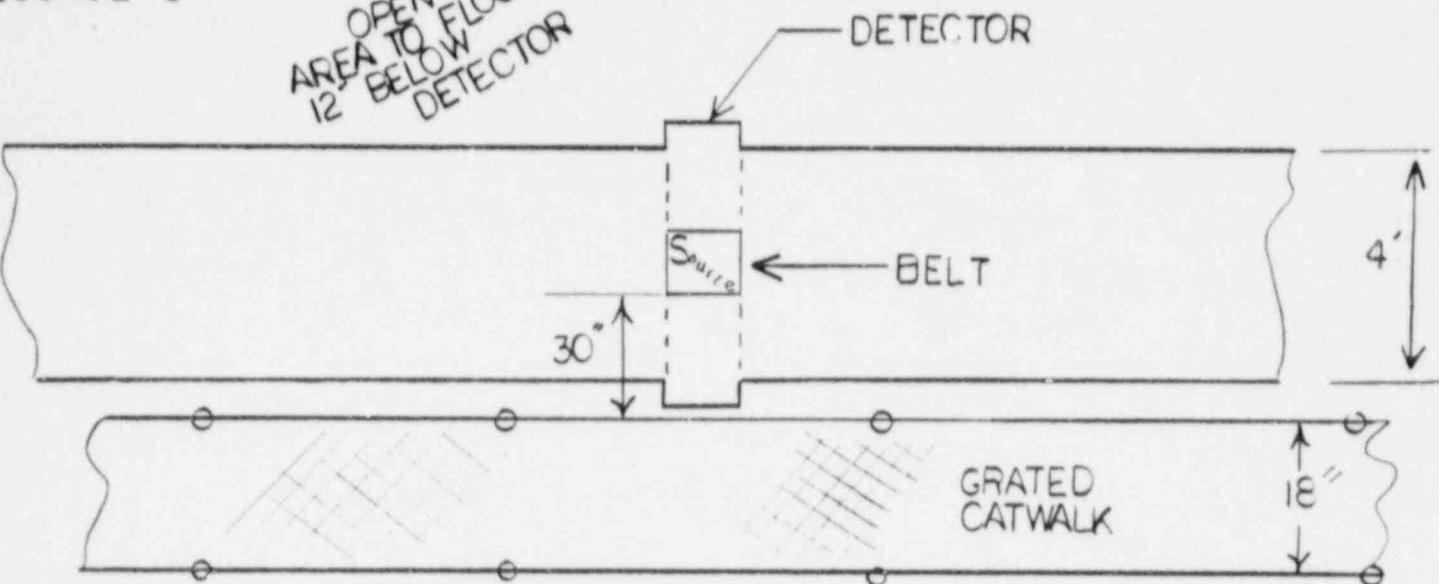
a company of
Great Northern Nekoosa Corporation

DATE
DRN DPF 10-3-85
CKD
CORR
APPD
REV.
FILE NO.

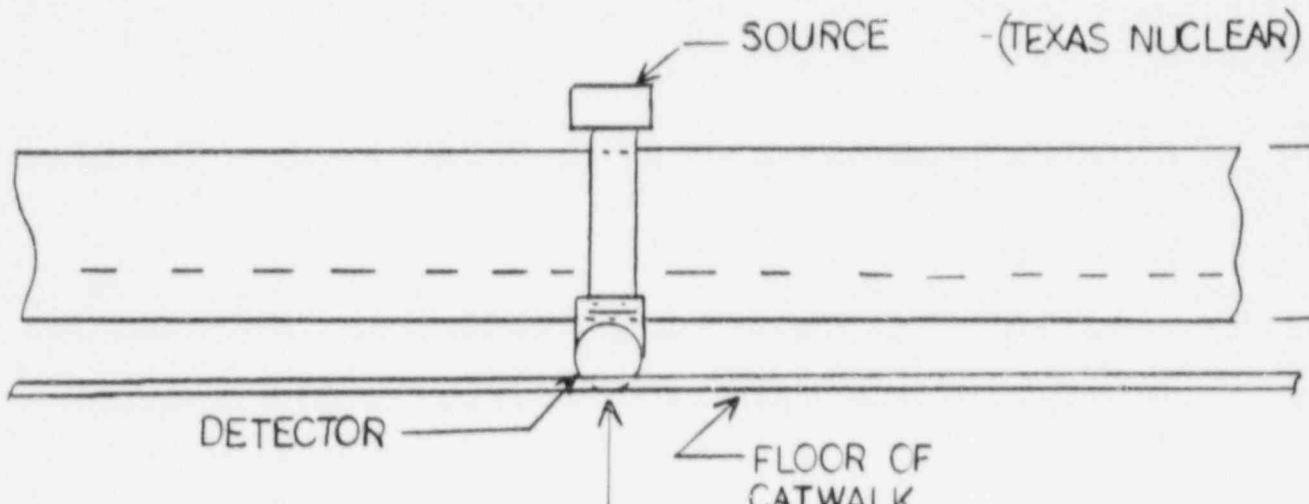
ELECTRICAL DEPARTMENT
EAST MILLINOCKET MILL
BARK BOILER CONV. C-13
NUCLEAR SOURCE - TYPICAL
INSTALLATION
Dwg. No. I-SK-183-5S
Sht. No.

SOURCE C

OPEN
AREA TO FLOOR
12' BELOW DETECTOR



PLAN VIEW OF BARK
BELT WEIGHT SCALE

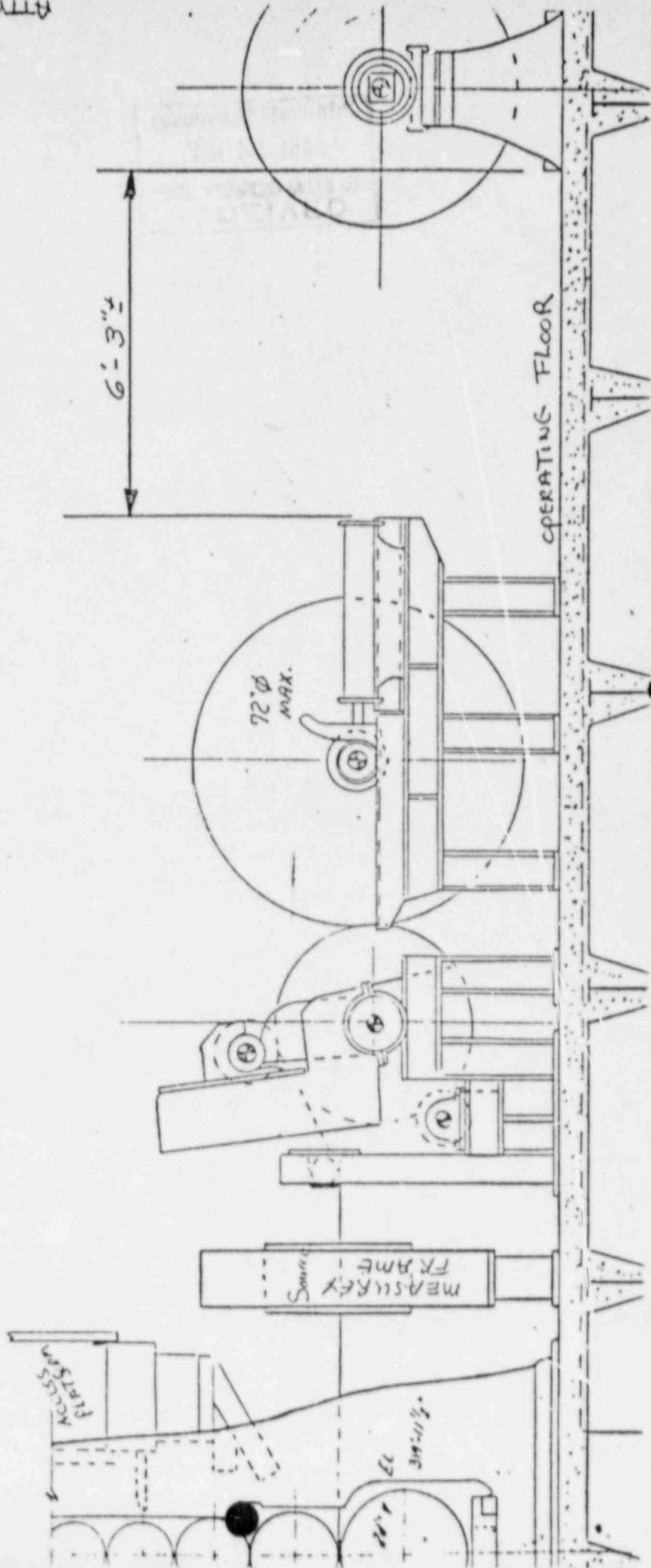


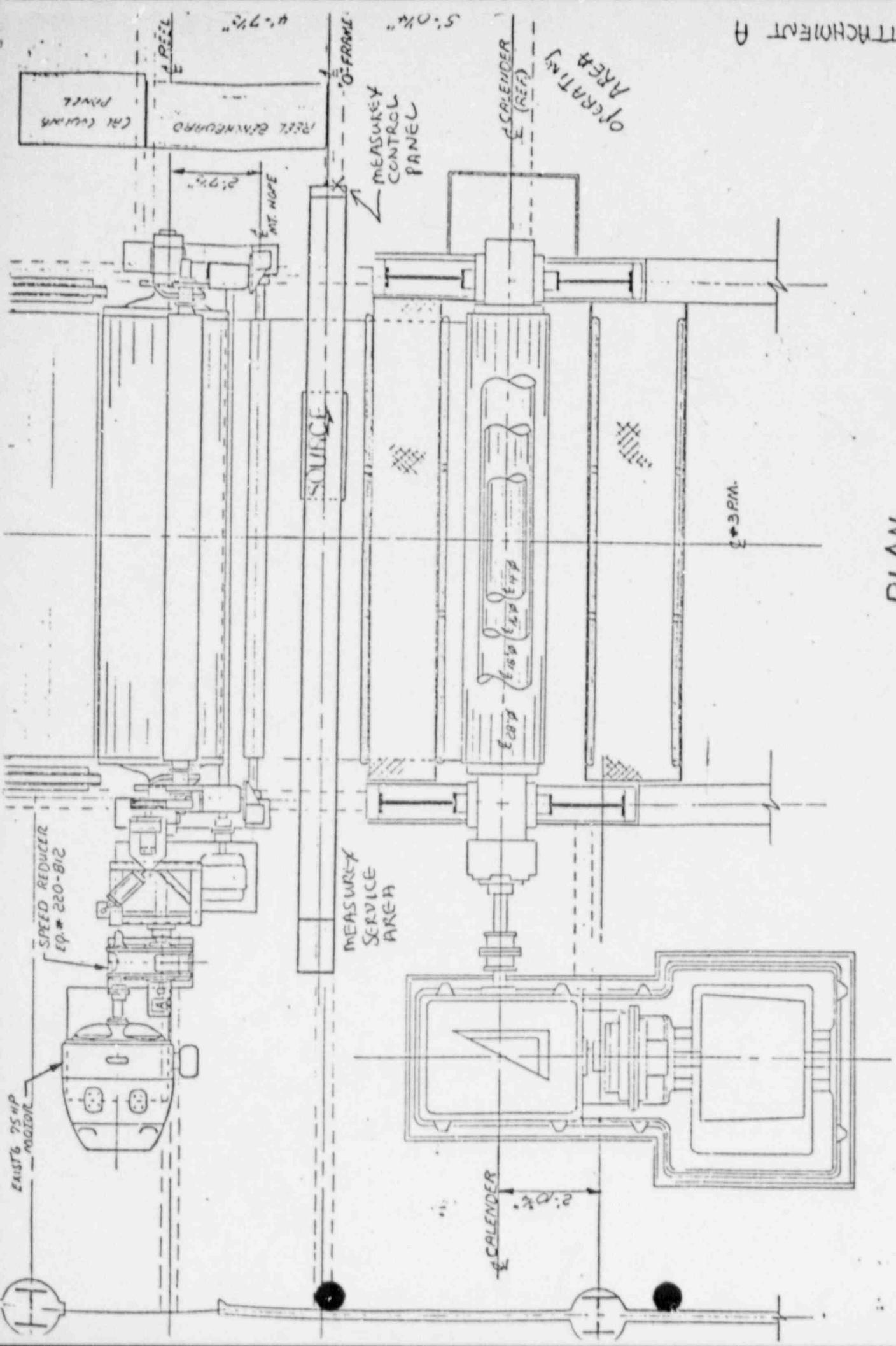
ELEVATION VIEW
(NOT TO SCALE)

SOURCE D

ELEVATION showing MEASURE
"O-FRAME" ON NO. 3 pm AT EAST
MILL, NOCKET

ATTACHMENT A





PLAN

NO. 3 8m MEASURE X

SOURCE D

PAPER TESTING LAB

DESK

C-1000 7-1-44

12'-6"

11'-5"

15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35

ELECTRICAL DEPARTMENT
PAPER LAB
EAST MILLINOCKET MILL
NUCLEAR SOURCE LOCATION
Dwg. No. I-SK-110-25
Sht. No.

Great Northern Paper
a company of
Great Northern Nekoosa Corporation

PAPER MILL SUPT OFFICE

11'-10"

DESK

DESK

DESK

FIRST AID

SAC

△

SOURCE F

A

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35

REVISIONS
A source Referred To View

REFERENCE DRAWINGS

ITEM 9 cont.

2. Equipment is not located in adverse environmental conditions.
3. No cooling systems required.
4. No cooling systems required.
5. All gauges are inspected every 6 months for proper shutter operation. Leak tests are performed in accordance with the manufacturers instructions.

ITEM 9 SUB ITEM 6

In the event of an emergency which causes damage to a source or source holder, a qualified instrument man will be called. He will instruct that the area be roped off 30 feet from the source until the area can be surveyed.

When the source or source housing is secured, a manufacturer service rep will be called in to make the final assessment as to the disposition of the source.

Attached is the list posted in the night foreman's office in the event of an emergency.

Doug Firlotte or his designee will notify the NRC in the event of an emergency.

Date: October 2, 1986
Revised: December 9, 1986
Revised: March 23, 1987

TO: All Maintenance and Fall-in Foremen
FROM: N. F. Cook, Maintenance Superintendent
SUBJECT: Damage to Nuclear Gauges

In several locations in the Paper Mill and Steam Plant there are nuclear sources used to measure basis weight, weight or hopper levels. These sources are: No. 3, No. 5 and No. 6 Paper Machine profiling systems (in the measuring head), two sources on conveyor C-13 in the Bark Boiler, the Surge Bin, four dual source beams on the Precipitator Hoppers, and a high level detector on the Clarifier Coil Filter.

In the event of damage to or problems with any nuclear source call the personnel listed below:

<u>NAME</u>	<u>CARD NO.</u>	<u>PHONE NO.</u>
Herbert Hargraves	1108	924-5075
Robert Smith	1082	732-4084
Douglas Griffin	3x9	746-5421
Joseph St.Pierre	995	746-5847
Steve Pealady	1105	746-5682
Bruce Thornton	526	746-5065

If none of the above personnel can be reached or if the above personnel confirm damage to a nuclear source call Douglas Firlotte (Phone No. 723-8671) and Albert Hale (Phone No. 723-8147). If a damaged source is a Measurex device on the Paper Machines also call one of the following Measurex Personnel:

<u>NAME</u>	<u>PHONE NO.</u>
Carl Kelly	469-3613
Phil Small	947-6482
Joel Holcomb	989-5044

N. F. Cook
N. F. Cook,
Maintenance Superintendent

NFC/mcp

cc: A. E. Dentremont
R. D. Violette
R. R. Russell

L. H. Wheaton
J. M. Martin
R. K. Crocker

G. A. Lazorre
D. P. Firlotte
S. T. Glidden

ITEM 10

OPERATIONS BY OTHERS

Installation, initial surveys, relocation and removal will be performed by the manufacturer of the device.

PERSONNEL MONITORING

Film Badge Service Is Done By:

Radiation Detection Corp.
62 Wolfe Rd.
Sunnyvale, CA 94086

RADIATION DETECTION

The meter used at this facility is:

Eberline model E-130M, to detect Beta and Gamma.
Sensitivity Range: 0-.5,5 and 50 MR/HR

The instrument is sent to Eberline semi-annually for calibration.

Eberline Instruments
312 Miami Street
West Columbia NC

A second meter has been purchased.

Eberline model ESPI with HP270 detector sensitivity range: 0.1-2000
MR/HR

LEAK TESTS

Leak tests are performed at six month intervals per the manufacturers specifications.

Great Northern uses a commercial leak test kit. It is a Kay-Ray No. P162-000003. The kit supplier is:

Kay-Ray Inc.
304 Holbrook Drive
Wheeling, IL 60090

Individuals specified in Item 7 of this application perform the tests. All results prior to 1985 are currently on file at the Millinocket Mill. All results since 1985 are kept in the Plant Engineering Department at East Millinocket.

ITEM 10

PERFORMANCE OF SERVICE

Routine maintenance other than installation and removal will be performed by or under the direction of the individuals listed in Item 7 of this application.

Lock-out procedures for all sources are included in Great Northern Paper Company Tag-out Safety Handbook or in Tag-out Safety Memos. Handbooks are distributed to all employees. Memos are posted on safety and department bulletin boards.

ITEM 11

Sources will be returned to the original supplier of the guage.



Great Northern Paper
a company of
Great Northern Nekoosa Corporation

AUTHORIZATION FOR PAYMENT

DATE 7-23-87

TO: GENERAL ACCOUNTING DEPT.
MILLINOCKET, MAINE 04462

PAY TO: U.S. Nuclear Regulatory Commission

Region I Material Licensing Section

631 Park Ave.

King of Prussia, PA

1119101416

ZIP

TERMS:

P. O. NUMBER

DESCRIPTION

UNIT PRICE

EXTENSION

1. Nuclear Source License - Change Request,
License Number: 18-20930-01.
(Application Attached)

\$60 00

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

030-28987

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

03120
11/90

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED

Applicant/Licensee:

Great Northern Paper Co

Application Dated:

7/23/87

Control No.:

107656

License No.:

18-20930-0

2. FEES ATTACHED

Amount: \$60.00

Check No.: 273241

3. COMMENTS

Signed

Jorte

Date

8/12/87

B. LICENSE FEE MANAGEMENT BRANCH

1. Fee Category and Amount:

3P

\$60

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

Amendment _____

Renewal _____

License _____

Signed

S. Kimberly

Date

8/18/87