

MATERIALS LICENSE

Amendment No. 15

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.

301413

Licensee

1. Potlatch Corporation
Research Center2. Paper Group
Cloquet, MN 55720In accordance with letter dated
June 3, 19963. License Number 22-13502-01 is amended in
its entirety to read as follows:

4. Expiration Date July 31, 2000

5. Docket or
Reference No. 030-050496. 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. Iron-55

A. Sealed sources
(Amersham Model
IEC.A1 or new
England Nuclear
NER-460A or Isotope
Products XFB)A. No single source
to exceed
80 millicuries

B. Krypton-85

B. Sealed sources
(Amersham Corp Model
KAC.D4)B. No single source
to exceed
400 millicuries

C. Iron-55

C. Sealed sources
(Amersham Corp.
Model IEC.D2)C. No single source
to exceed 100
millicuries

D. Promethium-147

D. Sealed source
(Amersham Corp.
Model PHC.32)D. No single source
to exceed
4 millicuries

9. Authorized Use:

- A. To be used in a Princeton-Gamma Tech Model X-MET 820 X-ray Fluorescence Analyzer for materials analysis.
- B. To be used in Robin/Lippke Model 4012/8012 System (Ahlstrom Automation) Model MV-KR source holder for moisture/ash measurement.
- C. To be used in Robin/Lippke Model 4012/8012 System (Ahlstrom Automation) Model MV-FE source holder for moisture/ash measurement.
- D. To be used in M/K Systems Inc. Model BFT-1 source holder for weight measurement.

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number

22-13502-01

Docket or Reference Number

030-05049

Amendment No. 15

CONDITIONS

10. Licensed material shall be used only at the licensee's facilities located at the Research Center, Cloquet, Minnesota; Potlatch Corporation at Paper Mill Drive, Cloquet, Minnesota and at Mills Avenue, Brainerd, Minnesota.
11. A. Licensed material shall be used by, or under the supervision of, Elaine M. Granholm, Nancy A. Faris, Kenneth L. Pofert, E. R. Hendrickson, S. M. Vesel, Steven H. Greenfield, Steven Olson or Gregory W. Mielke (for material in Subitem 6.A. only).
- B. The Radiation Safety Officer for this license is Steven Olson.
12. A. (1) The source(s) specified in Item(s) 7.A., 7.C., and 7.D. shall be tested for leakage and/or contamination at intervals not to exceed 6 months. Any source received from another person which is not accompanied by a certificate indicating that a test was performed within 6 months before the transfer shall not be put into use until tested.
- (2) Notwithstanding the periodic leak test required by this condition, any licensed sealed source is exempt from such leak tests when the source contains 100 microcuries or less of beta and/or gamma emitting material or 10 microcuries or less of alpha emitting material.
- B. Any source in storage and not being used need not be tested. When the source is removed from storage for use or transfer to another person, it shall be tested before use or transfer.
- C. The 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, the source shall be removed from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. A 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, 801 Warrenville Road, Lisle, Illinois 60532-4351, ATTN: Chief, Nuclear Materials Safety Branch. The report shall specify the source involved, the test results, and corrective action taken. Records of leak test results shall be kept in units of microcuries and shall be maintained for inspection by the Commission. Records may be disposed of following Commission inspection.
- D. The licensee is authorized to collect leak test samples for analysis by Robert M. Boyd under Agreement State License No. GA 147-1 or tests for leakage and/or contamination shall be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.

COPY

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number

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13. Sealed sources containing licensed material shall not be opened or removed from the gauges by the licensee.
14. The licensee may transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
15. 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.
16. Installation, initial radiation survey, relocation, or removal from service of devices containing sealed sources shall be performed by the licensee or by persons specifically licensed by the Commission or an Agreement State to perform such services. Maintenance and repair of devices and installation, replacement, and disposal of sealed sources shall be performed by the licensee in accordance with the manufacturer's procedures described in letter dated June 3, 1996 or by persons specifically licensed by the Commission or an Agreement State to perform such services.
17. 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 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. Letters dated June 3, 1996, September 27, 1996 and November 6, 1996.

FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date

November 21, 1996

By

Lidet Wason

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: 03122
STATUS CODE: 0
FEE CATEGORY: 3P
EXP. DATE: 20000731
FEE COMMENTS:
DECOM FIN ASSUR REGD: N

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED
APPLICANT/LICENSEE: POTLATCH CORPORATION
RECEIVED DATE: 960610
DOCKET NO: 3005049
CONTROL NO.: 301413
LICENSE NO.: 22-13502-01
ACTION TYPE: AMENDMENT

2. FEE ATTACHED

AMOUNT: 290
CHECK NO.: 140584

3. COMMENTS

SIGNED
DATE

D. Henney
6-11-96

B. LICENSE FEE MANAGEMENT BRANCH (CHECK WHEN MILESTONE 03 IS ENTERED / /)

1. FEE CATEGORY AND AMOUNT: 3P #290

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

3. OTHER

SIGNED
DATE

SC 6/14/96

RECEIVED
JUN 20 1996
REGION III

Log	Jun 7 III
Remitter	
Check No.	140584
Amount	\$290
Fee Category	3P
Type of Fee	AMB
Date Check Rec'd	6/14/96
Date Completed	
By	SC

1996 JUN 14 AM 11:04

Potlatch

Fiber Research and
Development Center

P.O. Box 503
20 N. 22nd Street
Cloquet, Minnesota 55720-0503
Telephone (218) 879-2392
Telefax (218) 879-2375

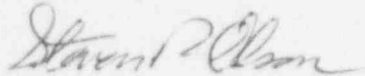
3 June, 1996

Licensing Section
United States Nuclear Regulatory Commission
Region III
801 Warrenville Rd.
Lisle, IL 60532-4351

Dear Sir:

Attached is an amendment request for license **#22-13502-01**. We are amending the license in its entirety. A check for \$290.00 is enclosed to cover the cost of processing the amendment. If you have questions regarding this application, please call our consultant, Susan J. Engelhardt, of Engelhardt & Associates, Inc. at 1-608-274-4227. Thank you for your expeditious response to this request.

Sincerely,



Steven R. Olson

RECEIVED

JUN 10 1996

JUN 10 1996
REGION III

301413

POTLATCH CORPORATION

Amendment request: We request to amend our NRC license in its entirety. Therefore, we are completing a New Form 313 and including new attachments.

5. a. BYPRODUCT MATERIAL	b. CHEMICAL/PHYS. FORM	c. MAXIMUM AMOUNT ALLOWED
A. Iron-55	Sealed sources (Amersham Model IEC.A1 or New England Nuclear NER-460A or Isotope Products XF-8)	No single source to exceed 80 millicuries
B. Krypton-85	Sealed sources (Amersham Corp. Model KAC-D4)	No single source to exceed 400 millicuries
C. Iron-55	Sealed sources (Amersham Corp. Model IEC-D2)	No single source to exceed 100 millicuries
D. Promethium-147	Sealed sources (Amersham Corp. PHC.32 or IPC P/N A3904)	No single source to exceed 4 millicuries

6. PURPOSES FOR WHICH RADIOACTIVE MATERIALS ARE USED.

The purposes coincide with 5(A) → 5(D)

- A. Iron-55: Used in Princeton-Gamma Tech Model X-MET 820 X-Ray Fluorescence Analyzer for Materials Analysis
- B. Krypton-85: To be used in Robin/Lippke Model 4012/8012 System (Ahlstrom Automation) Model MV-KR source holder for moisture/ash measurement.
- C. Iron-55: Used in Robin/Lippke Model 4012/8012 System (Ahlstrom Automation) Model MV-FE source holder for moisture/ash measurement.
- D. Promethium-147: Used in MK Systems, Inc. Model BFT-1 source holder for weight measurement.

7. PERSONS RESPONSIBLE FOR RADIATION SAFETY AND THEIR TRAINING AND EXPERIENCE

- A. As part of the amendment, we request removal of Kenneth L. Johnson as the RSO. He has retired from the company.
- B. The new RSO is Mr. Steven R. Olson. Steven has been a named person on the license for some time. In addition, he has received specific radiation safety training, provided by Engelhardt & Associates, Inc. in a radiation safety seminar. Please see a copy of the course certificate, outline and exam. In addition, Mr. Gregory W. Mielke shall act as the Assistant RSO.
- C. Licensed material shall be used by or under the supervision of Steven R. Olson, Gregory W. Mielke, Ed R. Hendrickson, Susan M. Vesel, Steven H. Greenfield, Kenneth L. Pofert, Elaine M. Granholm, Nancy A. Faris, David F. Peterson, Bruce A. Walker or Ed Kasloski. Their training and experience forms are attached.

8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS

Training for these persons at a minimum shall include:

- Basics of ionizing radiation
- Protection
- Measurements
- Declared pregnant worker
- Dosimetry/ALARA
- Locations of equipment containing radioactive materials
- Postings

9. FACILITIES AND EQUIPMENT

As described./Shown in attachment.

10. RADIATION SAFETY PROGRAM

- A. TRAINING: As described previously.
- B. DOSIMETRY: Radiation badges are not provided to personnel due to the "soft" intensity of the radiation. In addition, there is no chance of receiving 10% of an occupational dose performing regular job duties. However, we do have an ALARA program. A copy of this is attached.
- C. BIOASSAYS: Not applicable.
- D. SURVEYS: These are not done on a routine basis; only if there is a suspected problem.
- E. INVENTORY: An inventory is performed each six months and records retained.
- F. LEAK TESTS: Each six months unless otherwise indicated by the equipment manufacturer. Note: Kr-85 sources are not checked for leakage. Tests are processed by persons licensed by the NRC/Agreement State to do so.
- G. SHUTTER CHECKS: Each six months, where applicable.
- H. STORAGE: Sources may be stored on site pending relocation within Potlatch facilities or shipment back to the manufacturer.

- I. EMERGENCIES: There are few emergencies that could arise with respect to the sources and equipment containing them, but, in any event the equipment would be shut down, removed from service and personnel instructed to stay away from the sources or area where equipment was located or stored. There is a listing of emergency numbers attached.
- J. SOURCE CHANGES: As per the manufacturer specifications in their device registry, the Pm-147 sources shall be changed out by the licensee per the attached protocol.

11. RADWASTE DISPOSAL - All sources are returned to the manufacturer.

Intra Company Memo

To: R&D Staff

Location:

Date: September 5, 1995

From: S. R. Olson/Radiation Safety Officer

Location: Fiber Research and Development; Cloquet, MN

Subject: R&D Radiation Safety and Awareness

1. Radiation Protection Program - "ALARA":

The Nuclear Radiation Commission requires that all licensees develop, document and implement a Radiation Protection Program (10 CFR 20.1101). Because of the minor amount of radioactive material present at R&D, we have adopted a policy statement that says we will keep our radiation exposures "As Low As Reasonably Achievable" or "ALARA". I have placed a copy of R&D's ALARA program near each gauge containing a radioactive source at R&D. An ALARA statement and a corresponding letter to all employees and visitors have been placed on the bulletin boards for mandatory posting (copies are attached).

2a. Awareness at R&D:

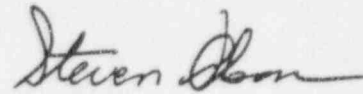
R&D staff that work in and around radioactive sources should know that the sources are present and that they are forbidden to remove (tamper) with the sources at any time. This includes security guards, the fire department, and contractors (including custodial) who come into the R&D facility. Purchases and disposal of all ionizing radiation, including X-ray sources, require proper authorization. The gauges and sources may not be moved/transported without authorization. Each gauge and its respective source and location is listed below.

Radioactive Source	Gauge	R&D Location
Krypton-85 (Kr-85)	Lippke	Pilot Coater
Iron-55 (Fe-55)	Lippke	Pilot Coater
Iron-55	X-Met (Red 2934LG)	Wet End Chemistry Lab (room 104)
Iron-55	X-Met (Yellow 5559LG)	Wet End Chemistry Lab (room 104)
Promethium-147 (Pm-147)	Ambertec	Paper Physics Lab (room 106)

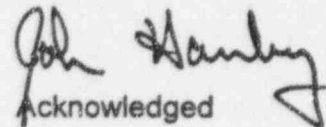
September 5, 1995

2b. Fetal Monitoring (Pregnant Employees):

If an employee becomes pregnant and works in the vicinity of radioactive sources we request that she consult with Potlatch's Occupational Health Nurse (Jennifer Goranson, ext. 567). Based on the consultation with the Occupational Health Nurse and the employee's personal physician, the employee may elect to be reassigned for the duration of the pregnancy. If requested by the employee, we will provide radiation monitoring (individual badging).



S. R. Olson


Acknowledged

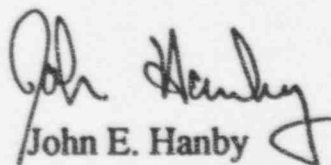
SRO/gmm

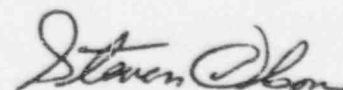
Attachments

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RADIATION PROTECTION PROGRAM and ALARA

Potlatch Corporation, Fiber Research and Development Center is committed to keeping all radiation exposures AS LOW AS REASONABLY ACHIEVABLE or ALARA. This will be accomplished by compliance with all regulations governing the use of our gauges and through employee training and periodic retraining. In addition, all gauges are properly maintained and checked operationally on a frequent basis.


John E. Hanby
Director Potlatch R&D


Steven R. Olson
Radiation Safety Officer


Greg W. Mielke
Assistant Radiation Safety Officer

Intra Company Memo

To: All Employees and Visitors
Location:

Date: June 5, 1995

From: S. R. Olson
Location: Fiber Research and Development; Cloquet, MN
Subject: Radiation Safety Regulations and Procedures

At Potlatch R&D, we use several Nuclear Gauges that incorporate a radioactive source as part of the measurement process. The Nuclear Regulatory Commission (NRC) regulates our usage of these types of devices. The NRC requires that we provide you with notification of who is responsible for Radiation Safety and where copies of the NRC regulations and Operating Procedures are kept and can be examined.

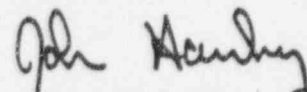
Steven Olson has been designated as the R&D Radiation Safety Officer. Steve is responsible for the Radiation Safety Program for R&D. He is located in the Paper Physics lab and may be contacted by telephone at extension 614.

Gregory Mielke has been designated as the Alternate Radiation Safety Officer. Greg will assume Steve's duties upon his absence from R&D. He is located in the Coating Instrument Lab and may be contacted by telephone at extension 264.

Copies of NRC Regulations and Operating Procedures for our Nuclear Gauges are located in the Paper Physics Lab. This information may be examined by contacting Steve Olson, or in his absence, Greg Mielke.

If you have any questions or concerns regarding this notification or any other aspect of our Radiation Safety Program, please do not hesitate to contact Steve Olson or Greg Mielke.


S. R. Olson


Acknowledged

SRO/gmm

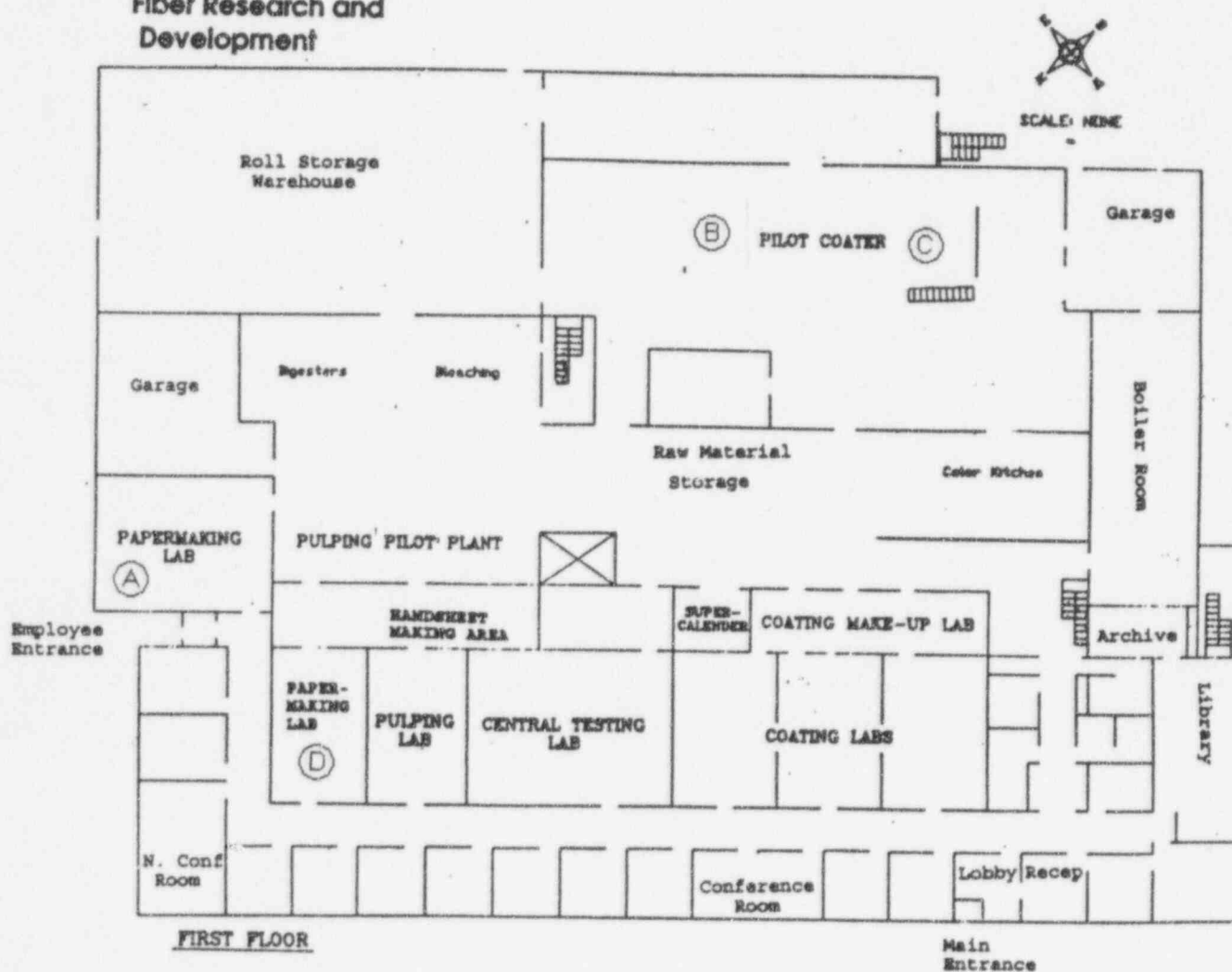
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Potlatch Fiber Research & Development
 20 N. 22nd Street
 Cloquet, MN 55720

Current source/gauge locations:

ID	Source	Gauge	FR&D Location
A	Iron-55	Princeton-Gamma Tech Model X-Met	Papermaking Lab rm. 104
B	Krypton-85	Robin/Lippke Model 4012/8012 Model MV-KR source holder	Pilot Coater
C	Iron-55	Robin/Lippke Model 4012/8012 Model MV-FE source holder	Pilot Coater
D	Promethium-147	MK Systems, Inc Model BFT-1	Papermaking Lab rm. 106

Potlatch
 Fiber Research and
 Development



SECTION I

GENERAL

A. PURPOSE AND DESCRIPTION

The Model E-520 Portable Geiger Counter combines the reliability of Geiger detectors with efficient electronic circuits. This provides an instrument with outstanding operational characteristics in a small, lightweight package at an economical price. The large, ruggedized meter provides exceptional readability and linearity with a variable response time. Special circuitry yields detector saturation greater than 1000 R/h. Calibration stability results from temperature compensation and voltage regulation. High efficiency circuits extend the life of the two D-cell batteries. A rotary switch combines the functions of power switch, battery check, and selection of one of the five sensitivity ranges. The amplifier-driven phone output may be used with headset, speaker assembly (SK-1), or external pulse counter.

To obtain five ranges (0-0.2, 0-2, 0-20, 0-200, and 0-2000 mR/h), two different detector tubes are utilized. One is located within the case itself for detection of high level gamma radiation in a range of 0 to 2000 mR/h. A tube sensitive to lower level gamma and beta radiation is located in the hand probe used on the four lower ranges. Discrimination between beta and gamma radiation is made by means of a rotary shield on the probe. Both mR/h (closed shield) and counts per minute (cpm) (open shield) are presented on the meter scale.

Design features include pulse amplifier, monolithic integrated circuit trigger, meter driver with variable response time, phone driver, regulated and feedback controlled high voltage supply, and individual calibration controls for each range. A single printed circuit board holds and interconnects most components, resulting in a minimum number of solder joints which enhances reliability. The printed circuit board connects to the die-cast cover, forming a completely operational instrument with controls and test points exposed for ease of calibration or maintenance. The instrument is splashproof and dustproof and, along with its temperature stability, can be used under almost any weather conditions.

B. SPECIFICATIONS

1. Front Panel Controls and Connections

a. Range Switch: Seven positions; *OFF*, *BATT*, *X.01*, *X0.1*, *X1*, *X10* and *X100*.

b. Meter: Ruggedized, waterproof, 0-20 μ A.

c. *RESPONSE* control

d. *RESET* switch

e. *PHONE* connector

f. *DETECTOR* connector

2. Readout

a. Range: There are five linear ranges which are switch controlled: 0.2, 2.0, 20, 200, and 2000 mR/h full scale.

b. Meter Scale: 0-20 mR/h shield closed, and 0-24k cpm shield open. *BATT OK* limits are marked on the meter face.

c. Linearity: The 0-0.2, 0-2, 0-20 mR/h ranges are ± 8 percent of full scale nominal. The 0-200 mR/h range is ± 15 percent of full scale nominal. The 0-2000 mR/h is ± 10 percent of full scale nominal.

d. Response Time: Variable by panel control from 10 seconds to 2 seconds measured to 90 percent of final value.

e. Phone: There is one pulse for each event counted. The negative pulse is approximately 2.5 V in amplitude, the pulse width is determined by the range switch position.

f. Saturation Level: The meter will remain at full scale on all ranges in a field of 1000 R/h.

g. Voltage Coefficient: The reading changes less than 10 percent with battery voltage from 3.0 to 2.0 V (new batteries to end point).

3. Detectors

a. The HP-270 is the recommended external probe for use with the E-520. The following Eberline probes are compatible with the E-520: HP-177C, HP-190A, HP-210, HP-260. Each of these probes will have specific limitations. Refer to the applicable catalog sheet for reference.

b. Internal

The Geiger-Mueller (GM) tube is small, rugged,

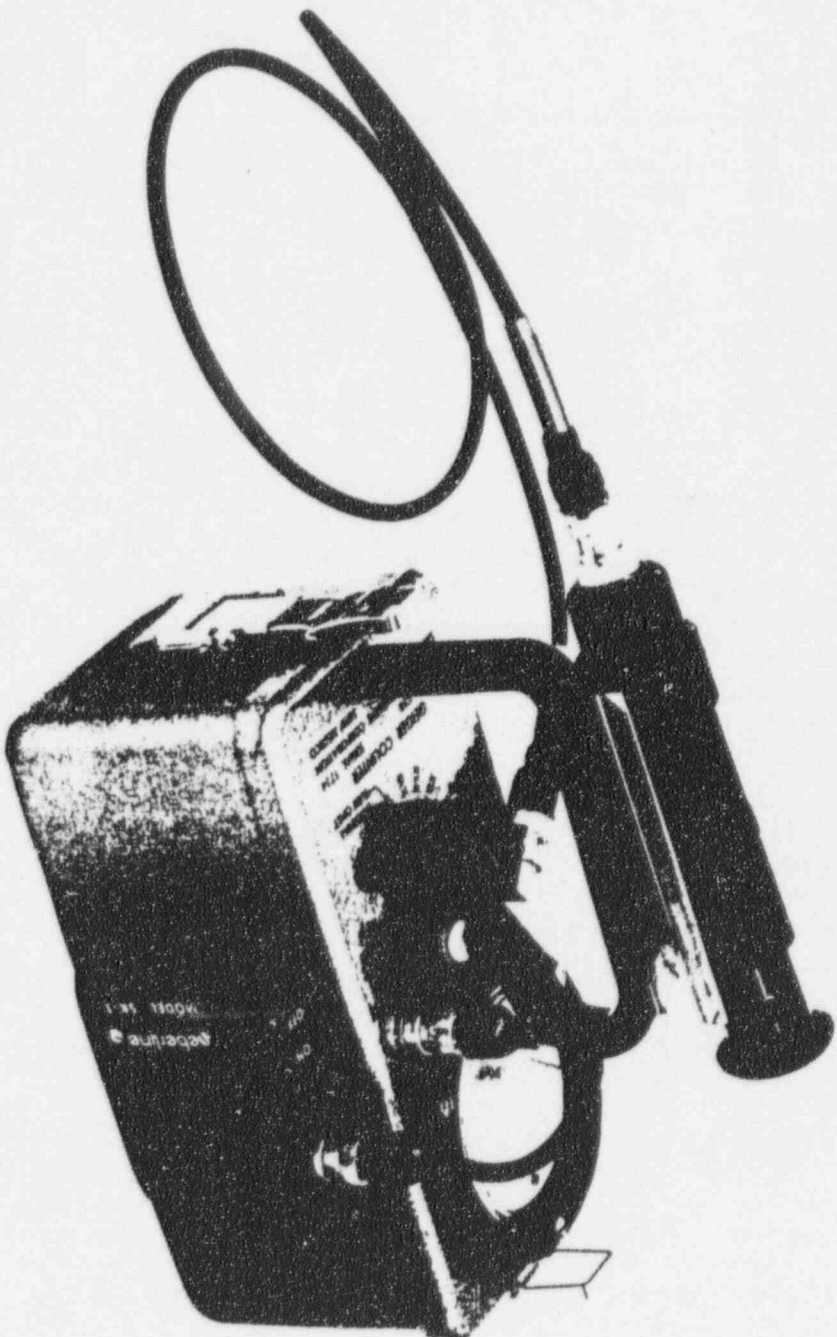


Figure I-1. Model E-520 (Shown with SK-1 Speaker and HP-270 Probe)

Potlatch 1241
Cloget, NH

REMOVAL AND INSTALLATION OF THE SOURCE

The source of beta radiation seats within the collimator above the lower beam of the detector frame. In order to reach the source the detector together with its collar, as well as the sheet pressing cup, must first be removed (see section 8 of this manual).

After the detector and the sheet pressing cup have been removed the brass collimator with the polished surface may be seen. Remove the collimator by lifting it up; if it seats tightly in its place screw it slightly right and left and lift it carefully up.

If necessary, remove the source holder screw from the collimator by turning it counterclockwise. While doing this hold the collimator upright (as it was in the detector frame) in order to prevent the tiny (2 mm in diameter, length 10 mm) source from accidental dropping and disappearing.

CAUTION! The source, however, usually seats rather tightly in its place. It may be carefully pressed out from the holder using a steel wire (a needle will do well) through the small hole at the underside of the source holder. If the source, accidentally, is upside down in the holder, it will be damaged if pushed with a wire. If you have installed the source in a false manner, consult AMBERTEC prior to any further actions!

DANGER! DO NOT TOUCH OR SCRATCH THE TOPSIDE OF THE SOURCE (the radioactive material is at the top end of the source; the Amersham source has a small cavity for the active material at the end of the rod; the IPL source usually has a gold plated, yellow, welded foil at the active end of the rod). As already said above it is wise to handle the source using tweezers or thin rubber (plastic) gloves to prevent the corrosive grease from the fingertips from entering the surface of the source and to prevent fingers from eventual contamination if the active source disc should have been damaged.

The active end of the source may be cleaned from eventual dirt (dust) by blowing air using the bellows supplied along with the tester. See page 73. You will easily recognize the active end of the source: the active disc, 1.3 mm in diameter is placed in a small cavity drilled at the end of the source capsule.

Insertion of the source

Insert the source (by pressing it gently) to its hole in the source holder (the active disc end of the source must point out (up), of course) and - still holding the source holder upright - screw the source holder carefully inside the collimator. As you feel the holder to stop inside the collimator you must not try to screw it further to avoid damage to the threads. Fasten the locknut at the holder.

Install the collimator, sheet pressing cup and detector to its place and fasten the two allen key screws of the detector collar.

WHEN TO CHANGE THE SOURCE ?

The half life decay time for Promethium is about 2.4 years. Within this time the intensity of the source will go down to a half of the original one. When

the pulse counting time gets inconveniently long (to obtain a proper level of pulses through the sample) it is the time to replace the source by a new one:

The old source :

Remove the old source according to the procedure above and put it into the metal can in which it was delivered. It is a good practice to wear plastic or rubber gloves and to use tweezers in the handling of the source. Although the old sources are very weak (dead) they - according to the legislation of most countries - must be stored for possible later inspection by the local Institute for Radiation Safety. Most institutes also receive old sources (for storage or disposal treatment).

The new source:

Insert the new source (by pressing it gently) to its hole in the source holder. The active disc end of the source must point out (up), of course. (You may recognize the active end as follows: the Amersham source has a small cavity for the active material at the end of the rod; the IPL source usually has a gold plated, yellow, welded foil at the active end of the rod). Save the metal can of the source for later use.

Holding the source holder upright screw the source holder carefully inside the collimator. As you feel the holder to stop inside the collimator you must not try to screw it further to avoid damage to the threads. Fasten the locknut.

Place the detector and the sheet pressing cup according to the instructions given above and fasten the detector with it's collar to the frame.

CLEANING OF THE COLLIMATOR AND THE SOURCE

If the zero flux decreases quite rapidly it usually signals operator that the collimator gets dirty. In some cases loose fibers or filler particles from the surface of the sample (e.g. laboratory hand sheets) may enter the collimator tube. The dirt absorbs radiation and must therefore be cleaned out.

Clean the collimator according to the following procedure :

Procedure A.

Insert a piece of thin cardboard (size approximately 10 x 10 cm) into the measuring gap. Take the pumpette (bellows) delivered along with the tester and fit the nozzle at the end of the hose onto the small hole at the side of the collimator. Using the piece of board lift up the brass sheet pressing cup and squeeze the bellows a couple of times to force air to the collimator. The air then forces possible dirt up and out from the collimator tube. The piece of cardboard prevents dust from entering up into the sheet pressing cup through the measuring opening.

Check the zero flux. If no change in the zero flux reading was to be seen there might still be dirt in the collimator that requires more thorough cleaning according to the procedure below :

Procedure B.

Remove the detector (see section 8) and lift up the collimator. Take a plastic bag, a piece of plastic hose about 0.9 mm in diameter (obtainable through AMBERTEC or could be obtained by removing the plastic insulation from a thin electric wire) and a cotton end stick (commonly used in the cosmetics) or a piece of swab. Keeping the collimator in upright position (i.e. as it is in the detector frame) remove the source holder screw from the collimator by turning it counterclockwise. It is wise to work above the opened plastic bag: if you should drop the source it will not get lost but will be retained in the bag.

Hold the collimator above the opened plastic bag and clean the collimator tube by dropping the piece of the plastic hose through the collimator.

CAUTION!

DO NOT ATTEMPT TO USE ANY METAL WIRE TO CLEAN THE COLLIMATOR AS THE SOFT BRASS COLLIMATOR SURFACE WILL EASILY BE DAMAGED. This will decrease the precision of the measurement.

CAUTION!

Very gently wipe the surface of the beta source clean from eventual dirt using the cotton end stick (or swab) and put the stick also into the plastic bag.

WARNING!

THERE IS A VERY THIN METAL WINDOW ON TOP OF THE SOURCE, MADE OF PALLADIUM AND OF SILVER TO PREVENT ANY CONTAMINATION. DO NOT SCRATCH THE SOURCE SURFACE TO PREVENT ANY DAMAGES TO THE SOURCE. USE NO HARD MATERIAL (METAL, PLASTIC, WOOD) FOR CLEANING!

Close the plastic bag and store it for inspection before disposal. Screw the source holder clockwise into the collimator, fasten the locknut, install back to the detector frame, check the zero flux level and fasten the detector.

EXTERNAL RADIATION AROUND THE TESTER

The tester has been tested by the Finnish and Swedish governmental offices for radiation safety. Under normal use no external radiation was observed even when using 8 mCi sources that were available at that time. At the moment the highest activity available through Amersham is 3 mCi in this kind of a point source.

According to measurements carried out by the Swedish governmental office for radiation safety (SSI) following levels of radiation were observed. Please note that in the test the tester was loaded with a 5 mCi Pm-147 source as the sources obtainable today are of 3 mCi only:

Assembled (i.e. ready for operation) device, measured as close to

the beta source as possible, at the sheet pressing cup, at the height of the measuring gap:

- less than 2 $\mu\text{Sv/h}$ with paper in the measuring gap, i.e. with closed gap,
- 17 $\mu\text{Sv/h}$ with totally open (2 mm), empty gap

Assembled device, measured at the gap height, at a distance of 10 cm from the source:

- less than 2 $\mu\text{Sv/h}$ with totally open (2 mm), empty gap.

Are these levels dangerous to the user?

The above exposure rates are negligible under normal operation of the tester. Thus the user will not be exposed to radiation and no personal radiation dosimeter will be necessary.

What about when the collimator is removed?

As the collimator (loaded with the source) is removed from the detector frame a rate of 600 $\mu\text{Sv/s}$ was observed at the collimator tube opening.

The source, removed from the collimator gave a rate of 125 mSv/s.

Even these exposure rates are not dangerous but any unnecessary radiation should be avoided. Therefore the removal and dismantling of the collimator should be done by authorized, skilled personnel only with necessary knowledge in radiological safety.

$\mu\text{Sv/h}$ = microsievert per hour

$\mu\text{Sv/s}$ = microsievert per second

1 $\mu\text{Sv/h}$ equals to 0.1 mrem/h (mR/h)

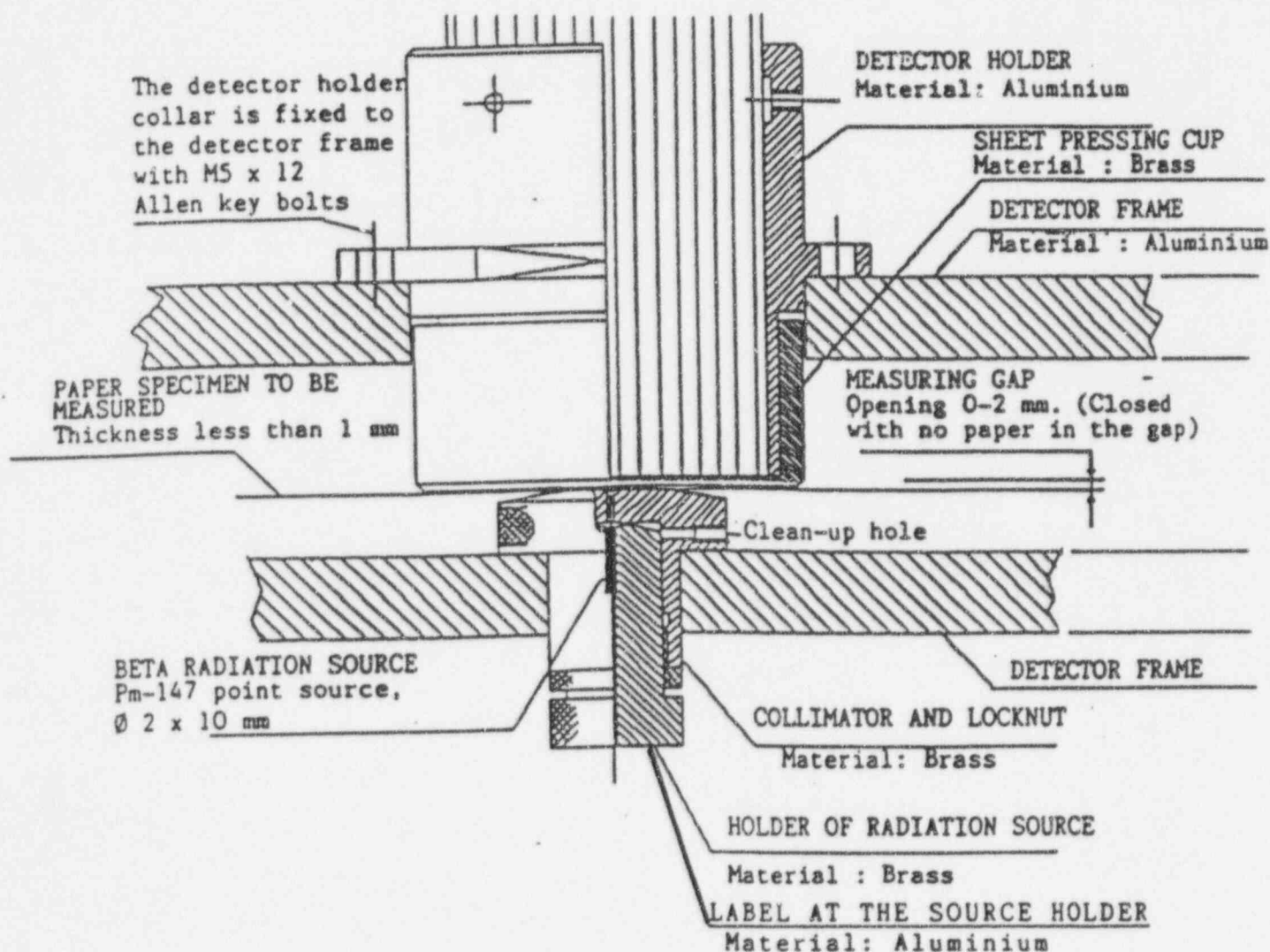
The measurements were carried out by SSI, Sweden, (the Swedish governmental office for radiation safety) using a Philips ZP 1430 GM tube with brass lens (made by SSI) and a Bicon type Labtech scaler ratemeter.

LABEL AT THE SOURCE HOLDER

Engraved in aluminium (anodised, black text)
Shown left in natural size.

The label is epoxy cemented onto the lower end of the source holder.

190 MBq equals to 5 mCi (=exactly 185 MBq)



NOV 26 1996

Barbara Reher, Director
Research and Development
Potlatch Corporation
Research Center
Paper Group
Cloquet, MN 55720

Dear Ms. Reher:

Enclosed is Amendment No. 15 to your NRC Material License No. 22-13502-01 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 at (630) 829-9887 so that we can provide appropriate corrections and answers.

Please be advised that we are unable to authorize Gregory Mielke for material in Subitems 6.B., 6.C., and 6.D. as well as the Assistant RSO at this time. If you would like to name him at a later date, please provide documentation of gauge specific training and the duties of the Assistant RSO. You may submit the aforementioned information to Control No. 301413 with no additional fee.

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

301413

- b. When the licensee's mailing address changes (no fee is required if the location of byproduct material remains the same).
3. In accordance with 10 CFR 30.36(b) and/or license condition, notify NRC, promptly, in writing, and request termination of the license when you decide to terminate all activities involving materials authorized under the license.
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. Since serious consequences to employees and the public can result from failure to comply with NRC requirements,

B. Reher

-3-

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
Gidget Watson
Nuclear Materials Licensing Branch

License No.: 22-13502-01

Docket No.: 030-05049

Enclosure: Amendment No. 15

DOCUMENT NAME: M:\03005049.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	GWATSON:jaw								
DATE	11/2/96 JW								

OFFICIAL RECORD COPY

Potlatch

Fiber Research and
Development Center
20 North 22nd Street/P.O. Box 503
East End Avenue B
Cloquet, Minnesota 55720-0503
Telephone (218)879-2392
Telefax (218)879-2375

FAX TRANSMISSION COVER SHEET

DATE: 11/5/96

ATTN: Sandy Frazier

COMPANY: NRC Region III

FAX #: (630) 515-1259

FROM: Steven R. Olson

The total number of pages being faxed: 8

Dear Sandy
Information you requested
Device Registration

Thx

Steve Olson

MAY-28-96 TUE 11:16 AM M/K SYSTEMS

15067745202

P.01



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20565

Mr. Antero Komppa
Chairman
AMBERTEC Ltd.
P.O. Box 58
Hannuksenkujä 10 H 37
02271 Espoo, Finland

NOV 09 1989

Dear Mr. Komppa:

Based on the information and test data submitted by your application dated June 23, 1989, with enclosures thereto, we conclude that Model BFT-1 Formation Tester design is acceptable for distribution to persons holding a specific license from the NRC pursuant to the requirements of 10 CFR Part 30.33 or the equivalent provisions of an Agreement State. The enclosed certificate of registration is not authorization to distribute the device to general licensees. M/K Systems Inc. will need to apply to NRC's Region I office for a distribution license pursuant to 10 CFR 32.51. M/K Systems has been sent the necessary documentation for preparing an application.

Please be advised that any increase in maximum activity of the device will also require Amersham to amend their certificate of registration for the PHC.32 source. NRC will not process an amendment request for the increase in maximum activity until receipt of an amended certificate for the model PHC.32 source.

Please read over the certificate in its entirety and notify us immediately if there are any errors.

If you have any questions, please contact me or Tom Rich. My phone number is (301) 492-0511.

Sincerely,

A handwritten signature in dark ink, appearing to read "Steven Baggett".

Steven Baggett
Commercial Section
Medical, Academic, and Commercial
Use Safety Branch
Division of Industrial and Medical
Nuclear Safety, NMSS

Enclosure: Registration Certificate NR-129-D-101-5

cc: Glonda Jackson w/encl.
John Kinneman, RI w/encl
—Otto Kallmes, M/K Systems
Hugh Evans, Amersham

REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES
SAFETY EVALUATION OF DEVICE

NO: NR-129-D-101-S

DATE: NOV 09 1996

PAGE: 1 OF 6

DEVICE TYPE: Formation Tester

MODEL: BFT-1

DISTRIBUTOR:

M/K Systems Inc.
12 Garden Street
Danvers, Massachusetts 01923
(508) 774-1880

MANUFACTURER:

AMBERTEC Oy
P.O.Box 58
Hannukenuja 10 H 37
SF-02271 ESPOO, Finland

SEALED SOURCE MODEL DESIGNATION: Amersham model PHC.32

ISOTOPE:

Promethium-147

MAXIMUM ACTIVITY:

4 millicuries

LEAK TEST FREQUENCY: Six (6) Months

PRINCIPAL USE: (E) Beta Gauge

CUSTOM DEVICE: ☐ YES ☒ NO

REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES
SAFETY EVALUATION OF DEVICE

NO: NR-129-D-101-S

DATE: NOV 0 1989

PAGE: 2 OF 6

DEVICE TYPE: Formation Tester

DESCRIPTION:

The Ambertec Beta formation tester is a basis weight gauge for off line use at paper mill quality control laboratories. The tester is used to measure the basis weight variation of paper.

The detector assembly consists of a scintillation detector, a collimator and source holder. The collimator and the source holder are mounted onto the lower beam of a rigid aluminum frame and the detector with a sheet pressing cup is mounted on the upper beam of the frame. The maximum measuring gap height is about 2 millimeters.

The beta source is placed inside the source holder into a 2.1 millimeter in diameter and 10 millimeter long hole. To enable removal of the source a small hole 1 millimeter in diameter is located in the lower end of the source holder. This hole allows the use of a needle to press the source out.

The source holder is then screwed inside the collimator and is secured in it's place by a brass locknut. The holder and collimator are made of solid brass. The source is surrounded with at least 2.5 millimeters of brass.

The collimator is 35 millimeters in diameter and has a collimator opening 1 millimeter in diameter and 2.5 millimeters in length. Because of the weak beta radiation associated with the Promethium-147 source, there is no foil on top of the collimator hole. Paper dust will enter the hole during the use. A small hole drilled at the side of the collimator flange is used to blow the paper dust from the surface of the source.

LABELING:

A Lexan plastic label is glued onto the cover of the device. This label conforms to the requirements of 10 CFR part 20.203. Further, an aluminum label is epoxied to the source holder with the identification of the isotope and the activity.

REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES
SAFETY EVALUATION OF DEVICE

NO: NR-129-D-101-S

DATE: NOV 09 1989

PAGE: 3 OF 6

DEVICE TYPE: Formation Tester

DIAGRAM:

See attachments 1 and 2.

CONDITIONS OF NORMAL USE:

The tester is installed in a fixed position, usually in an air conditioned laboratory. The tester is used by personnel trained in radiation safety. The measurement of a specimen will take about 10 minutes. The loading of a sample into the tester takes less than 30 seconds. Under normal use conditions the operator will only be required to load the samples into the tester once a day or once per 8 hour shift.

The expected useful life of the tester is 15 years.

PROTOTYPE TESTING:

Ambartec reports that the tester has been used in various forms of prototypes (but with the same measuring geometry and safety arrangements) since 1975 with out reported incident. As of May 1989 there were 9 sets of the beta formation tester in use in Scandinavia (Finland and Sweden). These tester reportedly have been tested and accepted by the two countries governmental offices responsible for radiation safety.

The beta radiation source is a sealed Amersham X-110 type capsule, a stainless steel rod with length of 10 millimeters and 2 millimeters in diameter. An active foil disc, 1.3 millimeters in diameters is fastened into a cavity at the end of the rod. The source has achieved an ANSI designation of 77C54343 for a 1 millicurie source. This application uses a 4 millicuries. Based on the approved source design the ANSI designation would also be applicable for the larger source size.

REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES
SAFETY EVALUATION OF DEVICE

NO: NR-129-D-101-S

DATE: NOV 9 1983

PAGE: 4 OF 6

DEVICE TYPE: Formation Tester

EXTERNAL RADIATION LEVELS:

The tester, containing a five millicurie source, has been tested by the Finnish and the Swedish governmental office responsible for radiation safety. No external radiations above background could be found on the accessible surfaces of the devices. Scattered radiation was measured for an empty gap at 10 centimeters and reported as 1.7 millirem per hour. Ambertec also reported a contact dose rate for the source of 12.5 rem per second and a contact dose rate at the collimator opening of 60 millirem per second.

QUALITY ASSURANCE AND CONTROL:

Ambertec reports that all the mechanical parts of the tester are manufactured in series of 50 each in numerically controlled automatic machining units. The machining programs are stored and used for successive series. This coupled with independent measurement of the final product ensures that all testers are mechanically identical.

All testers are assembled by Ambertec and operated for two weeks, loaded with a 3 millicurie promethium147 source, the source is removed before shipment of the device to a customer. Further, prior to shipment each tester is inspected and calibrated by the Helsinki University of Technology, Helsinki, Finland.

LIMITATIONS AND/OR OTHER CONSIDERATIONS OF USE:

- o This device shall be distributed only to those persons specifically licensed by the NRC or an Agreement State.
- o The source capsules shall not be subjected to environmental or other conditions of use which exceed the ANSI N542 classification of 77C54343.
- o The source shall be leak tested at intervals not to exceed six months. The test shall be capable of detecting the presence of 0.005 microcurie of the radionuclide on the test samples.

REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES
SAFETY EVALUATION OF DEVICE

NO: NR-129-D-101-S

DATE: NOV 9 1989

PAGE: 5 OF 6

DEVICE TYPE: Formation Tester

LIMITATIONS AND/OR OTHER CONSIDERATIONS OF USE: (continued)

- o Handling, Storage, Use, Transfer, and Disposal: To be determined by the licensing authority.
- o REVIEWER NOTE: The user of the device in most cases will install the source. Ambertec only provides the device, for the device to work the user must install a source from Amersham. You should request procedures for source installation and removal and for the cleaning of the collimator opening. DO NOT allow the user to handle the source with their bare hands.

Cleaning of the collimator involves the use of compressed air, this air must be filtered to prevent damage to the foil source from foreign material in the air stream. The use of organic solvents to clean the source must be avoided.

The source used in this device has been approved for upto 4 millicuries. The current SSD registration sheet for the source authorizes only 1 millicurie. The decision to authorize the 4 millicurie maximum activity is based on test data submitted by Amersham through Ambertec. No further increase in maximum activity will be granted until Amersham amends its registration sheet for the source.

- o This registration sheet and the information contained within the references shall not be changed without the written consent of the NRC.

SAFETY ANALYSIS SUMMARY:

Based on our review of the information and test data cited below and the claimed ANSI N542 classification for the sealed source, we conclude that the Ambertec formation tester design is acceptable for licensing purposes.

Furthermore, we conclude that this device would be expected to maintain its containment for normal conditions of use which might occur during the uses specified in this registration sheet.

REGISTRY OF RADIOACTIVE SEALED SOURCES AND DEVICES
SAFETY EVALUATION OF DEVICE

NO: NR-129-D-101-S

DATE: NOV 09 1989

PAGE: 6 OF 6

DEVICE TYPE: Formation Tester

REFERENCES:

The following supporting documents for the Ambertec formation tester are hereby incorporated by reference and are made a part of this registration document:

- o Application dated June 23, 1989
- o Undated Telefax received September 6, 1989

ISSUING AGENCY:

U.S. Nuclear Regulatory Commission

Date: NOV 09 1989

Reviewer: *[Signature]*

Date: NOV 09 1989

Concurrence: James W. Rich



ENGELHARDT & ASSOCIATES, INC.

RADIATION CONSULTANTS

25 October, 1996

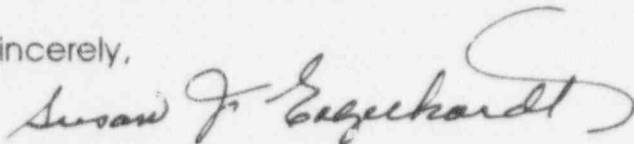
Ms. Gidget Watson
United States Nuclear Regulatory Commission
Region III
801 Warrenville Rd.
Lisle, IL 60532-4351

Dear Gidget:

As requested for Potlatch Corporation in Cloquet Minnesota, control number 301413, the following are the answers to your questions.

Susan M. Vesel was listed previously as Susan M. Nikstad. This is one and the same person. Also, there was no name change etc, so no form 313 was submitted with this amendment. Thank you for your expeditious processing of our application.

Sincerely,



Susan J. Engelhardt
President

cc Steven Olson, Potlatch

RECEIVED
OCT 30 1996
REGION III

Pm: 10-28-96

Potlatch

Fiber Research and
Development Center

27 September, 1996

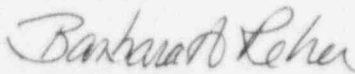
Ms. Pat Vacherlon
United States Nuclear Regulatory Commission
Region III
801 Warrenville Rd.
Lisle, IL 60532-4531

P.O. Box 503
20 N. 22nd Street
Cloquet, Minnesota 55720-0503
Telephone (218) 879-2392
Telefax (218) 879-2375

Dear Ms. Vacherlon

This is to confirm that I am aware of and approve of the application submitted for amendment to your office for your review. I, by my signature on the enclosed documents, approve of actions being taken with this license. Thank you for your assistance.

Sincerely,



Barbara Reher
Director, Research and Development

RECEIVED
SEP 30 1996
REGION III

SEP 30 1996

Potlatch

27 September, 1996

Ms. Pat Vacherlon
United States Regulatory Commission
Region III
801 Warrenville Rd.
Lisle, IL 60532-4531

Fiber Research and
Development Center

P.O. Box 503
20 N. 22nd Street
Cloquet, Minnesota 55720-0503
Telephone (218) 879-2392
Telefax (218) 879-2375

Dear Ms. Vacherlon:

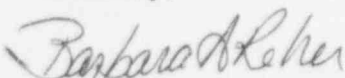
Control Number: 301413

The following are the answers to the questions that we received from you;
they are answered in the same order as posed in the letter:

1. The Radiation Safety Officer is responsible for all operations of the radiation safety program. The duties are summarized as follows: Audits of the program, training of personnel, and surveys that may be done, procedures related to the program, proper postings, appropriate licensure, inventory, leak tests and all associated records and record retention as required by the commission. The only time that the Assistant RSO would act as the RSO is in the physical absence of the RSO. We have attached a signed letter from our management person as you requested, so that the application can be deemed signed by a certified official.
2. The survey instrument that would be used if there were a suspected problem is an Eberline Model E-520 Geiger Counter and is calibrated by Radiation Physics Consultants, Inc. of Duluth, MN, license number 22-16390-01. The frequency of calibration is annually.
3. Source storage: There will be no sources stored on our site. A spent source will be returned to the manufacturer immediately when a new source is installed. Changing the Pm-147 source is the only source change that is performed.
4. Training documentation is included for Mr. Gregory Mielke. We also confirm that Nancy A. Faris is the same person as Nancy A. Tario. Because of changes in operations the following three individuals should be deleted from the license; David F. Peterson, Bruce A. Walker, and Ed Kasloski.

Please call me if you have any further questions regarding this amendment request.

Sincerely,



Barbara Reher
Director, Research and Development

Greg Mielke
Assistant Radiation Safety Officer
Pottlatch Corporation
Fiber Research and Development

Experience Related to Radioactivity

Use of radioisotopes at the VA Medical Center in Minneapolis, MN from 6/87-9/88
including C¹⁴ on Sucrose, a beta emitter; and I¹²⁵ on Dextran, a gamma emitter

Experience with beta and gamma scintillation counters and swipe testing

Some basic training in radiation safety techniques at the VA Medical Center in Minneapolis, MN

Use of sealed sources on gas chromatographs at the U.S. EPA office in Duluth, MN from 9/88-
6/92

CONVERSATION RECORD

TIME

DATE

10/25/96

☐ VISIT☐ CONFERENCE☒ TELEPHONE☐ INCOMING☒ OUTGOING

NAME OF PERSON(S) CONTACTED OR IN CONTACT

ORGANIZATION (OFFICE, DEPT. ETC.)

TELEPHONE NO.

Sue Englehardt, Consultant

Potlatch Corp.

608/274-4227

SUBJECT

License No. 22-13502-01

SUMMARY

I requested documentation to name Susan M. Vesel as an authorized user. Ms. Englehardt stated that Ms. Vesel was previously listed on the license as Susan M. Nikstad.

I also inquired as to whether a form 313 was submitted because one of the attachments to letter dated June 3, 1996 stated so. Ms. Englehardt stated that no 313 was submitted.

Ms. Englehardt stated that she would forward a letter to me with the above information.

ACTION REQUIRED

NAME OF PERSON DOCUMENTING CONVERSATION

SIGNATURE

DATE



10/25/96

ACTION TAKEN

SIGNATURE

TITLE

DATE

SEP 04 1996

Steven R. Olson
Potlatch Corporation
Fiber Research and
Development Center
P.O. Box 503
Cloquet, MN 55720-0503

Dear Mr. Olson:

We have reviewed your letter dated June 3, 1996, requesting to amend your license in its entirety and find that we will need additional information as follows:

RADIATION SAFETY OFFICER

Since your radiation safety officer (RSO) is changing, the application must be signed by someone in your corporate management chain rather than the person who will become your new RSO. In addition, please submit a description of the duties of the radiation safety officer and the assistant radiation safety officer. Describe the circumstances under which the assistant would be acting for the RSO.

RADIATION DETECTION INSTRUMENTS

Your application mentions that you do not do surveys on a routine basis, but would be done if a problem is suspected. Please submit a description of the survey instrument that you would use, the frequency of calibration (not less than one year intervals) and the name of the firm performing the calibrations.

RADIOACTIVE SOURCE STORAGE

Please describe in more detail when you anticipate source storage (other than in a source holder in an operating gauge) including a sketch of the storage area and the security employed to assure that unauthorized personnel do not have access a stored source. Currently, you are not licensed to perform source exchanges or installation. Your letter requests authorization to change out the Pm-147 sources and discussed relocation of sources within your facilities. State if changing the Pm-147 is the only type of source installation you will perform. If not, provide us with procedures for installation or reinstallation of the other gauges in your possession.

TRAINING

Your application stated that training summaries were enclosed for your personnel. We did not find any training summaries. Please submit descriptions of training (with the devices authorized on your license) for Gregory Mielke and Bruce A. Walker. Confirm that Nancy A. Faris is the same person as Nancy A. Tario. If this is a different person, submit training for Ms. Faris.

We will continue our review of your application upon receipt of this information. Please reply in duplicate, within 30 days, and refer to Control Number 301413.

Upon failure to file an answer within the specified time, we will consider that you have abandoned your request and will void this action. This is without prejudice to resubmission of the application.

If you have any questions or require clarification on any of the information stated above, you may contact us at (630) 829-9887.

Sincerely,

Original Signed By
Patricia M. Vacherlon
License Reviewer

License No. 22-13502-01
Docket No. 030-05049

DOCUMENT NAME: M:\03005049.CL6

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OFFICE	DNMS/RIII		DNMS/RIII						
NAME	GWATSON:jaw		PVACHERLON						
DATE	08/3/96 <i>pmv</i>		08/ /96						

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