



**APPENDIX A  
FIXED AND PORTABLE GAUGE INSPECTION RECORD (IP 87114)**

REGION 1

Insp. Report #	2000-001	License #	37-28639-01	Docket #	30-32156
Licensee Name	BBA Nonwovens, Simpsonville, Inc.				
Street Address	P. O. Box 20 Route 15N and Hafer Road				
City, State, Zip	Lewisburg, Pennsylvania 17837				
Location (Authorized Site) Being Inspected	At the above				
Licensee Contact Name	D. Eberhart			Phone #	717-524-2281
Priority	5	Program Code	03120	Description	Fixed Gauge
Date of Last Inspection:	8-22-97		Date of This Inspection	8-23-2000	
Type of Insp.	Announced		Routine	x	Initial
	Unannounced	x	Special		
Next Insp. Date	9-2005	Normal	x	Reduced	Extended
Justification for change in normal inspection frequency:					
<b>Summary of Findings and Actions</b>					
No violations, Clear 591 or letter issued	x		Non-cited violations		
Violation(s), 591 issued	Violation(s), letter issued				
Follow up on previous violations:	Closed- Failure to administer Hazmat training to an individual who signed transportation papers.				
Inspector - Printed Name	Richard H. Ladun				
- Signature	<i>Richard H. Ladun</i>			Date	08-28-2000
Approved - Printed Name	John D. Kinnaman				
- Signature	<i>John D. Kinnaman</i>			Date	8/30/2000

<b>PART I-LICENSE, INSPECTION, INCIDENT/EVENT, AND ENFORCEMENT HISTORY</b>		
<b>1.</b>	<b>AMENDMENTS AND PROGRAM CHANGES</b>	
License amendments issued since last inspection, or program changes noted in the license.		
<b>AMENDMENT #</b>	<b>DATE</b>	<b>SUBJECT</b>
3	2-4-99	Name change
<b>2.</b>	<b>INSPECTION AND ENFORCEMENT HISTORY</b>	
Unresolved issues; previous and repeat violations; Confirmatory Action Letters; and orders.		
None		
<b>3.</b>	<b>INCIDENT/EVENT HISTORY</b>	
List any incidents or events reported to NRC since the last inspection. Citing "None" indicates that regional event logs, event files, and the licensing file have no evidence of any incidents or events since the last inspection.		
Discussions with RSO and a review of the file indicate that no events or incidents have been reported to the NRC since the last inspection		
<b>PART II - INSPECTION DOCUMENTATION</b>		
NOTE: References that correspond to each inspection documentation topic are in Inspection Procedure 87114, Appendix B, "Fixed and Portable Gauge Inspection References."		
<p>The inspection documentation part is to be used by the inspector to assist with the performance of the inspection. Note that not all areas indicated in this part are required to be addressed during <u>each</u> inspection. However, for those areas <u>not covered</u> during the inspection, a notation ("Not Reviewed" or "Not Applicable") should be made in each section, where applicable.</p> <p>All areas covered during the inspection should be documented in sufficient detail to describe what activities and procedures were observed and/or demonstrated. In addition, the types of records that were reviewed and the time periods covered by those records should be noted. If the licensee demonstrated any practices at your request, describe those demonstrations. The observations and demonstrations you describe in this report, along with measurements and some records review, should substantiate your inspection findings. Attach copies of all licensee documents and records needed to support violations.</p>		
<b>1.</b>	<b>ORGANIZATION AND SCOPE OF PROGRAM</b>	

	Management organizational structure; authorized locations of use, including field offices and temporary job sites; type, quantity, and frequency of byproduct material use; staff size; delegation of authority.
	Discussions with the RSO reflect that the management organizational structure is as described in the application. 8 Krypton-85 fixed gauges ( 1200 to 250 millicurie ) used for thickness measurements. 3 authorized users including the RSO who delegate use authority. Devices are in use continuously on the production line.
<b>2.</b>	<b>MANAGEMENT OVERSIGHT</b>
	Management support to radiation safety; Radiation Safety Officer (RSO); program audits or inspections; as low as is reasonable achievable (ALARA) reviews; control and supervision by authorized users.
	Discussions with the RSO indicate that management provides direct support to the safety program. Licensee provides the RSO an internal audit of the program, last conducted on 7-10-2000. Use of device under the control and supervision of authorized users.
<b>3.</b>	<b>FACILITIES</b>
	Facilities as described; uses; control of access; engineering controls; calibration facilities; shielding.
	Tour of the facility by the inspector determined that access control is maintained and is as described in the application. Devices are used as designed.
<b>4.</b>	<b>EQUIPMENT AND INSTRUMENTATION</b>
	Operable and calibrated survey instruments; procedures; 10 CFR Part 21 procedures.
	Inspector determined that the survey meter is calibrated and operable, last calibration date 5-27-2000. Inspector reviewed operating and emergency procedures.
<b>5.</b>	<b>MATERIAL USE, CONTROL, AND TRANSFER</b>
	Materials and uses authorized; security and control of licensed materials; and procedures for receipt and transfer of licensed material.
	Inspector determined that materials and uses are authorized. Control and security of the devices is maintained.
<b>6.</b>	<b>AREA RADIATION SURVEYS AND CONTAMINATION CONTROL</b>
	Radiological surveys; leak tests; inventories; handling of radioactive materials; records; contamination control; public doses.
	Review of documents indicate that inventories and shutter checks are being conducted at least every 6 months, last 8-17-2000. Inspector determined that the RSO has conducted dose assessments to the public in 1998. The results are well within NRC allowable limits.

<b>7.</b>	<b>TRAINING AND INSTRUCTIONS TO WORKERS</b>
Training and retraining requirements and documentation; interviews and observations of routine work; staff knowledge of all routine activities; 10 CFR Parts 19 and 20 requirements; emergency response.	
Inspector determined that training and retraining had been administered as required. During a tour of the facility, the Inspector determined that staff knowledge of all routine activities appeared adequate.	
<b>8.</b>	<b>RADIATION PROTECTION</b>
Radiation protection program with ALARA provisions; access control; dosimetry; exposure evaluations; dose and survey records and reports; annual notifications to workers; bulletins and other generic communications.	
Not applicable	
<b>9.</b>	<b>RADIOACTIVE WASTE MANAGEMENT</b>
Disposal or transfer of sources; packaging, control, and tracking procedures; records.	
Inspector reviewed source disposal records dated 8-3-2000 which were generated by the vendor. All records were complete and contained the required information describing packaging and control.	
<b>10.</b>	<b>DECOMMISSIONING</b>
Records relevant to decommissioning; decommissioning plan/schedule; notification requirements; cost estimates; funding methods; financial assurance; and Timeliness Rule requirements; changes in radiological conditions since decommissioning plan was submitted.	
Inspector determined that records relevant to decommissioning are being maintained as required.	
<b>11.</b>	<b>RADIATION TRANSPORTATION</b>
Quantities and types of licensed material shipped; packaging design requirements; shipping papers; hazardous materials HAZMAT communication procedures; return of sources; procedures for monitoring radiation and contamination levels of packages; HAZMAT training; and records and reports.	
Inspector reviewed transportation documents dated 8-3-2000 and determined that they contained the proper HAZMAT communications. Also discussions with RSO indicate that HAZMAT training had been administered to all shipping personnel.	
<b>12.</b>	<b>NOTIFICATIONS AND REPORTS</b>
Reporting and followup of theft; loss; incidents; overexposures; safety-related equipment failures; change in RSO, authorized user; and radiation exposure reports to individuals.	

Discussions with the RSO and a review of the file indicated no notification and reports to the NRC since the last inspection period.						
<b>13.</b>	<b>POSTING AND LABELING</b>					
Notices; license documents; regulations; bulletins and generic information; area postings; and labeling of containers of licensed material.						
Tour of the facility by the Inspector determined that all required posting and labeling was in place to include radiation warning signs.						
<b>14.</b>	<b>INDEPENDENT AND CONFIRMATORY MEASUREMENTS</b>					
Areas, both restricted and unrestricted, surveyed, and comparison of data with licensee's results and regulations; and instrument type and calibration date.						
Inspector performed surveys of unrestricted areas. All readings were well within NRC allowable limits. A Ludlum Model 14C was used, Calibration date 7/2000.						
<b>15.</b>	<b>VIOLATIONS, NCVs, AND OTHER SAFETY ISSUES</b>					
State requirement and how and when licensee violated the requirement. For NCVs, indicate why the violation was not cited. Attach copies of all licensee documents needed to support violations.						
591-clear issued						
<b>16.</b>	<b>PERSONNEL CONTACTED</b>					
Identify licensee personnel contacted during the inspection (including those individuals contacted by telephone). Use # to indicate individual present at entrance meeting. Use * to indicate individual present at exit meeting.						
	<b>Name</b>	<b>Title</b>	<b>Phone No.</b>	<b>In Person or By phone</b>		
	D. Eberhart C. Morgan	RSO Technician	717-524- 1893	#* #		
<b>17.</b>	<b>PERFORMANCE EVALUATION FACTORS (PEFs)</b>					
	<b>A.</b>	Lack of senior management involvement with the radiation safety program and/or RSO oversight	Y	N	x	
	<b>B.</b>	RSO too busy with other assignments	Y	N	x	
	<b>C.</b>	Insufficient staffing	Y	N	x	
	<b>D.</b>	Radiation Safety Committee fails to meet or functions inadequately	N/A	x	Y	N

	E.	Inadequate consulting services or inadequate audits conducted	N/A	x	Y		N
<b>REMARKS:</b> (Consider the above assessment and/or other pertinent PEFs with regard to the licensee's oversight of the radiation safety program.)							
Program appears adequate							
18.	<b>SPECIAL CONDITIONS OR ISSUES</b>						
Special license conditions; year-2000 effects of computer software and embedded systems.							
Not Applicable							
<b>PART III - POST- INSPECTION ACTIVITIES</b>							
1.	<b>REGIONAL FOLLOWUP ON PEFs</b>						
Not Applicable							
2.	<b>DEBRIEF WITH REGIONAL STAFF</b>						
Post-inspection communication with supervisor, regional licensing staff, Agreement State Officer; and/or State Liaison Officer.							
Discussed inspection results with supervisor							
3.	<b>YEAR-2000 ISSUES</b>						
Convey, to the NMSS Year-2000 Coordinator, all year-2000 licensee-identified problems and corrective actions taken.							
Not Applicable							

**TO ADVANCE TO NEXT SECTION - PUSH PAGE DOWN KEY**

**APPENDIX A - ATTACHMENT A  
DECOMMISSIONING TIMELINESS INSPECTION**

Licensee:	BBA Nonwovens, Simpsonville, Inc.	Date of Inspection:	8-23-2000		
1.	<b>COMPLIANCE WITH DECOMMISSIONING TIMELINESS RULE</b>				
NOTE: Repeat the answers given in Section 12 of the main body of the inspection record. The issues in subsequent sections are dependent on the answers to these questions.					
A.	License to conduct a <i>principal activity</i> <u>has</u> expired or been revoked:	Y		N	x
B.	Licensee <u>has</u> made a decision to permanently cease <i>principal activities</i> , at the entire site, or at any separate buildings, or at any outdoor areas, including inactive burial grounds.	Y		N	x
C.	A 24-month duration has passed in which no <i>principal activities</i> have been conducted under the license at the site, or at any separate buildings, or any outdoor areas, including inactive burial grounds.	Y		N	x
D.	If "Yes" to either A or B or C above:				
	(1) Identify Site/Bldg./Area:				
	(2) Date of occurrence of A, B, or C:				
2.	<b>NOTIFICATION REQUIREMENTS</b>				
A.	Licensee has provided written notification to the U.S. Nuclear Regulatory Commission (NRC) within 60 days of the occurrence of 1.A., 1.B., or 1.C., above.	Y		N	
	If "Yes," date of notification:				
B.	If the licensee is requesting to delay initiation of the decommissioning process, the licensee <u>has</u> provided written notification to NRC within 30 days of occurrence of 1.A., 1.B., or 1.C. above.	N/A	Y	N	
	If "Yes," date of notification:				
Basis for Findings:					
3.	<b>DECOMMISSIONING PLAN/SCHEDULE REQUIREMENTS</b>				
A.	Licensee is required to submit a decommissioning plan per 10 CFR 30.36(g); 10 CFR 40.42(g); 10 CFR 70.38(g); or 10 CFR Part 72?	Y		N	

	If "No" to 3.A., answer the following items B. - F.					
B.	The decommissioning work scope is covered by current license conditions.		Y		N	
C.	Decommissioning has been initiated within 60 days of notification to NRC, or NRC has granted a delay.		Y		N	
D.	If licensee has initiated decommissioning, give date the decommissioning was initiated:					
E.	If decommissioning has been completed, it was completed within 24 months of notification to NRC.	N/A		Y		N
F.	If decommissioning is still scheduled to be completed, it is on schedule to be completed within 24 months of notification to NRC.	N/A		Y		N
Basis for Findings:						
	If "Yes" to 3.A., answer the following items G. - J.					
G.	The decommissioning plan has been submitted to NRC within 12 months of notification.		Y		N	
	If "Yes," date of submittal:					
	If NRC approved, date of NRC approval:					
H.	Has the licensee submitted an alternative schedule request?		Y		N	
	If "Yes," date of submittal:					
I.	If decommissioning has been completed, it was completed within 24 months after approval of the decommissioning plan.	N/A		Y		N
J.	If decommissioning is still scheduled to be completed, it is on schedule to be completed within 24 months after approval of the decommissioning plan.	N/A		Y		N
Basis for Findings:						
Violations identified, if any:						

END

# Health and Safety - SELF Assessment Question List

## IV. S. Ionizing Radiation

		Score
S. 1	The facility has a written ionizing radiation program <i>procedures NOT program</i>	2
S. 2	The facility has a radiography permit system that	5
S. 3	All sources on site are covered by a current general or specific license.	5
S. 4	The specific license names the current RSO and covers procedures that facility personnel are authorized to perform (shutter tests, wipe tests gauge relocation)	5
S. 5	Appropriate labeling of sources and source areas is visible and in accordance with company policy.	4
S. 6	The facility has the NRC or State "Notice to Employees" sign conspicuously posted. Posting includes the location of the site license, written operating procedures, and NOVs. <i>DO NOT POST SPECIFICS</i>	3
S. 7	Inspections, shutter and wipe tests are performed as specified by the license. <i>6 Mos. intervals</i>	5
S. 8	A survey is done at installation and removal of each source.	5
S. 9	Employee exposure assessments are conducted on employees who install, relocate, remove or maintain gauges.	5
S. 10	Personal dosimetry is performed for employees if required by the license, and for employees who may exceed 1/4 of the dose for a restricted area within a calendar year.	N/A
<b>S. 11</b>	A written laser program is developed for Class 2, 2a and 3a lasers that includes an inventory of facility lasers and training materials.	
S. 12	A written laser program is developed for Class 3b and 4 lasers that includes name of LSO, inventory of lasers, training requirements, protective measures and medical surveillance.	N/A
S. 13	Lasers have state permits, where required.	N/A
S. 14	Laser labels contain the proper information.	N/A
S. 15	The facility has identified all potential exposures to UV sources, including <u>welding operations</u> , germicide lamps, UV curing machines and <u>mercury vapor lamps</u> . The proper eye protection has been selected and is used for these tasks.	2
S. 16	Interlocks are inspected per the manufacturer's schedule or once per year, at a minimum (e.g. for UV ink curing equipment, germicidal lamps)	N/A
S. 17	The facility has identified all potential microwave/radio-frequency sources, including heaters, heat sealers, ink dryers. These devices are labeled with manufactures warning and are registered with the Center for Devices and Radiological Health (FDA-CDRH)	N/A
S. 18	Written safety procedures are developed to address operation, grounding, shielding removal interlocks and maintenance of microwave/radio frequency sources.	N/A
S. 19	Monitoring of microwave/radio frequency sources is performed to ensure compliance with the ANSI standard and FCC, where applicable.	N/A

D. DeKhart  
D. Weaver  
T. Snyder

### LFE

The first scenario would be for one of our technicians to change the source window in an LFE gauge. This is a 1200 mCi source.

- 1) One technician would replace one source window per quarter.  
(This by far exceeds our past experience.)
- 2) The average time to replace a window does not exceed 30 minutes (1/2 hour).
- 3) An average radiation from an LFE gauge, either whole body or skin, is 0.5 mR/hr. This was measured directly, with a survey meter.

The above data gives the following results:

$$0.5 \text{ mR/hr} \times 0.5 \text{ hr} = .25 \text{ mR/quarter}$$

### Wetformer 2

The next scenario, and the worst case, for exposure in our mill would probably be the LFE for Wetformer 2. This is a 1200mCi source and has the closest operator proximity. This would occur when the operator is inspecting the web or tagging a defect.

- 1) The radiation level at three feet is 6.35mR/hr. This was measured by a Victoreen 190 survey meter, 6/19/98.
- 2) The average operator spends 5 minutes (1/12 hr) per day working within three feet of the frame end.

$$1/12 \text{ hr} \times 5 \text{ days/week} \times 13 \text{ weeks/quarter} = 5.41 \text{ hr/quarter}$$

- 3) The source is only within three feet of the frame end for 5 seconds of a 28 second scan cycle. Therefore the total time, per quarter, spent within the three feet is :

$$5.41 \text{ hr/qtr} \times 5 \text{ seconds}/28 \text{ seconds} = .96 \text{ hr/qtr}$$

The above data gives the following results:

$$6.35 \text{ mR/hr} \times .96 \text{ hr/qtr} = 6.14 \text{ mR/qtr}$$

### Dryline 8-worst case

- 1) The radiation level at three feet is 460 uR/hr, at the sheet passline. Measured with a Victoreen 190 survey meter, 6/19/98.
- 2) The gauge spends 5 sec of every 80 second scan at the end of travel.
- 3) Assume the worst case, the operator stays at the end of the gauge for his/her whole shift (8hr). This would occur for the whole quarter.  
(4months=13 weeks)

The above data, gives the following results:

$$.4 \text{ mR/hr} \times 5 \text{ sec}/80 \text{ sec} \times 8 \text{ hr/day} \times 5 \text{ days/week} \times 13 \text{ weeks/quarter} =$$

13 mR/quarter- with the operator on the end of the gauge for the whole quarter!

### Dryline 8-normal

- 1) The radiation level at three feet is 460 uR/hr, at the sheet passline. Measured with a Victoreen 190 survey meter, 6/19/98.
- 2) The gauge spends 5 sec of every 80 second scan at the end of travel.
- 3) Assuming normal operations, the operator stays at the end of the gauge for 5 minutes of his/her whole shift (8hr).  
(4months=13 weeks)

The above data, gives the following results:

$$.4 \text{ mR/hr} \times 5 \text{ sec}/80 \text{ sec} \times 5 \text{ min/day}/60 \text{ min/hr} \times 5 \text{ days/week} \times 13 \text{ weeks/quarter} = .135 \text{ mR/qtr}$$

### Wetformer 1

- 1) The radiation level at three feet is 200 uR/hr, at the sheet passline. Measured with a Victoreen 190 survey meter, 6/19/98.
- 2) The gauge spends 5 sec of every 120 second scan at the end of travel.
- 3) Assume the worst case, the operator stays at the end of the gauge for his/her whole shift (8hr). This would occur for the whole quarter.  
(4 months=13 weeks)

The above data, gives the following results:

$$.2 \text{ mR/hr} \times 5 \text{ sec}/120 \text{ sec} \times 8 \text{ hr/day} \times 5 \text{ days/week} \times 13 \text{ weeks/quarter} =$$

4.33 mR/quarter

This is below even the level requiring training (100 mR/yr).  
NUREG-1556, Vol 4, 10/97



# Radiation Measurements



6045 Cochran Road  
 Cleveland OH 44139  
 Phone: 440 248-9300  
 FAX: 440-349-2307  
 www.inovision.com

Model 190 w/ 489-110D  
 Serial Nos. 388 265

### CALIBRATION DATA

\*\*\*\* This instrument is in tolerance +/-10% \*\*\*\*  
 RATE

\*\*\*\*\* FINAL DATA \*\*\*\*\*

Range	Rate (mR/h)	Reading (mR/h)	% Error
X 10	69.34	69.0	-0.46
X 10	34.51	34.5	-0.10
X 1	7.7	7.73	0.35
X 1	3.85	3.84	-0.18

	Rate (uR/h)	Reading (uR/h)	% Error
X 100	756	757	0.13
X 100	391	400	2.30
X 10	80	75.0	-6.25
X 10	39.1	39.0	-0.26

Background X 10 N/A 8.0 N/A

Check Source X 1 N/A 1.74 mR/h

### DOSE

Range	Exposure (mR)	Reading (mR)	% Error
X 1	0.513	0.519	1.17

Temp. 22.7 °C Humidity 36 %

Calibrated by *W. Malool* 26-May-00

Technical Director Review *OK* 5,27

Suggested re-cal due 26-May-01

Traceable to the N.I.S.T.  
 Test No. DG10409/99  
 Dated Feb. 17, 1999  
 Exradin Chamber Model A7  
 Serial No. 113

Traceable to the N.I.S.T.  
 Test No. DG10417/99  
 Dated March 17, 1999  
 PTW Chamber Model N23361  
 Serial No. 415

### Source Inventory

BBA Reference	Device Model	Device Serial #	Source Serial #	Isotope	Date Installed	Previous Date	Quantity	Present
						Current Date		
WF 1 Frame	U-7 S-11	972242631	<sup>1753</sup> <del>K-1203-P</del>	Kr-85	<del>4/89</del> 8/00	250mCi	✓	Replaced Source
DL6 Frame	O-5 S-11	383194632	K-1269-P	Kr-85	5/96	9.3GBq	✓	
DL8 Frame	O-5 S-11	38319631	K-1262-P	Kr-85	5/96	9.3GBq	✓	
DL1 Frame Detector	5001-S-70-A SLC-77A HU557	5301 2906 1430	9523	Kr-85	1/31/94	1200mCi	✓	
DL3 Frame Detector	5001-S-70-A SLC-77A HU557	5591 2834 102	9540	Kr-85	6/20/94	1200mCi	✓	
DL5 Frame Detector	5001-S-70-A SLC-77A HU557	5305 2939 1425	9531	Kr-85	1/31/94	1200mCi	✓	
DL7 Frame Detector	5001-S-70-A SLC-77A HU557	5308 2930 100	9532	Kr-85	1/31/94	1200mCi	✓	
WF2 Frame Detector	4 x 4 SLC-77A HU557	13002 2836 1379	9586	Kr-85	3/23/98	1200mCi	✓	

BUSECLOAM  
Performed by: Diana Chelant

EMERGENCY  
DO NOT  
REMOVE



Airbill

Sender's Copy  
RETAIN FOR 1 YEAR

The World On Time

From (please print) 8/3/00 Sender's FedEx Account Number 100391082  
BBA Nonwovens Phone 570-524-8473  
Duane L. Eberhart Dept./Floor/Suite/Room  
Rt 15  
Lewisburg Pa 17837 State Pa Zip 17837

Your Internal Billing Reference Information (Optional) (First 24 characters will appear on invoice)  
 To (please print) Nancy Neusom Phone 614-261-2000  
ABB Automation Dept./Floor/Suite/Room  
650 Ackerman Rd  
Columbus State OH Zip 43202

For HOLD at FedEx Location check here  
 Hold Weekday (Not available with FedEx First Overnight)  
 Hold Saturday (Not available at all locations) (Not available with FedEx First Overnight or FedEx Standard Overnight)  
 For Saturday Delivery check here  
 (Extra Charge. Not available to all locations) (Not available with FedEx First Overnight or FedEx Standard Overnight)

Express Package Service Packages under 150 lbs. Delivery commitment may be later in some areas.  
 FedEx Priority Overnight (Next business morning)  
 FedEx Standard Overnight (Next business afternoon)  
 FedEx 2Day\* (Second business day)  
 FedEx Government Overnight (Authorized use only)  
 NEW FedEx First Overnight (Earliest next business morning delivery to select locations) (Higher rates apply)

Express Freight Service Packages over 150 lbs. Delivery commitment may be later in some areas.  
 FedEx Overnight Freight (Next business-day service for any distance)  
 FedEx 2Day Freight (Second business-day service for any distance)  
 FedEx Express Saver Freight (Up to 3 business-day service based upon distance)

Page 1 of 1 Pages  
**TRANSPORT DETAILS**  
 Shipment is within the regulations prescribed for (if non applicable)  
 Airport of Departure: IATA  
 Airport of Destination:  
 Shipment type:  NON-RADIOACTIVE  RADIOACTIVE

Two completed and signed copies of this Declaration must be handed to the operator.  
**WARNING**  
 Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties. This Declaration must not, in any circumstances, be completed and/or signed by a consolidator, a forwarder or an IATA cargo agent.

NATURE AND QUANTITY OF DANGEROUS GOODS					Quantity and type of packing	Packing Inst.	Authorization
Dangerous Goods Identification							
Proper Shipping Name	Class or Division	UN or ID No.	Packing Group	Subsidiary Risk			
<u>Krypton 85 Gas</u> Radioactive Material N.O.S.	<u>7</u>	<u>UN 2982</u>			<u>Krypton 85 Gas</u> <u>1 Type A Package</u> <u>X 3 G Bg</u>	<u>Yellow II</u> <u>T.I.=0.1</u> <u>300mm dia</u> <u>X 370mm</u>	

Additional Handling Information  
 I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked, and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.  
 My Telephone Number (Required for US Origin or Destination Shipments) 614-261-2000  
 Name/Title of Signatory: Duane L. Eberhart  
 Place and Date: Sr. Proj. Engr.  
Duane J. Eberhart  
Lewisburg Pa  
8/3/00

Service Conditions, Declared Value, and Limit of Liability - By using this Airbill you agree to the service conditions in our current Service Guide or U.S. Government Service Guide. Both are available on request. SEE BACK OF SENDER'S COPY OF THIS AIRBILL FOR INFORMATION AND ADDITIONAL TERMS. We will not be responsible for any claim in excess of \$100 per package whether the result of loss, damage, or delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, and document your actual loss in a timely manner. Your right to recover from us for any loss includes intrinsic value of the package, loss of sales, interest, profit, attorney's fees, costs, and other forms of damage, whether direct, incidental, consequential, or special and is limited to the greater of \$100 or the declared value but cannot exceed actual documented loss. The maximum declared value for any FedEx Letter and FedEx Pak is \$500. Federal Express may, upon your request, and with some limitations, refund all transportation charges paid.  
 See the FedEx Service Guide for further details

Questions? Call 1-800-Go-FedEx (1-800-463-3339)

**5 Packaging**  
 Other Packaging  
 Dangerous Goods can not be shipped in FedEx packaging.

**6 Special Handling**  
 Dangerous Goods as per attached Shipper's Declaration  
 Dangerous Goods Shipper's Declaration not required  
 Cargo Aircraft Only  
 Dry Ice (Dry Ice, 9 UN 1845 III, \_\_\_\_\_ kg, 992 (Dangerous Goods Shipper's Declaration not required))

**7 Payment**  
 Bill to:  Sender (Account no. in section 7 will be billed)  Recipient  Third Party  Credit Card  Cash/Check  
 (Enter FedEx account no. or Credit Card no. below)  
 FedEx Account No. 100 391082

Credit Card No.	Exp. Date	Total Packages	Total Weight	Total Declared Value	Total Charges
		<u>1</u>	<u>21</u>	<u>\$ 3000.00</u>	<u>\$</u>

When declaring a value higher than \$100 per shipment, you pay an additional charge. See SERVICE CONDITIONS, DECLARED VALUE AND LIMIT OF LIABILITY section for further information.

Signature Release Unavailable

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SRC 96

ACCEPTABLE FOR PASSENGER AIRCRAFT, THIS SHIPMENT CONTAINS RADIOACTIVE MATERIAL INTENDED FOR USE IN, OR INCIDENT TO, RESEARCH, MEDICAL DIAGNOSIS, OR TREATMENT.



5/27/00

# Radiation Measurements

6045 Cochran Road  
Cleveland OH 44139  
Phone: 440 248-9300  
FAX: 440-349-2307  
www.inovision.com



## Survey Meter Calibration Report / Certificate of Calibration

Customer BBA Nonwovens Simpsonville Inc.

Cust PO # M00990

Inovision # 65470

Model 190 w/ 489-110D

Serial Nos. 388 265

\*\*\*\* This instrument is in tolerance +/-10% \*\*\*\*

### CALIBRATION NOTES

\*\*\*\*\* FINAL DATA \*\*\*\*\*

We hereby certify this instrument has been calibrated in accordance with specifications and procedures set forth by INOVISION RADIATION MEASUREMENTS LLC. Radiation levels and electrical measurements are based on standards whose calibrations are traceable to the N.I.S.T.

The suggested frequency of re-calibration is only a suggestion. User license requirements, Federal, State, or Local regulations may vary that date.

During calibration the GM probe was positioned perpendicular to the beam.

These GM probes are calibrated up to 100 mR/h. Due to GM tube sensitivities, the highest reading obtained may vary from probe to probe.

The source used for calibration was Cs-137.

All readings below 10 mR/h have been corrected for background radiation.

The formula for % Error is:

$$\left( \left( \text{Reading} - \text{Rate} \right) / \text{Rate} \right) \times 100$$

### IMPORTANT

Any correction made to the instrument readings (e.g., Energy Dependence) are up to the user to apply. Care must be used in applying those factors.

The test response data is on page two (2) of this report.