

LICENSE NO: 37-23341-01

DOCKET NO. (s) 030-20934

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ATTACHED

- ☐ Appendix A  
☐ Appendix B  
☐ Appendix C  
☐ Memo

INSPECTION REPORT NO. 86-02  
Interstate Nuclear Service Corp.  
401 North Third Avenue  
Royersford, Pennsylvania 19468

LICENSEE CONTACT: Randy Thomas

Telephone No: 948-9700

LICENSE NO: 37-23341-01

CATEGORY E PRIORITY: 3

CATEGORY \_\_\_\_\_ PRIORITY: \_\_\_\_\_

CATEGORY \_\_\_\_\_ PRIORITY: \_\_\_\_\_

INSPECTION DATE (s): 9 Oct 86

TYPE OF INSPECTION: ☐ SPECIAL ☐ ANNOUNCED  
☒ ROUTINE ☒ UNANNOUNCED  
☒ DAYSHIFT  
☐ OTHER

SUMMARY OF FINDINGS AND ACTION

- ☐ NO NONCOMPLIANCE, CLEAR 591 ISSUED  
☒ NO NONCOMPLIANCE, LETTER  
☐ NONCOMPLIANCE, APPENDIX A

- ☐ ACTION ON PREVIOUS NONCOMPLIANCE, APPENDIX B  
☐ NONCOMPLIANCE, 591 ISSUED  
☐ SUPPLEMENTAL INFO, APPENDIX C

RECOMMENDATIONS  
SEE BASIS IN APPENDIX C

- ☐ CHANGE CATEGORY TO: \_\_\_\_\_  
☒ NEXT INSPECTION DATE: 10/91

☐ CHANGE PRIORITY TO: \_\_\_\_\_

PERSONS CONTACTED

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INSPECTOR: Van Scavill

APPROVED: J. Costello for 19

Marlene Taylor  
12/2/86

INSPECTION PLAN AND REPORT NUMBER \_\_\_\_\_ Page \_\_\_\_\_ of \_\_\_\_\_

Plan Approved: \_\_\_\_\_ Date: \_\_\_\_\_

Licensee: \_\_\_\_\_ License No. \_\_\_\_\_

Inspection Items	Scheduled for Inspection	Post Inspection Status	Module No.
Management Meeting - Entrance and Exit Interviews (Required)			30703B
Program Requirements, MC 2850 (Required)			77710B
Followup on Noncompliance and Deviations			92702B
Independent Inspection Effort (Required)			92706B
Transportation			86740B

## AREAS INSPECTED AND FINDINGS

Licensee: \_\_\_\_\_ License No: \_\_\_\_\_ Amendment No: \_\_\_\_\_

INSPECTION ITEMS	CRITERIA	FINDING
1. <u>Organization</u>	Lic Cond _____	<u>C</u>
<p>Management organization? Plant Manager - Ops manager - Per. Maint.</p> <p>Radiation Protection Organization? R. Rasmussen is per. Maint. RSO → exp. RSO</p> <p>Scope of Operation? 51 employees at present</p> <p>NOTES &amp; REMARKS: New Plant Manager Mr. Eide left company Mar. 82. Presently working with plastic. Contaminated plastic disposed of as Rad waste if determined clean then returned to use. Receive 10 drums 2/1 will eat up 100</p>		
2. <u>Licensee Internal Audits</u>	Lic Cond _____	<u>C</u>
<p>Scope and frequency? Corporate RSO 1-2 mos.</p> <p>Management controls? Reviewed and Discussed with plant manager. She is</p> <p>NOTES &amp; REMARKS: Required to respond to any findings.</p>		
3. <u>Training and Instructions to Employees</u>	Lic Cond _____	<u>C</u>
<p>Training program, scope and frequency, retraining? Preline training then monthly thereafter.</p> <p>Required tests administered; scores satisfactory? N/A</p> <p>Instructions to workers? Yes 19.12</p> <p>NOTES &amp; REMARKS: They have a training program which lasts for 4 hrs which new employees must attend prior to starting work.</p>		
4. <u>Radiation Protection Procedures</u>	Lic Cond _____	<u>C</u>
<p>Operating &amp; emergency procedures implemented? Lic Cond _____ No change since last inspection.</p> <p>Security? OK 20.207</p> <p>NOTES &amp; REMARKS:</p>		
5. <u>Materials, Facilities and Instruments</u>	Lic Cond _____	<u>C</u>
<p>Authorized uses and quantities? Yes 20.203</p> <p>Restricted areas, posting requirements? Yes</p> <p>Survey instruments &amp; dosimeters; operable, properly calibrated? Yes</p> <p>NOTES &amp; REMARKS: Quantity based on exposure rate. Survey meters are calibrated on a six month basis.</p>		

Presently working 4 day work week 6AM-12 PM actual operation 5 days/wk will soon go to 6 days/wk. No User on Site.

Plastic processing: Receive Drums for processing Drums are opened. Plastic is in bags. Bags are cut open, And sort (workers wear protective clothing) to remove trash tape etc. Plastic is cut into 1-2 ft square strips. Put into transfer bin (yellow bin) and taken to wash room. Load plastic into washer & wash in cold water & detergent. Dry for  $\approx 10$  min. Then put back into transfer bin and take back to densifier when it is accumulated. When enough is collected it is process through densifier which densifies plastic in to small chips about the size of a kernel of corn. Then placed into drum and goes through monitoring. If determined to be contaminated it is shipped as rad waste by IWS. If it is considered clean it is returned to account. Cleaning process results in about 90% plastic clear 10% contaminated and require Rad waste disposal.

## AREAS INSPECTED AND FINDINGS

Licensee: \_\_\_\_\_ License No: \_\_\_\_\_ Amendment No: \_\_\_\_\_

INSPECTION ITEM	CRITERIA	FINDING
<u>6. Receipt and Transfer of Materials</u>		
Procedures implemented, adequate? <i>OK</i>	20.205, 71.51	<u>C</u>
Transfer of byproduct material? <i>OK</i>	30.41	
Control of source material? <i>OK</i>	40.51, 40.64, 70.42, 70.51, 70.53, 70.54	
Labeling and packaging? <i>OK</i>	71.5, 49CFR 170-189	
Records of receipt, transfer, storage, survey, and monitoring? <i>OK</i>	30.51	
Procedures for pickup, receipt, monitoring of packages? <i>OK</i>	20.205(b)&(c)	
NOTES & REMARKS: Shipment records WERE up to date and completely filled out. Wipe test and survey results are kept as part of this record.		
<u>7. Personnel Protection - External</u>		
Personnel monitoring control; minimize exposures, control of accumulated dose? <i>yes</i>	20.101, 201.102, 20.202	<u>C</u>
Surveys conducted, adequate? <i>yes</i>	20.201	
Records of monitoring, surveys, disposals? <i>yes</i>	20.401, Lic Cond _____	
Levels in unrestricted areas? <i>OK</i>	20.1, 20.105	
NOTES & REMARKS: WEEKLY surveys are conducted of the area (offices, sorting and wash areas). These results <del>were</del> less than 2 mR/hr. Only those containers holding the contaminated articles or material going back to the site as waste were reading above 1 mR/hr.		
<u>8. Personnel Protection - Internal</u>		
Airborne concentrations in restricted areas? <i>OK</i>	20.103	Continuous air sampling. Filters changed and counted once a week.
Exposure of minors? <i>N/A</i>	20.104	Youngest employee is 19 years old.
Posting of airborne radioactivity areas? <i>OK</i>	20.203	
Survey, monitoring bioassay requirements; records? <i>OK</i>	20.201, 20.401	
Leak tests of sealed sources? <i>Records not available during this inspection.</i>	Lic Cond _____	
NOTES & REMARKS:		

## AREAS INSPECTED AND FINDINGS

Licensee: \_\_\_\_\_ License No: \_\_\_\_\_ Amendment No: \_\_\_\_\_

INSPECTION ITEM	CRITERIA	FINDING
9. <u>Effluent Control, Waste Disposal</u>		<u>C</u>
Release of effluents? <i>OK</i>	20.106	
Waste disposal, proper packaging for shipment? <i>OK</i>	20.301, 20.303, 20.304, 20.305	
Procedures, records? <i>OK</i>	20.401, Lic Cond _____	
NOTES & REMARKS:		
<i>Presently still working on same system for sewerage disposal. Water sample (1L) taken and analyzed before the water is discharged into the sewage system. Results are below NRC guidelines.</i>		
10. <u>Transportation</u>		<u>C</u>
Management controls, audits? <i>yes</i>		
Selection of packaging? <i>OK</i>	49 CFR 173.393-5; 10 CFR 71	
Preparation of packages for shipment? <i>OK</i>	49 CFR 172.173	
and loading, closing, liquids? <i>OK</i>	49 CFR 172.300	
Markings & labelling? <i>OK</i>	49 CFR 172.402, 403	
Monitoring? <i>yes</i>	49 CFR 173.393	
Shipping papers, loading and placarding of vehicles? <i>yes</i>	49 CFR 172.200	
Reports of Incidents? <i>OK</i>	49 CFR 171.15, 171.16	
Training program? <i>yes</i>	<i>verified by new employee. One 4 hr. training session prior to beginning work.</i>	
Examination of packages? <i>yes</i>		
NOTES & REMARKS:		
<i>Trucks were placarded on all three sides. Incoming shipment from TM was checked. Truck placarded on 3 sides, radiation levels on the out side of the truck were less than .0.5 mR/hr. Shipping papers were kept in a pouch which is left on the passenger side seat when the truck is in use.</i>		
11. <u>Notifications and Reports</u>		<u>C</u>
To individuals? <i>upon request</i>	19.13	
Overexposures, excessive levels and concentrations, incidents? <i>None</i>	20.403, 20.405	
Personnel exposures and monitoring, termination reports?	20.407, 20.408	
Theft or loss of licensed materials?	20.402	
NOTES & REMARKS: <i>Exposure reports are only sent to the employees if they request a copy. Film badges are supplied by Siemens. These are exchanged quarterly. The highest results come from 2 of the washmen/sorters. These 2 individuals received approx. 140 mrem and 250 mrem per quarter respectively. No excessive levels seen. All employees were seen to be wearing their dosimeters.</i>		

## AREAS INSPECTED AND FINDINGS

Licensee: \_\_\_\_\_ License No: \_\_\_\_\_ Amendment No: \_\_\_\_\_

INSPECTION ITEM	CRITERIA	FINDING
12. <u>Posting of Notices</u>		<u>C</u>
Part 20, license & documents, procedures, notice of violations? <i>OK</i>	19.11(a)	
NRC-37 <i>OK</i>	19.11(c)	
NOTES & REMARKS:		
13. <u>Environmental Monitoring Program</u>	Lic Cond _____	<u>C</u>
Implementation of program, scope and frequency as required? <i>OK</i>		
Records maintained, reviewed by management? <i>yes</i>		
NOTES & REMARKS:		
14. <u>Emergency Preparedness</u>	Lic Cond _____	<u>C</u>
Procedures available for incidents and accidents? <i>yes</i>		
Training for personnel; coordination with supporting groups and agencies? <i>yes</i>		
NOTES & REMARKS:		
15. <u>Other License Conditions</u>		_____

NOTES &amp; REMARKS:

Rad Waste packed in new drums and held locally. Goal is to ship Rad Waste at least once/year.

Processing Own plastic Springfield. If this system works then Royersford will be site for Plastic Cleaning.

1. 9 @ New filtration system will replace present Attrition system.

⑥ shipment of Landry Equip. on Aug 6, 1986 INS indicated on their shipping record that placards were used. (Shipped RAM LSA Exclusive use vehicle) Quadrex indicated that placard was N/A. 3 shipments 5, 6, 7, 8 Aug 86 Sept 12, 86. Quadrex indicate on all there's no placard required; However, INS reports all indicate that placard was required.



## AREAS INSPECTED AND FINDINGS

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INSPECTION ITEM	CRITERIA	FINDING
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16. Confirmatory Measurements

Licensee's surveys verified on sampling basis? 201.105, 20.201

Waste container in shipping area 4.5 mR/hr  
1.3 mR/hr

General working area 0.2 - 0.4 mR/hr to include  
Trucks in rear of building

NOTES &amp; REMARKS:

NRC Instrument: 009655 Calibration due date: 1/9/8717. Independent Inspection Effort

majority of radwaste (laundry equip) that was being stored  
on site has been disposed of.

The current status of the waste water pre-treatment facility  
has completion set at the end of November.

NOTES &amp; REMARKS:

INSPECTION REPORT NUMBER \_\_\_\_\_

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## APPENDIX A - DOCUMENTATION OF NONCOMPLIANCE

Licensee: \_\_\_\_\_

License No: \_\_\_\_\_

**Reference**

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**Report Item** \_\_\_\_\_

**10 CFR** \_\_\_\_\_

**Lic Cond** \_\_\_\_\_

**Type n/c** \_\_\_\_\_

**Basis for noncompliance**

Report item \_\_\_\_\_  
10 CFR \_\_\_\_\_  
Lic Cond \_\_\_\_\_  
Type n/c \_\_\_\_\_

Report item \_\_\_\_\_  
10 CFR \_\_\_\_\_  
Lic Cond \_\_\_\_\_  
Type n/c \_\_\_\_\_

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10 CFR \_\_\_\_\_  
Lic Cond \_\_\_\_\_  
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Report item \_\_\_\_\_  
10 CFR \_\_\_\_\_  
Lic Cond \_\_\_\_\_  
Type n/c \_\_\_\_\_

Licensee: \_\_\_\_\_

License No: \_\_\_\_\_

**Status**

Report No: \_\_\_\_\_ Type n/c: \_\_\_\_\_ Describe: \_\_\_\_\_

Action taken: \_\_\_\_\_ OPEN  
 \_\_\_\_\_ CLOSED

Report No.: \_\_\_\_\_ Type n/c: \_\_\_\_\_ Describe: \_\_\_\_\_

Action taken: OPEN  
CLOSED

Report No: \_\_\_\_\_ Type n/c: \_\_\_\_\_ Describe: \_\_\_\_\_

Action taken: OPEN  
CLOSED

Report No: \_\_\_\_\_ Type n/c: \_\_\_\_\_ Describe: \_\_\_\_\_

**Action taken:** OPEN

CLOSED

Report No: \_\_\_\_\_ Type n/c: \_\_\_\_\_ Describe \_\_\_\_\_

<b>Action taken:</b>	<b>OPEN</b>
	<b>CLOSED</b>

Report No: \_\_\_\_\_ Type n/c: \_\_\_\_\_ Describe \_\_\_\_\_

Action taken:	OPEN
	CLOSED

INSPECTION REPORT NUMBER \_\_\_\_\_

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APPENDIX C - SUPPLEMENTARY INFORMATION

Licensee: \_\_\_\_\_ License No: \_\_\_\_\_

- 
- ( ) Uncorrected/repeated noncompliance
  - ( ) Unusual occurrence, conditions, etc
  - ( ) Basis for change of Category or Priority

- ( ) Unresolved items
- ( ) Inspector's comments