

LICENSE NO: 29-23535-01

DOCKET NO. (s) 030-22687

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ATTACHED

- Appendix A
- Appendix B
- Appendix C
- Memo

INSPECTION REPORT NO. 87-01  
TRACE TECHNOLOGIES

BRIDGEWATER NJ

LICENSEE CONTACT: John W. Heatherdale Telephone No: 201-685-2100

LICENSE NO: 29-23535-01 CATEGORY K PRIORITY: 7

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

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

INSPECTION DATE (s): 4/28/87 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: \_\_\_\_\_

CHANGE PRIORITY TO: \_\_\_\_\_

PERSONS CONTACTED

\* John Heatherdale

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INSPECTOR: E. UELRICH

5/1/87

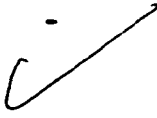


APPROVED: J.D. Timmerman

6/1/87

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: TRACE TECHNOLOGIES License No: 29-23535-01 Amendment No: \_\_\_\_\_

INSPECTION ITEMS	CRITERIA	FINDING
<p>1. <u>Organization</u></p> <p>Management organization? <u>John W. Leatherdale</u></p> <p>Radiation Protection Organization?</p> <p>Scope of Operation?</p> <p>NOTES &amp; REMARKS: <u>arranged for Bob Conolly (consultant) to do leak tests if necessary and answer questions</u></p>	<p>Lic Cond _____</p>	<p><u>JLC</u> <u>NA</u></p>
<p>2. <u>Licensee Internal Audits</u></p> <p>Scope and frequency?</p> <p>Management controls?</p> <p>NOTES &amp; REMARKS:</p>	<p>Lic Cond _____</p>	<p>_____</p>
<p>3. <u>Training and Instructions to Employees</u></p> <p>Training program, scope and frequency, retraining?</p> <p>Required tests administered; scores satisfactory?</p> <p>Instructions to workers?</p> <p>NOTES &amp; REMARKS:</p>	<p>Lic Cond _____</p> <p>19.12</p>	<p><u>Leatherdale is currently the only user. He has had at working unit only 3-4 weeks</u></p>
<p>4. <u>Radiation Protection Procedures</u></p> <p>Operating &amp; emergency procedures implemented?</p> <p>Security?</p> <p>NOTES &amp; REMARKS:</p>	<p>Lic Cond <u>17</u></p> <p>20.207</p>	<p><u>Temp control system</u></p>
<p>5. <u>Materials, Facilities and Instruments</u></p> <p>Authorized uses and quantities?</p> <p>Restricted areas, posting requirements?</p> <p>Survey instruments &amp; dosimeters; operable, properly calibrated?</p> <p>NOTES &amp; REMARKS:</p>	<p>Lic Cond _____</p> <p>20.203</p>	<p><u>JLC</u></p>

## AREAS INSPECTED AND FINDINGS

Licensee: TRACE TECHNOLOGIES License No: 29-23535-01 Amendment No: \_\_\_\_\_

INSPECTION ITEM	CRITERIA	FINDING
<b>6. Receipt and Transfer of Materials</b>		✓
Procedures implemented, adequate?	20.205, 71.51	
Transfer of byproduct material?	30.41	
Control of source material,	40.51, 40.64, 70.42, 70.51, 70.53, 70.54	
Labeling and packaging?	71.5, 49CFR 170-189	
* Records of receipt, transfer, storage, survey, and monitoring?	30.51	couldn't find receipt records.
Procedures for pickup, receipt, monitoring of packages?	20.205(b)&(c)	
NOTES & REMARKS:		
GC not purchased till '86 - was not working. Let'd to mfc - back to TRACE beginning of April		
<b>7. Personnel Protection - External</b>		
Personnel monitoring control; minimize exposures, control of accumulated dose?	20.101, 201.102, 20.202	
Surveys conducted, adequate?	20.201	
Records of monitoring, surveys, disposals?	20.401, Lic Cond _____	
Levels in unrestricted areas?	20.1, 20.105	
NOTES & REMARKS:		
<b>8. Personnel Protection - Internal</b>		
Airborne concentrations in restricted areas?	20.103	
Exposure of minors?	20.104	
Posting of airborne radioactivity areas?	20.203	
Survey, monitoring bioassay requirements; records?	20.201, 20.401	
Leak tests of sealed sources?	Lic Cond _____	
NOTES & REMARKS:		


## AREAS INSPECTED AND FINDINGS

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

INSPECTION ITEM	CRITERIA	FINDING
<b>9. <u>Effluent Control, Waste Disposal</u></b>		
Release of effluents?	20.106	
Waste disposal, proper packaging for shipment?	20.301, 20.303, 20.304, 20.305	
Procedures, records?	20.401, Lic Cond _____	
NOTES & REMARKS:		
<b>10. <u>Transportation</u></b>		
Management controls, audits?		
Selection of packaging?	49 CFR 173.393-5; 10 CFR 71	
Preparation of packages for shipment? Filling and loading, closing, liquids?	49 CFR 172.173 49 CFR 172.300	
Markings & labelling?	49 CFR 172.402, 403	
Monitoring?	49 CFR 173.393	
Shipping papers, loading and placarding of vehicles?	49 CFR 172.200	
Reports of incidents?	49 CFR 171.15, 171.16	
Training program?		
Examination of packages?		
NOTES & REMARKS:		
<b>11. <u>Notifications and Reports</u></b>		
To individuals?	19.13	
Overexposures, excessive levels and concentrations, incidents?	20.403, 20.405	
Personnel exposures and monitoring, termination reports?	20.407, 20.408	
Theft or loss of licensed materials?	20.402	
NOTES & REMARKS:		

AREAS INSPECTED AND FINDINGS

Licensee: TRACE TECHNOLOGIES License No: 29-23535-01 Amendment No: \_\_\_\_\_

INSPECTION ITEM	CRITERIA	FINDING
12. <u>Posting of Notices</u>		
Part 20, license & documents, procedures, notice of violations?	19.11(a)	<i>in file</i> 
NRC-37	19.11(c)	<del>to</del> <i>Posted w/note 19, 20, lic.</i>
NOTES & REMARKS:		
13. <u>Environmental Monitoring Program</u>	Lic Cond _____	_____
Implementation of program, scope and frequency as required?		
Records maintained, reviewed by management?		
NOTES & REMARKS:		
14. <u>Emergency Preparedness</u>	Lic Cond _____	_____
Procedures available for incidents and accidents?		
Training for personnel; coordination with supporting groups and agencies?		
NOTES & REMARKS:		
15. <u>Other License Conditions</u>		_____
<i>TRB</i>		
NOTES & REMARKS:		

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

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777108 - Industrial - Academic

AREAS INSPECTED AND FINDINGS

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

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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

NOTES & REMARKS:

NRC Instrument: \_\_\_\_\_ Calibration due date: \_\_\_\_\_

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17. Independent Inspection Effort \_\_\_\_\_

NOTES & REMARKS:

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INSPECTION REPORT NUMBER 87-01

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APPENDIX A - DOCUMENTATION OF NONCOMPLIANCE

Licensee: TRACE TECHNOLOGIES License No: 29-23535-01

Reference	Basis for noncompliance
Report Item _____ 10 CFR <u>30.51</u> Lic Cond _____ Type n/c _____	No receipt records were available from the source (or the GC): No records of dates of repair or transfer for repair were available. Licensee stated that GC was purchased early '86 but returned to manufacturer for repair. He stated that unit has only been in operation since April '87.
Report Item _____ 10 CFR _____ Lic Cond _____ Type n/c _____	
Report Item _____ 10 CFR _____ Lic Cond _____ Type n/c _____	
Report Item _____ 10 CFR _____ Lic Cond _____ Type n/c _____	
Report Item _____ 10 CFR _____ Lic Cond _____ Type n/c _____	





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

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