



MARYLAND DEPARTMENT OF THE ENVIRONMENT
2500 Broening Highway • Baltimore, Maryland 21224
(410) 631-3000

Parris N. Glendening
Governor

Jane T. Nishida
Secretary

JUN 10 1997

PW 6/13/97
Paul H. Lohaus, Deputy Director
Nuclear Regulatory Commission (NRC)
One White Flint North
11555 Rockville Pike
Rockville MD 20852

97 JUN 12 PM 3:32
OSP

RE: Event Reports

Dear Mr. Lohaus:

Please find enclosed the following event reports, 19-97-01 through 19-97-04. Upon your review, should there be any questions, please forward them to the undersigned.

The Maryland Department of the Environment's (MDE) Radiological Health Program (RHP) is submitting the documentation of EVENT REPORTS for your information. Three (3) of these reports was requested by Ms. Pat Larkins of your staff as a result of the September, 1996 NRC IMPEP audit of the Maryland program. You may also reach our office by calling toll-free at 1-800-633-6101 and requesting extension 3302.

Sincerely,

Carl E. Trump, Jr., Program Manager
Radiological Health Program

CET/edjg

Enclosures: Event Reports

72
NRC FILE CENTER COPY

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PDR STPRG ESGMD
PDR

Event Reporting Handbook

EVENT REPORT COVER PAGE

AGREEMENT STATE

EVENT REPORT NO. 19 - 97 - 01

DATE: 5/28/97

TO:

Deputy Director
Office of State Programs

SUBJECT: Backlog report on stolen/lost Soil Safe, Inc.
moisture/density gauge

STATE: Maryland

Signature and Title: Raymond E. Manley

Lead Health Physicist

Maryland Department of Environment

Radiological Health Program

TABLE 5. NMED EVENT REPORTING INFORMATION (p. 1 of 4)

| General Information on the Event | | | | | | |
|--|-------------|--|-------------|-----------------|------------------|---------------------|
| Original Item # (State\YR\No.) | | Licensee # | | Licensee | | |
| | | MD-07-172-01 | | Soil Safe, Inc. | | |
| City Baltimore | | Street address 4600 East Fayette Street | | | St. MD | Zip Code 21224 - |
| Program Code | Description | | | Reg. | AGs | |
| Other license # | | | | | | |
| License# of Site | | Site of Event | | | | State |
| | | 4600 East Fayette Street, Baltimore, Maryland, 21224 | | | | |
| License# other party | | Name of other party | | | | |
| City other party | | State | Reciprocity | | | |
| Event Date / / | Event Time | Time Zone | Report Date | Report Time | Time Zone | |
| unknown | unknown | | 5 /1/ 95 | unknown | | |
| Discovery Date | | Discovery Time | | | | Time Zone |
| 5 /1/ 97 | | unknown | | | | |
| Reportable event (NRC) (A&B) | AEA | Investigation Pending | | | Consultant Hired | |
| | Yes | Completed | | | No | |
| Event type description | | Cause description | | | | |
| Stolen/Lost Radioactive Materials | | Lack of management oversight | | | | |
| Contributing factor | | Precipitating factor | | | | |
| Lack of use of device | | Management change over | | | | |
| Corrective action | | | | | | |
| NOV issued 7/21/95 | | | | | | |
| Abstract Following the licensee decision to sell device. The device was found to be missing for an undetermined amount of time. Licensee was unsure of whether device was lost or stolen. The gauge was subsequently found by the licensee, onsite, on 12/29/95. | | | | | | |

TABLE 5. NMED EVENT REPORTING INFORMATION (p. 2 of 4)

Reporting Requirements

Requirement designation (State/NRC)

Section D.1201

Regulation Code

COMAR

26.12.01.01

Regulation Description

Immediate report by telephone with
24 hour written report for loss or theft of licensed
sources of radiation.

Equipment Information (System level)

System name

Moisture/Density Gauge

Manufacturer

Soil Test, Inc.

Model#

NIC-5

Manuf. date

/ /

Serial Number

76C031

Equipment problem

None

Equipment Information (Component Level)

Component name

Manufacturer

Model#

Manuf. date

/ /

Serial Number

Isotope

Isotope activity (Ci)

Assay Date

Leak test result (uCi)

Source change dte

CS-137

.010

/ /

/ /

AM-241

.060

Equipment problem

TABLE 5. NMED EVENT REPORTING INFORMATION (p. 3 of 4)

Event

TABL

| Consultant Information | | | | | |
|---|------------------|--------------------------|------------------|--------------------|------|
| Consultant Name | | Company | | | |
| Specialty | | Contracted by | | | |
| Medical Misadministration Information | | | | | |
| Patient# | | Patient Informed | | Diagnostic/Therapy | |
| Proc. Organ Dose Isotp Study Chem Dosag | INTENDED | | GIVEN | | |
| | | | | | |
| % Overtreatment | % Undertreatment | Family Dose | Fetal | Dose Newborn | Dose |
| Effect on patient | | | Who administered | | |
| Overexposure Information | | | | | |
| Person # | | | | | |
| Person # | | | | | |
| Person # | | | | | |
| Dose Received (Rem) | | Radiation Source | | | |
| Type of exposure | | Consequences of Exposure | | | |

Per

Typ

Isot

Con

TABLE 5. NMED EVENT REPORTING INFORMATION (p. 4 of 4)

Demographics Information

| Perf# | Code | Description |
|-------|------|-------------|
|-------|------|-------------|

Release of Material (Containation) Information

| |
|-----------------|
| Type of Release |
|-----------------|

| |
|---------|
| Isotope |
|---------|

| |
|---------------|
| Activity (Ci) |
|---------------|

| |
|-------------|
| Consequence |
|-------------|

EVENT REPORT COVER PAGE

AGREEMENT STATE

EVENT REPORT NO. 19 - 97 - 02

DATE: May 29, 1997

TO:
Deputy Director
Office of State Programs

SUBJECT: Stolen Lead Paint Analyzer

STATE: Maryland

Signature and Title: Alan D. Jacobson, Lead Health Physicist

Maryland Department of Environment

Air and Radiation Management Administration

Radiological Health Program

TABLE 5. NMED EVENT REPORTING INFORMATION (p. 1 of 4)

| General Information on the Event | | | | | | |
|---|---------------------|---------------------|---|--------------------------------------|-----------|------------------------|
| Original Item # (State\YR\No.) | | Licensee # | | Licensee | | |
| | | MD-03-056-01 | | Aerosol Monitoring and Analysis Inc. | | |
| City | | Street address | | | St. | Zip Code |
| Hanover | | 1340 Ashton Road | | | MD | 21076 |
| Program Code | Description | | | | Reg. | AGs |
| | Lead Paint Analyzer | | | | | |
| Other license # | | | | | | |
| License# of Site | | Site of Event State | | | | |
| License# other party | | Name of other party | | | | |
| City other party | | State | Reciprocity | | | |
| Event Date | Event Time | Time Zone | Report Date | Report Time | Time Zone | |
| 5 /30 96 | 0730 hours | Eastern | 5 /30 96 | 0810 hours | Eastern | |
| Discovery Date | | Discovery Time | | | | Time Zone |
| 5 /30 96 | | 0730 hours | | | | Eastern |
| Reportable event (NRC) (AS) | | AEA | Investigation Pending Investigation conducted | | | Consultant Hired No |
| Event type description | | | Cause description - Left unattended in an employee's vehicle which was parked on a public street. | | | |
| Stolen Lead Paint Analyzer | | | | | | |
| Contributing factor - Untrained User - Unauthorized storage location | | | Precipitating factor - employee was not trained as required. | | | |
| Corrective action - All uses were trained. | | | | | | |
| Abstract Between 2020 hours on May 29, 1996 and 0730 hours on May 30, 1996 a Lead Paint Analyzer, RMD LPA-1 model XRF Spectrum Analyzer (Serial number 1151, Source Serial Number FF520) was stolen from an employee's automobile which was parked on the side of a public street. | | | | | | |

Reporting Requirements

| |
|-------------------------------------|
| Requirement designation (State\NRC) |
|-------------------------------------|

| | |
|-----------------|------------------------|
| Regulation Code | Regulation Description |
|-----------------|------------------------|

Equipment Information (System level)

| |
|-------------|
| System name |
|-------------|

| |
|---------------------|
| Lead Paint Analyzer |
|---------------------|

| | | | |
|--------------|--------|-------------|---------------|
| Manufacturer | Model# | Manuf. date | Serial Number |
|--------------|--------|-------------|---------------|

| | | | |
|-----|-----------|-----|------|
| RMD | XRF-LPA 1 | / / | 1151 |
|-----|-----------|-----|------|

| |
|-------------------|
| Equipment problem |
|-------------------|

| |
|------|
| None |
|------|

Equipment Information (Component Level)

| |
|----------------|
| Component name |
|----------------|

| |
|---------------------|
| Lead Paint Analyzer |
|---------------------|

| | | | |
|--------------|--------|-------------|---------------|
| Manufacturer | Model# | Manuf. date | Serial Number |
|--------------|--------|-------------|---------------|

| | | | |
|-----|-----------|-----|------|
| RMD | XRF-LPA 1 | / / | 1151 |
|-----|-----------|-----|------|

| | | | | |
|---------|-----------------------|------------|------------------------|-------------------|
| Isotope | Isotope activity (Ci) | Assay Date | Leak test result (uCi) | Source change dte |
|---------|-----------------------|------------|------------------------|-------------------|

| | | | | |
|-------|----------|---------|-----------|---------|
| Co-57 | 12.0 mCi | 4/30/96 | 0.005 uCi | 4/30/96 |
|-------|----------|---------|-----------|---------|

| |
|-------------------|
| Equipment problem |
|-------------------|

TABLE 5. NMED EVENT REPORTING INFORMATION (p. 3 of 4)

| Consultant Information | | | | | | |
|---|----------|------------------|--------------------------|--------------------|--|--|
| Consultant Name | | | Company | | | |
| Specialty | | | Contracted by | | | |
| Medical Misadministration Information | | | | | | |
| Patient# | | Patient Informed | | Diagnostic/Therapy | | |
| Proc. Organ Dose Isotp Study Chem Dosag | INTENDED | | | GIVEN | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| % Overtreatment | | % Undertreatment | | Family Dose | | |
| | | | | | | |
| Effect on patient | | | | Who administered | | |
| | | | | | | |
| Overexposure Information | | | | | | |
| Person # | | | | | | |
| Person # | | | | | | |
| Person # | | | | | | |
| Dose Received (Rem) | | | Radiation Source | | | |
| | | | | | | |
| Type of exposure | | | Consequences of Exposure | | | |
| | | | | | | |

Psych. Kypofosis

Demographics Information

| Perf# | Code | Description |
|-------|------|-------------|
|-------|------|-------------|

Release of Material (Containation) Information

| |
|-----------------|
| Type of Release |
|-----------------|

[illegible]

| Consequence |
|-------------|
|-------------|

6/18/97 EVENT RIDS DIST
SPOX

Event Reporting Handbook

EVENT REPORT COVER PAGE

AGREEMENT STATE

EVENT REPORT NO. 19 - 97 - 03

DATE: May 28, 1997

TO:
Deputy Director
Office of State Programs

SUBJECT: Troxler gauge run over on Washington D.C. Beltway

STATE: Maryland

Signature and Title: Bob Nelson, Health Physicist

Maryland Department of Environment

Air and Radiation Management Administration

Radiological Health Program

TABLE 5. NMED EVENT REPORTING INFORMATION (p. 1 of 4)

| General Information on the Event | | | | | | |
|---|------------|---|-----------------------|---------------------------------|-----------|------------------|
| Original Item # (State\YR\No.) | | Licensee # | | Licensee | | |
| | | MD-05-116-01 | | Ratrie, Robbins, and Schweitzer | | |
| City | | Street address | | | St. | Zip Code |
| Baltimore | | 803 Gleneagles Court | | | MD | 21286-2201 |
| Program Code | | Description | | | Reg. | AGs |
| 03121 | | Troxler gauges | | | | |
| Other license # | | | | | | |
| License# of Site | | Site of Event | | | State | |
| | | Washington D.C. Beltway I-95 | | | Maryland | |
| License# other party | | Name of other party | | | | |
| | | State Highway Administration (Contractor) | | | | |
| City other party | | State | Reciprocity | | | |
| | | | | | | |
| Event Date | Event Time | Time Zone | Report Date | Report Time | Time Zone | |
| 7/31/95 | 12:30 am | Eastern | 7/31/95 | 1:20 am | Eastern | |
| Discovery Date | | Discovery Time | | | Time Zone | |
| 7/31/95 | | 12:30 am | | | Eastern | |
| Reportable event (NRC) (AS) | | AEA | Investigation Pending | | | Consultant Hired |
| | | | | | | |
| Event type description | | | Cause description | | | |
| Run over troxler gauge | | | Traffic accident | | | |
| Contributing factor | | | Precipitating factor | | | |
| Darkness | | | Aggressive driving | | | |
| Corrective action | | | | | | |
| Unknown | | | | | | |
| <p>Abstract - At approximately 1230 am - Troxler model 4640-B thin layer asphalt density gauge containing 8 mCi of Cs-137 was run over by an automobile on the D.C. Beltway inner loop near the intersection of the Baltimore-Washington Parkway. The gauge was scattered across three lanes of the beltway and the road was closed by Police. HazMat Unit was called and MDE was then called to respond. Source rod was found in tack and placed back in gauge shielding. There was no contamination. Gauge was returned for disposal.</p> | | | | | | |

TABLE 5. NMED EVENT REPORTING INFORMATION (p. 2 of 4)

Reporting Requirements

Requirement designation (State\NRC)
Maryland

| Regulation Code | Regulation Description |
|-------------------|------------------------|
| COMAR 26.12.01.01 | Incident Reporting |

Equipment Information (System level)

System name

| Manufacturer | Model# | Manuf. date / / | Serial Number |
|--------------|--------|--------------------|---------------|
|--------------|--------|--------------------|---------------|

Equipment problem

Equipment Information (Component Level)

Component name
Thin Layer Asphalt Density Gauge

| Manufacturer | Model# | Manuf. date / / | Serial Number |
|--------------|--------|--------------------|---------------|
| Troxler | 4640-B | | 881 |

| Isotope | Isotope activity (Ci) | Assay Date / / | Leak test result (uCi) | Source change dte / / |
|---------|-----------------------|-------------------|------------------------|--------------------------|
| Cs-137 | 8mCi | | | |

Equipment problem

Gauge run over on highway

TABLE 5. NMED EVENT REPORTING INFORMATION (p. 3 of 4)

TAB

| Consultant Information | | | | | | |
|---|----------|------------------|--------------------------|--------------------|--|--------------|
| Consultant Name | | | Company | | | |
| Specialty | | | Contracted by | | | |
| | | | | | | |
| Medical Misadministration Information | | | | | | |
| Patient# | | Patient Informed | | Diagnostic/Therapy | | |
| Proc. Organ Dose Isotp Study Chem Dosag | INTENDED | | | GIVEN | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| % Overtreatment | | % Undertreatment | | Family Dose | | Fetal |
| | | | | | | Dose Newborn |
| | | | | | | Dose |
| Effect on patient | | | | Who administered | | |
| | | | | | | |
| | | | | | | |
| Overexposure Information | | | | | | |
| NONE | | | | | | |
| Person # | | | | | | |
| Person # | | | | | | |
| Person # | | | | | | |
| Dose Received (Rem) | | | Radiation Source | | | |
| | | | | | | |
| Type of exposure | | | Consequences of Exposure | | | |
| | | | | | | |

EVENT REPORT COVER PAGE

AGREEMENT STATE

EVENT REPORT NO. 19 - 97 - 04

DATE: May 6, 1997

TO:
Deputy Director
Office of State Programs

SUBJECT: Lost or Stolen static eliminator which contained po-210,
27 m'licuries

STATE: Maryland

Signature and Title: Leon Rachuba, Health Physicist Lead

Maryland Department of Environment

Air and Radiation Management Administration

Radiological Health Program

General Information on the Event

| | | | | | |
|--|---|------------------------------------|------------------------|---|------------------------|
| Original Item # (State\YR\No.) | | Licensee # General | | Licensee Precision Products Group, Inc. Stone Industrial Division | |
| City College Park | | Street address 9207 51st Avenue | | St. MD | Zip Code 20740 |
| Program Code | Description Nuclestate Bar model P-2001 Static Eliminator | | | Reg. | AGs |
| Other license # | | | | | |
| License# of Site General | | Site of Event Same as above | | | State |
| License# other party N/A | | Name of other party N/A | | | |
| City other party | | State | Reciprocity | | |
| Event Date / / unknown | Event Time unknown | Time Zone | Report Date 4/14/97 | Report Time | Time Zone |
| Discovery Date 3/24/97 | | Discovery Time unknown | | | Time Zone |
| Reportable event (NRC) (AS) | | AEA | Investigation Pending | | Consultant Hired No |
| Event type description Missing Device | | Cause description unknown | | | |
| Contributing factor unknown | | Precipitating factor unknown | | | |
| Corrective action N/A | | | | | |

Abstract - The device is a 12" bar used to eliminate static at a plastic winding machine. It was last used on 2/7/97 and discovered missing about 3/24/97, when the Department supervisor was collecting the devices for return to NRD.

An investigation was conducted by Maryland's RHP on 5/5/97 and the device was still missing. No violations were found during the investigation.

TABLE 5. NMED EVENT REPORTING INFORMATION (p. 2 of 4)

Reporting Requirements

Requirement designation (State\NRC)

Maryland Comar 26.12.01.01

Regulation Code

Sec.C.22(d)(3)(ix)

Sec.D.1201

Regulation Description

Reports of Stolen, lost or missing
Licensed (GL) or registered sources of radiation.

Equipment Information (System level)

System name

Manufacturer

Model#

Manuf. date

/ /

Serial Number

Equipment problem

Equipment Information (Component Level)

Component name

Static Eliminator

Manufacturer

NRD (Nuclestate)

Model#

P-2001

Manuf. date

/ /

Serial Number

SP-36819

Isotope

Isotope activity (Ci)

Po-210

27 m Ci

Assay Date

/ /

Leak test result (uCi)

N/A

Source change dte

N/A

/ /

Equipment problem