

U.S. NUCLEAR REGULATORY COMMISSION  
REGION I  
INSPECTION REPORT

Report No. 030-06156/94-001

Program Code 3620

Docket No. 030-06156

License No. 37-07002-02

Priority 4

Category E

Licensee: Hewlett-Packard Company  
Little Falls Site  
2850 Centerville Road  
Wilmington, Delaware 19808

Facility Name: Hewlett-Packard Company  
Avondale Division

Inspection At: Route 41 and Starr Road  
Avondale, Pennsylvania

Inspection Conducted: February 15, 1994

Inspectors:

Tara L. Weidner 3-16-94  
Tara L. Weidner, Health Physicist date

Sheri A. Arredondo 3/16/94  
Sheri A. Arredondo, Health Physicist date

Approved by:

Mohamed M. Shanbaky 3/16/94  
Mohamed M. Shanbaky, Chief date  
Research and Development Section  
Division of Radiation Safety  
and Safeguards

Inspection Summary: Closeout Inspection on February 15, 1994 (Inspection No. 030-06156/94-001)

Areas Inspected: Announced, closeout inspection limited to a survey of Route 41 and Starr Road for residual contamination prior to release of the facility for unrestricted use. Eighteen wipes were taken and assayed for removable nickel-63 contamination. A survey was performed of selected locations throughout the facility.

Results: No violations were identified. Radioactive contamination was found in one location.

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## Details

### 1. Persons Contacted

Brian Donnelly, Radiation Safety Officer  
Tom Zunino, Engineering Manager  
Vernon Garner, Technician

### 2. Background

In a letter dated August 27, 1993, Hewlett-Packard Company submitted a request to terminate NRC License No. 37-07002-02. Since that time, no radioactive material has been used at the licensee's facility. Radioactive waste generated by the decommissioning of the facility was transferred on November 13, 1992 by RSO, Inc. and remaining sealed sources were transferred on December 8, 1992 by Teledyne Isotopes for disposal by a licensed waste broker.

A closeout survey of areas of radioactive material use was performed by RSO, Inc. for the licensee. A copy of RSO, Inc.'s Final Report was submitted to the NRC in a letter dated August 27, 1993.

### 3. Instruments Used in Survey

Eighteen wipe samples were taken to measure removable contamination in the Hot Lab. Wipes were counted on a Packard Tri-Carb Liquid Scintillation Analyzer at the NRC Region I analytical laboratory. The Lower Limit of Detection for this system for nickel-63 is 16 disintegrations per minute (dpm).

A survey was performed of the floor in this area using an Eberline Model E-120 Geiger Counter with an end-window probe.

### 4. Results of Removable Contamination Survey

Areas of 100 square centimeters were tested at eighteen locations throughout the facility. A diagram showing the locations of the wipes is included as Attachment A to this report. A complete list of the wipe results is included as Attachment B to this report. Contamination exceeding the acceptable removable contamination levels was found on an exhaust air vent in the Hot Lab.

### 5. Results of Radiation Level Survey

No levels of radiation above background were found.

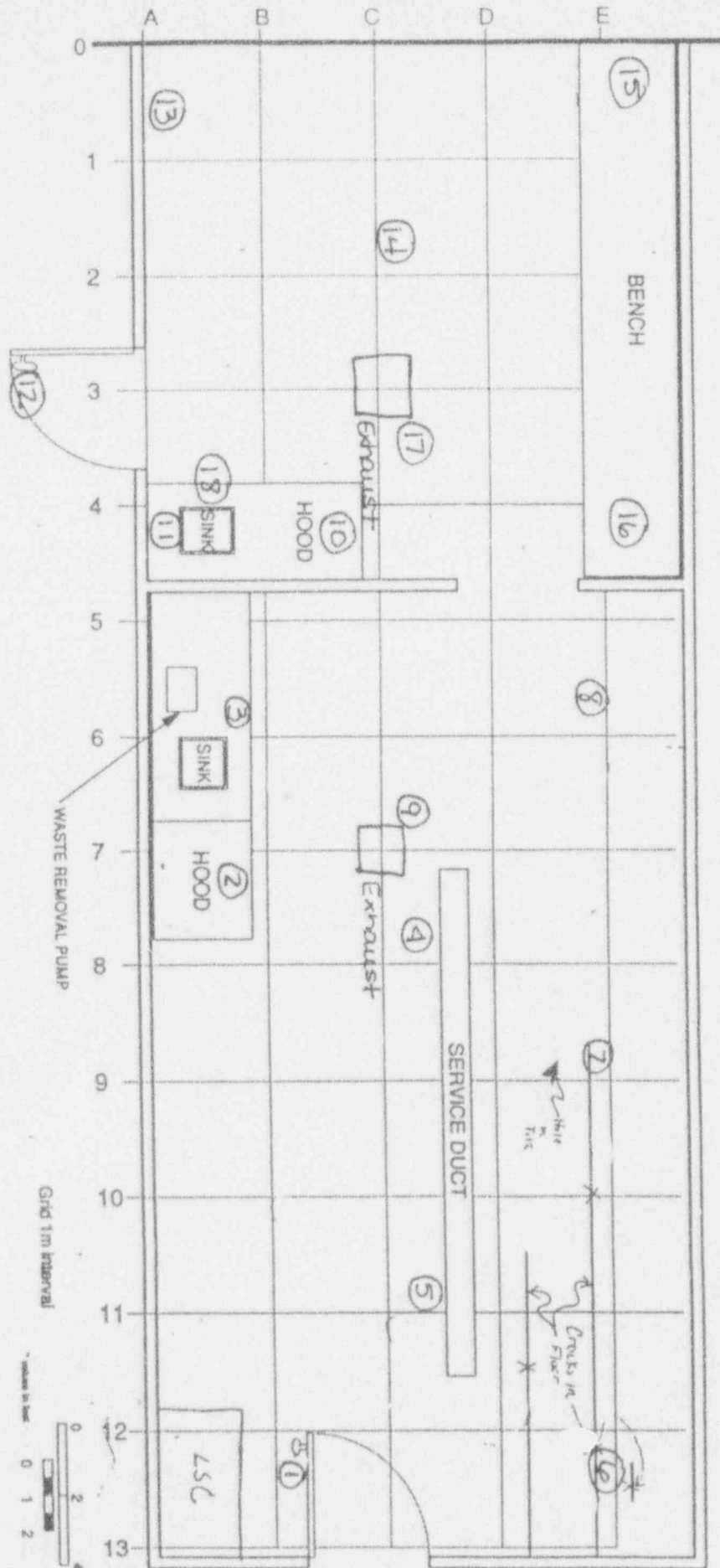
### 6. Residual Materials

The Hot Lab is empty and no radioactive material remains at this facility. Licensee records indicate that all radioactive materials were transferred to a licensed waste broker on November 13 and December 8, 1992.

7. Exit Interview

The results of the initial survey were discussed with Brian Donnelly, Tom Zunino and Vernon Garner at the conclusion of the inspection.

# Attachment A



Hewlett Packard - Hot Lab

## Attachment B

## RESULTS OF REMOVABLE CONTAMINATION SURVEY

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<u>Location</u>	<u>Nickel 63 (dpm/wipe)</u>
1. Door knob	< LLD
2. Floor where fume hood was	< LLD
3. Floor where sink was	< LLD
4. Floor where work bench was	< LLD
5. Floor where work bench was	< LLD
6. Crack in floor	103
7. Floor	< LLD
8. Floor	< LLD
9. Exhaust air vent	< LLD
10. Floor where hood was	23
11. Floor where sink was	< LLD
12. Door knob	< LLD
13. Floor	19
14. Floor	< LLD
15. Floor where work bench was	< LLD
16. Floor where work bench was	< LLD
17. Exhaust air vent	1082
18. Sink line	< LLD