

~~SPECIAL LIMITED~~ INSPECTION

1. Name and address of licensee

Melpar Inc.

Fair Church, Va 22046

2. Date of inspection

12/3/68 ✓

3. Type of inspection

Reinspection 1

4. License number(s), docket number(s), number and date of last amendment for each license. Category and Priority of each license

45-7549-2 then amended #1 dated 3/7/64 ✓

E, III

5. Date of previous inspection

7/13/64

6. Is "Company Confidential", or proprietary, or classified information contained in report?

Yes _____ No ✓

(Specify paragraphs)

7. Scope of inspection

Covered all aspects of the licensee program

8.

Paul R. Gervin
Inspector

12/11/68
Date of Report

W. J. Luthersland
Reviewer

12/12/68
Date of Review

A-780

Licensee Melpac Inc - 2

Summary Personnel exposures due to external radiation had not exceeded permissible values. No exposures had been received due to concentration of radioactive materials. No release of effluents to unrestricted areas had been made. The radiation levels in unrestricted areas had not exceeded permissible values. The high radiation area (inside the irradiator) ~~is~~ controlled so that high radiation levels are not produced outside the irradiator. No disposal had been made.

Noncompliance and Safety Items

None

Unusual Occurrences

None

Status of Previously Reported Noncompliance or Safety Items

no previous items of noncompliance

Management Interview

Reviewed inspection results with Mr. John E. Verma, Head, Lab Biology and Virology. Discussed scope of inspection, purpose. Informed Mr. Verma that no items of noncompliance had been noted during the inspection.

Licensee Melpar Inc -2

DETAILS

A. Participants

S.E. Bush, Safety Coordinator + RSO.

B. Scope of License Program

Have 1980 CR137 source on hand - not used since 1965 -
Same equipment + facilities on hand -

C. Organization

J.P. Chambers, President
R.B. Power, VP in Charge of Research
Melpar is a subsidiary of Westinghouse Air Brake
S.E. Bush now serving as the RSO.

D. Administrative Control

Have Safety Committee that meets every 2 months + reviews all
programs in progress + new proposed programs. Minutes of each
meeting kept. Committee members are as follows:
Mr R.B. Power, VP + Chairman
Mr A.G. Roe, Corporate Secretary + Controller
Mr S.E. Bush, RSO + Safety Coordinator
Mr Joel Finkelman, Senior Scientist
Mr W.F. Hepner, Head, High Science Division

E. Use of Material

Have 1980 C CR137 source on hand in an American
Nuclear Corporation irradiation (CES-I-RAD 2000) not
used since 1965 or since termination of the Robert C. McSherry
(now at LSU)

Licensee

Melpar Inc.

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F. Facilities

No change - the irradiator has remained in place in the Radiochemistry Laboratory since the 2nd security termination. The entrance door is kept locked + S.F. Bush has possession of the key -

G. Equipment

No changes -

H. Radiological Safety Procedures

Leak test sources at 6 month intervals + keep records of the results. ^(4005 MC) The irradiator is not being used + is kept in storage in the locked Radiochemistry Laboratory.

I. Personnel Monitoring and Exposure to External Radiation

Cherline film badges used on a monthly service basis. Worn by all personnel using radioactive materials except those using only H₂. Records showed no exposures exceeded 10 mR/month in 1968 to date - the records satisfy Form AEC-5 requirements.

J. Exposure of Employees to Concentrations of Radioactive Materials

None

Licensee Milpar Inc. - 2

K. Effluents to Unrestricted Areas

None

L. Disposals

None

M. Miscellaneous Surveys, Evaluations, and Records

No instrument survey, + wipe tests in all area of use and storage - Records of the results being maintained. Hand effluents had been evaluated by means of ring badges. (no detectable effluents)

N. Special License Conditions

Leak test every 6 months - Last on 12/2/64 less than 0.005 μ C

O. Posting and Labeling

radiation stored in ~~containing room~~ ^{radiochemistry lab} (not being used)
posted as radiation area in accordance with 20.203
Form AEC-3 posted in accordance with 10CFR 20.206(c)

Licensee

Melpar Inc -2

0-6-

P. Independent Measurements

Read up to 17 m/hr on surface of generator

" " " 2 m/hr at 18" from surface

Q. Operations Observed

none

R. Incidents, Overexposures, Theft or Loss, Equipment Malfunction

none

S. Other Information or Continuation from Previous Paragraphs

none

December 11, 1968

To: Jack F. Sutherland
Senior Radiation Specialist
Region II Division of Compliance

From: Paul R. Quinn
Radiation Specialist

Subject: Inspection Opinion and Evaluation
Nelpar Incorporated
Fall Church, Virginia

License Numbers 45-7528-1 and -2

The licensee has licensed materials under the two licenses had not resulted in health and safety problems. The activities under the -1 license involve relatively small amounts of licensed materials and most individual studies involve only micro beam ^{activities} ~~studies~~. The -2 license ^{activities} involving the cesium irradiator ~~is~~ inactive at the present time (since 1965) but the irradiator and the 1990C Co-60 source are on hand but in storage. Radiation surveys & leak tests by the licensee of the area of use & storage have revealed no significant radiation levels.

An independent radiation survey revealed no significant radiation levels.

Paul R. Quinn

PS
12-12-68