

GOVERNMENT OF NEWFOUNDLAND AND LABRADOR

Service NL

Occupational Health and Safety Inspections Branch



INSPECTION / OFFICER'S REPORT

Page: 1 of:

Reference #:

1080091

Inspection:

NOV 28,2016

MAR 1,2017

1-800-563-5471

MEMORIAL UNIVERSITY OF NFLD

Accident Reporting: 729-4444

Firm #:

4096

DEPT OF HUMAN RESOURCES

940001

ST JOHNS

WCC#:

Tel: 709-737-4615

NL

Toll Free:

Fax: 709-737-2700

A1C-5S7

Worksite:

Labrador Institute

Employees:

5

Location:

North West River, Labrador

NIC:

8531

Employer Co-Chair:

Martha MacDonald

Employee Co-Chair:

Krista Oxford

Insp. Time: 1:30PM

Worker Rep/Designate: N/A

REPORT:

On November 28, 2016, the undersigned conducted a radiation inspection at the Labrador Institute (LI) North West River Research Station. Assistance was provided by Ms. Krista Oxford (Operations. Facilities & Logistics Coordinator) and Dr. Merline Fonkwe (Research Scientist).

According to Ms. Krista and Dr. Rod Hobbs (MUN Radiation & Biological Safety Officer), LI currently has ownership of 1 provincially-regulated radiation-emitting device. The following information was verified during the inspection:

[1]

Registration No.: RER1316071405

OHS Control ID No.: 0108

Certificate: Stored with equipment; no. C1405 (2016.09.30)

Manufacturer: Bruker

Model: Tracer IV-SD (Handheld Tracer XRF Spectrometer)

Serial No.: T4S2559

Location: Basement (Responsible Party: Dr. Merline Fonkwe)

Area/Room: Analytical Lab

Remote Control: Available if connected to laptop. For all work in the Analytical Lab, Dr. Fonkwe intends to use Equipment [1] with a laptop and a Bruker enclosed bench-top stand (set-up was demonstrated during the inspection).

Equipment [1] did not have an OHS control ID affixed near the main controls, but this was corrected during the inspection.

Although a completed form for annual re-registration of Equipment [1] was received from Dr. Hobbs in October, the registration certificate still bears an expired (red) re-registration sticker at the time of the inspection. The undersigned then followed-up on this and had the sticker sent in December. The employer shall ensure that the sticker is affixed to the corresponding registration certificate.

A whole-body personal radiation dosimeter had been assigned to Dr. Fonkwe, the main user of

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Equipment [1]. However, she has yet started to use the dosimeter, explaining that the preparations to use Equipment [1] have just been finished (i.e. designated area, obtain enclosed bench-top stand, non-destructive testing personnel level 2 training, renewed equipment registration).

As explained to Dr. Fonkwe, the whole-body dosimeter is suitable for the set-up demonstrated, but not for handheld operation (e.g. field work). When handheld operation of Equipment [1] is anticipated, a personal ring dosimeter should be obtained prior to such operations. During handheld operation, use the personal ring dosimeter on the finger that is likely to incur the highest risk.

A radiation protection survey has not been conducted in the recent two years. We currently require that all provincially-regulated radiation-emitting equipment undergo radiation protection surveys at least once every two years. More frequent testing may be specified by the equipment manufacturer or if deemed necessary by the OHS Division. As explained to Dr. Hobbs, if a radiation leakage test is included in the manufacturer calibration performed by equipment manufacturers/certified service providers, then what is needed to complete a comprehensive radiation protection survey is a workplace survey, given that the calibration schedule is compatible.

The operations manual for Equipment [1] was made available. Employees are given access to "Safety Requirements and Guidance for Analytical X-ray Equipment - Safety Code 32" through a link posted in the EH&S section of the university's website, under "X-Ray Safety". Mr. Hobbs provided copies of the recently revised internal X-Ray safety training material and X-Ray safety program/manual during a previous inspection.

One corner of the Analytical Lab has been designated for use of Equipment [1]. Appropriate warning signage and labels were observed.

In total, 1 Order are being issued in conjunction with this report.

Received By: Barlona Buttrad		Date: MAD 4 0047
Position: Associate Quedin		Date: MAR 1,2017 Time: 9:52AM
Officer's Name: /valla	Cheuk, Ivan	



Toll Free:

NL

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ORDER FORM

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A1C-5S7

TAKE NOTICE THAT YOU ARE TO COMPLY WITH THE FOLLOWING ORDER(S) ISSUED UNDER AUTHORITY OF THE OCCUPATIONAL HEALTH AND SAFETY ACT, REVISED STATUTES OF NEWFOUNDLAND AND LABRADOR 1990, CHAPTER 0-3 AS AMENDED AND REGULATIONS PASSED PURSUANT THERETO.

ORDER: 1080091- 01

REGULATION: Radiation Health and Safety Regulations

19 5- Equipment Construction, Installation & Mai

A supplier or owner of radiation equipment and associate apparatus shall, after it is installed and before operating for routine use and following a change which alters the radiation output, submit a radiation survey report including the inspection of the electrical and mechanical components of that equipment to the director.

TO WIT:

The employer shall ensure that radiation protection survey is conducted for the Bruker Tracer IV-SD (S/N: T4S2559). Specifically for this equipment and the set-up used in the Analytical Lab (i.e. with laptop remote control, enclosed bench-top stand, and designated area), a radiation leakage test would suffice. However, additional workplace surveys are recommended.

This Order shall be carried out on or before: MAR 27,2017

YOU ARE TO NOTIFY THE INSPECTOR IN WRITING UPON COMPLIANCE. FAILURE TO COMPLY WITH THE ABOVE ORDER(S) IS AN OFFENCE UNDER SECTION 67 OF THE OCCUPATIONAL HEALTH AND SAFETY ACT, RSNL 1990, CHAPTER 0-3 AS AMENDED.

AN ORDER MADE BY AN OFFICER MAY BE APPEALED, IN WRITING, TO THE ASSISTANT DEPUTY MINISTER WITHIN 7 DAYS OF THE ORDER.

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NOV 28,2016

Received By:

Position:

Toll Free:

1-800-563-5471

Barlan, Buttur Associate Diaector

Officer's Name:

Cheuk, Ivan

Return Address:

P.O. Box 8700

St. John's, NL, A1B 4J6

Fax: (709) 729-3445

Date: MAR 1,2017

Time: 9:51AM