

Canadian Nuclear Commission canadi Safety Commission de sûreté nucléaire Commission canadienne

CMD 19-M41

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Event Initial Report

Rapport initial d'événement

Provincial Health Services Authority

Exposure above regulatory limit of a non-Nuclear Energy Worker

Provincial Health Services Authority

Exposition au-dessus de la limite règlementaire pour un travailleur non désigné comme travailleur de secteur nucléaire

Commission Meeting

Réunion de la Commission

November 7, 2019

Le 7 novembre 2019



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EVENT INITIAL REPORT (EIR)

E-DOCS-# 5916778

EIR: Exposure above regulatory limit of a non-Nuclear	Energy Worker at Provincial Health Services Authority
Prepared by: Accelerators and Class II Facilities Divi	ision, Directorate of Nuclear Substance Regulation
Licensee: Provincial Health Services Authority	Location: 600 West 10 Avenue, Vancouver BC
Date Event was Discovered: 2019-05-13	Have Regulatory Reporting Requirements been met?
	Yes 🛛 No 🗌
	Proactive Disclosure:
	Licensee: Yes 🛛 No 🗌 CNSC: Yes 🖾 No 🗌
Overview	
Reporting Criteria: Exposure of a person, organ or tis prescribed in the <i>Radiation Protection Regulations</i> .	ssue to radiation in excess of the applicable radiation dose limits
dosimetry service provider (Landauer) indicated that or 2019/01/01 to 2019/03/31. The employee in question is Radiation therapists are not designed as Nuclear Ener- applicable regulatory dose limit of 1 mSv per year for a This was the first time the staff member has received a therapist as partner during patient treatments, but no u reported taking the dosimeter home and that it may ha least one occasion. The dosimeter was periodically sto	the CNSC that the radiation dose report from the licensee's licensed ne of its employees had received a dose of 1.85 mSv during the period s a radiation therapist at the Vancouver Cancer Centre (VCC). gy Workers at VCC. Consequently, the dose reported was above the a member of the public. a recordable dose. Workers in radiation therapy have at least one other inusual doses were received by any other individuals. The therapist we passed through an airport security x-ray screening device on at ored on a coat rack located near the treatment unit door, a location with en removed from this area. The licensee and the individual reported
that there had not been any specific unusual event that In response to this incident, the licensee took all the ac removed the employee from work that could have adde	
investigation to determine the cause of the exposure.	
Cause(s): The licensee's investigation was unable to i resulted in the dose reading of 1.85 mSv	identify with certainty any specific incident or event that could have
Impact of the Event	
On People:	
How many workers have been (or may be) affected?	1
How many members of the public have been (or may be	be) affected by the event? <u>0</u>
How were they affected?	
The individual involved may have received a dose in e of radiation-related health effects.	xcess of the public dose limit. At this level of exposure, there is no risk
On the Environment: none	
Other Implications: none	
Licensee Actions	
Taken or in Progress: Licensee investigated the even	nt, but was not able to identify an underlying cause.
concluded that after rereading the dosimeter, there did	andauer) investigate the dosimeter reading however their investigation I not seem to be any irregularities and imaging results were dynamic. The licensee has also reminded the individual that the aken home.
The licensee requested return to work authorization from	om the CNSC on May 15, 2019.
Planned: Licensee made a commitment to monitor the dosimeter for the next 6 month. The DRD will be check additional dose to the individual.	e individual with a direct reading dosimeter in addition to the normal ked monthly by the RSO. The first check of the DRD indicates no
CNSC Actions	
Taken or in Progress: CNSC staff have reviewed the	investigation report and the actions already taken and proposed by

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EIR: Exposure above regulatory limit of a non-Nuclear Energy Worker at Provincial Health Services Authority

the licensee and has deemed them to be appropriate and sufficient. The dose reported is not unequivocally associated with the dose to the person. When taking into account the dose history of this individual and the doses received by other workers conducting the same type of work, it is likely that the dose of 1.85 mSv was non-personal.

Given the results of the licensee's investigation and the commitments made by the licensee to monitor the individual's dose, CNSC staff approved the licensee's return to work authorization request on May 17th, 2019.

Planned: none

Additional reporting to the Commission Members anticipated:

Yes

No No

If Yes, provide method of reporting: n/a

Name and Title	Signature	
Colin Moses	1.1.1/2	~ / /
Directorate of Nuclear Substance Regulation	Director General	Date 7/06/26