

From: Jamie MacDonald <jamie@betalight.com>
Sent: June-06-17 2:10 PM
To: CNSC Staff
Cc: 'Stephane Levesque'; 'Ross Fitzpatrick'; 'Shane Pleau'; Katie Levesque
Subject: Preliminary Report: 'Dangerous Occurrence' - UN2910 Excepted Package Damaged in Transit

ADDRESSEE: Mr. Robert Buhr, CNSC Project Officer, NPF (Robert.buhr@canada.ca); carbon copy to Rinat Rashapov (rinat.rashapov@canada.ca).

Good afternoon Robert,

On behalf of Stephane Levesque, I wish to make the following preliminary report regarding a recent 'dangerous occurrence' as defined by Section 35 (b) of the *Packaging and Transport of Nuclear Substances Regulations (PTNSR)*.

Location and circumstances of the dangerous occurrence

Around 11:30 AM on June 6, 2017, at our facility in Pembroke, Ontario, SRBT took receipt of a package (UN2910 Excepted Package – Limited Quantity of Material) that had been originally been shipped from our facility on June 1, 2017, destined for a customer located in Bulgaria.

The package had been shipped via Purolator Courier to a distribution centre in Lachine, QC, operated by Gestion 2000, for export by our freight forwarding contractor ConneXion World Cargo to our customer. The shipment had been accepted upon delivery by Gestion 2000.

On the morning of Friday, June 2, 2017, the Import and Export Manager was notified via email by ConneXion World Cargo that the package had been damaged, could not be shipped, and was being returned to SRBT. An image was attached illustrating the external damage suffered by the package at some point.

The damaged package was received by SRBT today, and an immediate radiological and physical assessment of the contents was performed by a Health Physics Team member. The Manager of Health Physics and Regulatory Affairs was notified of the event, assessed the radiological report, and identified the requirement to report the occurrence to CNSC staff.

No contamination was detected in the assessment (swipe measured as 0.05 Bq/cm², well below acceptance criteria for shipping; no detectable airborne contamination), and the items containing tritium inside the package were confirmed as undamaged. One of the interior containers had also been damaged in a way consistent with a puncture; however, none of the items containing tritium suffered any damage.

The items were repackaged and the order is being prepared to once again be shipped onward to our customer.

ConneXion World Cargo asserts that the package had been damaged in transit prior to delivery acceptance. Purolator Courier is being contacted by SRBT with details of this occurrence, and ConneXion World Cargo has been instructed to refrain from accepting such packages in the future if they are clearly damaged, and to immediately contact SRBT.

PTNSR SECTION 38 INFORMATION:

(a) The date, time and location of the dangerous occurrence:

- The package was damaged during transit at some point between SRBT shipping the package on June 1, and ConneXion World Cargo informing SRBT of the damage on June 2.
- (b) The names of the persons involved:
- Courtney Melanson, ConneXion World Cargo (informed SRBT of damage)
 - Shane Pleau, Import and Export Manager, SRBT
- (c) The details of the packaging and packages:
- UN2910 Excepted Package, Limited Quantity of Material. Outer package was an overpack containing eight excepted packages.
- (d) The probable cause:
- At some point during transit the overpack and one of the internal excepted packages was punctured by an unknown device or item, leaving about a quarter-sized hole in both packages.
- (e) The effects on the environment, the health and safety of persons, and national or international security that have resulted or may result:
- Based upon the radiological assessment and physical inspection, it is very likely that there were no effects on the environment, the health and safety of persons, nor on security.
- (f) The doses of radiation that any person has received or is likely to have received:
- No person is likely to have received a dose of radiation as a result of this occurrence.
- (g) The actions taken to remedy the dangerous occurrence and to prevent its recurrence:
- SRBT is in contact with both ConneXion and Purolator to determine what caused the damage, and what can be improved to ensure such events are prevented in the future.

SRBT requests that this report be accepted as the 'Full Report' as required by Section 38 of the PTNSR.

Should you have any more questions, don't hesitate to contact me.

Jamie MacDonald

Manager – Health Physics and Regulatory Affairs

SRB Technologies (Canada) Inc.

613-732-0055 ext. 122

613-635-2495 (cell)

jamie@betalight.com