

Canada's Nuclear Regulator L'organisme de réglementation nucléaire du Canada

# **Annual Compliance Reporting Form**

# **Licensed Activity:**

Operate and service an isotope production accelerator facility (616)





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Print Form	Reset Form
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	Licensee	Organization Information				
Licensee Name						
Thunder Bay Regional Health Sciences C	Centre					
Licensee Corporation Number (if app	olicable)					
1122866 (Ontario)		Reporting Period				
Licensee Business Number (if applic	This Annual Co			12 month period from:		
Head Office Legal Address		1				
Street Address		From Nov 1, 20	016	То	October 31, 2017	
980 Oliver Road					11	
City	Province/State		Licence Nur	mber		
	Intario					
	Postal/Zip Code		01461-21-	21.5		
	7B 6V4					
Licenc	e Contact Person (Person with au	thority to act for the licens	see in dealing wit	th the CN	NSC)	
Name:		Title:				
Michael Campbell		Radiation Safety Officer				
Mailing Address						
Check here if same as '	'Head Office Legal Address'' above	2				
Street Address						
1040 Oliver Road, Suite B1						
City	Country	Postal/Zip Code				
Thunder Bay	Ontario	Canada	P7B 7A5			
Telephone Number	Alternate Telephone Number	r Facsimile				
	807-684-7010	807-768-4347				
Email Address	1	1				
campbelm@tbh.net						







Radiation Safety Officer (RSO)						
Check here if the RSO is the	same as "Licence Contact Pel	rson" on previous page				
Name:		Title:				
	nce Contact Person" on previo	us page				
Street Address						
City	Province/State	Country	Postal/Zip Code			
Telephone Number	Alternate Telephone Number	Facsimile				
Email Address	I	1				
	Alternate Radiat	ion Safety Officer (if appl	icable)			
Check here if no alternate R	2SO					
Name: Sonja Desjardins		Title: Cyclotron Associate				
Mailing Address Check here if same as "Radiation Safety Officer"						
Street Address						
City	Province/State	Country	Postal/Zip Code			
Telephone Number (807) 684-7010	Alternate Telephone Number	Facsimile				
Email Address desjards@tbh.net						







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Canada

	Financia	l Contact (if applicable)		
Name:		Title:		
Peter Myllymaa		Executive Vice-President, Cor	porate Services adn Operations	
Mailing Address Check here if same as "Radi	ation Safety Officer"			
Street Address				
980 Oliver Road				
City	Province/State	Country	Postal/Zip Code	
Thunder Bay	Ontario	Canada	P7B 6V4	
Telephone Number	Alternate Telephone Number	Facsimile		
		807-684-5892		
Email Address myllymap@tbh.net				
	S	igning Authority		
Check here if same as "Radic	ntion Safety Officer"			
Name:		Title:		
Mailing Address				
Check here if same as "Radi	ation Safety Officer"			
Street Address				
City	Province/State	Country	Postal/Zip Code	
Telephone Number	Alternate Telephone Number	Facsimile		
Email Address	L			





Applicant Authority						
Check here if sam	ne as "Radiation Safety Officer"					
Name:		Title:				
Peter Myllymaa		Executive Vice-President	lent, Corporate Services and Operations			
Mailing Address						
Check here if sam	ne as "Radiation Safety Officer"					
Street Address						
980 Oliver Road						
City	Province/State	Country	Postal/Zip Code			
Thunder Bay	Ontario	Canada	P7B 6V4			
Telephone Number	Alternate Telephone Number	Facsimile				
	1	807-684-5892				
Email Address						
myllymap@tbh.net						





## **Inventory: Sealed/Unsealed Sources**

Enter your inventory of CNSC-licensed sealed/unsealed sources in the table below. Report one source per line.

Check here if you currently have no sealed/unsealed sources in inventory.

NOTE: The information requested on this page may be submitted as a separate spreadsheet attached to the same email as this form. Please ensure your spreadsheet uses the same headings as in the table below, and contains all required information, or see <u>www.nuclearsafety.gc.ca/acr</u> for templates.

		Unsealed or Sealed Source(s)							
Model (sealed only)	Serial Number (sealed only)	Nuclear Substance	Current Activity †	Activity Units	Sealed/Unsealed				
		_ Comments:							
<ul> <li>If the Current Activity is not known, but it is known for a date in the past, use the decay calculator located at</li> </ul>			Inventory Lists.						
http://www.radprocalculator.com/Decay.aspx to determine the Current Activity									
, d	sealed only) but it is known at	sealed only) Number (sealed only) but it is known for a date in the at	Sealed only)     Number (sealed only)     Substance       Substance     Image: Comments:       Image: Description of the state in the state     Image: Comments:	Number (sealed only)       Substance       Activity †         Substance       Activity †         Activity †       Image: Substance         Image: Substance       Image: Substance         Image: Substance <td>Number (sealed only)       Substance       Activity †       Activity Units         Image: Sealed only)       Image: Substance       Image: Activity †       Image: Sealed only)         Image: Sealed only)       Image: Substance       Image: Sealed only)       Image: Sealed only)         Image: Sealed only)       Image: Sealed only)       Image: Sealed only)       Image: Sealed only)         Image: Sealed only)       Image: Sealed only)       Image: Sealed only)       Image: Sealed only)         Image: Sealed only)       Image: Sealed only)       Image: Sealed only)       Image: Sealed only)         Image: Sealed only)       Image: Sealed Inventory Lists.       Image: Sealed Inventory Lists.</td>	Number (sealed only)       Substance       Activity †       Activity Units         Image: Sealed only)       Image: Substance       Image: Activity †       Image: Sealed only)         Image: Sealed only)       Image: Substance       Image: Sealed only)       Image: Sealed only)         Image: Sealed only)       Image: Sealed only)       Image: Sealed only)       Image: Sealed only)         Image: Sealed only)       Image: Sealed only)       Image: Sealed only)       Image: Sealed only)         Image: Sealed only)       Image: Sealed only)       Image: Sealed only)       Image: Sealed only)         Image: Sealed only)       Image: Sealed Inventory Lists.       Image: Sealed Inventory Lists.				







## Ascertainment of Doses: Whole Body

Provide a summary of the annual effective whole body radiation doses received by Nuclear Energy Workers (NEWs) and non-NEWs during the year ending December 31<sup>st</sup>. Provide the information in detail, as shown below.

NOTE: Please do NOT send personal information, such as social insurance numbers, etc. to CNSC.

	N	umber of <b>V</b>	Vorkers						
				Dosimetry Service Provider	Maximum individual dose				
	BDL †	> BDL † and	> 0.5 and	> 1 and	> 5 and	> 20 and	> 50	<b>††</b>	(mSv)
		$\leq$ 0.5	$\leq 1$	$\leq$ 5	$\leq 20$	$\leq$ 50			
Number of NEWs	6	3	0	0	0	0	0	Health Canada - NDS	0.3
Number of Non-NEWs	3	0	0	0	0	0	0	Health Canada - NDS	BDL

BDL = Below Detectable Limits for the dosimeter being used.	Comments:
** Enter the name of the dosimetry service provider. If a dosimetry service provider is not used, enter "ESTIMATED" and provide brief details on how dose estimates were derived in the comments area.	Above readings are for the 12 month period ending September 30, 2017 based on the quarterly reporting from NDS. Non-NEW's consist of cleaning staff, students and visitors. Badges are also located in public spaces on main floor as area monitors. None of the area monitor badges have shown a reading above background.







#### Ascertainment of Doses – Extremity Doses

If your organization monitors workers for extremity exposures, provide a summary of the extremity doses received by NEWs and non-NEWs during the year ending December 31<sup>st</sup>. Provide the information in detail, as shown below.

NOTE: Please do NOT send personal information, such as social insurance numbers, etc. to CNSC.

Check here if your organization has no extremity dose information to submit for the reporting period.

	Number of Workers in each effective dose category (mSv)							Dosimetry Service Provider †	Maximum individual dose (mSv)
	<10	>10 and ≤ 50	> 50 and ≤ 100	> 100 and ≤ 200	> 200 and < 350	> 350 and ≤ 500	> 500		
Number of NEWs	5	4	0	0	0	0	0	Health Canada - NDS	29.8
Number of Non-NEWs	3	0	0	0	0	0	0	Health Canada - NDS	BDL

#### Comments:

• Enter the name of the dosimetry service provider. If a dosimetry service provider is not used, enter "ESTIMATED" and provide brief details on how dose estimates were derived in the comments area.

The dose measurements reported are the sum of Left and Right hand doses. Readings are for the 12 month period ending September 30, 2017. Non-NEW's consist of students and visitors.







#### Workload – Isotope Production Accelerators

Provide a summary of the workload of isotope production accelerators during the reporting period for all operating modes. If you have exceeded your approved annual workload, please submit details in the comments area below, including an explanation as to why the approved workload was exceeded, and calculations showing that doses to persons in adjacent areas are still in ALARA. NOTE that in all cases, records of workload must be maintained for inspection by the CNSC.

NOTE: The information requested on this page may be submitted as a separate spreadsheet attached to the same email as this form. Please ensure your spreadsheet uses the same headings as in the table below, and contains all required information, or see <u>www.nuclearsafety.gc.ca/acr</u> for templates.

Prescribed Equipment	Room	Product	Product Physical State (Gas/Liquid/Solid)	Total Annual Operation Time (hrs)	Total Annual Yield (GBq)
ACSI TR24 - Cyclotrn	01 - Vault	F-18	Liquid	28	2316
		C-11	Gas	0	0
		n/a	Solid	0	0

Comments:

For the period from Nov 1, 2016 to October 31, 2017







# **Transport Carriers**

List all carriers employed to transport radioactive materials for the purposes of this licence during the reporting period:

Carrier Name	Contact Telephone (ex. 123-456-7890)	Full name of Contact (if available)	Location of Carrier (City, Province)
Carrick Express Inc.	(807) 345-7331	carrickexpress@tbaytel.net	Thunder Bay, Ontario







#### **Declaration of Licensee Representative**

	Michael Car	mpbell
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(enter name)

having the authority to act for the licensee pursuant to Section 15 of the General Nuclear Safety and Control Regulations, certify that all statements and representations made in this Annual Compliance Report and any supplementary pages appended to this report

are true and correct to the best of my knowledge.

Radiation Safety Officer Title:

Date: November 21, 2017

It is an offence under the Nuclear Safety and Control Act to knowingly make a false report.

For more information, or for questions on the content and/or filling of ACR forms, please contact the CNSC Directorate of Nuclear Substance Regulation at 1-888-229-2672.

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