



Applicable CNSC licence number

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# Annual Compliance Reporting Form

Select the applicable form from the dropdown list. ACR forms are customized for the activity authorized by the licence. The licensed activity name and number (e.g. "101 - Operate an industrial accelerator"), can be found on each licence under section IV) Licensed Activities.

If you need a hard copy of this ACR form, please contact your CNSC licensing officer at 1-888-229-2672.

**Licensed Activity**      565 - Service (by independant provider) Class II prescribed equipment

Generate Form



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**Declaration of Licensee Representative**

Matthew Eiseaff	having the authority to act for the licensee pursuant to Section 15 of the General Nuclear Safety and Control
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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.

Title Radiation Safety Officer	Date (YYYY-MM-DD) 2022-02-28
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It is an offence under the Nuclear Safety and Control Act to knowingly make a false report.  
For questions related to the Accelerators and Class II Facilities Division (ACFD) ACR, contact your CNSC Project Officer.  
When complete, please submit this form via email to [acr-rac@cnscccsn.gc.ca](mailto:acr-rac@cnscccsn.gc.ca).

Print Form

Submit by Email



ACR forms are intended to report the licensee's activity. To request an amendment, including changes in licensee's representatives (RSO, alternate, applicant authority, signing authority), please submit your request separately to the CNSC.



The ACR **can not** be used by licensees to request changes to the licence.  
Any changes requiring a licence amendment or to comply with licence conditions must be submitted separately to the Project Officer when you become aware of the change.



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**Licensee Organization Information**

Licensee Name Best Theratronics Ltd.													
Licensee Business Number								Licensee Corporation Number					
8	3	,	0	2	8	,	3	5	+	6883508			

**Reporting Period**

There should not be any lapse from previous ACR reporting period. Do not report for future dates. The reporting period shall cover a full year.

From 2021-01-01	To 2021-12-31
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**Head Office Address**

Street Address 413 March Road			
City Ottawa	Province/State ON	Country Canada	Postal/Zip Code K2K 0E4

**Mailing Address**

The mailing address is the address to which all CNSC correspondence will be mailed.

Check here if same as Head Office Address

Street Address 413 March Road			
City Ottawa	Province/State ON	Country Canada	Postal/Zip Code K2K 0E4



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**Radiation Safety Officer (RSO)**

Name Matthew Efseaff		Title Radiation Safety Officer	
Telephone Number 613-591-2100 x 2762	Alternate Telephone Number 613-769-3408	E-mail Address matthew.efseaff@theratronics.ca	

**Alternate (if applicable)**

Please provide information of an alternate contact to the RSO in this section. The alternate contact can replace the the certified RSO during the RSO's absence for not more than 60 working days in any consecutive 365-day period. Refer to Class II Nuclear Facilities and Prescribed Equipment Regulations sections 15.1 and 15.11.  
<https://laws.justice.gc.ca/eng/regulations/sor-2000-205/page-1.html>

Check here if no alternate

Name Marilee Jackson	Title Radiation Safety Specialist
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**Contact information**

Telephone Number 613-591-2100 x 2028	Alternate Telephone Number 613-217-8127	E-mail Address marilee.jackson@theratronics.ca
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**Signing Authority**

The RSO is typically appointed as signing authority. The signing authority is authorized to act for the applicant or licensee for all matters encompassed by the CNSC licence.

Check here if same as 'Radiation Safety Officer'

Name Matthew Efseaff	Title Radiation Safety Officer
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**Contact information**

Check here if same as 'Radiation Safety Officer'

Telephone Number 613-591-2100 x 2762	Alternate Telephone Number 613-769-3408	E-mail Address matthew.efseaff@theratronics.ca
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**Financial Contact (if applicable)**

Information required only for fee paying licensees.

Name Kimberly Parsons	Title Accounts Payable
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**Contact information**

Telephone Number 613-591-2100 x 1613	Alternate Telephone Number N/A	E-mail Address kimberley.parsons@theratronics.ca
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**Mailing Address**

Check here if same as 'Head Office' Address

Street Address 413 March Road			
City Ottawa	Province/State ON	Country Canada	Postal/Zip Code K2K 0E4

**Applicant Authority**

The applicant authority is an individual at the senior management level that has sufficient authority to direct financial and human resources to address any issue of non-compliance as identified by the CNSC. It is a regulatory requirement to notify the CNSC within 15 days of a change in the applicant authority. [Section 15 of the General Nuclear Safety and Control Regulations](#) under the Nuclear Safety and Control Act.

Name Krishnan Suthanthiran	Title President
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**Contact information**

Telephone Number 703-451-2378 x 104	Alternate Telephone Number	E-mail Address krish@teambest.com
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**Mailing Address**

Check here if same as 'Head Office' Address

Street Address 413 March Road			
City Ottawa	Province/State ON	Country Canada	Postal/Zip Code K2K 0E4



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**Inventory: Sealed Sources (List only sealed sources that are not contained in a radiation device)**

Enter your inventory of CNSC-licensed sealed sources specific to this licence in the table below. Report one source per line.

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

Date of inventory (YYYY-MM-DD)

2022-02-07

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 [www.nuclearsafety.gc.ca/acr](http://www.nuclearsafety.gc.ca/acr) for templates.

List the total nominal activity for each batch of seed sources (e.g.: I-125, etc.) along with the total number of seeds in each batch in possession.

+	Sealed Source(s) List only sealed sources that are not contained in a radiation device						
	Manufacturer	Model	Serial Number (N/A for seed sources)	Nuclear Substance	Current Activity	Quantity (seed sources only)	Activity Units
-	Nordion	C-146	S-6306	Co-60	262.6	N/A	TBq

For all sealed nuclear substances that have been transferred or disposed of during the reporting period, please include a copy of the transfer document with the ACR submission.

Additional information

The majority of Best Theratronics Ltd sealed sources are tracked and reported under the Class 1B licence [NSPFL-14.00/2029].



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### 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 (workers not designated as NEWs) during the year ending December 31st. Provide the information in detail, as shown below. Only report doses for staff working in Canada.

NOTE: Please do **NOT** send personal sensitive information, such as social insurance numbers, to the CNSC. If the total number of workers reported for NEWs or Non-NEWs is less than ten (10), do **NOT** report the maximum individual dose.

	Number of Workers in each effective dose category							Dosimetry Service Provider ††	Maximum Individual Dose (mSv) †††
	BDL †	> BDL † and ≤ 0.5 mSv	> 0.5 mSv and ≤ 1 mSv	> 1 mSv and ≤ 2 mSv	> 2 mSv and ≤ 5 mSv	> 5 mSv and ≤ 20 mSv	> 20 mSv		
Number of NEWs	2	3	2	0	1	2	0	Landauer Inc	7.91
Number of Non-NEWs	0	0	0	0	0	0	0	N/A	0

† BDL = Below Detectable Limits for the dosimeter being used.

†† 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 additional information area below.

††† Do not enter a non-personal dose that was the subject of a CNSC approved dose change request.

In accordance with the Radiation Protection Regulations, doses must be reported for a CALENDAR YEAR (January 1 to December 31). Please report your doses for the calendar year preceding your ACR due date (e.g. regardless of the ACR reporting date in licence condition 2912 on your licence, always report the doses for the period Jan 1 - Dec 31 of the previous calendar year).

#### Additional Information

All workers monitored under this licence are NEW Service technicians. Doses also include service work conducted outside of Canada and under two other licenses (NSPFL-14.00/2029 & 14127-8-24.0).

Both doses in the >5 to <=20 mSv category include false dose contributions due to workers passing their dosimeters through airport xray security scanners. Approximately 50-80% of these two doses reported above could be due to airport xray scanners. A full report was made to our previous project officer, Yani Picard, on Nov. 17, 2021, and corrective actions have been taken.



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**Ascertainment of Doses – Extremity**

Provide a summary of the annual equivalent extremity radiation doses received by Nuclear Energy Workers (NEWs) and non-NEWs (workers in position not designated as NEWs) during the year ending December 31st. Provide the information in detail, as shown below. Only report dose for staff working in Canada.

NOTE: Please do **NOT** send personal sensitive information, such as social insurance numbers, to the CNSC. If the total number of workers reported for NEWs or Non-NEWs is less than ten (10), do **NOT** report the maximum individual dose.

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

	Number of Workers in each effective dose category							Dosimetry Service Provider †	Maximum individual dose (mSv) ††
	< 10 mSv	≥ 10 mSv and ≤ 50 mSv	> 50 mSv and ≤ 100 mSv	> 100 mSv and ≤ 200 mSv	> 200 mSv and ≤ 350 mSv	>350 mSv and ≤ 500 mSv	> 500 mSv		
Number of NEWs	9	1	0	0	0	0	0	Landauer Inc	11.39
Number of Non-NEWs	0	0	0	0	0	0	0	N/A	0

† 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 additional information area below.

†† Do not enter a non-personal dose that was the subject of a CNSC approved dose change request.

In accordance with the Radiation Protection Regulations, doses must be reported for a CALENDAR YEAR (January 1 to December 31). Please report your doses for the calendar year preceding your ACR due date (e.g. regardless of the ACR reporting date in licence condition 2912 on your licence, always report the doses for the period Jan 1 - Dec 31 of the previous calendar year).

**Additional Information**

Each worker is issued two extremity dose rings (right and left hands). The higher of the the two ring values per worker is reported.

The dose in the >=10 to <=50 mSv category include false dose contributions due to a worker passing his dosimeters through airport xray security scanners. Approximately 50-80% of this dose reported above could be due to airport xray scanners. A full report was made to our previous project officer Yani Picard, on Nov. 17, 2021, and corrective actions have been taken. +





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### Oversight Activities – Safety Performance Indicators

Provide information regarding any regulatory oversight activity performed during the reporting period. Note that provision of this information is not a regulatory requirement; CNSC requests this information in order to examine nuclear-safety-related trends and to inform future compliance strategies.

- Performed review of radiation safety policies and procedures
- Performed self-audit/inspection of radiation safety program<sup>1</sup>
- Performed peer-audit/inspection of radiation safety program<sup>2</sup>
- Other (please describe)

#### Other regulatory oversight activity or additional information

Previous RSO (at Best through Sept. 2021) completed a self-audit/gap-analysis in January of 2021 on SOR2000-203.

The Class 1B license at Best Theratronics (NSPFL-14.00/2029) had a Radiation Protection Program audit completed in January of 2022 which covered many of the overlapping radiation areas of this Class II license for the 2021 year.

1. Self audit/inspection is defined as an audit conducted by internal team members to determine the extent of compliance with the act, the regulations and the licence.
2. A peer audit/inspection is defined as an audit/inspection conducted by participants who have no direct responsibility in the work/process being audited in order to maintain objectivity.



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**Transport Carriers**

List all carriers employed to transport radioactive materials for the purposes of this licence during the reporting period. Note that provision of this information is not a regulatory requirement; CNSC requests this information in order to examine nuclear-safety-related trends and to inform future compliance strategies.

+	Carrier Name	Contact Telephone	Full name of contact (if available)	Location of Carrier (City, Province)
-	Cassidy's Transfer & Storage Ltd	(613) 735-6881 x 113	N/A	Pembroke, Ontario
-	Jade Transportation Services	(613) 543-1908	N/A	Morrisburg, Ontario

Note: Do not list all shipments, list only carriers hired to transport radioactive materials for the purposes of this licence during the reporting period. DO NOT include licensee employees in this list. If no carriers were hired, leave the table blank. If using the same carrier, there should be only one entry in the table.