



Certification of Class II Prescribed Equipment

The Canadian Nuclear Safety Commission (CNSC) regulates the use of nuclear energy and materials to protect the health, safety and security of Canadians and the environment; and to respect Canada's international commitments on the peaceful use of nuclear energy.

The [*Nuclear Safety and Control Act*](#) empowers the CNSC to certify the use of Class II prescribed equipment. The [*Class II Nuclear Facilities and Prescribed Equipment Regulations*](#) stipulate regulatory requirements for certification.

Certified Class II prescribed equipment is commonly used for medical diagnosis and treatment. These include such items as cyclotrons, accelerators, beam irradiators, teletherapy units, and radiotherapy equipment.

A certificate issued by the CNSC for equipment applies to a specific model design with precise operating conditions only. Any future changes to the design or use may require recertification of the prescribed equipment.

What follows is the list of Class II prescribed equipment that is certified by the CNSC for use in Canada as of July 29, 2016. Those highlighted in red color font will expire within the next 12 months.



Class II Prescribed Equipment Certificates

Certificate Number	Prescribed Equipment Description	Type of Prescribed Equipment	Energy or Potential	Current or Power	Issue Date	Expiry Date
C2-002-0020-0-2016	Guidant Galileo Intravascular Radiotherapy Device	High dose rate afterloader	n/a	n/a	2001-05-08	2016-04-03
C2-005-0002-0-2019	MDS Nordion Eldorado 6 NRC Calibration Irradiator Serial Number 209	Irradiator – Class II	n/a	n/a	2005-01-13	2019-11-30
C2-005-0003-0-2022	MDS Nordion modified Theratron T60 (serial A-117)	Irradiator – Class II	n/a	n/a	2007-05-08	2022-04-30
C2-005-0004-0-2021	MDS Nordion Theratron Equinox 80	Teletherapy machine	n/a	n/a	2006-12-11	2021-11-30
C2-005-0005-0-2022	MDS Nordion Gammabeam X200	Irradiator – Class II	n/a	n/a	2007-02-07	2022-01-31
C2-005-0006-0-2021	MDS Nordion Theratron Equinox 100	Teletherapy machine	n/a	n/a	2006-12-11	2021-11-30
C2-005-0027-1-2036	MDS Nordion Gammabeam 150C	Irradiator – Class II	n/a	n/a	2011-12-01	2036-11-30
C2-005-0229-3-2040	Best Theratronics Theratron Junior C-II <i>Previous manufacturer name: MDS Nordion</i>	Teletherapy irradiator	n/a	n/a	2015-11-27	2040-11-30
C2-005-0465-3-2040	Best Theratronics Theratron 780 <i>Previous manufacturer name: MDS Nordion</i>	Teletherapy irradiator	n/a	n/a	2015-11-30	2040-11-30
C2-005-1297-3-2040	Best Theratronics Theratron 780-C <i>Previous manufacturer name: MDS Nordion</i>	Teletherapy irradiator	n/a	n/a	2015-11-30	2040-11-30
C2-005-1298-3-2040	Best Theratronics Theratron 1000 <i>Previous manufacturer name: MDS Nordion</i>	Teletherapy irradiator	n/a	n/a	2015-11-30	2040-11-30
C2-005-1455-2-2017	MDS Nordion F-144 AC	Irradiator – Class II	n/a	n/a	2004-04-29	2017-04-30
C2-049-0001-1-2017	Elekta Leksell Gamma Knife, Model 23004 - Type B2 Model C & 4C	Teletherapy irradiator	n/a	n/a	2005-03-23	2017-06-30
C2-049-0002-0-2019	Elekta Precise Digital Accelerator	Medical accelerator	25 MV	n/a	2004-04-13	2019-03-31
C2-049-0003-0-2020	Elekta Synergy Platform	Medical accelerator	25 MV	400MU/min	2005-01-17	2020-01-31
C2-049-0004-0-2020	Elekta Synergy System / Elekta Synergy S System	Medical accelerator	25 MV	400MU/min	2005-08-26	2020-08-31
C2-049-0005-0-2022	Elekta Leksell Gamma Knife PERFEXION	Teletherapy machine	n/a	n/a	2007-03-29	2022-02-28
C2-049-0013-0-2017	Elekta/Philips Precise	Medical accelerator	25 MV	n/a	2002-07-23	2017-06-30
C2-049-0014-1-2017	Philips SL20	Medical accelerator	20 MV	400 MU/min	2010-09-24	2017-06-30



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C2-049-0015-1-2023	Elekta Medical Linear Accelerator, Synergy	Medical accelerator	25 MV	400 MU/min	2015-12-07	2023-11-30
C2-049-0016-0-2023	Elekta Synergy S System	Medical accelerator	25 MV	600 MU/min	2009-01-14	2023-11-30
C2-049-0017-1-2025	Elekta Medical Linear Accelerator, Infinity	Medical accelerator	25 MV	850 MU/min	2015-12-07	2025-05-31
C2-049-0047-1-2017	Philips SL25	Medical accelerator	25 MV	n/a	2010-09-24	2017-06-30
C2-049-0059-0-2040	Elekta Medical Linear Accelerator, Versa HD	Medical accelerator	18.0 MV	n/a	2015-07-23	2040-07-31
C2-049-0060-1-2041	Elekta Leksell Gamma Knife Icon	Teletherapy Machine	n/a	n/a	2016-05-13	2041-04-30
C2-049-0061-0-2041	Elekta Limited Medical Linear Accelerator, Infinity with Flattening filter Free (FFF) Mode	Medical accelerator	18.0 MV	n/a	2016-03-04	2041-02-28
C2-049-0062-0-2041	Elekta Limited Medical Linear Accelerator, Synergy with Flattening filter Free (FFF) Mode	Medical accelerator	18.0 MV	n/a	2016-03-04	2041-02-28
C2-057-0001-0-2018	Siemens ONCOR Impression Plus	Medical accelerator	25 MV	n/a	2003-12-01	2018-11-30
C2-057-0004-1-2018	Siemens Mevatron KDS-2	Medical accelerator	20 MV	n/a	2007-02-28	2018-11-30
C2-057-0005-0-2018	Siemens Oncor Impression	Medical accelerator	15 MV	n/a	2004-01-22	2018-11-30
C2-057-0006-1-2019	Siemens ONCOR Avant-Garde	Medical accelerator	25 MV	n/a	2007-02-28	2019-09-30
C2-057-0007-0-2022	Siemens Eclipse Cyclotron RD Type	Cyclotron	11 MeV	80 µA	2007-09-06	2022-08-31
C2-057-0011-1-2023	Siemens Eclipse HP Cyclotron	Cyclotron	11 MeV	120 µA	2014-11-13	2023-01-31
C2-057-0014-0-2021	Siemens ONCOR Expression Digital Linear Accelerator	Medical accelerator	25 MV	n/a	2006-12-18	2021-11-30
C2-057-0015-0-2023	Siemens Artiste MV SA	Medical accelerator	21 MeV (Electrons)	900 MU/min (Electrons)	2008-09-02	2023-08-31
			25 MV (Photons)	500 MU/min (Photons)		
C2-068-0003-0-2023	Varian Silhouette System	Medical accelerator	20 MV	n/a	2008-01-31	2023-01-31
C2-068-0004-1-2023	Varian Trilogy System	Medical accelerator	25 MV	n/a	2009-10-19	2023-01-31
C2-068-0005-0-2023	Varian Clinac iX	Medical accelerator	20 MV	n/a	2008-01-31	2023-01-31
C2-068-0006-0-2024	Varian Novalis Tx Linear Accelerator	Medical accelerator	25 MV	n/a	2009-10-19	2024-10-31
C2-068-0012-2-2017	Varian GammaMed Plus	High dose rate afterloader	n/a	n/a	2004-06-01	2017-12-31
C2-068-0013-1-2023	Varian GammaMed Plus iX	High dose rate afterloader	n/a	n/a	2008-01-25	2023-01-31
C2-068-0017-0-2023	Varian VariSource iX HDR Remote Afterloader	High dose rate afterloader	n/a	n/a	2008-07-07	2023-06-30



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C2-068-0020-0-2038	Varian Clinac 600C	Medical accelerator	6 MV	n/a	2013-05-09	2038-03-31
C2-068-0021-0-2038	Varian Clinac 6EX	Medical accelerator	6 MV	n/a	2013-04-29	2038-03-31
C2-068-0022-0-2038	Varian Clinac 600N (Serial #799)	Medical accelerator	6 MV	n/a	2013-10-08	2038-06-30
C2-068-1128-5-2040	Varian Clinac 2100C	Medical accelerator	18 MV	n/a	2015-11-23	2040-11-30
C2-068-1139-5-2040	Varian Clinac 2100C/D	Medical accelerator	18 MV	n/a	2015-11-20	2040-11-30
C2-068-1162-3-2040	Varian Clinac 21EX	Medical accelerator	18 MV	n/a	2015-11-23	2040-11-30
C2-068-1163-4-2040	Varian Clinac 23EX	Medical accelerator	20 MV	n/a	2015-11-20	2040-11-30
C2-068-1173-4-2040	Varian Clinac 2300C/D	Medical accelerator	20 MV	n/a	2015-11-20	2040-11-30
C2-068-1174-1-2035	Varian TrueBeam™	Linear accelerator	20 MV	n/a	2013-08-22	2035-10-31
C2-068-1175-1-2035	Varian TrueBeam STx™	Linear accelerator	20 MV	n/a	2013-08-23	2035-10-31
C2-068-1176-1-2038	Varian Novalis Powered by TrueBeam STx™	Linear accelerator	20 MV	n/a	2013-08-23	2038-04-30
C2-068-1177-1-2038	Varian Linatron M1	Linear accelerator	1 MV	300 µA	2014-08-22	2038-11-30
C2-068-1178-1-2038	Varian Linatron M3/M3A	Linear accelerator	3 MV	300 µA	2014-08-22	2038-11-30
			1 MV	300 µA		
C2-068-1179-1-2038	Varian Linatron M6/M6A/Mi6	Linear accelerator	6 MV	150 µA	2018-08-22	2038-11-30
			3.5 MV	250 µA		
C2-068-1180-1-2038	Varian Linatron M9/M9A/Mi9	Linear accelerator	9 MV	100 µA	2014-08-22	2038-11-30
			5 MV	150 µA		
C2-068-1181-0-2039	Varian Edge	Linear accelerator	20 MV	n/a	2014-12-01	2039-09-30
C2-068-1182-0-2040	Varian Medical Systems, Inc. VitalBeam	Medical accelerator	20.0 MV	n/a	2016-04-05	2040-11-30
C2-068-1185-0-2041	Varian Medical Systems, Inc. Clinac iX (FFF)	Medical accelerator	20.0 MV Photons	n/a	2016-07-26	2041-08-31
			22.0 MeV Electrons			
C2-074-0003-2-2037	Siemens Eclipse RDS 111	Cyclotron	11 MeV	60 µA	2012-06-28	2037-06-30
C2-074-0004-0-2018	CTI RDS-112 Cyclotron Hamilton Health Sciences Corporation	Cyclotron	11 MeV	40 µA	2003-08-14	2018-07-31
C2-146-0002-0-2018	High Voltage Engineering Van de Graaff, Model KN3000	Research accelerator	3 MeV	20 µA	2003-01-23	2018-12-31
C2-146-0003-0-2018	High Voltage Engineering McMaster University 1.25 MV Tandatron	Research accelerator	1.25 MV	1000 µA	2003-10-28	2018-09-30
C2-146-0004-0-2018	High Voltage Engineering University of Western Ontario 1.7 MV Tandatron Accelerator, Model 4177-HC	Research accelerator	1.7 MV	100 µA	2003-11-03	2018-10-31



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C2-146-0005-0-2018	High Voltage Engineering Tandetron Accelerator, Model 4117 HC	Research accelerator	5 MeV	100 µA	2003-09-11	2018-08-31
C2-153-0001-0-2019	Integrated Plant Elektrokhimpribor Neutron Generator Model TNT-1411	Geophysical logging accelerator	130 keV (Deuterons) 111 GBq (Tritium)	n/a	2004-09-20	2019-08-31
C2-179-0063-4-2040	J.L. Shepherd 81-12 and 81-12B	Calibrator – Class II	n/a	n/a	2015-11-27	2040-11-30
C2-179-0074-2-2040	J.L. Shepherd 81-14R	Irradiator – Class II	n/a	n/a	2015-11-27	2040-11-30
C2-194-0007-0-2019	GE Medical Systems MINitrac	Cyclotron	9.6 MeV	55 µA	2004-02-09	2019-01-31
C2-194-0010-1-2023	GE Medical Systems PETrac Platform S9120	Cyclotron	16.5 MeV (Protons) 8.4 MeV (Deuterons)	100 µA 60 µA	2011-06-29	2023-10-31
C2-194-0012-0-2036	GE Medical Systems PETrac 880	Cyclotron	16.5 MeV (Protons) 8.4 MeV (Deuterons)	130 µA 60 µA	2011-10-07	2036-09-30
C2-230-0000-1-2035	Scanditronix AB Fixed Energy Cyclotron MC-17	Cyclotron	17 MeV (Protons) 8.6 MeV (Deuterons)	75 µA (Protons) 75 µA (Deuterons)	2010-11-30	2035-11-30
C2-231-0001-0-2025	IBA Cyclone® platform 18	Cyclotron	18 MeV (Protons) 9 MeV (Deuterons)	150 µA (Protons) 50 µA (Deuterons)	2010-02-10	2025-01-31
C2-234-0002-0-2021	Hopewell Designs GC60 Series Gamma Beam Irradiator	Irradiator – Class II	n/a	n/a	2006-02-24	2021-01-31
C2-234-0003-3-2022	Hopewell Designs G10-1-360 / G10-2-360	Irradiator – Class II	n/a	n/a	2010-11-19	2022-06-30
C2-234-0006-0-2037	Hopewell Designs GC60-1000	Irradiator – Class II	n/a	n/a	2012-10-30	2037-09-30
C2-244-0000-0-2018	McMaster University Taylor Radiobiology Irradiator	Irradiator – Class II	n/a	n/a	2003-12-23	2018-11-30
C2-252-0003-1-2020	Nucletron OncoSelect HDR 3	High dose rate afterloader	n/a	n/a	2012-06-19	2020-04-30
C2-252-0004-0-2022	Nucletron MicroSelectron Model 106.990	High dose rate afterloader	n/a	n/a	2007-03-29	2022-02-28
C2-252-0043-5-2016	Nucletron MicroSelectron HDR, Model 105.999	High dose rate afterloader	n/a	n/a	2015-11-20	2016-11-30



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C2-252-0067-1-2036	Nucletron Flexitron 136149A12	High dose rate afterloader	n/a	n/a	2012-10-15	2036-03-31
C2-252-0068-0-2039	Nucletron Flexitron® HDR 136149	High dose rate afterloader	n/a	n/a	2014-05-06	2039-04-30
C2-452-0001-0-2019	Advanced Cyclotron Systems PET Target, Models TAL-213-F-15, TAL-213-F-20	Cyclotron	19 MeV (Protons)	65 µA (Protons)	2004-06-10	2019-05-31
			9 MeV (Deuterons)	65 µA (Deuterons)		
C2-452-0002-3-2019	Advanced Cyclotron Systems TR-PET Series Models TR13, TR14, TR19, TR9D, TR19/9	Cyclotron	19 MeV (Protons)	300 µA (Protons)	2011-11-03	2019-10-31
			9 MeV (Deuterons)	75 µA (Deuterons)		
C2-452-0003-0-2019	Advanced Cyclotron Systems TR-30 Series Models TR-30, TR-30/15, TR-30HC	Cyclotron	30 MeV (Protons)	2000 µA (Protons)	2004-12-01	2019-11-30
			15 MeV (Deuterons)	500 µA (Deuterons)		
C2-452-0004-1-2024	Advanced Cyclotron Systems TR 24	Cyclotron	24 MeV	750 µA	2011-11-17	2024-01-31
C2-459-0001-0-2019	VNIIA Model ING-101	Geophysical logging accelerator	60 keV (Deuterons)	n/a	2004-12-24	2019-11-30
			185 GBq (Tritium)			
C2-465-0001-2-2020	Sodern Sodilog Tube	Neutron generator	110 keV (Deuterons)	n/a	2013-07-31	2020-06-30
			130 GBq (Tritium),			
			0.21 mg (Deuterium)			
C2-465-0002-1-2024	EADS-Sodern Controlled Neutron Analyzer Model Gen-3	Neutron generator	111 keV	n/a	2009-09-10	2024-06-30
C2-483-0001-1-2023	Isodose Control Flexitron 09-00-112 and 09-00-102	High dose rate afterloader	n/a	n/a	2008-12-01	2023-01-31
C2-488-0004-1-2015	Best Theratronics Theratron Phoenix	Teletherapy irradiator	n/a	n/a	2014-09-10	2025-08-31
C2-488-0005-1-2031	Best Theratronics Theratron Equinox 80	Teletherapy machine	n/a	n/a	2014-09-10	2031-08-31
C2-488-0006-1-2031	Best Theratronics Theratron Equinox 100	Teletherapy irradiator	n/a	n/a	2014-09-10	2031-08-31
C2-488-0007-1-2034	Best Theratronics Eldorado 78	Teletherapy irradiator	n/a	n/a	2014-10-08	2034-11-30
C2-489-0001-2-2023	Eckert & Ziegler MultiSource Model 1321-0001	High dose rate afterloader	n/a	n/a	2012-04-23	2023-06-30



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C2-489-0002-2-2023	Eckert & Ziegler MultiSource Model 1321-0002	High dose rate afterloader	n/a	n/a	2012-04-25	2023-06-30
C2-494-0001-1-2024	Halliburton Model 013-1004-000	Geophysical logging accelerator	111 keV (Deuterons) 111 GBq (Tritium)	80 µA n/a	2015-04-24	2024-06-30
C2-505-0001-0-2035	MDS (Canada) JS-8900 (IR-108)	Irradiator – Class II	n/a	n/a	2010-10-26	2035-10-31
C2-505-0002-0-2035	MDS (Canada) JS-8900 (IR-147)	Irradiator – Class II	n/a	n/a	2010-10-26	2035-10-31
C2-505-0003-0-2035	MDS (Canada) 651 PT	Irradiator – Class II	n/a	n/a	2010-10-26	2035-10-31
C2-506-0001-0-2031	Hôpital Maisonneuve-Rosemont Eldorado 78 serial number 23	Teletherapy irradiator	n/a	n/a	2011-07-29	2031-06-30
C2-507-0001-3-2036	Thermo Scientific Model B-320	Neutron generator	90 keV (Deuterons) 111 GBq (Tritium)	n/a	2012-09-25	2036-05-31
C2-507-0002-0-2036	Thermo Scientific Model P 385	Neutron generator	130 keV	80 µA	2011-12-19	2036-11-30
C2-508-0001-0-2036	Siemens AG ONCOR Impression Plus	Medical accelerator	25 MV	n/a	2011-06-20	2036-05-31
C2-508-0002-0-2036	Siemens AG Artiste MV	Medical accelerator	25 MV	n/a	2012-04-03	2036-05-31
C2-508-0003-0-2036	Siemens AG ONCOR Expression Digital Linear Accelerator	Medical accelerator	25 MV	n/a	2011-06-20	2036-05-31
C2-508-0004-0-2036	Siemens AG Mevatron MD-2	Medical accelerator	15 MV	n/a	2011-06-20	2036-05-31
C2-508-0005-0-2036	Siemens AG ONCOR Avant-Garde	Medical accelerator	25 MV	n/a	2011-06-20	2036-05-31
C2-508-0006-0-2036	Siemens AG Oncor Impression	Medical accelerator	15 MV	n/a	2011-06-20	2036-05-31
C2-508-0007-0-2036	Siemens AG Mevatron KDS-2	Medical accelerator	20 MV	n/a	2011-06-20	2036-05-31
C2-508-0008-0-2036	Siemens AG Primus	Medical accelerator	20 MV	n/a	2011-06-20	2036-05-31
C2-508-0009-0-2036	Siemens AG Mevatron 77	Medical accelerator	15 MV	n/a	2011-06-20	2036-05-31
C2-508-0010-0-2036	Siemens AG Mevatron KD-2	Medical accelerator	23 MV	n/a	2011-06-20	2036-05-31
C2-513-0001-0-2036	Adelphi Technology DD-109 Neutron Generator for AECL	Neutron generator	130 MV	12 mA	2011-12-20	2036-11-30
C2-513-0002-1-2039	Adelphi Technology DD-108 Neutron Generator	Neutron generator	125 kV	5 mA	2015-09-11	2039-11-30
C2-517-0001-0-2038	Gradel NSD-NG-350	Neutron generator	120 keV	150 mA	2013-09-23	2038-08-31
C2-518-0001-0-2038	Iotron Industries IMPELA® 10/50	Linear accelerator	10 MeV	50 kW	2013-05-01	2038-04-30
C2-521-0001-0-2038	Accuray Cyberknife® System	Medical accelerator	6 MV	n/a	2013-10-11	2038-09-30
C2-521-0002-0-2038	Accuray TomoTherapy Hi-Art H-0000-0003	Medical accelerator	6 MV	n/a	2013-04-08	2038-03-31



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C2-521-0003-0-2039	Accuray TomoH System 1018284-000	Medical accelerator	6 MV	n/a	2014-05-28	2039-05-31
C2-521-0004-0-2039	Accuray TomoHD System 1018283-000	Medical accelerator	6 MV	n/a	2014-05-28	2039-05-31
C2-521-0005-0-2039	Accuray TomoHDA System 1018286-000	Medical accelerator	6 MV	n/a	2014-05-28	2039-05-31
C2-521-0006-0-2039	Accuray Cyberknife M6 FM System	Medical accelerator	6 MV	n/a	2014-04-23	2039-03-31
C2-521-0007-0-2039	Accuray Cyberknife M6 FI System	Medical accelerator	6 MV	n/a	2014-04-23	2039-03-31
C2-521-0008-0-2039	Accuray Cyberknife M6 FIM System	Medical accelerator	6 MV	n/a	2014-04-23	2039-03-31
C2-522-0001-0-2028	IBA Industrial Dynamitron 2000/30/1220	Other Class II	2000 kV	30 mA	2013-10-30	2028-09-30
C2-527-0001-0-2038	FPIInnovations CT Scan (AS&E)	Linear accelerator	4 MV	120 mA	2013-12-20	2038-11-30
C2-528-0001-0-2039	PML Inspections MINAC 6X-ER Serial # 0011 (SRC)	Linear accelerator	6 MV	150 mA	2014-01-29	2039-01-31
C2-530-0001-0-2039	Stasuk 6 MV Model 1	Linear accelerator	6 MV	7400 μ A	2014-01-17	2039-01-31
C2-533-0001-0-2040	MHI-TM2000 Linear Accelerator System Vero	Medical accelerator	6.0 MV	n/a	2015-04-23	2040-03-31
C2-678-0001-1-2016	Novoste Model A1000 Series for use with Beta Cath System	Intravascular brachytherapy	n/a	n/a	2002-11-25	2016-10-31
C2-678-0002-0-2016	Novoste Model A1000 Series for use with Corona Cath System	Intravascular brachytherapy	n/a	n/a	2003-01-07	2016-10-31
C2-682-0001-1-2040	Baker Hughes Model 186235 Neutron Tube Generators	Neutron generator	100.0 keV (Deuterons)	n/a	2015-11-27	2040-11-30
			74 GBq (Tritium)			
C2-683-0001-3-2040	Thermo MF Physics A-320 and B 320	Neutron generator	90 keV (Deuterons)	n/a	2015-11-12	2040-11-30
			111 GBq (Tritium)			
C2-684-0001-2-2031	EMR Photoelectric, Model 758 and 761	Neutron generator	14.2 MeV (Deuterons)	n/a	2016-05-25	2031-05-31
			370 GBq (Tritium)			