

**General Electric Canada
(Healthcare)
Annual Report to the Director**

January 1 – December 31, 2016

Submitted to: David Ranson
Director, Waste Management
PO Box 9341, STN PROV GOVT
Victoria, BC V8W 9M1

Prepared by: Paul Desiri, Director, Environment, Health & Safety
General Electric Canada (Healthcare)
2300 Meadowvale Blvd.
Mississauga, ON L5N 5P9
(905)-567-3719

June 27, 2017

Table of Contents

1. Executive Summary	3
2. Program Outline	3
3. Public Education Materials and Strategies	4
4. Collection System and Facilities	5
5. Product Environmental Impact Reduction, Reusability and Recyclability	5
6. Pollution Prevention Hierarchy and Product / Component Management	5
7. Product Sold and Collected and Recovery Rate	6
8. Summary of Deposits, Refunds, Revenues and Expenditures	7
9. Plan Performance	7
Appendix A: Third Party Assurance (Non-Financial)	10
Appendix B: STAKEHOLDER CONSULTATION SUMMARY	11

GE Canada (Healthcare) Report to Director, Waste Management

1. Executive Summary

The table below summarizes program performance for the Section 8 annual reporting requirements.

Products within plan	Phase 5 products of the electronic and electrical product category under BC's Recycling Regulation (the "Phase 5 Category") that exceed 200 kilograms in weight and are excluded from the Stewardship Plan submitted by EPRA B.C. (Electronic Products Recycling Association of British Columbia).
-----------------------------	--

Recycling Regulation Reference	Topic	Summary (5-bullet maximum)
Part 2, section 8(2)(a)	Public Education Materials and Strategies	<ul style="list-style-type: none"> ▪ The General Electric (GE) Canada (Healthcare) Product Stewardship Plan details were posted to the external GE Healthcare Canada website (Website Link) for public awareness.
Part 2, section 8(2)(b)	Collection System and Facilities	<ul style="list-style-type: none"> ▪ See Section 4.
Part 2, section 8(2)(c)	Product Environmental Impact Reduction, Reusability and Recyclability	<ul style="list-style-type: none"> ▪ See Section 5.
Part 2, section 8(2)(d)	Pollution Prevention Hierarchy and Product / Component Management	<ul style="list-style-type: none"> ▪ See Section 6.
Part 2, section 8(2)(e)	Product Sold and Collected and Recovery Rate	<ul style="list-style-type: none"> ▪ See Section 6 for details on products collected.
Part 2, section 8(2)(e.1)		<ul style="list-style-type: none"> ▪ See Section 7 for breakdown of product sold and collected volumes.
Part 2, section 8(2)(f)	Summary of Deposits, Refunds, Revenues and Expenses	<ul style="list-style-type: none"> ▪ Not Applicable
Part 2, section 8(2)(g)	Plan Performance	<ul style="list-style-type: none"> ▪ See Section 9 for Plan Performance

2. Program Outline

The GE Healthcare (GEHC) Product Stewardship Plan and annual report applies to those Phase 5 products that exceed 200 kilograms in weight, that GEHC, as producer, sells, offers for sale or distributes in BC and that are excluded by the EPRA B.C. Stewardship Plan. GEHC does not sell, offer for sale or distribute any of the products under this plan to retail consumers, including through retail sales. Instead, the products covered by the GEHC Stewardship Plan are sold by GE, offered for sale, distributed or used in a commercial enterprise for health care institutions and medical professionals. In addition, those Phase 5 products that exceed 200 kilograms applicable to this Product Stewardship Plan include medical devices such as MRs (Magnetic Resonance) and CTs (Computerized Tomography) which tend to have extended lifecycles in the range of 10-20 years.

GE Canada (Healthcare) Report to Director, Waste Management

GE Healthcare is currently a member and a registered producer with the EPRA BC (Electronic Stewardship Association of British Columbia) for Phase 1, 2 and 5 products. As EPRA BC has an approved end-of-life electronics program for Phase 1, 2 and 5 products (< 200 kilograms in weight), GEHC has appointed EPRA BC as their agent to meet these obligations under the *B.C. Recycling Regulation*. GEHC currently reports and submits the appropriate EHF's (environmental handling fees) to EPRA BC on a monthly basis, for those products that fall under Phase 1, 2, and 5 and are sold as part of medical equipment and devices into the province of B.C.

GE Healthcare is submitting this annual report as a requirement for the GEHC Product Stewardship Plan for those Phase 5 products that exceed 200 kilograms in weight in order to offer an avenue to eliminate or reduce the environmental impacts of GEHC products at end-of-life.

GE Healthcare is committed to achieving the highest recovery rates feasible for the products, in light of all applicable circumstances, including the nature of the products and the purchasers of the products, which do not include sales to retail consumers. Based on a review done previously by GE Healthcare, the most appropriate performance measurements are the number of medical systems > 200 kilograms in weight sold into the Province of B.C. and the number of medical systems > 200 kilograms in weight recovered from the Province of B.C. Refer to Section 7 for more details.

3. Public Education Materials and Strategies

GE Healthcare has and will continue to make its customers aware of this stewardship plan through direct involvement and communication. When the product stewardship plan was developed in 2012, GE Healthcare consulted with its major customers as well as other stakeholders such as existing product stewardship agencies including EPRA BC, Product Care, CESA, MEDEC, trade associations etc. Stakeholders were encouraged to review the Product Stewardship plan and send their comments and questions directly to GE Healthcare. GE Healthcare offered a series of live webinars and teleconferences with its major customers located in British Columbia. Stakeholder consultation was conducted with GE Healthcare customers and feedback was summarized in the approved Product Stewardship Plan, dated June 28, 2012.

GE Healthcare completed additional stakeholder consultation in 2015. This is in line with GE Healthcare's performance measure to conduct a customer engagement activity every 3 years. The results of this consultation are provided in Appendix B.

The GE Healthcare Product Stewardship plan was posted on the RCBC's (Recycling Council of British Columbia's) website to promote public awareness of the program. In addition, customers and the public are able to access the GE external public website for details regarding the GE Healthcare Stewardship Plan involving those products exceeding 200 kilograms in weight.

Other than questions directly received from active GE Healthcare customers, there have been no inquiries from the public linked to posting the GE Healthcare Product Stewardship Plan.

4. Collection System and Facilities

GE Healthcare uses its existing take-back and recycling process for the collection, transportation and processing of end-of-life electronic medical devices and equipment exceeding 200 kilograms in weight. This process involves contracting with an existing service provider(s) for the transportation directly from customer locations to a warehouse in Ontario where the product is either re-sold or shipped to the GE Healthcare Renewable Resource Centre in the U.S. for processing. Refer to Section 6 for more details regarding the processing and recycling process at the GE Healthcare Renewable Resource Centre in Oakcreek, Wisconsin.

GE Healthcare does not own or operate any collection facilities in the province of B.C.

GE Healthcare 's Stewardship Plan does not apply to medical devices or obligated products that have been exposed to infectious matter unless these products are properly decommissioned, disinfected and/or sterilized.

Given the products do not include sales or distribution to retail consumers, there is no need for consumers to have access to collection facilities related to the plan.

There has been no change to the method of collection or the location of GE Healthcare's recycling facility.

5. Product Environmental Impact Reduction, Reusability and Recyclability

GE Healthcare is committed to managing its products in an environmentally responsible manner by designing products for improved environmental performance, energy efficiency and minimizing the use of restricted hazardous materials. Where practicable, GE Healthcare strives to eliminate or reduce the environmental impacts of the products throughout the product's life cycle. Refer to the GE Healthcare Product Stewardship plan for more details regarding *Ecomagination*, *Restriction of Hazardous Substances* and *Energy Efficiency* programs.

6. Pollution Prevention Hierarchy and Product / Component Management

GE Healthcare offers collection and recycling services to our customers for both GE and non-GE medical devices and instruments. At end-of-life, many medical devices and products retain an inherent value, parts and components are reclaimed for re-use and the majority of the metals, electronic circuit boards, and other materials are recycled.

GE Healthcare operates a Renewable Resource Centre (RRC) in Oak Creek, Wisconsin which is involved in the reprocessing of approximately 6 million kilograms of de-installed and returned medical equipment and parts each year. Imaging systems may be sent to repair suppliers for use as test beds for repair parts. Others are disassembled and the usable components are reclaimed or placed into inventory or added to our repair pools.

GE Healthcare manages returned products in adherence to the pollution prevention hierarchy as outlined in the Product Stewardship Plan.

GE Canada (Healthcare) Report to Director, Waste Management

There were 4 medical products and systems (> 200 kilograms in weight) in scope of the GE Healthcare Product Stewardship Plan collected and returned from B.C. Customers from January 1 to December 31, 2016.

Below is a breakdown of the number of medical devices and systems (> 200 kilograms in weight) collected and returned from B.C. Customers from January 1 to December 31, 2016. Of the 4 medical devices and systems collected in 2016, 3 were re-sold and 1 will be re-sold or disposed of in accordance with the pollution hierarchy in 2017. Of the 5 devices and systems re-sold in 2016, 2 were collected in 2015. No medical devices and systems collected and returned from B.C. customers entered the recycling stream in 2016.

Timeframe (2016)	No. of Products > 200 kg in weight collected	No. of Products > 200 kg in weight re-sold	No. of Products > 200 kg in weight recycled
Jan 1 – Dec 31	4	5 ¹	0

7. Product Sold and Collected and Recovery Rate

Products Sold and Collected in 2016

Please see attached below, a summary of product sold and collected volumes applicable to the GE Healthcare Product Stewardship plan during the period from January 1 to December 31, 2016.

Month 2016	No. of Medical Systems Sold (Products > 200 kg in weight)	No. of Medical Systems Collected (Products > 200 kg in weight)
January	0	0
February	0	1
March	4	0
April	0	1
May	0	0
June	1	1
July	0	0
August	0	0
September	0	0
October	0	0
November	1	0
December	0	1
Total	6	4

¹ Please note that all of the remaining product collected in FY2015 (2 products) were resold in May 2016

GE Canada (Healthcare) Report to Director, Waste Management

Recovery Rate

GE Healthcare is committed to achieving the highest recovery rates feasible for the products, in light of all applicable circumstances, including the nature of the products and the purchasers of the products, which do not include sales to retail consumers.

Section 5 (1) (a) of the *B.C. Recycling Regulation (Reg. 449/2004)* permits the Director to approve performance requirements other than a default 75% recovery rate, where appropriate. In the initial GE Healthcare Canada B.C. Product Stewardship Plan approved on December 27, 2012, the Plan identified several key issues associated with a recovery rate as a meaningful performance metric for the medical device industry. As a result of this review, a summary of these key issues are:

1. The long life cycle of medical devices that are applicable to this Plan (large scale medical devices weighing > 200 kilograms in weight) and therefore there exists a significant lag time between the date of purchase and end-of-life,
2. Given the capital investment for these medical devices (> 200 kilograms in weight), customers are inclined to maintain these devices rather than incur additional capital investment costs,
3. There is a lack of predictable information regarding medical device owners' behaviours on returns or expected medical device life-spans,
4. Lack of relevance of medical device sales (> 200 kilograms in weight) as a predictor of return frequency and volumes. Medical device sales (> 200 kilograms in weight) are contingent on many factors such as fiscal budgets, technology, demand, demographics etc. Sales of medical devices (> 200 kilograms in weight) are not directly related to the replacement of an existing system, and
5. Medical devices (> 200 kilograms in weight) retain an inherent value and customers may choose to re-use or re-sell the device to other organizations (as they hold legal title on the device), rather than return the device to the GE Healthcare.

The review concluded that as a result of these issues, recovery rate is not a meaningful performance metric for the medical device industry and the GE Healthcare Canada B.C. Product Stewardship Plan. Alternatively, GE Healthcare Canada has established a set of performance metrics in lieu of a implementing a recovery rate target (refer to Section 9. Plan Performance).

8. Summary of Deposits, Refunds, Revenues and Expenditures

GE Healthcare does not charge deposits or any environmental handling fees as part of the B.C. Product Stewardship Plan. Thus, financial statements are not required to be included in the annual report.

9. Plan Performance

To assess the annual performance of the plan, information was collected on the GE equipment covered by the Stewardship Plan from de-installs performed by GEHC (medical devices weighing > 200 kilograms), estimates of GE Healthcare product expected lifespans, and the GEHC equipment sold into the province of B.C. This data was then compared to the actual performance by tracking the amount of equipment

GE Canada (Healthcare) Report to Director, Waste Management

collected (medical devices weighing > 200 kilograms), where it went and the application of the Pollution Prevention Hierarchy.

Per the *B.C. Recycling Regulation Guide (April, 2012)*, the performance metrics established should be:

- Representative of performance,
- Easily communicated and understood by Stakeholders,
- Based on accessible, reliable and accurate data that is verifiable by a third party,
- Cost Effective: The costs and collection efforts associated with selected performance measures should be proportionate to the informational value they provide, and
- Consistent over time and facilitate fair cross-program comparisons by using generally accepted measurement methodology.

Based on this review, GE Healthcare has established plan performance metrics for the B.C. Product Stewardship Plan, as follows. The table below summarizes the specific performance measures, targets and strategies for improvement retroactively for 2014, 2015 and for 2016.

Performance Measure	Results			Target & Strategies for Improvement
	2014	2015	2016	
1. Stakeholder Engagement & Satisfaction No. of Stakeholder Engagements No. of Customer Complaints	No customer complaints received.	Stakeholder Consultation with 6 customers completed. No customer complaints received.	No customer complaints received.	Conduct a customer engagement activity every 3 years. Initial Stakeholder Consultation in 2012. New stakeholder consultations were completed in 2015, see Appendix B for details. GEHC's Product Stewardship Plan details are posted on the (GEHC Canada website) for public access.
2. Operational Metrics				
No. Medical Devices Sold (> 200 kg)	10	10	6	Sales of medical devices (> 200 kg) are dependent on various customer factors (see Section 7. Recovery Rate).
No. Medical Devices Collected (>200 kg)	3	7	4 ²	Collection rate of medical devices (> 200 kg) is dependent on various customer factors (see Section 7. Recovery Rate).
No. of Medical Devices Re-Sold (>200 kg)	3	5	5 ³	Medical devices (> 200 kg) that are collected are evaluated and targeted for re-sale.

² Of the 4 products or systems collected during the year, 3 were re-sold and 1 is expected to be re-sold or disposed of in accordance with the pollution hierarchy in 2017

³ Please note that all of the remaining product collected in FY2015 (2 products) were resold in May 2016

GE Canada (Healthcare) Report to Director, Waste Management

Performance Measure	Results			Target & Strategies for Improvement
No. of Medical Devices Recycled (>200 kg)	0	0	0	Medical devices (> 200 kg) that are not able to be re-sold are sent for recycling at GE Healthcare's Oakcreek, WI Renewable Resource Centre.
3. Product Life Cycle Management including Pollution Prevention Hierarchy				Applying the Pollution Prevention Hierarchy, the following targets are applied to the re-sale / re-use and recycling of medical devices (> 200 kilograms in weight).
% re-sold / collected	100%	71%	75% ⁴	Target > 75%
% not re-sold or recycled / collected	0%	0%	0%	Target < 5%

⁴ Of the 4 products or systems collected during the year, 3 were re-sold and 1 is expected to be re-sold or disposed of in accordance with the pollution hierarchy in 2017

APPENDIX A

THIRD PARTY ASSURANCE REPORT FOR NON-FINANCIAL INFORMATION

Attached

APPENDIX B

STAKEHOLDER CONSULTATION SUMMARY

GE Healthcare consulted with its major customers as well as other stakeholders such as existing product stewardship agencies including EPRA BC and MEDEC. Stakeholders have been encouraged to review the GE Healthcare Canada Product Stewardship plan and send their comments and questions directly to GE Healthcare.

GE Healthcare discussed the status of the Product Stewardship plan with our major customers located in British Columbia in 2015. Table 1 below, provides a summary of the customers and stakeholders contacted.

Table 1

No.	Stakeholder / Customer Consultation
1	VIHA (Vancouver Island Health Authority) Victoria, British Columbia
2	Interior Health Authority Kelowna, British Columbia
3	Northern Health Authority Prince George, British Columbia
4	Fraser Health Authority Surrey, British Columbia
5	Vancouver Coastal Health Vancouver, British Columbia
6	Providence Healthcare Vancouver, British Columbia

The results of the consultation including specific stakeholder feedback can be found below in Table 2.

Table 2. 2015 Stakeholder Consultation Comments & Feedback

#	Comment / Feedback / Question	Response
1	Good refresher on the GE Healthcare Canada Product Stewardship Plan and the differences between EPRA and the GEHC plan.	<p>For GE Healthcare (GEHC) products <u>weighing less than 200 kilograms</u>, GEHC is a registered producer with the EPRA BC (Electronic Stewardship Association of British Columbia) for Phase 1, 2 and 5 products. As EPRA BC has an approved end-of-life electronics program for Phase 1, 2 and 5 products (< 200 kilograms in weight), GEHC has appointed EPRA BC as their agent to meet these obligations under the <i>B.C. Recycling Regulation</i>. GEHC currently reports and submits the appropriate EHF's (environmental handling fees) to EPRA BC for those products that fall under Phase 1, 2, and 5 and are sold as part of medical equipment and devices into the province of B.C.</p> <p>For GE Healthcare (GEHC) products <u>weighing more than 200 kilograms</u>, GEHC has implemented its own Product Stewardship Plan for those obligated electronic products which are excluded from the EPRA BC program. Stakeholder feedback is a key element to the GEHC Product Stewardship Plan.</p> <p>The GE Healthcare Canada Product Stewardship plan and annual reports can be found on the GE website. http://www3.gehealthcare.ca/en-ca/news_and_initiatives/bc_public_consultation</p>
2	There has been very little communication to the hospitals on the B.C. Recycling Regulation. No other manufacturers or brand owners have contacted these specific Customers for Stakeholder consultation. Stakeholders will reach out to other brand owners.	<p>Stakeholders can refer to the B.C. MOE's website (Product Stewardship) for additional details on the <i>B.C. Recycling Regulation</i>. http://www2.gov.bc.ca/gov/content/environment/waste-management/recycling/product-stewardship</p>
3	GE Healthcare's Stewardship Plan has a good focus on the environment, environmental commitment and recycling.	<p>Refer to GE's Environmental Commitment for more information. http://www.gesustainability.com/</p>
4	Is the regulation retroactive? Is the producer required to take back historical or legacy equipment?	<p>It is our understanding that as of July 1, 2012 producers wishing to continue to sell, offer for sale, distribute or use an obligated product are required to register with a Stewardship Agency (eg: EPRA BC) or operate a stewardship program for the product regardless of when the product was sold. The recycling program covers all historic or legacy products prior to 2012 or enactment of the legislation.</p>
5	Who is Encorp and how is the recycling of medical devices and products happening in the province of B.C.?	<p>Encorp. has been contracted by EPRA to manage and recycle BC's waste electrical and electronic products - see FAQs – link below. https://www.return-it.ca/about/ https://www.return-it.ca/electronics/faqs/elec-industry/</p>

GE Canada (Healthcare) Report to Director, Waste Management

#	Comment	Response
6	Product Take Back: Currently, we are recycling our waste electronics and medical devices locally and on a site by site basis.	<p>It is not a requirement that you utilize the GE recycling program if there is a preference to recycle locally. For GE Healthcare products < 200 kg in weight, GE has appointed the EPRA B.C. as their stewardship agency. Contact EPRA directly in order to arrange for recycling of your < 200 kg GE Healthcare obligated products. https://www.return-it.ca/about/</p> <p>GE will continue to provide product take-back services for those obligated products weighing > 200 kg. GE Healthcare stores obsolete electrical and electronic products in Ontario before shipping them to the GE Renewable Resource Centre in Oakcreek, WI.</p>
7	Is there was a way to incorporate EPRA into the current process for handling other producers recycling or equipment that is not currently covered by our plan. They foresee a benefit to having a single agency such as EPRA handling all their recycling. Can this be done?	<p>Yes, but would need to follow the weight categories. EPRA recycles all brands of obligated electronic waste weighing < 200 kg but will not recycle obligated electronics weighing > 200 kg. For those products weighing > 200 kg., it is an accepted practice in the medical industry that the company that gets awarded the install/new device sale, will deinstall and recycle the obsolete device (whether it is the same brand or another brand owner) and should be seamless for the Customer. However, under the legislation, the brand owner has the responsibility to recycle their own products or legacy products.</p>
8	Are there transportation services to EPRA collection depots? Is there a cost associated with the transportation? Or recycling?	See Response to #9 below
9	Are these transporters able to pick up all obligated electronic wastes and recycle them? Customers are looking for efficiencies.	<p>Craig Wisehart</p> <p>GEHC – Cat Healey – The GE Transporter can pick up non-GE WEEE equipment and drop off at collection depot</p>