Nova Scotia Lights Collection Guidelines

June 2024



COLLECTION SITE GUIDELINE REVIEW

After reading the guidelines and any future updates, please indicate so below. By signing below, I confirm that I have reviewed the guidelines effective the date of review and I understand the program's operation and requirements. I am aware of all health and safety requirements with regards to the program, and I understand the acceptance criteria as outlined in these guidelines.

Employee Name	Signature	Date of Review

Nova Scotia Lights Collection Guidelines

June 2024





DISCLAIMER

The Collection Site Guidelines ("Guidelines") are intended to provide guidance to operators participating as a collection site in Nova Scotia's Lights Program. Agreements or contracts referencing Product Care training, collection site or depot manual, guide, or guidelines are all referring to these guidelines.

The practices described in the Guidelines are not intended to replace any standards, acts or regulations required under Local, Provincial or Federal law; nor are the Guidelines intended to relieve the collection site operator or staff of requirements under the law.

Product Care Association ("Product Care") accepts no responsibility and assumes no liability resulting from the incorrect use of information contained in the Guidelines or from the use of this information in any circumstances other than those described.

Forms provided in the Guidelines may not be current due to changes in processes, regulations and procedures. Updates will be provided to your collection site as required and posted on the <u>www.productcare.org</u> website. Please ensure you are using the most updated version.

The collection site is a place of work regulated by the Workers' Compensation Board of Nova Scotia. Further information should be provided by your supervisor.

In addition to the Guidelines, collection sites must comply with all environmental, health and safety regulations to ensure workers are properly trained and equipped for their work and they understand the:

- Hazards they may encounter in their work;
- Safety practices needed to protect themselves from harm; and
- Actions they may need to take in the event of an emergency, such as a spill.



QUICK REFERENCE SHEET

Shipment Requests:

Email: nsopslights@productcare.org Fax: 604-592-2982 Phone: 1-877-592-2972 ext. 216

Ordering Communication Materials:

www.productcare.org/service-partners/promotion-and-education

In Event of a Spill:

Report to Product Care: 1-877-592-2972 ext. 216

Resources:

US EPA: <u>www.epa.gov/mercury/cleaning-broken-cfl</u> Health Canada: <u>www.canada.ca/en/health-canada/services/environmental-workplace-health/reports-publications/environmental-contaminants/mercury-your-health-environment-resource-tool</u>

Important Information:

Accepted and Not Accepted Products – See Appendix A

Forms:

Pickup Request Form – See Appendix B Incident Report Form – See Appendix B

Promo Material:

Poster Example – See Appendix C Brochure Example – See Appendix C

Websites:

Product Care Recycling: www.productcare.org

Workers Compensation Board of Nova Scotia: www.wcb.ns.ca

Occupational Health and Safety Regulations: www.novascotia.ca/just/regulations/index



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1. About Nova Scotia's Lights Program

Product Care manages the Light Recycling Program in Nova Scotia. This program is a way for consumers to return used lamps to local collection sites. Nova Scotia's Lights Program is the consumer-facing brand Product Care created for the recycling of used lamps. These Guidelines provide information about the standard practices and procedures for collecting lights.

Under the Solid Waste-Resource Management Regulations made under Section 102 of the Environment Act S.N.S 1994-95, c. 1 O.I.C. 96-79 (effective Feb 6, 1996), N.S. Reg. 25/1996 amended to O.I.C. 2023-208 (Effective Augst 1, 2023), N.S Reg. 138/2023, Lamp Products Stewardship requires brand owners of lamp products to operate a province wide lamp product recycling program to manage burned out lamps from residential and commercial sectors. Product Care Recycling is the non-profit industry association which has developed and will operate the Program on behalf of the lamps products brand owners.

Nova Scotia's Lights Recycling Program is funded by Environmental Handling Fees (also referred to as EHF or Eco-Fees), and therefore products where an Eco-Fee has not been paid, are not acceptable in this program. This Program is meant for post-consumer products only.

Additional Information Contact

For more information regarding the Program, or if you have any questions after reading these Guidelines, please contact:

Product Care Recycling <u>nsopslights@productcare.org</u> Tel: 604-592-2972 or Toll-Free 1-877-592-2972 ext. 216 Fax: 604-592-2982



2. Collection Site Operator/Employee Responsibilities

2.1 Site Operator:

- 1. Ensure the requirements described in these Guidelines are applied correctly at the collection site
- 2. Ensure employees have read the Guidelines
- 3. Ensure employees have access to spill kits and PPE as supplied.
- 4. Evaluate their site operations to ensure they are in compliance with the Occupational Health and Safety (OHS) regulations

Change of Collection Site Information:

Collection sites must advise Product Care of any changes to contact and/or site info including email addresses, operating hours, location, or changes in ownership.

2.2 Site Employee:

- 1. Take part in any instruction or training offered
- 2. Employees are responsible to report any condition to their supervisor that may be a risk.
- 3. Employees are responsible for following the instructions as provided in the Guidelines when handling lights.

2.3 Training

All collection sites shall ensure that staff are trained in:

The handling and management of lamps including but not limited to:

- 1. Potential hazards and risks associated with handling of lamps
- 2. Proper and safe handling of lamps
- 3. Spill/breakage cleanup procedures and management
- 4. The program policies/procedures
- 5. The identification of which products are accepted and not accepted by the program
- 6. The completion of proper shipping documentation and record keeping and that all such training is documented



3. Collection Site Set-up

3.1 Facility Requirements

The collection site shall:



- 1. Provide a supervised are for drop off with mechanisms or systems in place to minimize breakage Unsupervised, self-service drop off is not permitted.
- 2. Ensure the storage area has sufficient space for safe storage, is protected from weather, and the floor is constructed of impervious material.
- 3. Ensure that unauthorized access to the premises and storage area is prohibited or restricted through security measures.
- 4. Have appropriate signage to inform consumers that it is a collection site and has program information available for the customer.
- 5. Only accept program products as defined in these Guidelines
- Accept post-consumer lights into the Program from any users: residential customers and institutional, commercial and industry users.
- 7. Provide notice of any incidents that require the assistance of first responders within 24 hours of the occurrence. Provide notice of any regulatory orders or fines within 48 hours of receiving such orders or fines.
- 8. Not charge the users for the program services

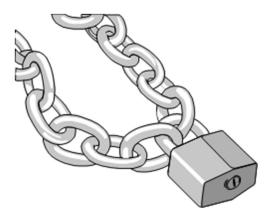


3.2 Site Security:

During normal business hours, only staff members should have access to the collection containers. When the Collection Site is closed or not attended, the collected lamp products must be secured or locked inside the premises so they are not accessible by animals or other people.

Do not allow public access to the collection area without supervision.

This Program is not a self-drop system. Do not let consumers leave lamps without reviewing them with your staff or allow them to place products directly into the containers. They may break the lamps or store them incorrectly.





FLAP 3

4. Collection Supplies

4.1 Collection Materials:

Product Care supplies the collection site with the following equipment:

1. Storage containers:

- a. Compact fluorescent lights boxes 24"x20"x24"
- b. 4 foot boxes 48"x12"x12"
- c. 8 foot boxes 96"x10"x10"

These boxes will be delivered in bundles of 5 and must be assembled prior to use.

Storage containers (boxes) must be stored in a dry area to prevent water damage. Transporters may not be able to pick up boxes that are water damaged.

4.2 Packaging

Collection Box Assembly: CFL Bulbs 1. Start by unfolding the flattened box into a square shape. FLAP 4 BOX FLAP 2 FLAP 3 2. Fold Flap 1 and Flap 3 over the box opening until they meet in the middle.

Affix two (2) strips of packing tape down the middle of the flaps.

3. Fold Flap 2 and Flap 4 until they meet in the middle.

Affix two (2) strips of packing tape down the middle of the flaps. Make sure that the strips of tape reach down the entire side of the box.

4. Affix two (2) strips of packing tape along each side of the box where the flaps were closed.

5. Ensure that all open edges of the bottom of the box are securely taped up.

7. Open the plastic liner bag provided inside each box and fold the liner over the top of the box.

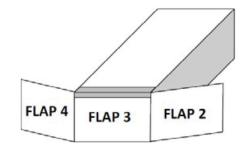
Upon completion of steps 1-7, the box is now ready for use.

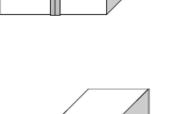
1. Start by unfolding the flattened box into a rectangular shape.

Note: All four flaps are full flaps.

2. Fold Flap 1 and Flap 3 over the box opening.

Affix two (2) strips of packing tape along the edge of the box where the flap is closed.



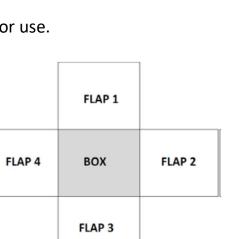


FLAP 2

FLAP 4

FLAP 4

FLAP 2



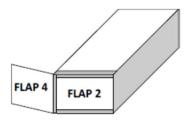


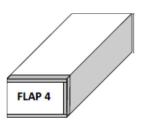


3. Fold Flap 2 over.

Affix two (2) strips of packing tape along each of the three (3) edges of the box where the flap was closed.

4. Fold Flap 4 over.





Affix two (2) strips of packing tape along each of the three (3) edges of the box where the flap was closed.

5. Make sure all the open edges of the bottom of the box are securely taped up.

6. Open the plastic liner bag provided inside each box and fold the liner over the top of the box.

Upon completion of steps 1-6, the box is now ready for use.



4.3 Safety Equipment:

1. Spill kit

A spill kit will contain the following supplies:

- a. Sealable Plastic Bags
- b. Tape
- c. Cardboard
- d. Disposable gloves
- e. Disposable mask
- f. Eyedropper (for liquid mercury pickup)

4.4 Other supplies that will be provided:

- 1. Tape (for boxes)
- 2. Shrink wrap
- 3. Shipping Pallets
- 4. Copy of Guidelines
- 5. Communication Materials:
 - a. Collection Site signage
 - b. Brochures or Rack cards

See Appendix C for Communication Materials Photos

Communication materials may be obtained by phone (1.877.592.2972 ext. 216), fax (604.592.2982) or through our website at www.productcare.org/service-partners/promotion-and-education. If ordering online, choose your province and program when ordering information materials and they will be shipped to you.





5. Products Accepted (See Appendix A for full list)

The Program includes all lamp products as defined by the regulation:

"Lamp product" means a replaceable light source designed to produce light from electricity and includes, but is not limited to, all of the following:

- 1. Fluorescent tubes,
- 2. Compact fluorescent lamps,
- 3. High-intensity discharge lamps,
- 4. Incandescent lamps,
- 5. Light-emitting diode lamps

The program accepts intact (whole) units and does not accept lamps that have been crushed on purpose (i.e. by a drum-top crusher, also known as a bulb crusher) but the program will accept lamps that have been broken accidentally. A resident or generator may bring their broken lamps and the materials they used to clean it up (such as paper towel or cardboard) in a sealed plastic bag or sealed glass container. If a resident or generator brings in a broken lamp, ensure it is in a sealed plastic bag or sealed glass container and put it in the program collection container for the lamps.



String lights are considered light fixtures and are NOT accepted. Do not accept and pack the string of bulbs or remove bulbs.

The Program accepts lamps products from any category of lamp products consumer including:

- 1. Homeowners
- 2. Institutional, commercial, and industry users



6. Collection Procedure

6.1 Receiving burned out lamp products from Consumers and Businesses:

- ► Storing products correctly:
 - Immediately place the lamp products inside the appropriate boxes:
 - place tubes in 4' or 8' boxes according to length of tubes
 - CFL, LED, HID, incandescent, or halogen (all bulbs) in bulb boxes (cubic boxes)
 - Do not overfill the boxes
 - Properly close the boxes when full
- ► In case of breakage of lamps product:
 - The program has provided a spill kit in case of lamp breakage
 - The content of the spill kit should be used to recover lamp product (refer to section 9)
 - The material used to collect the debris should be placed in the plastic bag provided and paced into a bulb box

6.2 Shipment Procedures

- ► Arranging for shipment:
 - You should order a pickup once half of any of your box types have been filled. Do not wait until you are at your last box
 - When you have full boxes and would like them picked up you can either call or email your information to us

By Phone/Fax:

Please call Product Care at 1-877-592-2972 ext. 216

Or complete the form found in Appendix B and fax to 604-592-2982

You can also request any supplies needed at that time.



By Email:

- Please complete the 'Container request form' found in appendix B.
- Please keep this form blank and photocopy as needed. Please request any supplies needed at this time using this form.
- Please email the completed form to: nsopslights@productcare.org

Whether you choose to phone, email or fax in your order, we will send the carrier to pick up the full boxes and deliver empty replacement ones to you.

<u>Note:</u> the pickup of full boxes and the drop off of new empty boxes is not necessarily done at the same time.

Make sure to order any supplies that you need and at the time you place your order for pickup. These supplies will likely be delivered to you separately from your pickup. Ensure that you place an order for supplies before you run out as it could take several days from the time you place an order to when you receive your order.

7. Occupational Health and Safety

You are responsible for ensuring that your facility and operations, including lamp products collection activities, meet the requirements of the Workers' Compensation Board of Nova Scotia.

All collection sites shall:

- 1. Comply with all applicable health and safety regulations including but not limited to the Workers' Compensation Act
- 2. Possess written procedures to systematically manage environmental, health and safety matters such as but not limited to accidents and spills
- Implement and maintain proper lamp handling and safe housekeeping procedures to ensure minimal risk of breakage





- 4. Provide adequate training for all employees to ensure safe and proper handling of lamps
- 5. Document health and safety training
- 6. Provide and enforce correct use of required personal protection equipment noted in Section 9
- 7. Implement spill/breakage cleanup procedure when needed and maintain equipment/supplies according to the Guidelines

8. Hazards related to Lamp Collection

8.1 Lifting Hazard

Moving boxes of lamps requires bending and lifting which can cause injury if done incorrectly. Simple precautions should be used as a means of prevention.



- When lifting, bring objects near to the body; do not try to lift at arm's length.
- Bend your knees and keep the back straight.
- Only lift what you can manage safely; ask for assistance if it is needed.
- Ensure that boxes are not overfilled to avoid unsafe lifting.

8.2 Broken Glass Hazard

The main risk with handling lamps is getting cut with broken glass. As with the mercury hazard, preventing breakage is the most important way to avoid this. Should a lamp get broken, follow the clean-up procedure found in Section 9.

8.3 Safety Equipment

No safety equipment is required for the regular handling of intact light bulbs. The personal protective equipment (PPE) required to handle broken lamps is noted in Section 9.



9. Lamp Breakage (Spill)

Each Collection Site is provided with a spill kit. Be sure that the kit contains all of the supplies that were originally provided and ensure that it is accessible at all times.

The program will supply you a spill kit containing the following:

- Sealable Plastic Bags
- Packing tape
- Cardboard
- Disposable gloves
- Disposable mask

Important: Respond quickly to a spill so that the broken lamps do not harm the environment or present a risk of personal injury.

9.1 Risks

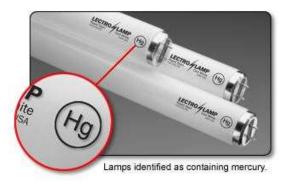
Intact (unbroken) fluorescent lights bulbs/tubes pose no health risk. Mercury in fluorescent and HID lamps is in vapour form and with the phosphor powder which coats the inside of the lamp. Broken lamps release the mercury, which can enter the body by absorption through the skin or by inhalation of the vapour. A careful and prompt cleanup of the spill by the designated worker will minimize exposure to the staff, customers and to the environment.

A mercury spill must be treated as a serious safety concern. Staff should be trained in the management of broken lamps and the use of a spill kit.





The lamps containing mercury are identified by the mercury symbol:



9.2 Breakage Clean-up Procedure

If you break a CFL, a fluorescent tube or a HID bulb, follow these directions for clean-up:

Leave the area

- The concern is fumes or dust from the mercury. Clear an appropriate space around the breakage to eliminate the inhalation risk during clean-up. This could be clearing a room, or a perimeter. The space provided should be appropriate to the size of the breakage.
- Avoid stepping on broken glass

Ventilation

Ventilate the area for at least 15 minutes prior to starting clean-up by opening windows and doors to the outdoors. This will ensure that the mercury vapour levels are reduced before you start cleaning.



Clean-up Directions for Hard and Carpeted Surfaces

- Do <u>not</u> use a vacuum or broom to clean up the initial breakage, as it will spread the mercury vapour and dust throughout the area. Additionally, contamination may occur within the vacuum and/or on the broom
- 2. Wear disposable gloves to avoid direct contact with mercury and to reduce the risk of cuts
- 3. Wear disposable mask
- 4. Scoop or sweep up the broken pieces and debris with the two pieces of cardboard provided in the clean-up kit and place into the sealable plastic bag
- 5. Use packing tape to pick up any remaining fine glass or powder

Note:

Prepare several strips of tape ahead of time in order to avoid contaminating the roll and to make the clean-up effort easier and more efficient. Take a strip of packing tape, rolled with the sticky side out. Gently pat the contaminated area, rolling the tape to use a fresh surface each time. Phosphor powder, mercury and glass will adhere to the tape. Repeat this step as often as necessary to cover the affected area thoroughly. Place all contaminated tape into the same sealable plastic bag.

- 6. Wipe the area with a damp paper towel, cloth or disposable wet wipe to remove any residual particles
- 7. Place the broken glass and clean-up materials in the plastic bag and seal it to further minimize the release of mercury vapour



Place the debris in the sealable plastic bag

Place all of the debris and contaminated clean-up materials into the sealable plastic bag safe storage and later disposal. Once the clean-up effort is completed, place the sealed bag into the bulb box.

9.3 Resources

US EPA: www.epa.gov/mercury/cleaning-broken-cfl#qi

Health Canada: www.canada.ca/en/health-canada/services/environmentalworkplace-health/reports-publications/environmental-contaminants/mercuryyour-health-environment-resource-tool

10. Incident Reporting

To report an incident involving 5 or more broken light bulbs, please use the form found in Appendix B and forward to as per the instructions on the form. Please keep this form blank and photocopy as needed.

The collection site will provide notice of the following to Product Care:

- 1. Any incidents that required the assistance of first responders within 24 hours of the occurrence
- 2. Any regulatory orders or fines within 48 hours of receiving such orders or fines.

Please report using the contact details below:

Operations and Logistics Supervisor

Product Care Recycling

Telephone: 604-592-2972 ext. 216

Fax: 604-592-2982

Email: nsopslights@productcare.org



APPENDIX A – ACCEPTED / NOT ACCEPTED PRODUCTS

Accepted Products:



Lamp Category	Typical Size
 Fluorescent Tubes measuring ≤ 2 feet - Includes all diameters, light outputs and shapes (curved etc.) 	2 feet
2. Fluorescent Tubes measuring > 2 feet and ≤ 4 feet - Includes all diameters, light outputs and shapes (curved etc.)	4 feet
3. Fluorescent Tubes measuring > 4 feet - Includes all diameters, light outputs and shapes (curved etc.)	8 feet
4. Compact Fluorescent Lights (CFL) - Fluorescent bulbs that are typically similar in size and intended to replace an incandescent (traditional) light bulb, including pin-type sockets, covered CFLs and various output wattages	CFL
5. Light Emitting Diodes (LED) - Solid-state lamps used for specialty purposes and conventional lighting applications	LED
6. High Intensity Discharge (HID) and Other: High Pressure Sodium, Low Pressure Sodium, Mercury Vapour and Metal Halide, UV, Germicidal and UHP replacement lamps	HID
7. Incandescent and Halogen - Filament lamps of all shapes, sizes and wattages (unless captured under category 8)	Inc.
8. Miniature Bulbs - LED, halogen and/or incandescent lamps designed and sold as replacement lamps for decorative light strings (e.g. xmas lights) or hand-held lights (e.g. flashlights).	Miniature



Accepted Products:





Accepted Products:









Not Accepted Items:



Lighting Fixtures:

Products considered light fixtures should NOT be placed in the boxes designed for lamps (bulbs and tubes).

Examples of lighting fixtures include:

- Bike Lights
- Ceiling Fixtures
- Chandeliers
- Flashlights
- Floor Lamps
- Light Strings (e.g. Christmas lights)
- Outdoor fixtures
- Recessed/Pot lights





APPENDIX B – FORMS (NEXT PAGE)



Nova Scotia Lights Lamp Container Request Form

Please fax this form to 1-604-592-2982 or email to nsopslights@productcare.org

DATE:		
CONTACT NAME:		
DEPOT NAME:		
ADDRESS:		
PHONE: FAX:		
SHIPPING HOURS:		
TO BE PICKED UP:		
BULB BOXES (24" x 20" x 24")	8 FT. TUBE BOXES (96" x 10" x 10")	
4 FT. TUBE BOXES (48" x 12" x 12")	OTHER (GIVE DETAILS)	
SUPPLIES NEEDED:		
4 FT. TUBE BOXES (48" x 12" x 12")	SPILL KIT	

4 FT. TUBE BOXES (48" x 12" x 12")		SPILL KIT	
8 FT. TUBE BOXES (96" x 10" x 10")		PACKING TAPE	
BULB BOXES (24" x 20" x 24")		SHIPPING PALLETS	
OTHER (GIVE DETAILS)			

SPECIAL SHIPPING INSTRUCTIONS and NOTES:



NOVA SCOTIA LIGHTS PROGRAM INCIDENT REPORT

Depot Name						
Devict Address						
Depot Address						
Telephone Number						
Date of Incident	Time of Incident					
# of CFL Broken 🔲 Five (5) 🔲 Six (6) to nine (9)	10+ Box dropped					
# of Tubes Broken 🔲 Five (5) 🗌 Six (6) to nine (9)	10+ Box dropped					
# of Other Broken 🔲 Five (5) 🚺 Six (6) to nine (9)	10+ Box dropped					
If the box dropped and resulted in broken glass, please and	swer the following questions:					
Did any broken glass spill onto the floor?	Yes No					
Did the box drop during: Packing Mc	ovement Shipping					
Was the staff wearing protective gear to clean up?	Yes No					
Was anyone injured?	Yes No					
If yes, please attach a copy of the Workers Compensation	Form and Record to this report.					
What are your suggestions to help prevent this type of incident from happening in the future?						
Please complete the information and fax or e-mail (and oth The mailing address, email, fax and telephone number are:						
7781 Vantage Way, Delta, BC V4G 1A6	FAX: 604-592-2982					
nsopslights@productcare.org	PHONE: 1-877-592-2972 Ext 216					
Employee Name	Signature					



APPENDIX C: COMMUNICATION MATERIALS

Poster (46"x23"):





Brochures/Rack Cards (9"x4"):

Front:



Back: