



**MARR**<sup>®</sup>  
Major Appliance Recycling Roundtable



# PROCESSING STANDARD FOR RECYCLERS OF MAJOR APPLIANCES

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PS01



# PREAMBLE

The purpose of the Processing Standard for Recyclers of Major Appliances ("MARR Processing Standard") is to articulate best practices in, and support efforts of, all participants in the metal recycling industry to improve the environmental practices associated with the decommissioning and recycling of end-of-life major appliances.

The MARR Processing Standard has been developed by the Major Appliances Recycling Roundtable (MARR) in fulfillment of its commitment under the government approved British Columbia (BC) Major Appliance Stewardship Plan ("Stewardship Plan") for the management of major household appliances at end-of-life. It exists for the use of individuals, corporations and municipal governments in BC who are engaged in the pre-processing or decommissioning of some or all of the products covered under the Stewardship Plan, and who are interested in furthering MARR's objectives of:

1. Improving the environmental outcomes associated with major appliances recycling; and,
2. Improving the measurement and oversight of the performance of the existing market-based major appliances recycling system.

The MARR Processing Standard is based largely on existing regulatory requirements applicable to the management of end-of-life major appliances. Members of the metal collection industry are encouraged to become a signatory to the MARR Processing Standard as a statement to consumers and the rest of the metal recycling industry of their commitment to the responsible management of end-of-life appliances and their compliance with all applicable laws and regulations.

It is important to note that an agreement to apply the MARR Processing Standard to the recycling or pre processing of major appliances, in no way limits the ability of signatories to apply additional requirements or standards that go beyond those specified in the MARR Processing Standard. In this regard, the MARR Processing Standard represents the minimum standards that MARR registered collectors and pre processors are expected to meet. Partners of MARR abiding by the MARR Processing Standard are free to follow more stringent standards and requirements should they choose to do so.





## DEFINITIONS

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"*Major Appliances*" means all products listed under MARR's list of products included in the program available at <http://www.marrbc.ca/collectors/products>.

"*Signatory*" means any party, including collectors, pre-processors, and processors that sign on to the MARR Processing Standard

"*Substances of Concern*" means any of the following wastes: (i) refrigerant, (ii) mercury switches, (iii) PCB capacitors, and (iv) compressor oil

## REGISTRATION

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1. Any party may be a signatory to the MARR Processing Standard.
2. There is no cost for entities engaged in the decommissioning of major appliances to register with the Major Appliance Recycling Roundtable (MARR) and all revenue generated from the legal sale or recycling of refrigerants and scrap metal will remain with the collector or recycler.

## LEGAL/REGULATORY COMPLIANCE REQUIREMENTS

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3. Signatories shall possess and adhere to all legally required permits, approvals, authorizations or licenses applicable to their business and the removal, handling and disposal of Substances of Concern, and all components, by-products and scrap resulting from the dismantling of major appliances, including but not limited to the BC Environmental Assessment Act, the BC Environmental Management Act, the BC Hazardous Waste Regulation, the BC Vehicle Dismantling and Recycling Industry Environmental Planning Regulation, and the BC Waste Management Act.
4. In particular, but without restricting the above, Signatories will comply with the Ozone Depleting Substances and Other Halocarbons Regulation under the Waste Management Act (BC Reg. 387/99, as amended), including all requirements for the use of "Approved Persons" and devices in the removal of the refrigerant, the use of approved containers to store and transport the refrigerant for the purposes of disposal and recycling, and record-keeping.
5. Signatories shall provide to MARR their facility address, telephone number, email address and a contact name of the individual within their organization responsible for environmental management.



6. Signatories shall provide notice to MARR of any change in the location of business where major appliances are processed, as well as the name of the business or ownership of the business.
7. Upon request from MARR, Signatories agree to provide a list of incidents described below related to managing Substances of Concern that have occurred at the signatory's facility and steps taken to manage the incident:
  1. Fines or regulatory orders;
  2. Environmental incidents such as fines, spills or emissions to the natural environment;
  3. Any incidents requiring notification to a regulatory agency or dispatch of a first responder.
8. Signatories shall not encourage the improper disposal of refrigerants by offering a lower charge for accepting refrigerant containing appliances with refrigerant removed, unless the appliance is accompanied by satisfactory documentation evidencing that refrigerant was removed in accordance with the requirements set out under the Ozone Depleting Substances and Other Halocarbons Regulation.

## ENVIRONMENTAL CONTROLS

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9. Signatories shall maintain adequate environmental controls to prevent unapproved releases to the environment, and properly remove, handle and control Substances of Concern in accordance with the Canada Occupational Health and Safety Regulation and the BC Occupational Health and Safety Regulation (Part 5: Chemical Agents and Biological Agents).
10. Signatories shall establish and maintain a documented process to ensure that all Substances of Concern are processed by any downstream processor in a safe and environmentally responsible manner and that such processors possess and maintain all legally required permits, licenses and authorizations required in the country or countries in which they operate to process the applicable Substance of Concern.
11. Signatories shall ensure that all refrigerants are extracted from fridges, wine coolers, beverage centres, freezers, room and portable air conditioners and dehumidifiers in accordance with the Ozone Depleting Substances and Other Halocarbons Regulation (B.C. Regulation 387/99)(the "Regulation").
12. Signatories shall inspect all refrigerant containing appliances for PCB Capacitors and mercury switches, and remove any PCB Capacitors or mercury switches found.



13. Signatories shall store, manage, and dispose of any capacitors containing PCBs in compliance with the Federal PCB Regulations (SOR/2008-273) under the Canadian Environmental Protection Act 1999 (CEPA 1999).
14. When mechanical processing of the appliance is undertaken (baling or shredding), signatories shall ensure that a sufficient supply of oil-only sorbents are on site to be used in the event of a spill. A sufficient supply would be polypropylene pads, socks or particulate capable of containing 150% of the volume of oil that can be held by the baler's or shredder's oil tray.

## **ENVIRONMENTAL HEALTH AND SAFETY (EHS) MANAGEMENT SYSTEM**

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15. Signatories recognize that they maintain a documented Environmental, Health and Safety (EHS) Management System that enables the identification and control of the environmental, health and safety impacts associated with the dismantling operations in accordance with the Canada Occupational Health and Safety Regulation and the BC Occupational Health and Safety Regulation (section 15).
16. Signatories recognize that their EHS Management System is reviewed annually by senior management and updated as required to ensure that it remains effective and relevant to current business operations.
17. Signatories recognize they maintain a documented process to conduct an annual EHS risk assessment. The risk assessment shall be planned and conducted in a manner to identify and assess the potential environmental impacts of the operations and any workplace hazards.

## **HEALTH & SAFETY CONTROLS**

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18. Signatories shall implement and maintain adequate health and safety controls to prevent accidents, injuries or exposure to hazardous substances in accordance with the Canada Occupational Health and Safety Regulation and the BC Occupational Health and Safety Regulation (section 15).



## RECORD KEEPING & REPORTING

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19. Signatories shall maintain records regarding the handling and disposal of Substances of Concern in accordance with the requirements set out under the federal Export and Import of Hazardous Waste and Hazardous Recyclable Material Regulations (SOR/2005-149) and the BC Occupational Health and Safety Regulation.
20. Upon request by MARR, signatories agree to provide estimates on the total volume by weight of major appliances by type received for decommissioning and processing.
21. Upon request by MARR, signatories agree to provide finished weights of metals (ferrous and non-ferrous) shipped to downstream processors. Where materials derived from major appliances are co-mingled in the recycling process with other materials, an estimate of the quantity of materials derived from major appliances and sent to end markets is acceptable.
22. Upon request by MARR, signatories agree to provide the type and quantity of any Substances of Concern removed from major appliances, the quantity of these Substances of Concern that are shipped to downstream processors, as well as a description of the method of disposal utilized by the downstream processor.
23. Signatories ensure that documentation is available from refrigerant reclamation companies indicating the serial numbers of returned reclamation tanks and the quantity of ODS in each tank.

## TRANSPORTATION REQUIREMENTS

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24. Signatories shall ensure that all materials, including shipments of a signatory's materials by third party transporters, are transported in a safe and environmentally sound manner in accordance with all applicable regulatory requirements.



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