
Discarded Appliance Demanufacturing

IAC 567-118 (455B)

Do these regulations apply to my operation?

All appliances must be demanufactured before being recycled or disposed of.

Any person or facility wanting to engage in the demanufacturing of discarded appliances must obtain an Appliance Demanufacturer Permit prior to starting operation. These rules do not apply to appliance service and repair shops unless they are in the business of demanufacturing discarded appliances. Also, they do not apply to the removal of capacitors, refrigerants, or components containing mercury during the maintenance or service of equipment containing such items.

Definitions

Appliance - means household and commercial devices such as refrigerators, freezers, kitchen ranges, air conditioning units, dehumidifiers, gas water heaters, furnaces, clothes washers, clothes dryers, dishwashers, microwave ovens, and commercial coolers with components containing mercury, refrigerants, or PCB-containing capacitors.

Demanufacturing – means the removal of components including, but not limited to, PCB- \containing capacitors, ballasts, mercury-containing components, fluorescent tubes, and refrigerants from discarded appliances.

Discarded – means no longer to be used for the original intended purpose.

Permit Requirements

Any person that plans to engage in the demanufacturing of discarded appliances must obtain an **Appliance Demanufacturer Permit** from the Iowa Department of Natural Resources (DNR) prior to starting operation.

Permit Application Requirements

The permit requirements are outlined in the **Appliance Demanufacturer Permit Application, Form 50D**, which can be found [here](#). One of the permit requirements is to include confirmation from the zoning department that the facility meets zoning requirements for appliance demanufacturing and verification that the property is located above the 100 year flood plain. The **Zoning Verification Form** should be used for this and can be found [here](#).

General Requirements

STORAGE AND HANDLING OF APPLIANCES PRIOR TO DEMANUFACTURING

- Any person collecting and storing discarded appliances must store the appliances in a manner that prevents electrical capacitors, refrigerant lines and compressors, and mercury-containing components from being damaged and allowing a release into the environment.
- No method of collecting, storing or handling discarded appliances may be used which in any way damages, cuts or breaks refrigerant lines and compressors, capacitors, or mercury-containing components or may cause a release of refrigerant, PCBs or mercury into the environment.
- No more than 1,000 discarded appliances may be stored at a location prior to demanufacturing.
- Discarded appliances cannot be stored for more than 270 days prior to demanufacturing.

REMOVAL AND DISPOSAL REQUIREMENTS FOR FIXED FACILITIES AND MOBILE OPERATIONS

- Demanufacturing of appliances must take place on an impervious floor (including but not limited to concrete, ceramic tile, or metal). Wood floors are not acceptable.
- The point of demanufacturing must be located at least 50 feet from a well and /or surface water. A permanent facility must meet local zoning ordinances.
- The point of demanufacturing must be located above the 100-year floodwater elevation.
- An applicant must establish a unique marking system, to be submitted with the permit application for DNR approval, signifying that all refrigerants, PCB-containing articles, and mercury-containing components have been removed. The unique marking system must be a minimum of nine inches by nine inches and must be applied to the appliances after demanufacturing.

Inspections

Facilities will be inspected by DNR prior to issuance of a demanufacturing permit. The following form will be used during this inspection:

<http://www.iowadnr.gov/Portals/idnr/uploads/forms/5420140.doc>

Training

At least one owner or employee of an appliance demanufacturing facility must have a training certificate from a DNR-approved training course. A person who has completed the approved training course must be on site at all times when appliances are being demanufactured.

For upcoming Appliance Demanufacturer Operator Certification opportunities, see:

<https://www.iowadnr.gov/Environmental-Protection/Land-Quality/Solid-Waste/Operator-Certification>, or contact the DNR at (515) 217-0872.

Recordkeeping and Reporting

A permitted appliance demanufacturing facility is required to keep records related to the quantity of materials processed. This information must be submitted annually to the DNR on the following form by January 31st for the prior calendar year:

<https://www.iowadnr.gov/portals/idnr/uploads/forms/5428005.pdf?amp>.

Shredding of Appliances

No person or facility in the state may shred, crush or bale any appliances that have not been demanufactured. Fluff from the shredding of demanufactured appliances must be sampled quarterly, at a minimum, and analyzed for the presence of PCBs and the toxicity characteristic leaching procedure (TCLP) for the 8 heavy metals (i.e., arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver).

Hazardous Materials – Hazardous Waste - Refrigerants

Any person or business engaged in demanufacturing of appliances must follow all federal and state laws relating to the management and disposal of all hazardous wastes, hazardous materials and refrigerants. For further information contact the IWRC at 319-273-8905.

Financial Assurance

Permitted appliance demanufacturing facilities must obtain and submit a financial assurance instrument to the DNR in accordance with regulations contained in 567-118.16. A copy of this regulation and all others relevant to appliance demanufacturing can be found at:

<https://www.legis.iowa.gov/docs/ACO/chapter/567.118.pdf>

*The Iowa Waste Reduction Center can assist your small business.
Please contact the IWRC at 319-273-8905 for free, non-regulatory and confidential environmental assistance.*