

**Environmental Choice[™] Program
Panel Review Process**

**VERIFICATION AND LICENSING CRITERIA
CCD-118**



PRODUCT : **Apparatus for solid waste recycling and conversion**

Notice of Intent

This criteria document is to serve as an interim licensing criteria for the *Apparatus for Solid Waste Recycling and Conversion*, manufactured by *Eastern Power Limited of Toronto*. Laboratory scale models of this apparatus indicate a level of performance achieved in Section 3 below. With the activation of a full scale unit in 1999, performance will be verified by the ECP and the criteria in Section 3 will be extended. In the event that verification reveals a performance below that described in Section 3, the Environmental Choice designation will be re-evaluated.

Notice

Throughout this document, any reference to a standard or guideline means to its latest edition. The Environmental Choice Program (ECP) reserves the right to accept equivalent test data for the test methods specified in this document.

Interpretation

1. In this set of requirements, please note the following definitions:

“biochemical oxygen demand” or “BOD₅” means the amount of dissolved oxygen required for the biodegradation of the organic matter in water, when tested in accordance with the 5 day test set out in the *Standard Methods for the Examination of Water and Waste Water*, latest edition, Sub-part 5210, jointly published by the American Public Health Association, the American Water Works Association and the Water Pollution Control Federation;

“elemental metal removal” the use of a process such as electrolysis to separate out various metal elements into saleable fractions;

“municipal solid waste” means the combined residential and commercial waste material generated in a given municipal area;

“product solids” means the residual solid material remaining after separation, anaerobic digestion, and elemental metal removal;

"total suspended solids" or "TSS" means any solid matter that is found to be in effluent when tested in accordance with the test for total suspended solids dried at 103 °C to 105 °C set out in the *Standard Methods for the Examination of Water and Waste Water*, latest edition, Sub-part 2540, Sections A to E, jointly published by the American Public Health Association, the American Water Works Association and the Water Pollution Control Federation;

General Requirements

2. To be authorized to carry the EcoLogo^M, **APPARATUS FOR SOLID WASTE RECYCLING AND CONVERSION** must:
 - (a) meet or exceed all applicable governmental and industrial safety and performance standards; and,
 - (b) provide its service in such a manner that all steps of the process, including the disposal of waste products arising therefrom, will meet the requirements of all applicable governmental acts, by laws and regulations including, for facilities located in Canada, the *Fisheries Act* and the *Canadian Environmental Protection Act* (CEPA).

Product Specific Requirements

3. To be authorized to carry the EcoLogo, **APPARATUS FOR SOLID WASTE RECYCLING AND CONVERSION** must:
 - (a) separate fibre, plastic, glass, ferrous and non-ferrous metals into saleable fractions from an input stream of municipal solid waste;
 - (b) yield product solids that meet the requirements of CCME *"Guidelines for Compost Quality"* if to be used in a compost product.
 - (c) yield saleable separate streams heavy metals such as: Ag, Cd, Cr, Hg, Mo, Pb, Se, and Zn;
 - (d) use methane gas resulting from the anaerobic digestion process for the production of electricity;
 - (e) meet or exceed provincial environmental emission limits for carbon monoxide (CO), nitrous oxides (NO_x), sulphur oxides (SO_x);
 - (f) meet or exceed provincial environmental effluent limits for BOD, TSS, dissolved oxygen, temperature, pH and residual chlorine and/or the Ontario Leachate Quality Levels found in provincial regulation 347 for Ag, As, Cd, Cr, CN, Hg, Mo, Pb, Se, U, and Zn;

Verification

5. To verify a claim that a product meets the criteria listed in this document, the ECP will require access, as is its normal practice, to relevant quality control and production records and the right of access to production facilities on an announced basis.
6. Compliance with requirement 2(b) shall be attested to by a signed statement of the Chief Executive Officer or the equivalent officer of the licensee. The ECP shall be advised in writing immediately by the licensee of any noncompliance which may occur during the term of the license. On the occurrence of any noncompliance, the license may be suspended or terminated as stipulated in the license agreement.

Conditions for EcoLogo Use

7. The EcoLogo may appear on wholesale or retail packaging, or on the product itself, provided that the product meets the requirements in this document.
8. All licensees and authorized users must comply with the ECP's *Guide to Proper Use of the EcoLogo^M* regarding the format and usage of the EcoLogo.
9. Any accompanying advertising must conform with the relevant requirements stipulated in this guideline, the license agreement and the ECP's *Guide to Proper Use of the EcoLogo^M*.

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