

Missouri Electronic Scrap (E-scrap) Stakeholder Workgroup

May 10, 2007

Framing Committee:

- Purpose/mission statement: To put in place a framework for reusing, refurbishing, and recycling E-scrap in Missouri in an economically sustainable fashion without threatening the environment.
- Initially define e-scrap: computers (desktops and notebooks), computer peripherals (printers, copiers, scanners, mouse, etc...), televisions and cell phones
- Developed workgroup goals
- Determined workgroup invitation list using the largest possible number and variety of stakeholders
- Organized first two meetings
- Set timeframe

Stakeholder Workgroup:

- Membership includes:
 - manufacturers (Philips, Hewlett-Packard, Dell),
 - retailers (Wal-Mart),
 - demanufacturers,
 - environmental groups,
 - waste haulers and processors,
 - state universities and secondary public schools
 - Solid waste management districts
 - Missouri state agencies (Attorney General's Office, Department of Natural Resources, Environmental Improvement and Energy Resources Authority (EIERA), Office of Administration)
 - federal agencies (EPA),
 - local governments, and
 - National organizations (Consumer Electronics Association, Institute of Scrap Recycling Industries (ISRI))
- Re-defined e-scrap:
 - computers, monitors and televisions included in recycling
 - all other electronics included in the education campaign
- Provided informational topics
 - Familiarize stakeholders with areas they might not know about
 - Even the playing field

Results:

1. MOEST (Missouri E-cycling Standards) - Best Management Practices (BMPs)
 - Originally NOMESS (Newly Organized Missouri E-cycling Standards)
 - General Operations
 - Inventory Control
 - Maximize Value, Minimize Risk
 - Responsible Export Practices
 - Transportation Practices
2. Voluntary Tiered Registration
 - Required Registration
 - Self Auditing
 - Financial Assurance and/or Level 1 Missouri Environmental Management Partnership (MEMP),
 - Resource Recovery Certification and/or Third Party Organization Environmental Management System (TPO EMS) Certification
 - 4 Levels:
 - Level 1
 - Registration
 - Listed on Web page (no endorsements)
 - Environmental Assistance Visit
 - Notify the department of any change in operations
 - Strive to recycle as much as possible
 - Level 2
 - All level 1 requirements
 - Electronics Recovery Site Self-Audit Form
 - Web page listing with link to Self-Audit Form
 - MOEST BMPs required as standard operating procedure
 - Signed Certification that MOEST are practiced
 - Annual registration
 - Update of Self-Audit Form
 - Annual production report
 - Level 3
 - Requirements of Level 1 and 2
 - Closing cost estimate certified by corporate officer
 - Financial Responsibility for closing cost
 - 40 CFR 265, Subpart H
 - Legal contract with another registered e-cycling facility
 - Legal contract with an environmental company
 - and may participate in Level 1 MEMP
 - Level 4
 - Requirements of Levels 1,2, and 3

- Documentation of TPO EMS Certification (ISO 14001, IERA, ISRI-RIOS, MDNR-MEMP levels 2, 3, or 4, or other industry accepted organization)
- Missouri Resource Recovery Certification

3. Education Campaign

- Two Phases:
 - Phase I - Kansas City, St. Louis, Springfield, Columbia/Jefferson City
 - Phase II - Rural Missouri
- Focus on informing the public, businesses and organizations as to the importance of recycling electronics and possible facilities that can best handle their e-scrap.
- Focus on helping establish new demanufacturers (facilities that reuse, refurbish and recycle e-scrap) and collection sites set up their business and manage e-scrap in an environmentally safe manner.

Future Goals:

- Develop baseline of recycling for each facility
- Increase e-cycling rate for both residents and businesses (businesses should be recycling now)
- Increase number of demanufacturers listed on the DNR Web site
- Prevent future problem sites
- Increase e-cycling infrastructure in Missouri

For more information call or write:

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Stakeholders Web page: <http://www.dnr.mo.gov/env/hwp/escrap/workgroup.htm>

Recyclers List Web page: <http://www.dnr.mo.gov/env/swmp/rrr/computerlist.htm>