October 17, 2007

Environmental, Safety & Health
Senior Manager
Bob Beauchamp,

Overview
Waste Management / Pollution Prevention
KCP operates as a 90-day storage, large quantity generator.

Waste Reduction Since 1993

Routine Hazardous Waste

Routine Hazardous Waste
90% Reduction from 1993 Baseline
1993 Routine Non-Hazardous Waste: 15,342,000 pounds

97% Reduction from 1993 Baseline
2007 Routine Hazardous Waste: 36,800 pounds
1993 Routine Hazardous Waste: 551,000 pounds

Hazards and Non-Hazardous Waste

Routine Hazardous Waste
Total Waste Managed: FY07

Total Waste Managed: 4,366,749 pounds

Waste Recycled:
- 1,887,590
- 428,373
- 43
- 391,502
- 36,828

Hazardous/TSCA waste disposed:
- 2,050,786
- 56,619
- 185,749
- 608,460
- 1,199,558 pounds

Non-Hazardous waste disposed:
- 1,199,558 pounds

Non-Routine waste (construction):
- 1,199,558 pounds

Low-level / mixed waste:
- 1,199,558 pounds

Routine waste:
- 1,199,558 pounds

Routine plant waste (normal trash):
- 1,199,558 pounds

Routine non-hazardous process waste:
- 1,199,558 pounds

Other (TPH, PCBs, etc.):
- 1,199,558 pounds

Total non-hazardous waste disposed:
- 2,050,786
- 56,619
- 185,749
- 608,460
- 1,199,558 pounds

Total hazardous/TSCA waste disposed:
- 1,887,590
- 428,373
- 43
- 391,502
- 36,828

Non-Routine (construction):
- 1,887,590
- 428,373
- 43
- 391,502
- 36,828

Routine non-hazardous process waste:
- 1,199,558 pounds

Routing plant waste (normal trash):
- 1,199,558 pounds

Routine waste:
- 1,199,558 pounds
43% of all waste generated in FY07 was recycled

<table>
<thead>
<tr>
<th>Total Waste Recycled</th>
<th>1,887,590 pounds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toner cartridges</td>
<td>3,075</td>
</tr>
<tr>
<td>Fluorescent lamps</td>
<td>6,810</td>
</tr>
<tr>
<td>Plastic</td>
<td>9,932</td>
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<tr>
<td>Precious metals</td>
<td>10,281</td>
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<tr>
<td>Fuel blend oils/solvents</td>
<td>62,456</td>
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<tr>
<td>Sludge</td>
<td>27,810</td>
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<tr>
<td>Batteries</td>
<td>32,581</td>
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<tr>
<td>Wood</td>
<td>67,400</td>
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<tr>
<td>Computers</td>
<td>72,000</td>
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<tr>
<td>Concrete</td>
<td>255,780</td>
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<tr>
<td>Paper</td>
<td>163,699</td>
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<tr>
<td>Asphalt</td>
<td>198,940</td>
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<tr>
<td>Scrap metal</td>
<td>852,021</td>
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</tbody>
</table>

Waste Recycled: FY07
Process changes
Fuel blending
Computer recycling
Solvent substitution
Pollution prevention opportunities
Review of construction projects and department processes for
WPF sludge recollection (15 tons in FY06)
Reduced coolant waste (15 ton reduction in FY06)
Improvements initiated yielding a 97% waste reduction
Electronics recycling options were investigated and
Electronics recycling program implemented in FY06

Proactive efforts to reduce waste include:

Waste Reduction
IWPF treats process waste waters prior to discharge.

Wastewater Pre-Treatment Facility

Waste Reduction - IWPF (Industrial)
World Resources, Pottsville, PA
- Von Roll/WTI, Liverpool, OH
- SPI Metals, Chicago, IL
- Veolia, Port Washington, WI
- Veolia, Menomonee, WI
- Veolia, Sauget, IL
- Veolia, Port Arthur, TX
- Rineco, Haskell, AR
- Perma-Fix, Gainesville, FL
- Heritage, Kansas City, MO
- Clean Harbors, Civele, UT
- Clean Harbors, Waynoka, OK
- Chemical Waste Mgmt, AL

Permitted. KCP waste is currently sent to the following TSDFS:

Facilities (TSDFS) used by KCP

Treatment, Disposal, Storage
Begun in 1988, the EPA's Toxics Release Inventory Program contains information on releases of nearly 650 chemicals and chemical categories from industries.
Past VOCs were due primarily to industrial solvents such as:

- TCE
- Methylene Chloride
- TCA
- Toluene

Emissions Volatile Organic Compounds (VOC)
Recent Improvements: Air Quality

- Emissions from powder coating
  - Increased use of powder coating has decreased emissions (no)
  - Volatile organic compounds and hazardous air pollutants
  - Changes to the liquid coating process have reduced emissions of

- Powder coating and cleaning process
  - From the KCP site
    - ODPS, with R134a, a non-ODS, removing 56,000 pounds of ODPS
    - Replaced R-11 and R-12 Class I ozone-depleting substances

- Replaced chillers
  - 5% increase in energy efficiency
  - 50% decrease in nitric oxide, 80% decrease in carbon monoxide,

- Replaced four boilers and added flue gas recirculation
Recent Improvements: Water Quality

- Regulated agencies are satisfied with KCP clean-up efforts and
- Lined inside of storm sewers to prevent infiltration of PCBs
- Removed 32,000 tons of contaminated soil in early 1990s
- Spent more than $16M since 1980s to reduce
  - Legacy PCBs from historic spills
  - PCBs (Polychlorinated Biphenyls) reused as cooling tower make-up
- 27,000 gallons per day treated in reverse/osmosis system and
- Treat industrial wastewater
- Reconfiguration of reverse osmosis/denitrated water system to
  - Machined rather than using single-pass cooling water
  - Closed loop chilled water is used to supply cooling water to
- Water recycling and reduction

The Kansas City Plant is operated and managed by Honeywell Federal Manufacturing & Technologies, LLC, for the NNSA.
Recent Improvements:

- Energy Reduction

- Use of alternative fuel vehicles
- Lifting optimization (motion detectors, additional switches)
- Reduced lighting in some areas, lighting retrofits
- Employee awareness education
- Utility system operational improvements
- Maintenance
- Cost conservation via temperature control and steam trap
- Energy efficiency in construction projects
- Energy awareness training
- Energy consumption reduction

19.4% from 2003 baseline
Awards and Certifications

- Missouri Governor's Pollution Prevention Award
- Missouri Industrial Water Quality Achievement Award
- Missouri Water Environment Association Silver Award and the recipient
- Bridging the Gap – Environmental Excellence Award (3 time)
- 2006 Federal Electronics Recycling and Reuse Challenge (FERRC) Award
- Computer Gift Program
- 2006 Federal Electronics Challenge (FEC) Award for the KCP
- Award for Reclamation of IWPF Sludge
- 2006 NNSA Pollution Prevention Environmental Stewardship

Awards Received:
- ISO 14001 and 9001 Certified
Upper Blue River Watershed Initiative
Johnson County Environmental Task Force
Environmental Excellence Business Network
Bringing the Gap
Blue River Watershed Association
Blue River Rescue
Missouri E-Scrap Stakeholder Workgroup
Kansas City Climate Change Plan Task Force
Involvement
Environmental Community
Blue River Watershed Association

Community Involvement

Issues community in addressing these concerns, and to engage our community organization that seeks BRW A is a nonprofit grassroots
Annual Blue River Rescue

Community Involvement
Community Involvement

Annual Blue River Rescue

Each year Honeywell joins with hundreds of community volunteers for a one-day clean-up of trash from areas around the Blue River.
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**Local Environment**

- The Kansas City Plant has effectively worked with community stakeholders to improve our environment.

- 1993 - 90% reduction in non-hazardous waste since 1993
- 92% reduction in hazardous waste since 1993

- Reduced at the Kansas City Plant: waste and pollution have been effectively addressed.