



## Westinghouse Electric Co., Blairsville, Specialty Metals Plant Site Report Information

Address: 559 Westinghouse Road, Blairsville, Pennsylvania 15717

Lot area: 1,963,000 m<sup>2</sup>, Building area: 98,150 m<sup>2</sup>, Green ratio: 95%

Establishment: 1955, Employees: 316 (as of March 2011)

Major products: Manufacture of Zirconium Alloy Nuclear Fuel Tubing

Major Environmental Issue : ISO 14001 Certification Obtained



## Message From Environmental Preservation Chief

*Being aware of the of the environmental consequences of our actions on a day-to-day basis is the first and most critical step in in achieving an effective environmental management program. Our success at Blairsville is a direct result of all of our employees understanding the meaning and benefits of being good environmental stewards and working together as a team to achieve our successes. It is a real pleasure to work with a group that is not only concerned about the well being of this facility, but also the well being of future generations.*



**Brian Jones**  
Manager

Environment, Health and Safety, and Continuous Improvement

## Major environmental activities in 2010

### ISO 14001 Environmental Management System

The Westinghouse specialty Metals Plant in Blairsville had the distinction of becoming the first Westinghouse facility in the United States to have their Environmental Management System certified under ISO 14001.

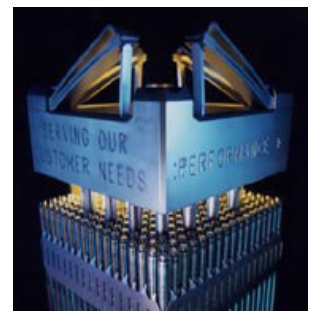
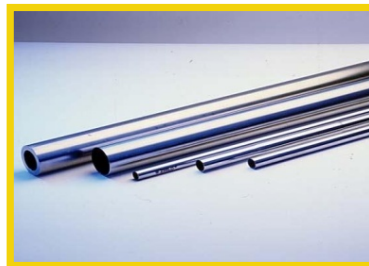
### Waste Reduction Initiatives

Blairsville continued numerous projects initiated numerous projects to reduce waste. Of most significance, the study to reduce over 64 tons of waste coolant from pilgering operations is proving to be successful. Final evaluation of the project will be conducted in the later half of 2011. If successful, the project could reduce the plants largest waste stream by an least 50% annually.

### Energy Reduction

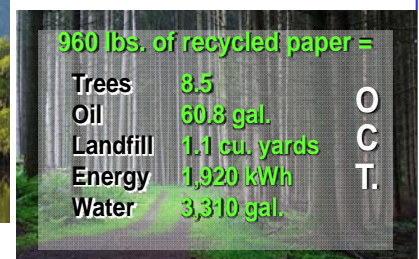
Blairsville initiated a number of energy reduction projects in 2010 including a high bay lighting conversion project converting Metal halide lights with more efficient T5HO lights which will result in an estimated energy savings of 35%, replacing DC motors on pilger machine main drives with AC technology resulting in an approximate 30% energy savings per machine and installing new dampers and automatic enthalpy controls on facility HVAC systems which ahs an estimated energy savings of about 15%. Work will continue on these project through 2012.

## Development of products and environmental technologies



## Environmental communication

- There were 15 environmental articles/information boxes published in the bi-weekly *Tube Topics* newsletter, circulated electronically to office personnel and via hard copy to shop employees.
- We heightened our usage of the plant floor information monitors to continuously disseminate Environmental Health and Safety information. There was an increased awareness around plant recycling statistics, SMP Environmental Policy, and community recycling events. (Reference screen shots to right.)



## Environmental Policy

### Specialty Metals Plant

#### Environmental Policy and Sustainability Principles

*At the Westinghouse Specialty Metals Plant (SMP) in Blairsville, Pennsylvania, we understand and believe in the importance of being good stewards of our environment and preserving our natural resources for generations to come. SMP has a strong commitment to protect our employees, our neighbors and our environment; therefore, SMP has adopted the following Environmental Policy and Environmental Sustainability Principles:*

#### Environmental Policy

It is our policy to design, produce, market and distribute our products and services and to conduct our operations in an environmentally sound, socially responsible manner. Our guiding vision is to achieve and maintain excellence in environmental management through continual improvement, to minimize resource consumption, and support energy security and environmental sustainability on a global level, so that Westinghouse is recognized as a responsible citizen of the world.

To carry out our vision, we will:

- comply with all applicable environmental legal requirements, industry guidelines we have endorsed and our own standards concerning the environment
  - assess the environmental aspects of our business activities, products and services, and establish and maintain meaningful environmental objectives and targets with respect to the reduction of environmental impacts and prevention of pollution
  - incorporate sound environmental practices in our business decisions
- engage employees in environmental awareness and improvement activities  
communicate our environmental activities to stakeholders with integrity and transparency

#### Environmental Sustainability Principles

The following company-wide sustainability principles will guide our environmental management system:

**Management Commitment:** We will demonstrate commitment to environmental sustainability on a broad level through employee engagement; ensuring the availability of resources; transparent interaction with customers, regulators, suppliers and other stakeholders to promote environmentally sustainable business activities; and through minimizing the impacts of our global business activities on the environment.

**Protection of the Biosphere:** We will make continual progress toward eliminating release of substances that may cause environmental damage to the earth or its inhabitants. We will safeguard habitats affected by our operations and protect open space and wilderness, while promoting biodiversity.

**Risk Reduction:** We will minimize the environmental risks to our employees and the communities in which we operate.

**Prevention of Pollution:** We will analyze our operations and products to implement source reduction, waste reduction and increased reuse and recycling. Waste that is generated will be handled and disposed of in a safe and responsible manner.

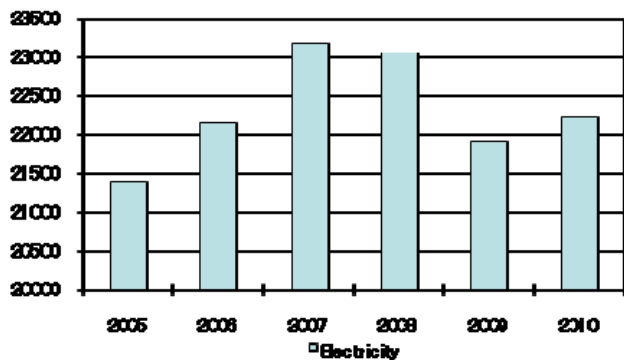
**Energy Usage Reduction:** We will monitor, analyze and implement continual improvements to reduce energy usage in our facilities, processes and applications, while improving the energy efficiency of our products and services.

**Sustainable Use of Natural Resources:** We will analyze our utilization of natural resources such as water, and set goals for reduction through continual improvement.

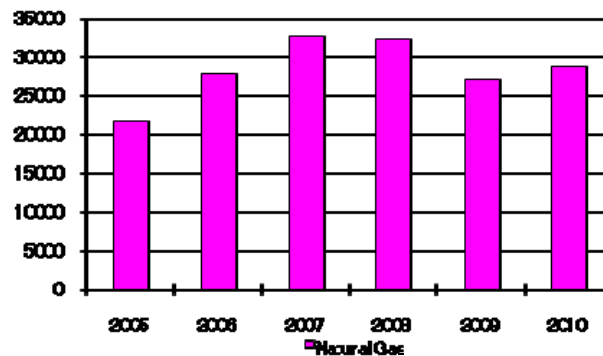
**Air Quality Improvement and Climate Change Mitigation:** We will offer very low air emission and non-carbon emission plants to the energy market. Our products and services will help customers reduce and manage their air emissions. In addition, we will actively manage the air and greenhouse gas emissions from our own operations, and establish goals for reducing these emissions and our carbon footprint.

**Environmental load data**

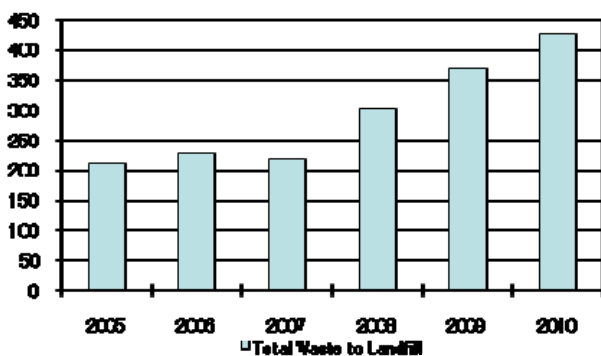
Electricity usage (unit: MKWH)



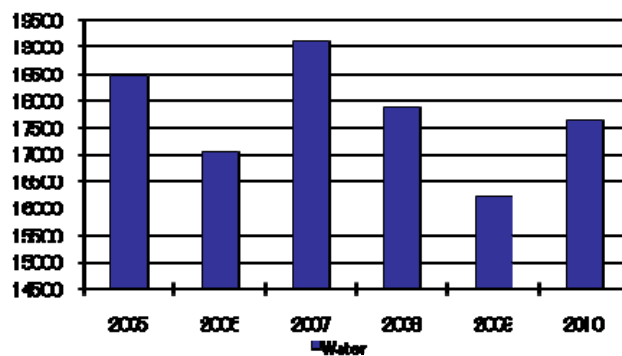
Natural Gas Usage (unit: M Cu. Ft.)



Total waste to Landfill (unit: tons)

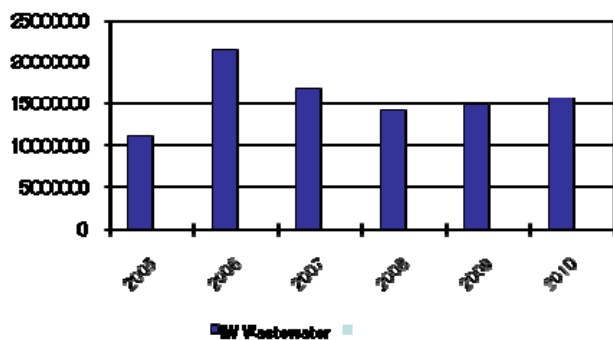


Water Usage

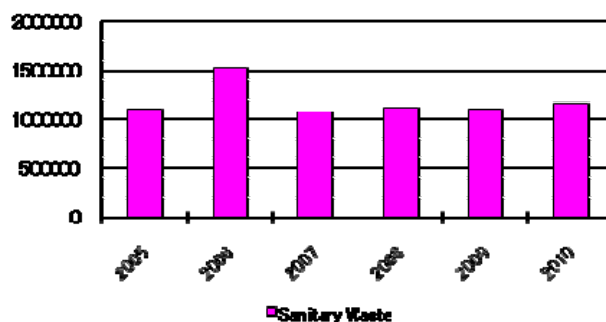


Major wastes: Waste Acid, Industrial Waste Treatment sludge, Waste Pilger Lube

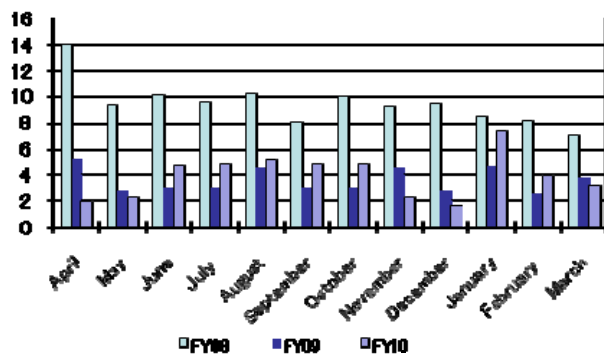
Industrial Wastewater volume (unit: 1,000 gal.)



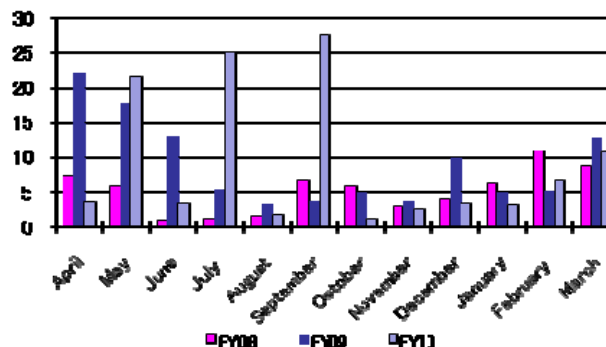
Sanitary Wastewater volume (unit: 1,000 gal.)



Fluoride Effluent (unit: Average #/day)



BOD5 Effluent (unit: mg/liter)



Major chemical substances: Hydrofluoric Acid, Nitric Acid, Pilger Lube

## Compliance management

### Facility Industrial Wastewater Treatment Discharge. Discharge is to the Conemaugh River

	Regulation value	Self-control value	Actual measurement	Measurement frequency
Hydrogen ion concentration (pH)	7.5 – 9.0 Permit Value	7.7 – 8.8	8.0 – 8.2	Twice/month
TSS	37 lbs/day Average 78 lbs/day Max.	NA	0	Twice/month
Oil & Grease	23 lbs/day Average 38 lbs/day Max.	NA	0	Twice/month
Chromium	0.05 lbs/day Average 0.12 lbs/day Max.	NA	0	Twice/month
Cyanide	0.03 lbs/day Average 0.08 lbs/day Max.	NA	0	Twice/month
Nickel	0.03 lbs/day Average 0.08 lbs/day Max.	NA	0.01	Twice/month
Fluoride	7.2 lbs/day Average 16.3 lbs/day Max.	NA	3.2	Twice/month
Ammonia	16 lbs/day Average 37 lbs/day Maximum	NA	0.4	Twice/month

### Other measurement results (Sewage Water Law: Major results)

	Regulation value	Self-control value	Actual measurement	Measurement frequency
Hydrogen ion concentration (pH)	6.0-9.0	7.0 – 8.5	6.0 – 6.7	Twice/month
BOD (mg/l)	25 Average 50 Max	NA	10.8	Twice/month
Total Residual Chlorine (mg/l)	1.4 Average 3.3 Max	NA	0.03	Twice/month
SS (mg/l)	30 Average 60 Max	NA	28.5	Twice/month

### Environmental accidents, administrative advices and complaints

	State
Environmental accident	No environmental accidents in FY10
Environmental problem around the factory and in the local area	No major environmental issues in FY10
Administrative advice or direction	No agency direction or advice in FY10
Complaint from neighboring residents	No neighbor complaints in FY10