

**CONNECTICUT
RESOURCES
RECOVERY
AUTHORITY**

CONNECTICUT'S RECYCLING LEADER

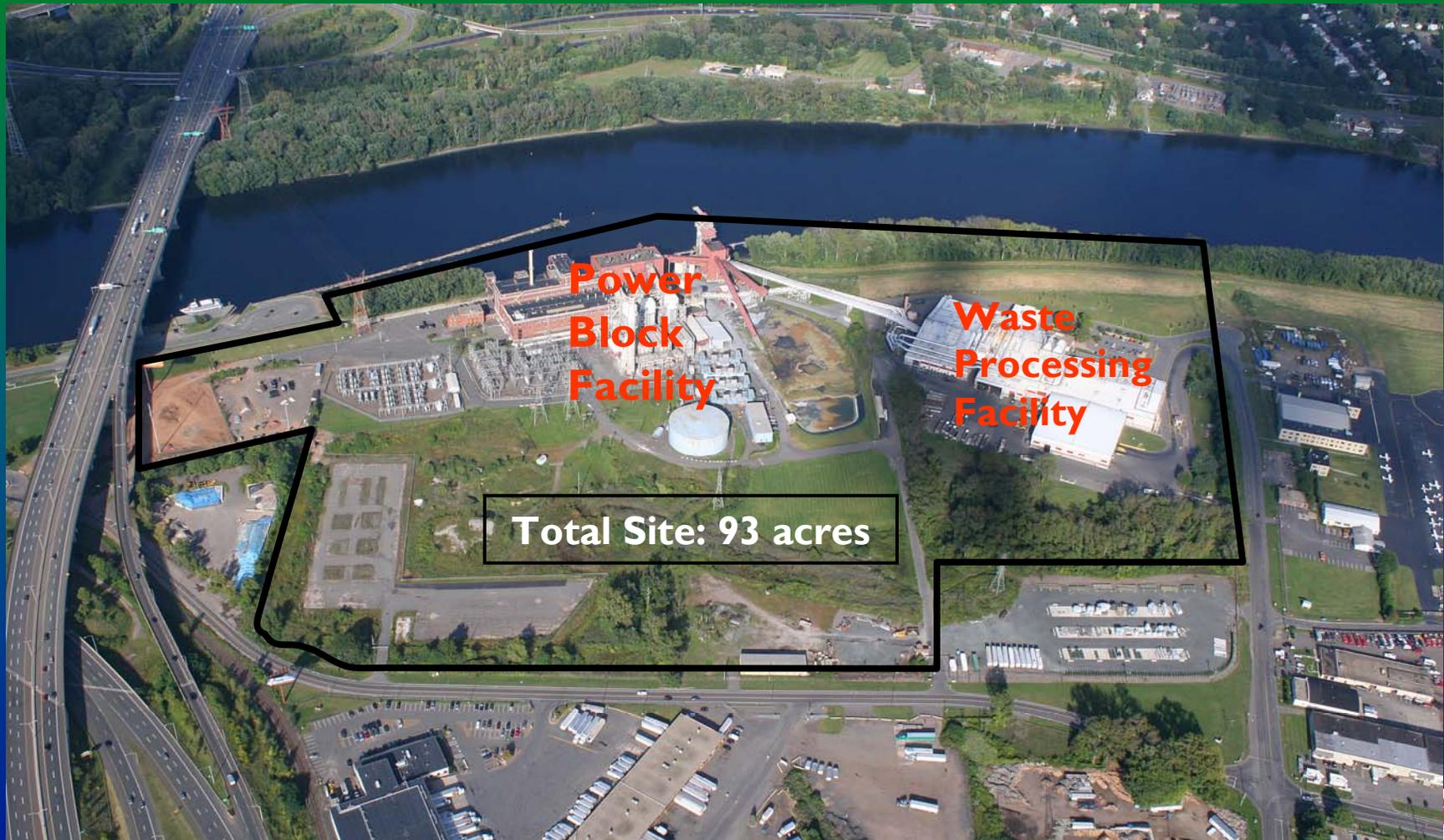
Mid-Connecticut Project Special Committee

Report on Trash-to-Energy Plant Condition

Rich Quelle, Senior Engineer

January 27, 2010

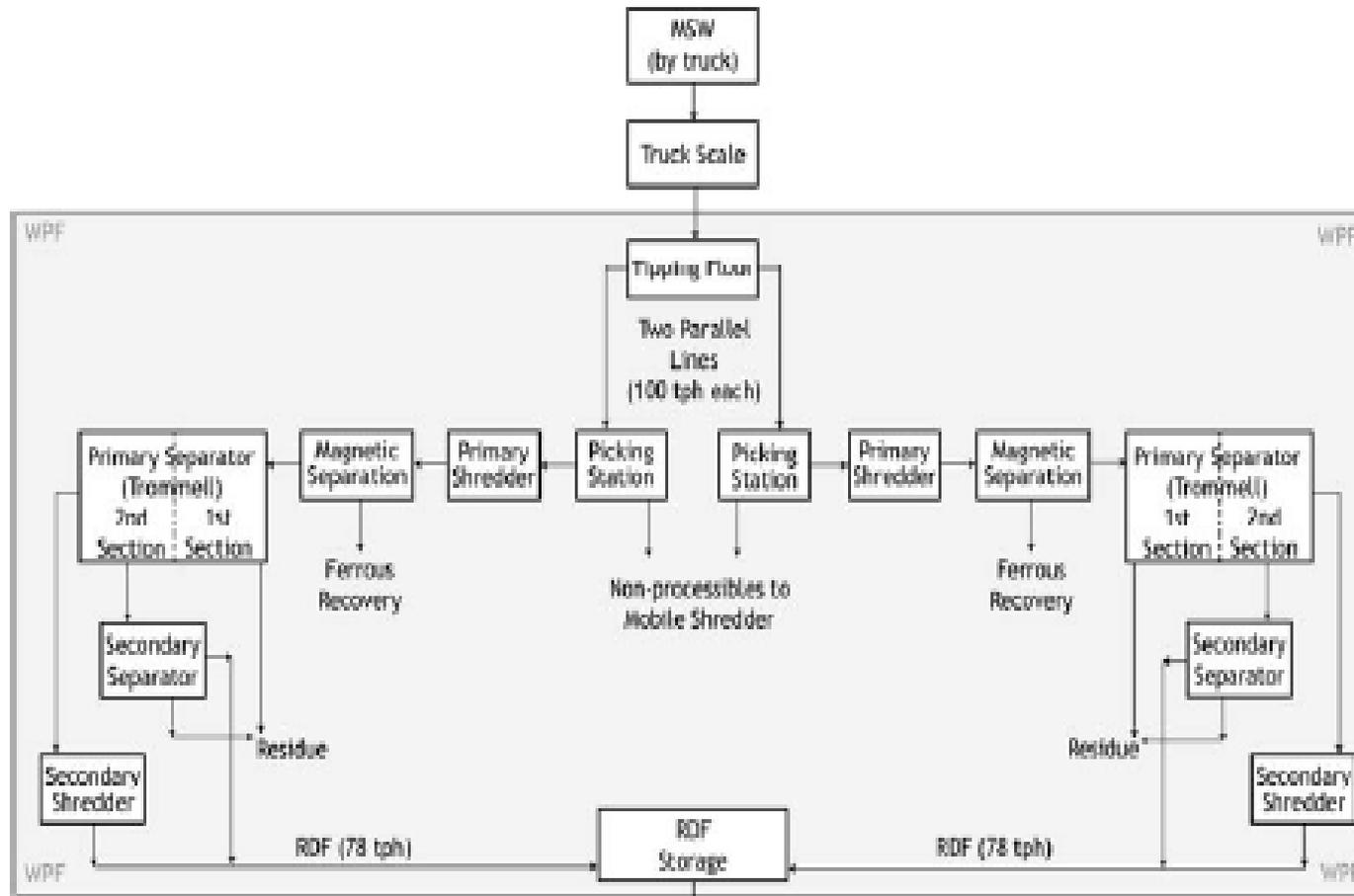
Mid-Connecticut Project Trash-to-Energy Facility



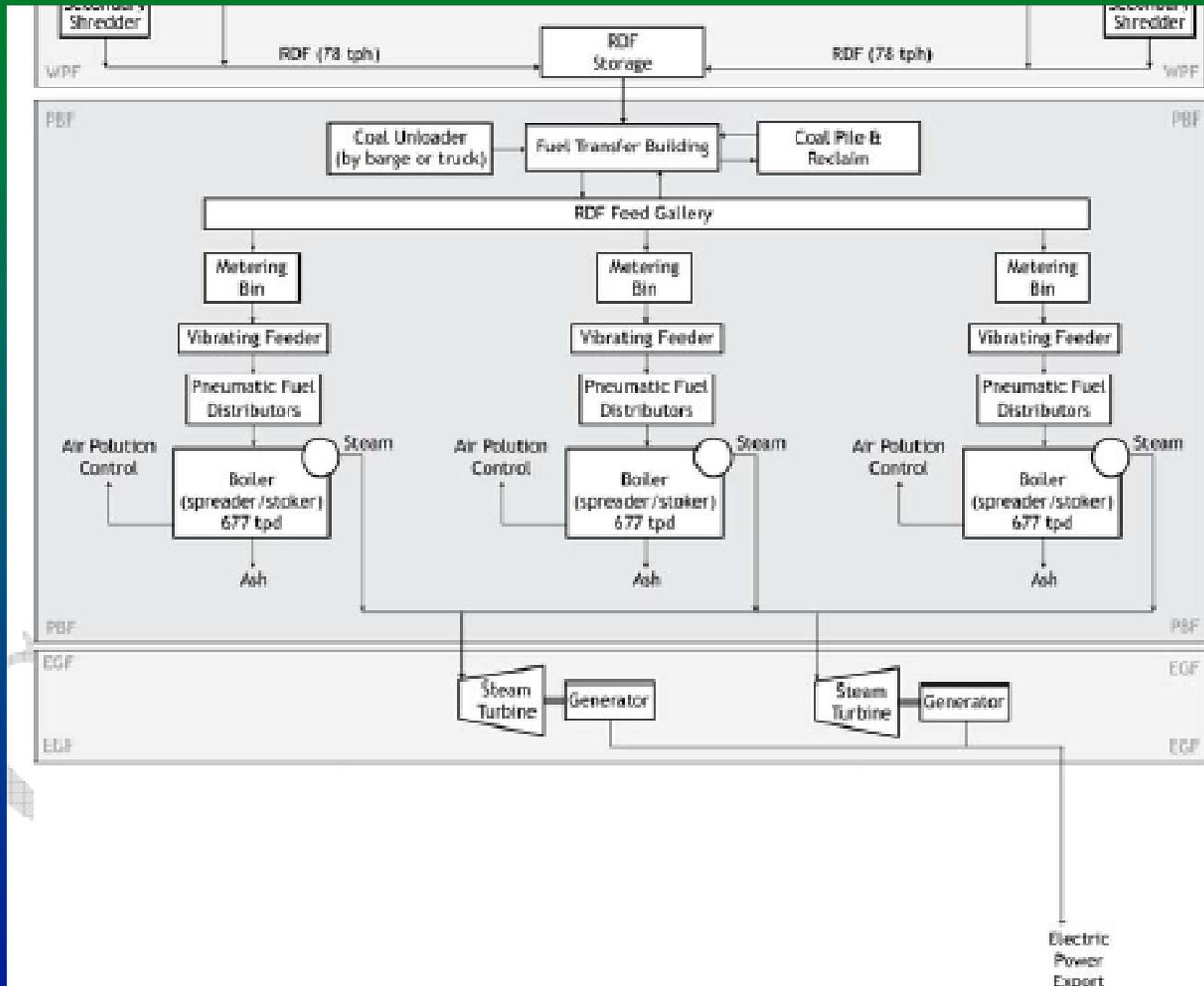
CRRRA Mid-Connecticut Project Special Committee
January 27, 2010



Trash-to-Energy Process



Trash-to-Energy Process



CRRA Mid-Connecticut Project Special Committee
January 27, 2010



PBF Control Room

- CRRA spent more than \$2 million replacing WPF controls with modern systems in 2009.



PBF Control Room



CRRA Mid-Connecticut Project Special Committee
January 27, 2010



PBF Control Room



CRRA Mid-Connecticut Project Special Committee
January 27, 2010



PBF Control Room



CRRA Mid-Connecticut Project Special Committee
January 27, 2010



Shredder Rotor Containment Casing

- In the last four years, CRRRA has spent more than \$1.8 million upgrading shredder rotors and refurbishing shredder containment casings.



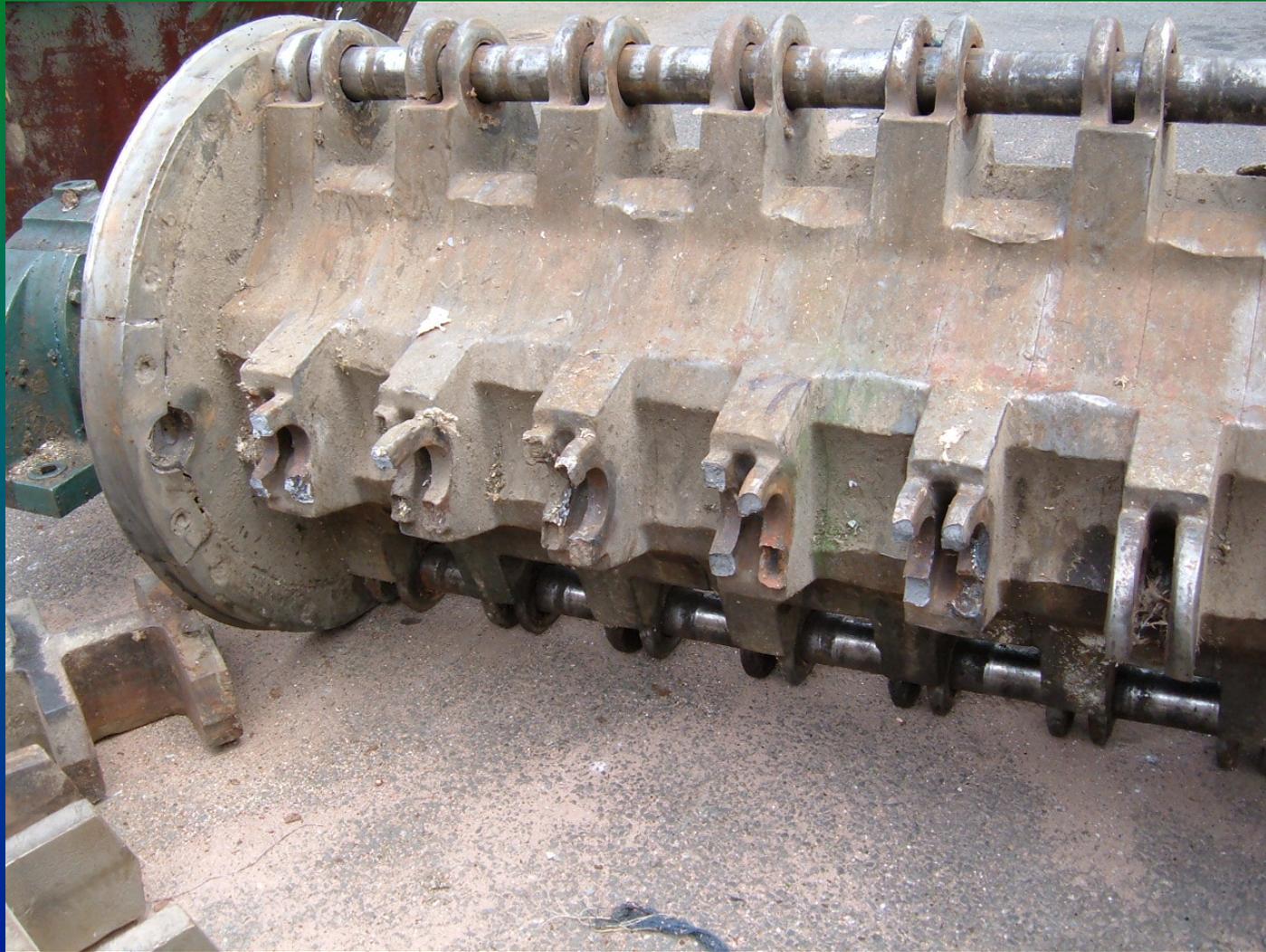
Shredder Rotor Containment Casing



CRRA Mid-Connecticut Project Special Committee
January 27, 2010



Shredder Rotor Containment Casing



CRRRA Mid-Connecticut Project Special Committee
January 27, 2010



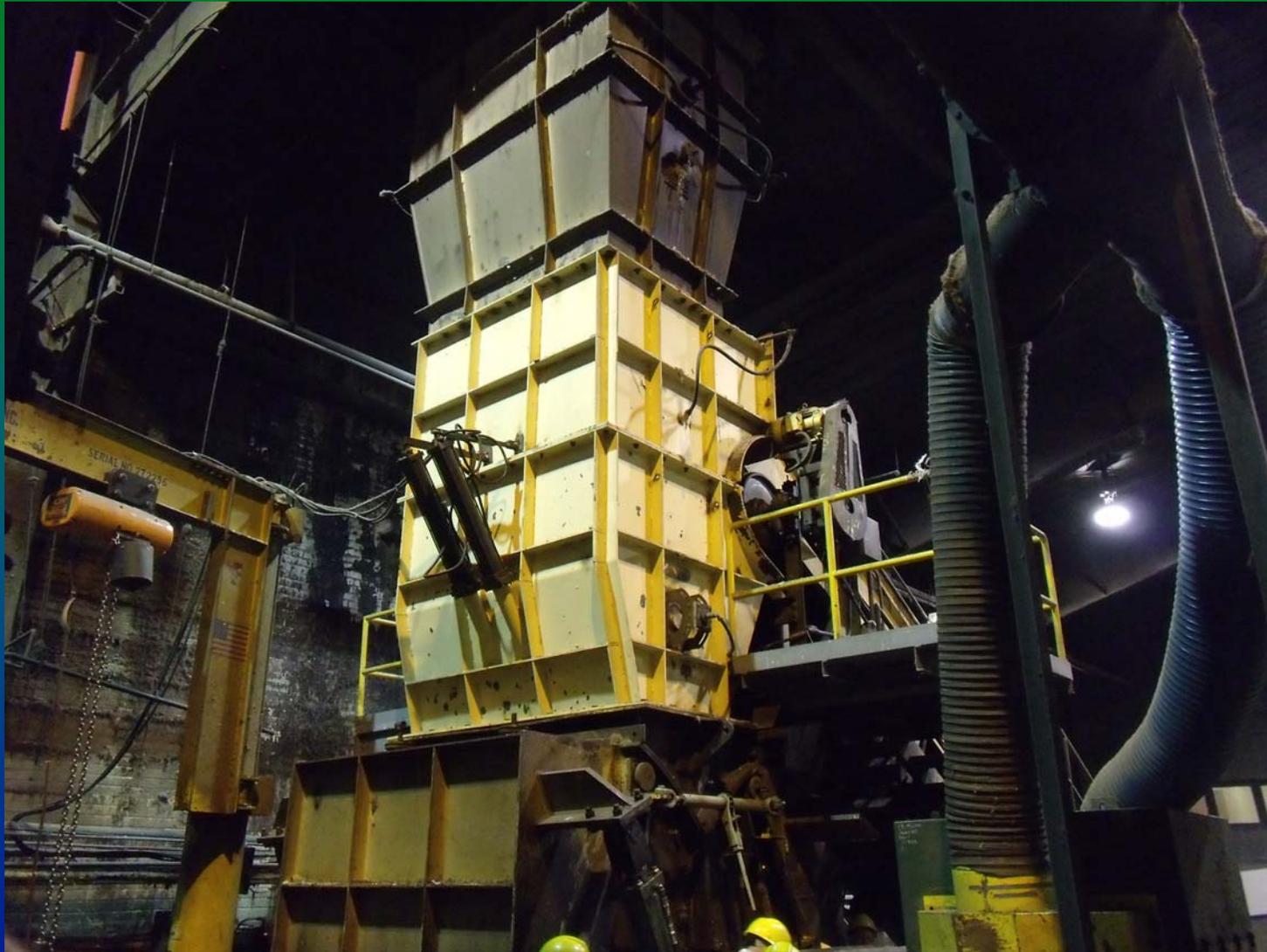
Shredder Rotor Containment Casing



CRRRA Mid-Connecticut Project Special Committee
January 27, 2010



Shredder Rotor Containment Casing



CRRRA Mid-Connecticut Project Special Committee
January 27, 2010



Shredder Rotor Containment Casing



CRRRA Mid-Connecticut Project Special Committee
January 27, 2010



PBF Boiler Tubes

- CRRA is investing more than \$1.2 million in boiler tubes this year to increase boiler availability.



PBF Boiler Tubes



CRRA Mid-Connecticut Project Special Committee
January 27, 2010



PBF Boiler Tubes



CRRRA Mid-Connecticut Project Special Committee
January 27, 2010



PBF Boiler Tubes



CRRRA Mid-Connecticut Project Special Committee
January 27, 2010



PBF Boiler Tubes



CRRRA Mid-Connecticut Project Special Committee
January 27, 2010



WPF Control Room

- Replacing WPF controls with modern systems in 2008 cost over \$800,000.



WPF Control Room



CRRA Mid-Connecticut Project Special Committee
January 27, 2010



WPF Control Room



CRRA Mid-Connecticut Project Special Committee
January 27, 2010

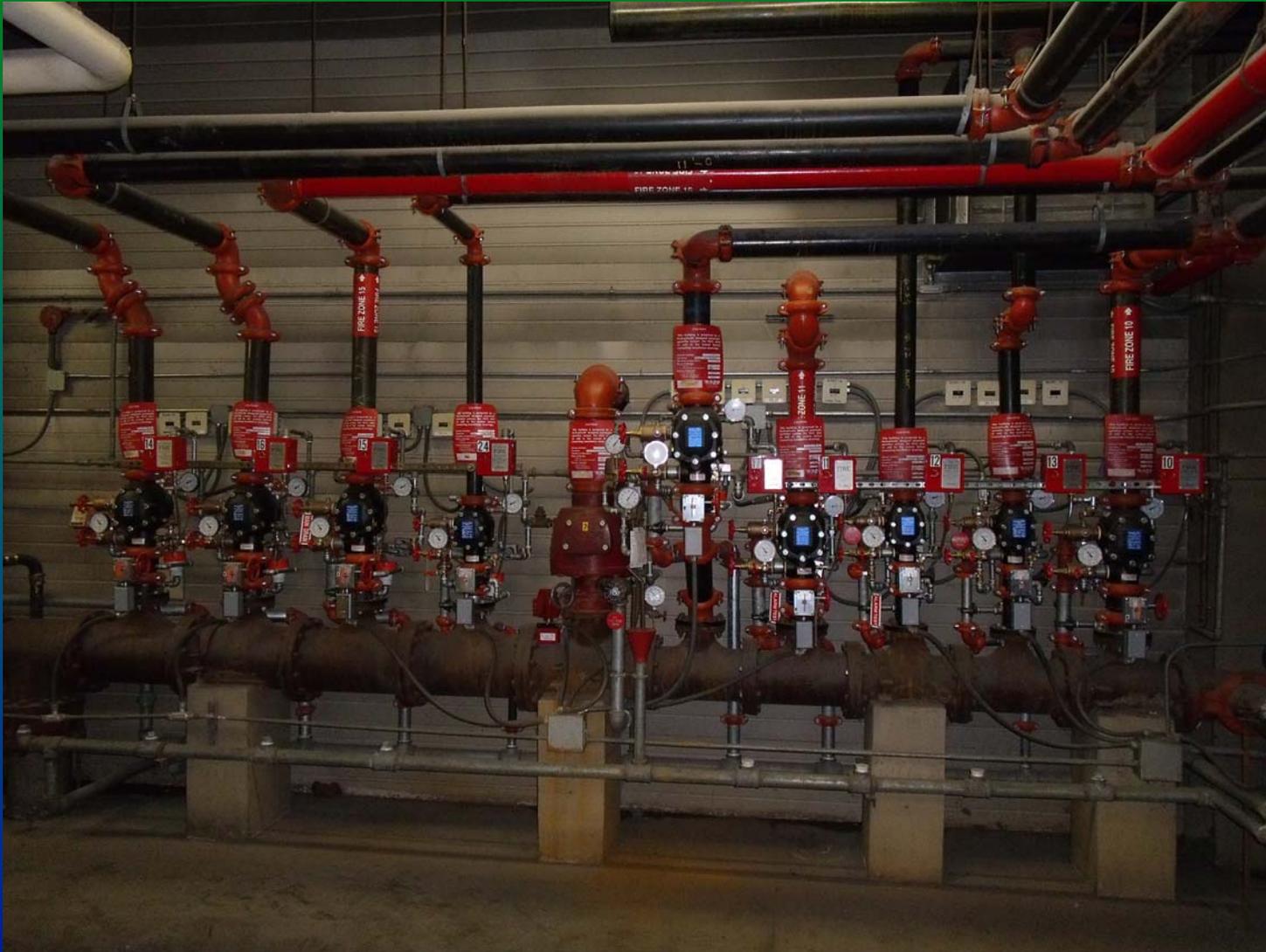


WPF Fire Suppression System

- In the last four years, CRRA has spent more than \$500,000 to upgrade the fire suppression system.



WPF Fire Suppression System



CRRA Mid-Connecticut Project Special Committee
January 27, 2010



PBF Ash Load-Out Building

- To accommodate larger truck trailers needed to transport ash long distances, in 2008 CRRA expanded the ash load-out building and added another scale at a cost of \$1.9 million.



PBF Ash Load-Out Building



CRRA Mid-Connecticut Project Special Committee
January 27, 2010



PBF Ash Load-Out Building



CRRRA Mid-Connecticut Project Special Committee
January 27, 2010



MCAPS Free-Blow System

- The free-blow system was installed in 2005 at a cost of \$750,000. It has reduced CRRA's operating costs by as much as \$600,000 per year.



MCAPS Free-Blow System



CRRA Mid-Connecticut Project Special Committee
January 27, 2010



MCAPS Free-Blow System



CRRA Mid-Connecticut Project Special Committee
January 27, 2010



Mobile Bulky Waste Shredder

- CRRA purchased a \$750,000 shredder to accept the bulky waste that had been placed in the Hartford landfill prior to its closing on December 31, 2008.



Mobile Bulky Waste Shredder



CRRRA Mid-Connecticut Project Special Committee
January 27, 2010



WPF Belt Conveyor

- In the last four years, CRRA has spent more than \$2 million upgrading belt conveyors and sealing systems to reduce spillage.



WPF Belt Conveyor



CRRRA Mid-Connecticut Project Special Committee
January 27, 2010



WPF Belt Conveyor



CRRRA Mid-Connecticut Project Special Committee
January 27, 2010



WPF Belt Conveyor



CRRRA Mid-Connecticut Project Special Committee
January 27, 2010



WPF Belt Conveyor



CRRA Mid-Connecticut Project Special Committee
January 27, 2010



WPF Belt Conveyor



CRRA Mid-Connecticut Project Special Committee
January 27, 2010



WPF Belt Conveyor



CRRA Mid-Connecticut Project Special Committee
January 27, 2010



WPF Belt Conveyor



CRRA Mid-Connecticut Project Special Committee
January 27, 2010



WPF Belt Conveyor



CRRA Mid-Connecticut Project Special Committee
January 27, 2010



WPF Steel Pan Conveyor

- In the last four years, CRRA has spent more than \$1.5 million refurbishing steel pan conveyors.



WPF Steel Pan Conveyor



CRRRA Mid-Connecticut Project Special Committee
January 27, 2010



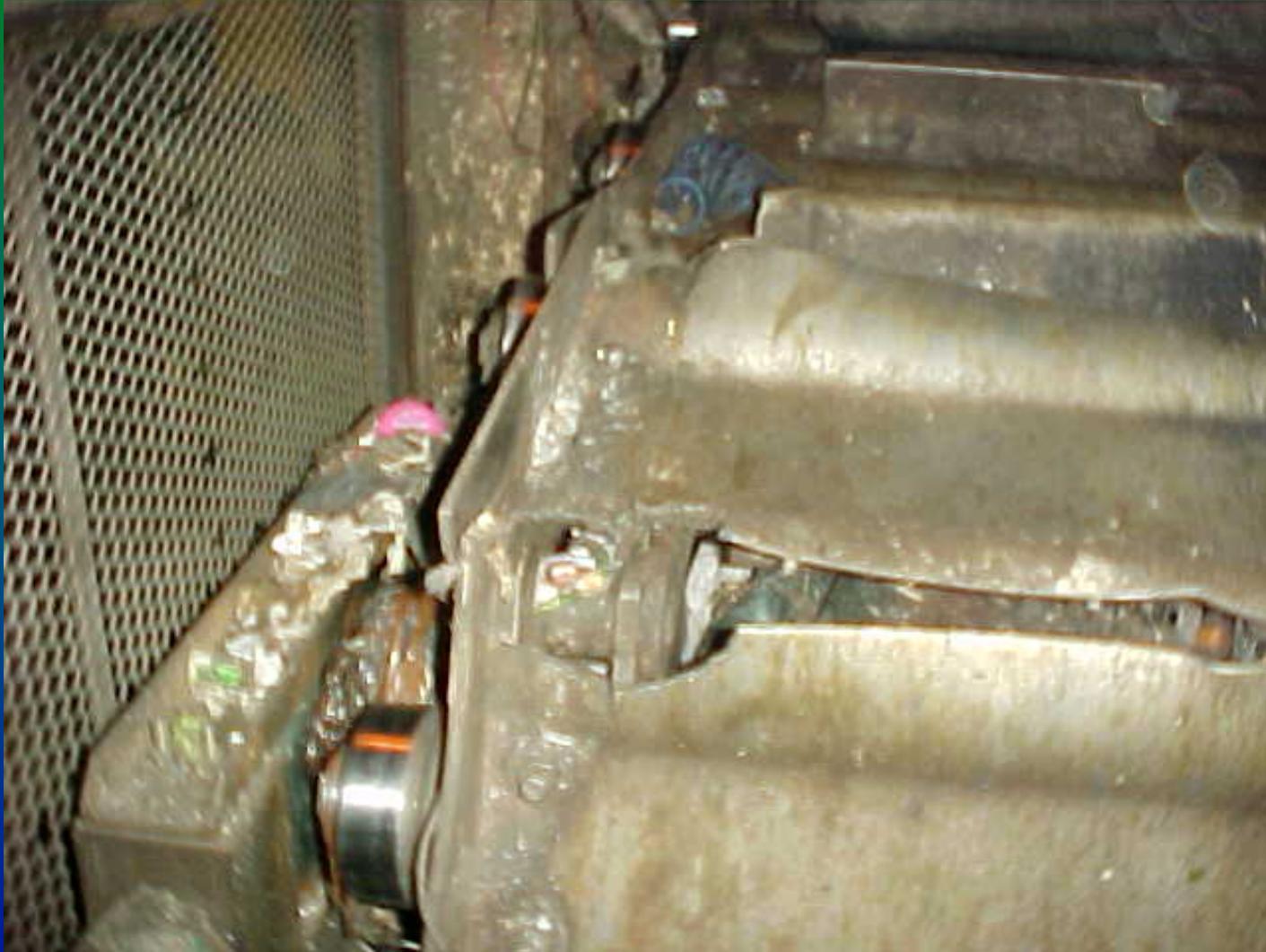
WPF Steel Pan Conveyor



CRRA Mid-Connecticut Project Special Committee
January 27, 2010



WPF Steel Pan Conveyor



CRRRA Mid-Connecticut Project Special Committee
January 27, 2010



WPF Steel Pan Conveyor



CRRA Mid-Connecticut Project Special Committee
January 27, 2010



WPF Steel Pan Conveyor



CRRA Mid-Connecticut Project Special Committee
January 27, 2010



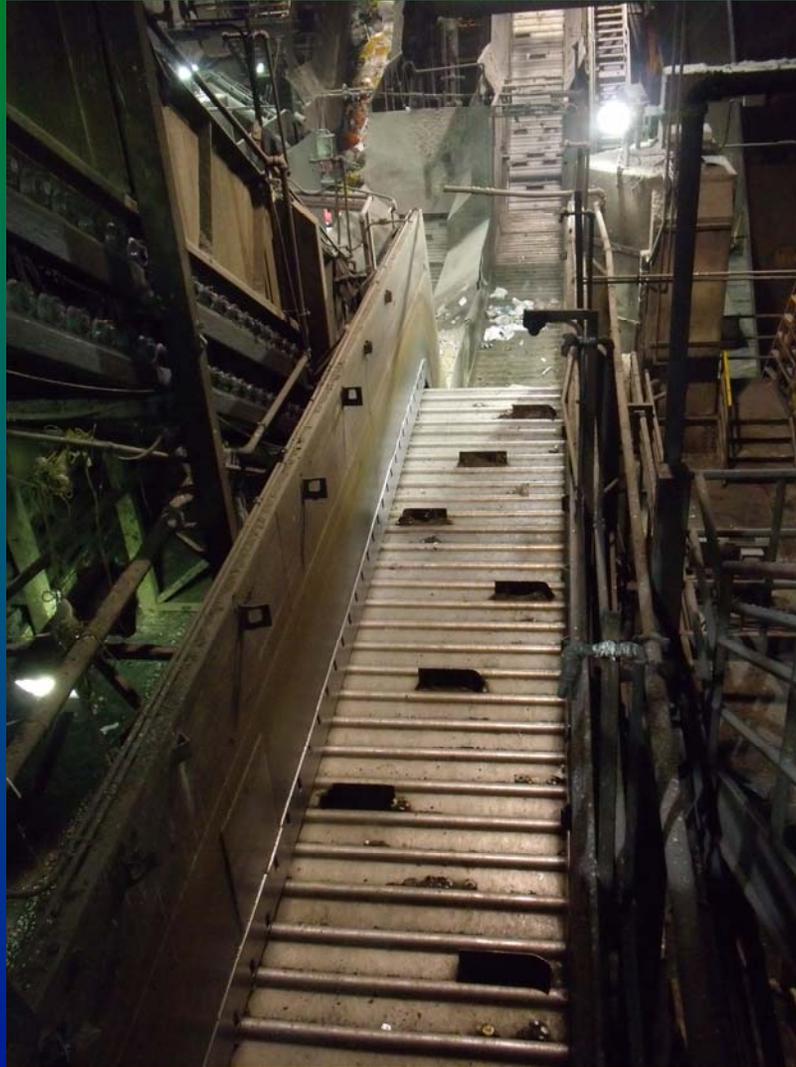
WPF Steel Pan Conveyor



CRRA Mid-Connecticut Project Special Committee
January 27, 2010



WPF Steel Pan Conveyor



CRRRA Mid-Connecticut Project Special Committee
January 27, 2010



PBF Turbine Rotor

- Replacing turbine rotor diaphragms cost over \$850,000 in 2008.



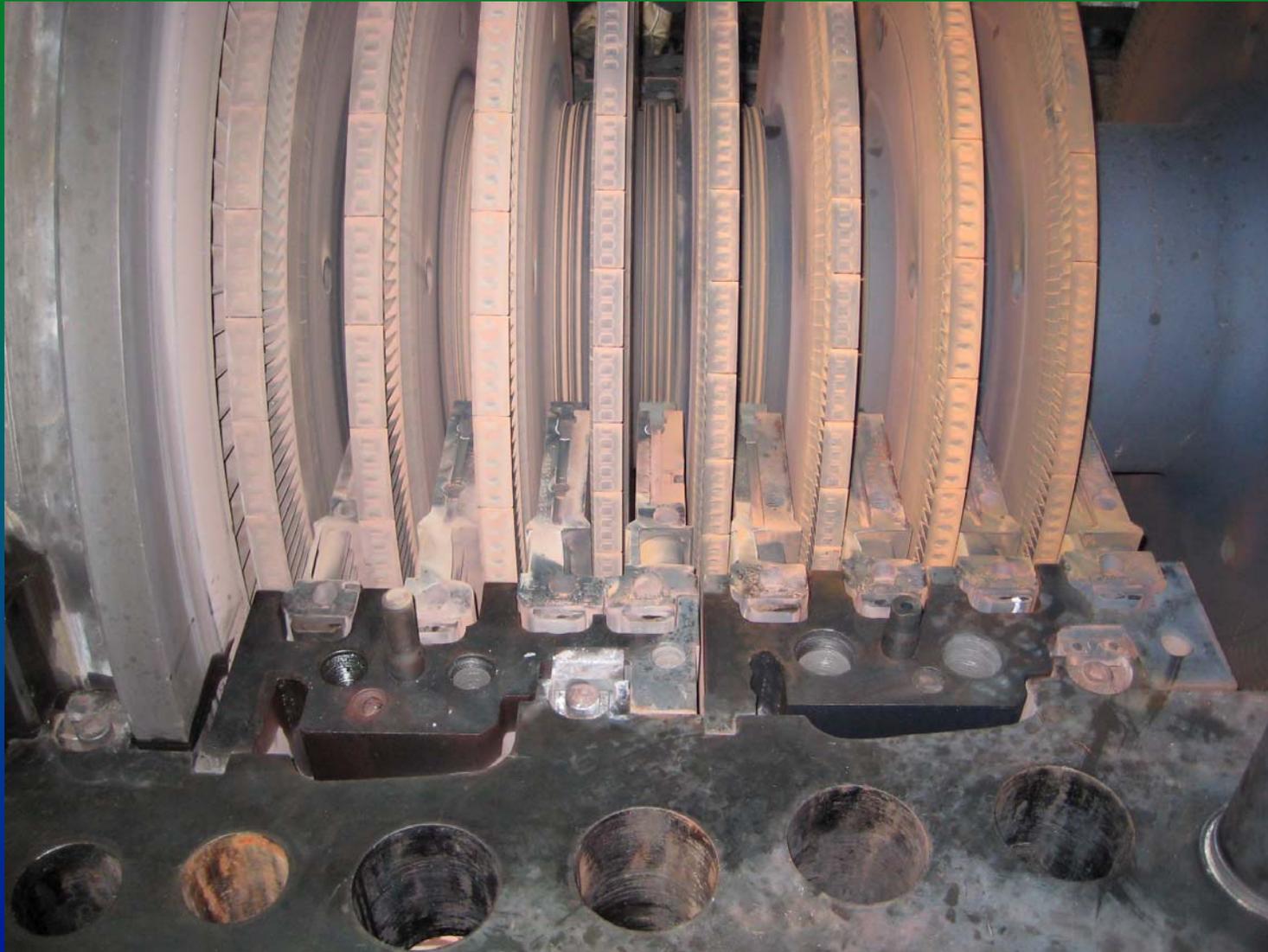
PBF Turbine Rotor



CRRA Mid-Connecticut Project Special Committee
January 27, 2010



PBF Turbine Rotor



CRRRA Mid-Connecticut Project Special Committee
January 27, 2010



PBF Turbine Rotor



CRRA Mid-Connecticut Project Special Committee
January 27, 2010



PBF Turbine Rotor



CRRA Mid-Connecticut Project Special Committee
January 27, 2010



WPF Compressors

- In 2009, CRRA spent over \$750,000 to replace 20-year-old compressors.



WPF Compressors



CRRRA Mid-Connecticut Project Special Committee
January 27, 2010

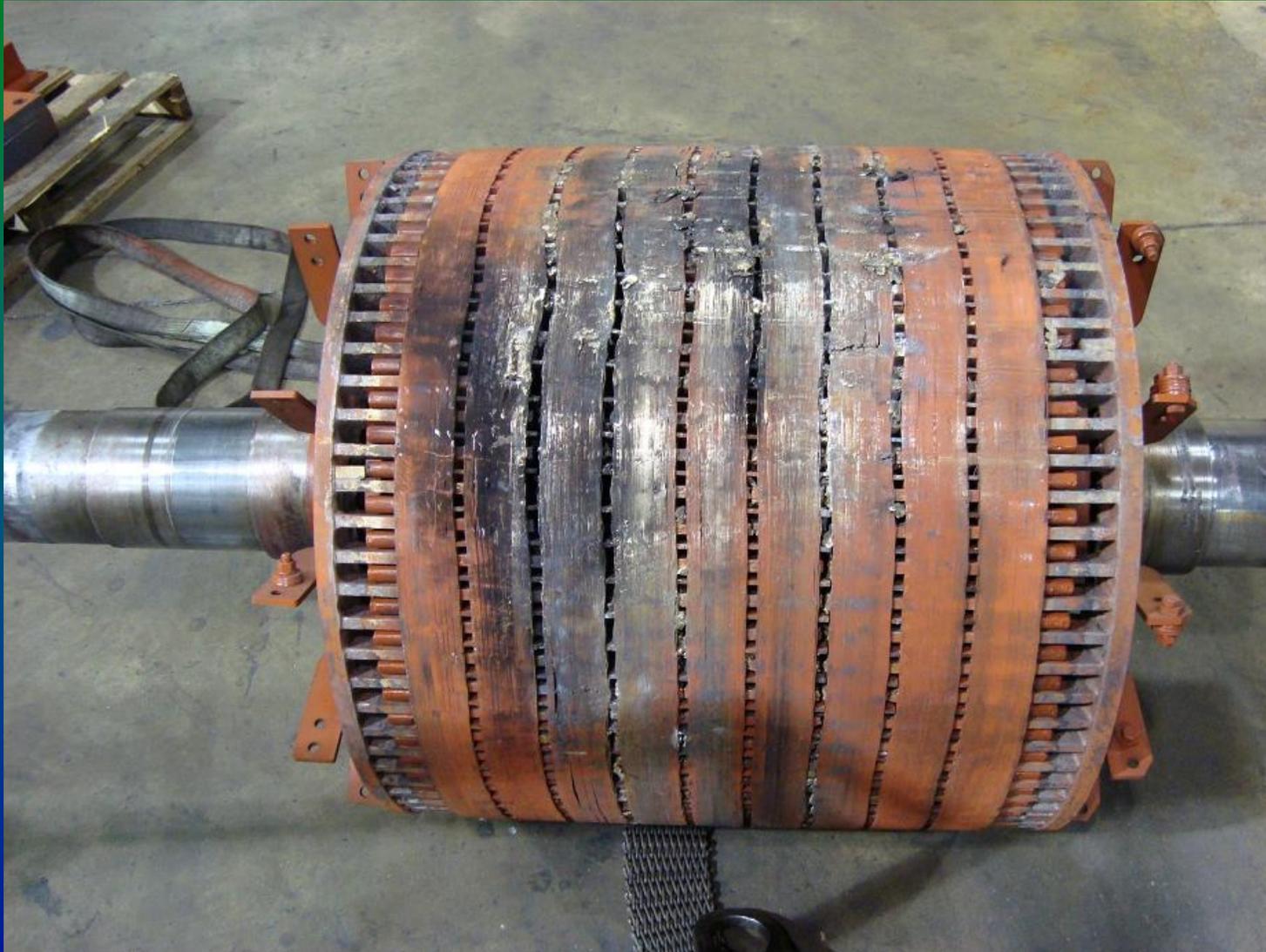


Spare WPF Shredder Motors

- In the last four years, CRRA has spent more than \$600,000 to purchase spare shredder motors, speeding maintenance and increasing WPF availability.



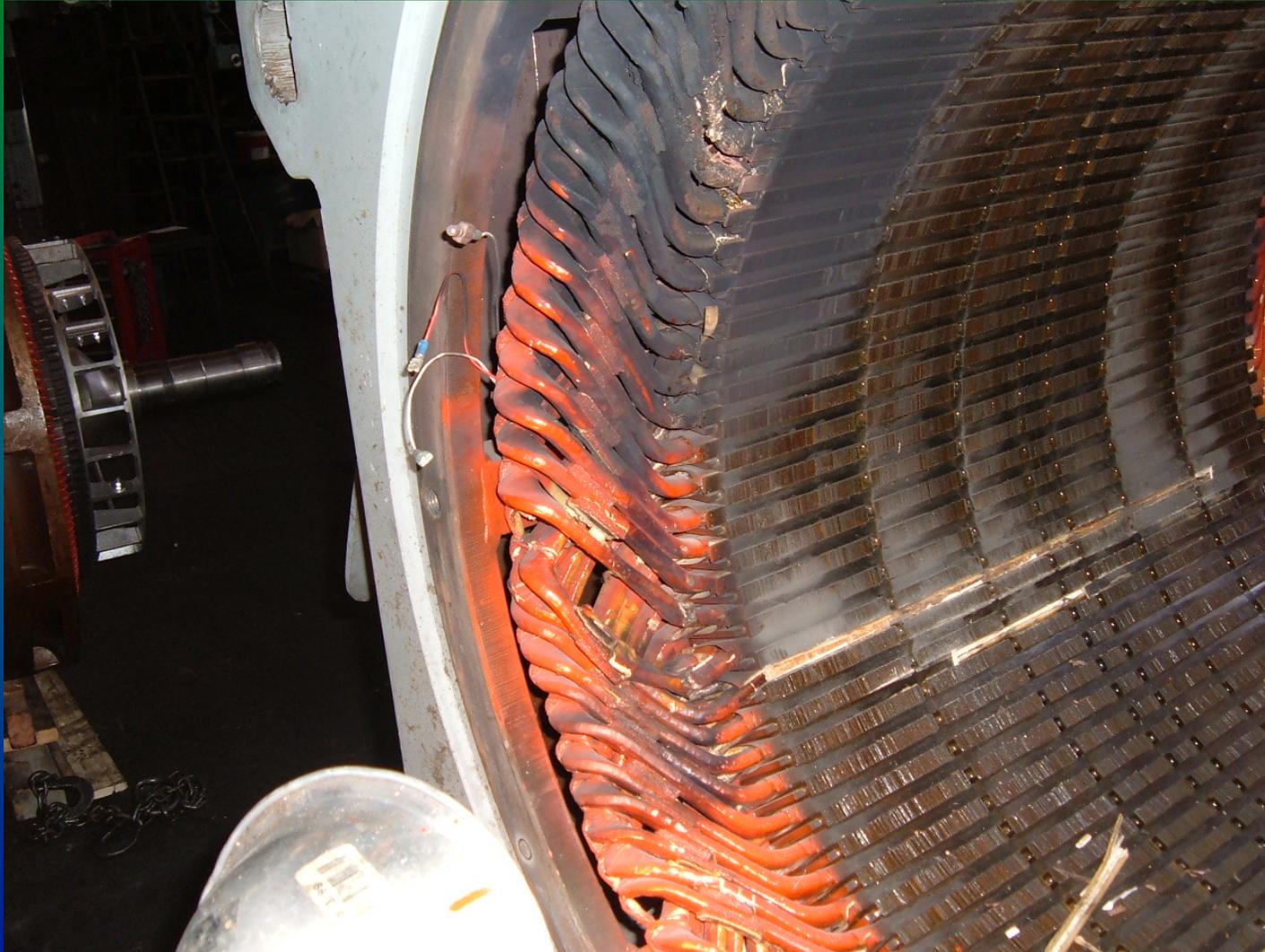
Spare WPF Shredder Motors



CRRA Mid-Connecticut Project Special Committee
January 27, 2010



Spare WPF Shredder Motors



CRRRA Mid-Connecticut Project Special Committee
January 27, 2010



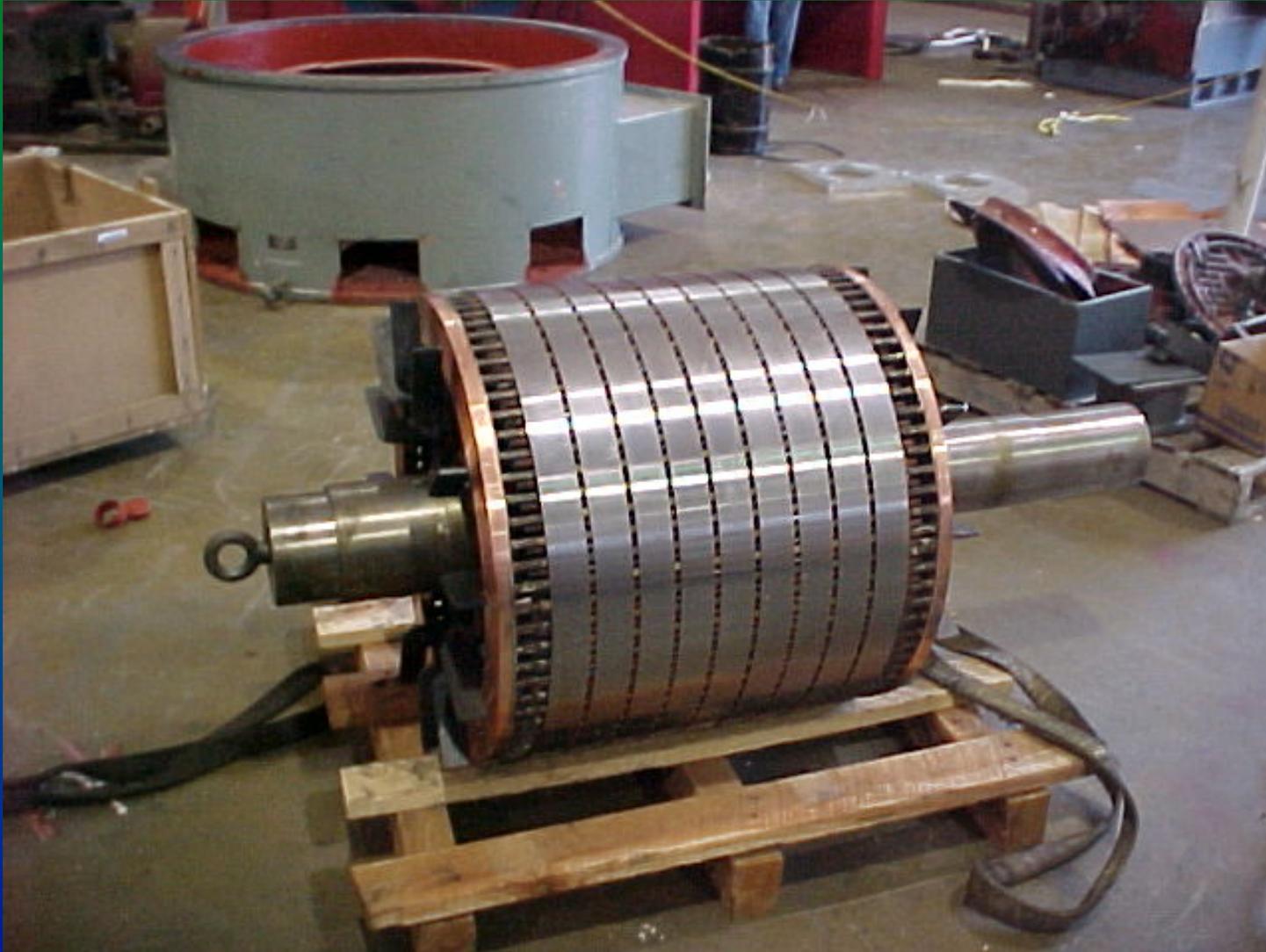
Spare WPF Shredder Motors



CRRRA Mid-Connecticut Project Special Committee
January 27, 2010



Spare WPF Shredder Motors



CRRRA Mid-Connecticut Project Special Committee
January 27, 2010



WPF Mobile Equipment

- CRRA has spent more than \$2 million on new heavy equipment in the last four years.



WPF Mobile Equipment



CRRRA Mid-Connecticut Project Special Committee
January 27, 2010



WPF Mobile Equipment



CRRA Mid-Connecticut Project Special Committee
January 27, 2010



WPF Processing Floor

- In the last four years, CRRA has spent more than \$1.5 million on WPF processing floor repairs and resurfacing.



WPF Processing Floor



CRRA Mid-Connecticut Project Special Committee
January 27, 2010



WPF Processing Floor



CRRA Mid-Connecticut Project Special Committee
January 27, 2010



WPF Processing Floor



CRRA Mid-Connecticut Project Special Committee
January 27, 2010



Your Questions

CRRRA Mid-Connecticut Project Special Committee
January 27, 2010

