

# Contract Communication Collaboration

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# Lee County Resource Recovery Facility





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# Lee County Integrated Waste System

- 1994 ▶ Resource Recovery Campus Opens with  
Waste-to-Energy plant 1,200 tpd  
Scale House
- 2000 ▶ Material Recovery Facility
- 2003 ▶ Transfer Station  
▶ Yard Waste processing
- 2007 ▶ Waste-to-Energy plant expands 1,836 tpd
- 2010 ▶ Fleet Maintenance Facility
- 2011 ▶ C & D Recycling Facility

# Oversight

LCSW contracts with an engineering firm to oversee plant operations, track data, monitor compliance issues pertaining to contract

- Frequent contact with LCSW management
- Population growth and waste generation 1994-2004
- Plant was at capacity and aging, plant availability was decreasing
- A need for standards of maintenance was identified

# Plant Availability 1994 - 2018

New maintenance standards go into effect when third unit is placed in service.



# 2007 Changes

LCSW created permanent oversight position at WTE

Daily routines include the following:

- Inspection of the facility
- Open discussions with plant management
- Outage planning (mini and major)
- Special projects
- Boiler availability
- Maintenance & Housekeeping Issues

# 2007 New Approach

Issues concerning MSW intake and processing:

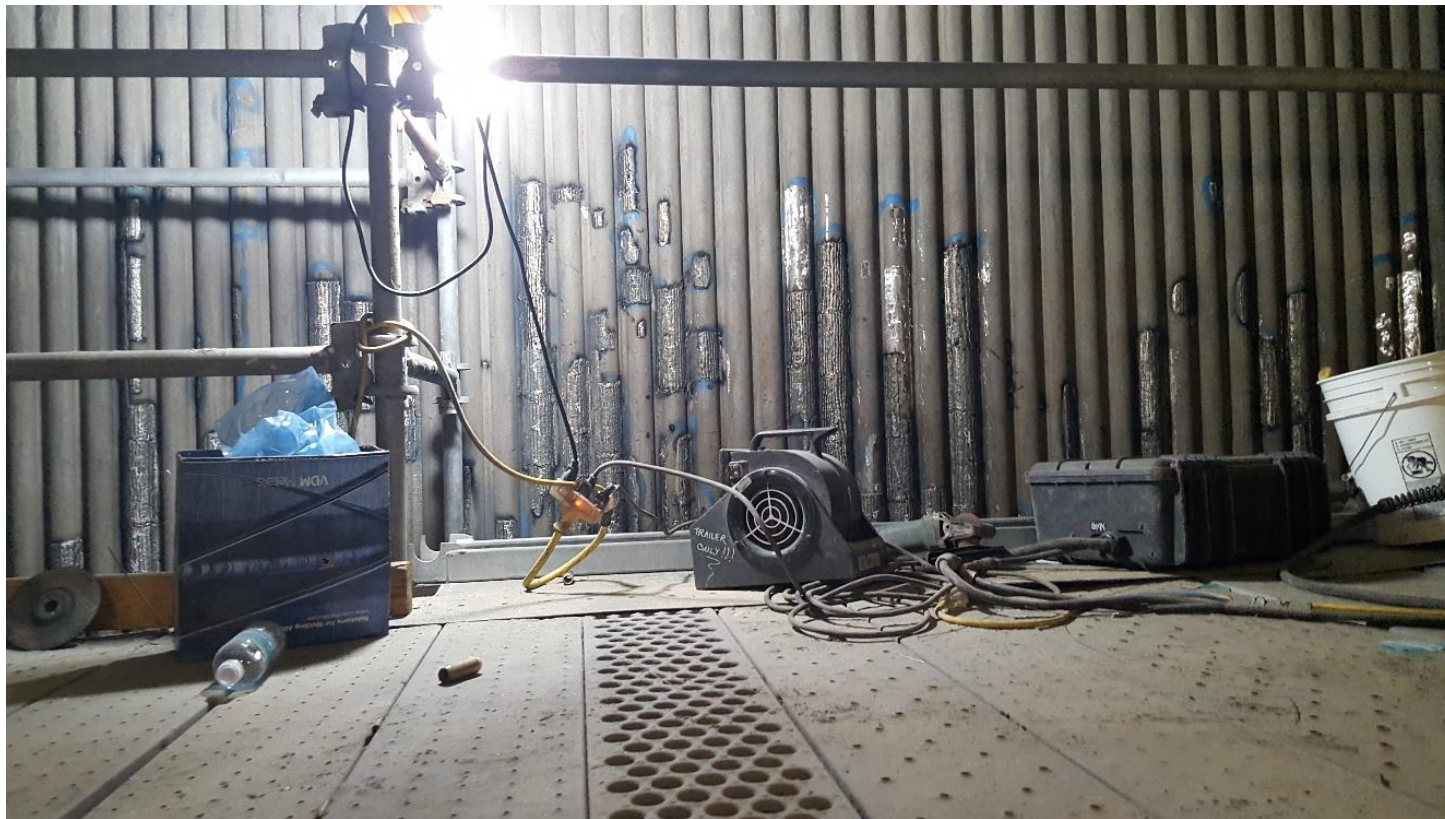
- Cranes
- Parts
- Pit inventory
- Tipping floor capacity and condition
- Ash hauling
- Metals



# Boiler Walk-thru (furnace water walls)



# Boiler Walk-thru (water wall repairs)





## Boiler Walk-thru (boiler roof)

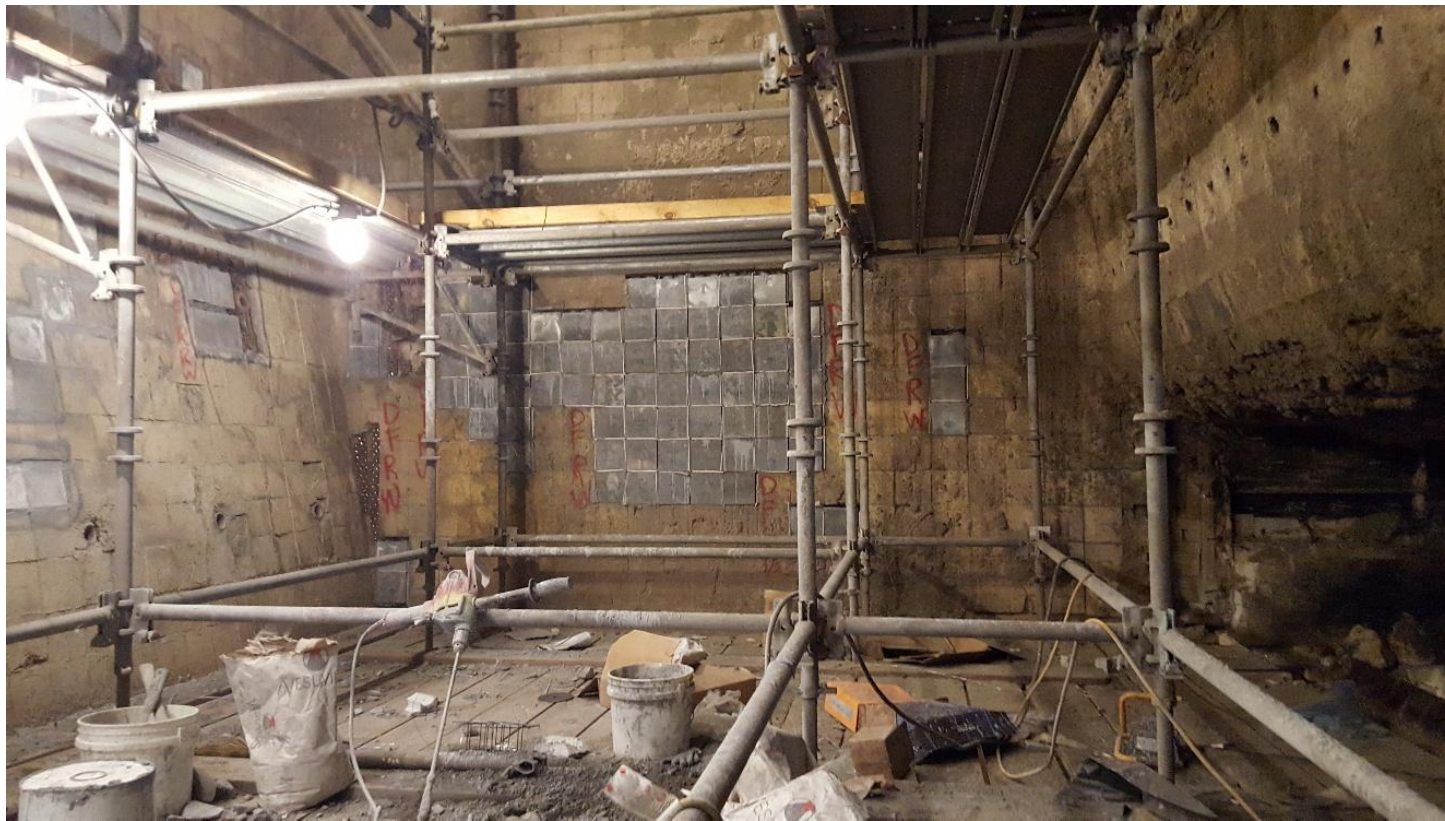


# Boiler Walk-thru (feed chute and feed rams)





# Boiler walk-thru (back cast tiles vs spray refractory)





# Superheater Tubes out for replacement



# New superheater tubes overlayed with Inconel

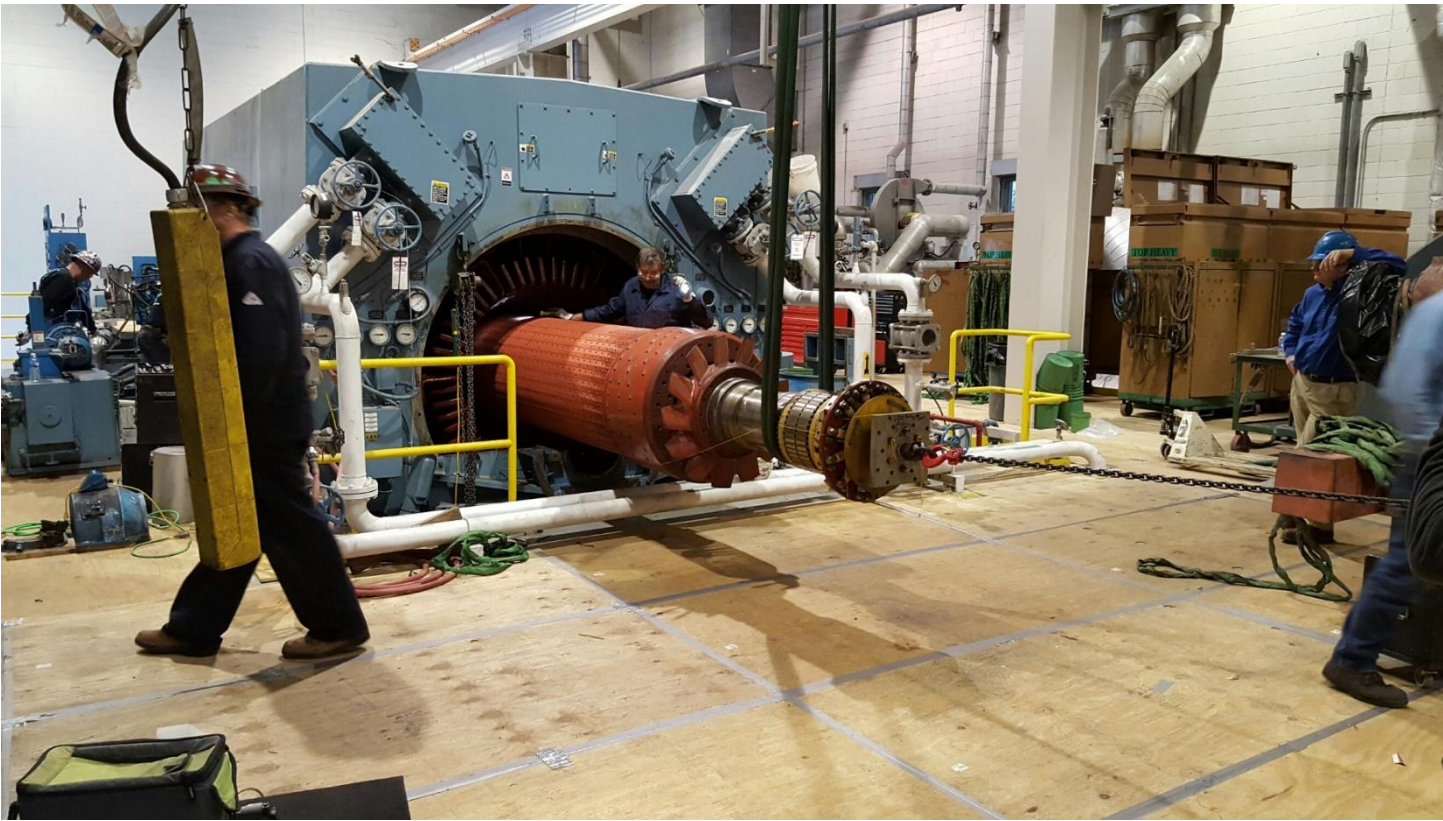




# New waterwall tubes with spiral wound Inconel overlay

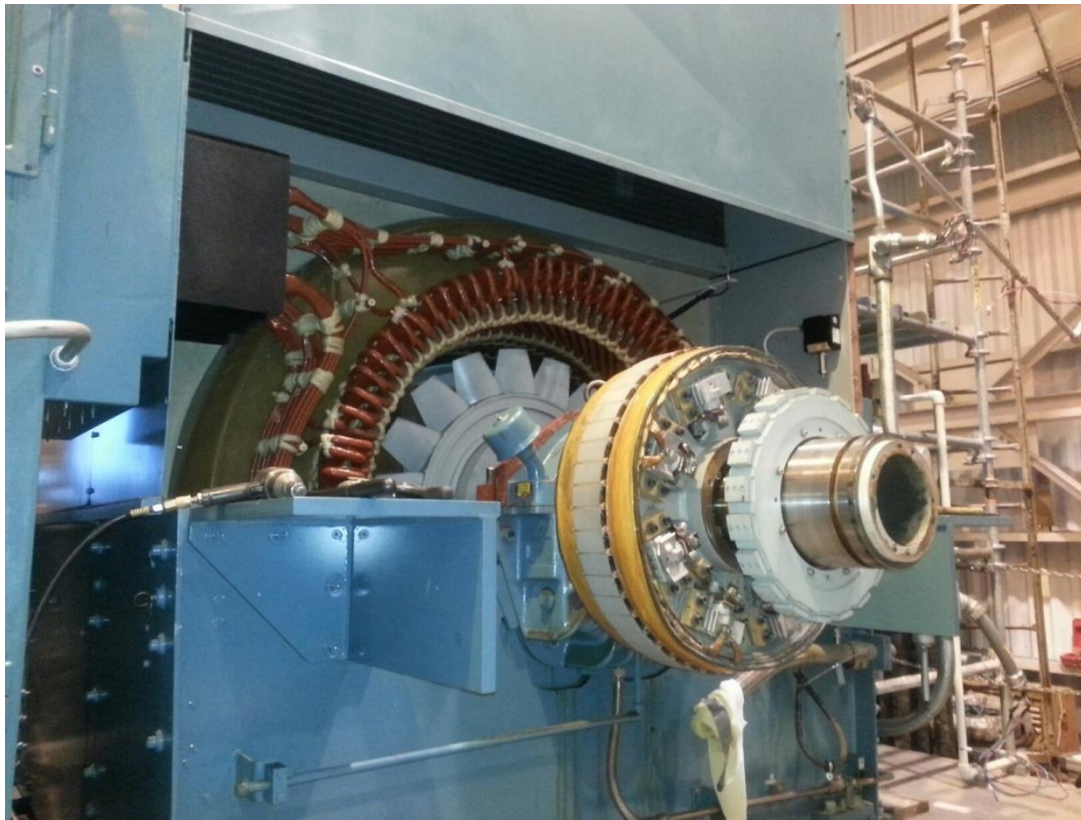


# Generator overhaul every 7 years





# Turbine generator overhaul

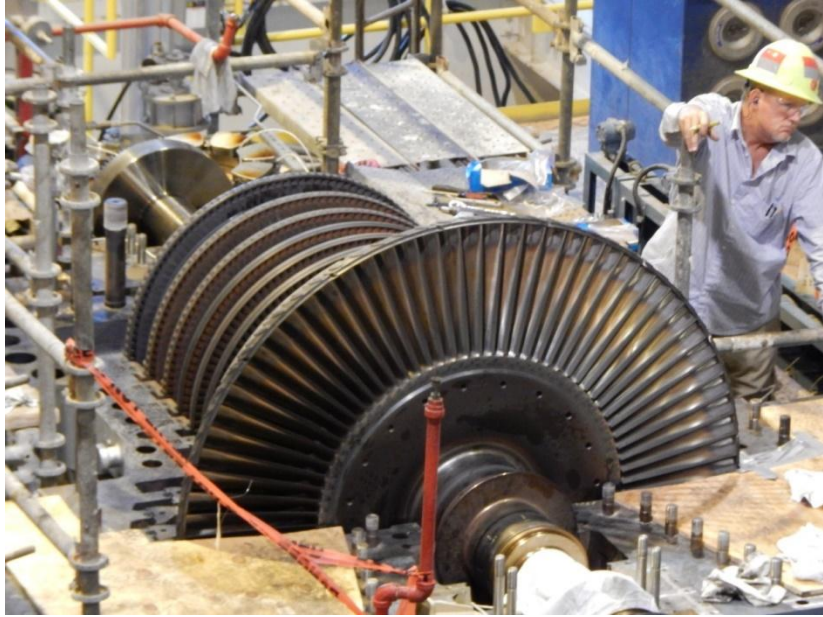




# Turbine rotor



# Turbine rotor

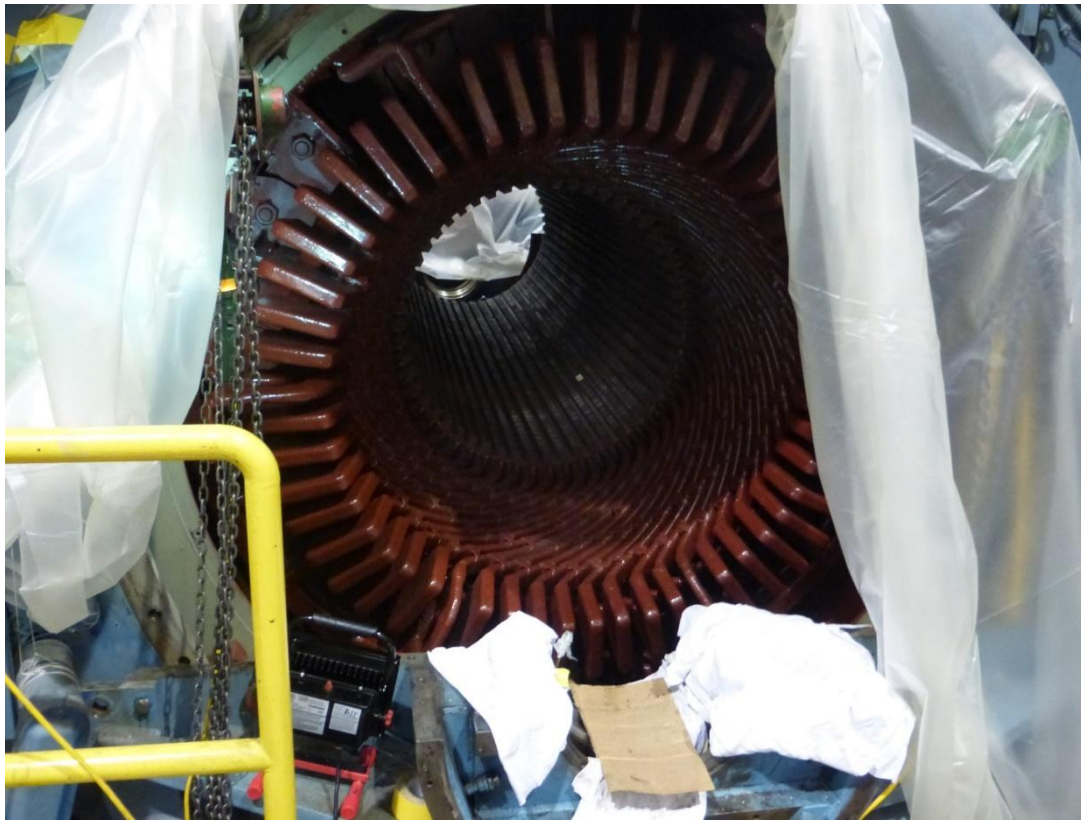




# Generator overhaul



# Generator Internals



# Working as a Team

## Formal monthly meetings

- Plant Operator
- Contracted Engineering Firm
- Lee County Staff and Management

## Formal monthly punch list walk down

- Operations review
- Future plans and projects



# Daily Items of discussion

- ▶ Safety issues
- ▶ Hauler safety staff site visits and observations
- ▶ Staffing
- ▶ Equipment requirements
- ▶ Vendors/Contractors
- ▶ Special guests/ VIPs
- ▶ Scheduled Tours
- ▶ Media Relations
- ▶ Training Sessions
- ▶ Special Events
- ▶ Hauler Appreciation Events

# Collaboration Culture

- ▶ Open communication with contractors
- ▶ LCSW staff meets daily/weekly to share information pertaining to operations
- ▶ Senior management team is kept informed of current issues
- ▶ Adapted to a pro-active approach in order to prevent disruptive events
- ▶ We strive to deliver excellent customer service to approximately 1,000 customers per day
- ▶ Provide a safe disposal environment for all customers, employees and visitors

# Incident Collaboration Scenarios

- ▶ WTE tipping floor incident -
  - ▶ Divert to transfer station?
  - ▶ Return at later time?
  - ▶ Ship to Lee Hendry Landfill?
- ▶ MRF tipping floor capacity issue -
  - ▶ Divert to north end of WTE tipping floor?
  - ▶ Divert to transfer station, return waste via transfer truck at later time?
- ▶ Ferrous/NonFe capacity issues -
  - ▶ Divert to transfer station?
  - ▶ Provide roll off containers?
  - ▶ Transfer to landfill for storage, metals returned to facility at later time?
- ▶ Yard waste processing or capacity issues -
  - ▶ Transfer station or WTE?

Hurricane Irma Sept 10, 2017  
Cooling Tower contractors were staged a day  
away in preparation for storm





# Immediate clean-up conducted by LCSW & Plant employees





# Residue Building Damage

## Cleanliness of roadways & grounds



# WTE Roof Total Loss temporary membrane installed within days



# Contact Information



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