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
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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