Reedy Creek Energy Services
Reliable Magic
Diversified Utility Services

- Electrical
- Natural Gas
- Water
- Chilled Water
- Hot Water
- Water Control
- Waste Water Treatment
- Solid Waste or Recycle
Service Area

- 38 square miles
Reedy Creek Energy Services

Contractor to the Reedy Creek Improvement District

Walt Disney World

Reedy Creek Improvement District

Reedy Creek Energy Services
Unique in Utility Industry

MISSION

- Invisible
- Close to Customers
- Highest Reliability
Unique in Utility Industry

- Operate 7 days, 24 hours
- Workforce: 320 skilled, well-trained people
- Strict regulatory environment
Drinking Water

- Supplied from 12 wells on property - Floridan Aquifer
  - Excellent water quality
    - Chlorination only
  - 68% of water returns as sewage to wastewater treatment facility
Wastewater Treatment

- 15 MGD annual average daily flow
  - 100% of treated wastewater becomes reclaimed (reuse) water
  - Solid residuals dewatered and composted
Reuse/Reclaimed Water

- Irrigation
- Cooling Towers
- Vehicle Washing

Storage Tanks (15 million gallons)
Solid Waste Services

- Fleet of 24 trucks
  - 24 hours/day, 7 days/week
Solid Waste Services

- Collect 133,000 tons annually for disposal & recycling
  - 11,000 tons recycled
  - 2850 tons wood and yard waste chipped for blending in compost
- In-vessel Food composting facility
Chilled Water

- Meet air conditioning demands
- Manage chiller plants
- 40,000 Ton Capacity
High Temperature Hot Water

- Average temperature of 350°F
- Provided to Magic Kingdom and resort hotels
  - Building heat
  - Domestic hot water
  - Chilled water production
Other Services

- Water Control - Drainage
- Canal System Maintenance
- Roadways & Signs
Natural Gas Distribution

- Primary fuel for Co-generation plant
- Heating
- Cooking
- Auxiliary boilers
- Swimming pools
Electric Generation & Distribution

- Purchase about 75% of power needs
- 196 MW peak load
- Remaining 25% of power needs (52.5 MW)
  Combined cycle co-generation plant
Electric Generation & Distribution

- 25 miles of 69 kV lines
  - 14 miles underground
  - Aesthetics, security, reliability
- 290 miles of underground 12 kV feeders
Electric Distribution

- Nine 69 kV substations
Electric Distribution

- Energy Control Center

24 hour coverage
Distribution Switchgear

- Metal Enclosed Switchgear
  - Switching Stations
  - Unit Substations
Distribution Switchgear

- 15 kV Metal Clad Switchgear
  - Arc-resistant
  - OSHA 1910.269
  - IEEE C37.20.7
Distribution Switchgear

- Special Cases
  - Simple Switching Points
  - Gas Insulated with Fault Interrupters
Distribution Switchgear

- Special Cases
  - Mixed Gear
Reliability That Never Stops

- Main Street USA
Low-Voltage Switchgear

- Unit Substations
  - Epcot Energy & Wonder
Low-Voltage Switchgear

- Unit Substations
  - Indoor double-ended
Low-Voltage Switchgear

- Outdoor Switchboards
  - Animal Kingdom Conservation Station
Low-Voltage Switchgear

- Motor Control Centers
- Energy Plants
Automation Networking

- System Control
Automation Networking

- Distribution Automation
Automation Networking

- Process Control Systems
- Pump Station B MCC
Reedy Creek Energy Services

Questions?