Summary

- Safety
- Compliance
- Barnwell Disposal Facility (BDF)
  - Disposal Volumes
  - Institutional/Decommissioning Progress
- Barnwell Processing Facility (BPF)
  - Current Business
  - Filter Shredding
- Barnwell Environmental and Dosimetry Laboratory (BEDL)
- Nuclear Services Support Facility (NSSF) and Liner Operations
  - Domestic Operations
  - International Operations
- Hittman Transportation and Cask Logistics
Barnwell Complex
Safety

- **Barnwell Complex**
  - First Aids - Zero
  - Total Recordable Case Rate (TRC) 0.0
  - Day Away, Restricted or Transferred (DART) 0.0
  - Days Away Case (DAC) 0.0

- **National Safety Council**
  - 2011 Perfect Record Award

- **Hittman Trucking**
  - National Private Truck Council – 2011 Awards
    - First Place Regional small trucking firm
    - First Place Regional large trucking firm
  - SaferStats score was .49 accidents per million miles
Compliance

• 43 Years of Uninterrupted Operations
• *EnergySolutions* Operation Assessments/Observations
  – Internal Assessments
  – External Assessments
  – Independent Assessments
  – Management Field Observations
• DHEC Licensing and Oversight
  – Extensive license conditions
  – Inspections
  – On-site inspector
    ▪ Daily shipment inspections
  – Engineers
    ▪ Weekly site inspections
  – Staff
    ▪ Unannounced semi-annual license inspections
      o 2012 – 2 inspections – 0 NOV’s
Blue indicates areas available for future waste disposal. Yellow indicates closed areas.
• 235 Acres Owned by the State of South Carolina
  – EnergySolutions leases the facility from South Carolina Budget and Control Board
  – EnergySolutions operates the disposal facility under SC DHEC Radioactive Material License 097

• Atlantic Compact member
  – Acceptance of Class A/B/C waste shipments 7 days per week
  – Acceptance of large components and irradiated hardware shipments

• Institutional Activities
  – Site maintenance
  – Environmental monitoring
Class A/B/C Waste Disposal
Large Component Disposal
## Recent Waste Volumes

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>2009/2010(ft³)</th>
<th>2010/2011(ft³)</th>
<th>2011/2012(ft³)</th>
<th>2012/2013(ft³)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Routine Utility Waste</td>
<td>6,637</td>
<td>10,983</td>
<td>9,201</td>
<td>2,490</td>
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<tr>
<td>Non-Utility Waste</td>
<td>60</td>
<td>67</td>
<td>120</td>
<td>87</td>
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<tr>
<td>Steam Generators</td>
<td>27,304</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Irradiated Hardware</td>
<td>0</td>
<td>0</td>
<td>173</td>
<td>0</td>
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<tr>
<td>Fiscal Year Total</td>
<td>34,001</td>
<td>11,050</td>
<td>9,494</td>
<td>2,577</td>
</tr>
</tbody>
</table>

* Through November 2012
South Carolina Workforce

- **EnergySolutions** employees in South Carolina: 232
  - BDF: 34
  - BPF: 10
  - NSSF/Liner Operations: 32
  - Hittman Trucking: 22
  - Cask Logistics: 6
  - Aiken: 51
  - Columbia: 67
  - Other: 10

- Average length of employment at the Barnwell Complex:
  - Over 20 years
BPF

• 17-acre facility that consists of two primary buildings
  - 101 – 7,500 ft²
  - 201 – 20,000 ft²
  - 301 – 8,000 ft² future RCRA treatment facility

• Services provided
  - Volume reduction
  - Dewatering
  - Waste treatment
  - Decontamination
  - Water processing

• The BPF shares a boundary from the west with the Department of Energy Savannah River Site
BPF Building 101

- Climate controlled concrete facility
  - 7,500 square feet

- Large open work bay for processing and compacting various radioactive material and waste streams

- Sort and Segregation Facility (SSF)
  - 700 square feet

- Super compactor
BPF Building 201

- 20,000 square foot climate controlled concrete facility
- Open floor space for processing radioactive materials and waste
- Filter Shredding
- Radiological waste testing laboratory
- 80-ton overhead bridge crane
Filter Shredding
BPF Building 301
RCRA Treatment Facility (future)

- 8,000 square foot steel building with concrete floor and foundation
  - RCRA Part B permit
  - Building design is approved
  - Two unloading bays
  - Process area
  - 50-ton overhead bridge crane
  - 5,000 square foot future expansion
• Environmental Monitoring
• Radiological Laboratory
• Radiation Dosimetry
• Engineering Support
• Site Characterization
• Hazardous Material Management
NSSF and Liner Operations
NSSF and Liner Operations

- **Containers**
  - Answers for Special Packaging Needs
  - Proven Design and Reliability
  - Large Equipment Packaging
  - High Rad
  - Interim and Long-Term Storage
  - Waste Shipping, Processing, & Disposal
Hittman Transportation and Cask Logistics

- **Two Locations**
  - Barnwell, SC
  - Oak Ridge, TN

- **Assets**
  - 81 Tractors
  - Equipment
    - Flat Beds
    - Vans
    - Curtain Trailers
    - Cask Trailers
    - 80-ton Multi Axle Trailer

- **Capabilities**
  - NRC NQA-1 Approved Program
  - New and Used Nuclear Fuel Transport
  - DOE Classified Shipments
  - RAMQC Shipments
  - Integrated Proprietary Cask Fleet
  - Oversize/Overwidth Project Management
ENERGY SOLUTIONS

QUESTIONS?