SUSTAINABILITY FOR JACKSONVILLE’S FUTURE

NUCLEAR ENERGY IN FLORIDA

Douglas S. Roberts
Hopping Green & Sams, P.A.
U.S. Commercial Nuclear Power Reactors—Years of Operation

Years of Commercial Operation

<table>
<thead>
<tr>
<th>Years of Operation</th>
<th>Number of Reactors</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-9</td>
<td>0</td>
</tr>
<tr>
<td>10-19</td>
<td>10</td>
</tr>
<tr>
<td>20-29</td>
<td>42</td>
</tr>
<tr>
<td>30-39</td>
<td>52</td>
</tr>
</tbody>
</table>

Source: U.S. Nuclear Regulatory Commission
Electric Generation by Fuel 1980 – 2030

Source: EIA Annual Energy Outlook 2009
Florida’s Electrical Mix

<table>
<thead>
<tr>
<th>Electricity by Fuel Source</th>
<th>2008</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coal</td>
<td>25%</td>
<td>23%</td>
</tr>
<tr>
<td>Natural Gas</td>
<td>42%</td>
<td>47%</td>
</tr>
<tr>
<td>Nuclear</td>
<td>14%</td>
<td>23%</td>
</tr>
<tr>
<td>Oil</td>
<td>4%</td>
<td>&gt; 1%</td>
</tr>
<tr>
<td>Renewable</td>
<td>1%</td>
<td>1%</td>
</tr>
</tbody>
</table>
Florida’s Existing Nuclear Power Plants

3 Sites – 5 Units

• Citrus  800 MW, PEF
• St. Lucie  1600 MW, FPL SL 1 & 2
• Miami-Dade  1400 MW, FPL TP 3 & 4
Florida’s New Nuclear Projects

2 Sites – 4 Units

• Levy 2200 MW, PEF LNP 1 & 2
• Miami-Dade 2200 MW, FPL TP 6 & 7
Progress Energy Florida
Levy Nuclear Project
Progress Energy Florida
Levy Nuclear Project
The Westinghouse AP1000™

- Containment/Shield Building
- Auxiliary Building
- Turbine Building
- Annex Building
- Fuel Handling Area (Aux. Bldg.)
- Radwaste Building
- Diesel Generator Building
State of Florida Approvals - PEF Levy Project

- June 2008 - Site Certification Application (SCA) submitted to Florida DEP
- August 2008 - Florida PSC Affirmative Determination of Need issued
- September 2008 - Levy County Land Use/Zoning/Comp. Plan required approvals obtained
- January 2009 - Florida DEP Agency Report Issued
- February/March 2009 - Site Certification Hearings held
- August 2009 - Florida Power Plant Siting Board Approval Granted
Federal requirements, status and timeframes – Regulatory Sequence

- R-COLA Standard Portions
- AP1000 Design Certification Amendment
- COLA
- EIS
- USACE 404 Permit
- FL SCA
- Site Preparation
- Plant Construction
NEW NUCLEAR PLANT ISSUES

- Water Supply / Sources
- Wastewater Disposal
- Land Use
- Spent Fuel Storage
- Transmission Lines
- Wetlands
- Community Impacts
## Beneficial Economic Impacts of Levy Nuclear Project

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Employment</td>
<td>3300</td>
<td>800</td>
</tr>
<tr>
<td>Payroll (Annual)</td>
<td>$151.5 million</td>
<td>$53.3 million</td>
</tr>
<tr>
<td>Local Property Taxes (Annual)</td>
<td>$0*</td>
<td>$104 million</td>
</tr>
<tr>
<td>Annual Regional Goods and Services (Direct, Indirect and Induced)</td>
<td>$263 million</td>
<td>$520.6 million</td>
</tr>
</tbody>
</table>


*Property Tax Collections of approximately $63 million will start when Unit 1 is brought online.