PRESENTATION TO
SOUTH CAROLINA NUCLEAR ADVISORY COUNCIL
January 12, 2017

Presented by:

Rick McLeod, Executive Director, SRSCRO
Mindy Mets, NWI® Program Manager, SRSCRO
SRSCRO - A Regional Perspective

- Board = 22 members (11 from each state)
- Five Counties, Two States
- Designated by DOE-SR as the CRO for SRS
- Private Non-Profit 501 (c) 3
- Funding – Non-Federal Operating Dollars
SRSCRO - Focus Areas

- Economic Development
  - Asset Revitalization
- Workforce
  - Nuclear Workforce Initiative (NWI®)
- Community Voice
  - SRS
  - MOX
Nuclear Workforce Needs Defined for SRSCRO Region

Workforce Studies

• 2009 Regional Nuclear Workforce Study – 10,000 new nuclear workers over 10 years

• 2015 Regional Workforce Study – 37,000 new workers needed over 5 years for nuclear, manufacturing, medical & cybersecurity sectors

Workforce Studies available at www.srscro.org
Nuclear Workforce Needs Are Real

2015 History

• Nuclear employers in the region hired 1030+
• Attrition totaled 773 (43% were retirement)

Future Outlook

• Estimated 3000+ new hires at SRS for next 5 years from just 2 major employers
• Local employers report long-term need for technicians & engineers
Nuclear Workforce Needs Nationally

Nuclear Power Industry

• 50% of nuclear energy industry workforce eligible to retire during next 10 years (www.NEI.org)

U.S. Department of Energy

• Los Alamos National Lab estimates 2,500 job vacancies between now and 2020 (U.S. News & World Report, June 2016)
SRSCRO Regional Leadership Philosophy

We have an obligation to ensure that people of our region develop the skills needed for jobs in our region.

Growing Our Own Through Collaboration®
• Promoting Nuclear Career Pathways
• Aligning Education Partner Programs
• Advancing STEM Skills through Collaboration
• Connecting Regional Workforce Networks
Nuclear Science Week
October 17-21, 2016

• **Education Days** – USC Aiken, Augusta University

• **Site Tours** - SRS, Plant Vogtle, V.C. Summer

• **STEM Career Connections** – Interactive Forum for Students/Teachers/STEM Employers

• **Promotions and Posters** in 8 school districts

[www.nwinitiative.org](http://www.nwinitiative.org)
<table>
<thead>
<tr>
<th>EVENT</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>TOTAL</th>
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</thead>
<tbody>
<tr>
<td>Education Days – RPSEC @ USC Aiken</td>
<td>330</td>
<td>120</td>
<td>346</td>
<td>575</td>
<td>1,371</td>
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<td>Education Days – Augusta University</td>
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<td>70</td>
<td>80</td>
<td>95</td>
<td>310</td>
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<td>Education Days – USC Salkehatchie</td>
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<td>Education Days – TCM</td>
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<td>SRS Student*/Teacher Tours</td>
<td>46*</td>
<td>40</td>
<td>31</td>
<td>29</td>
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<td>Teacher Workshop</td>
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<td>30</td>
<td>30</td>
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<td>Plant Vogtle Student Tours</td>
<td>80</td>
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<td>VC Summer Student Tours</td>
<td>67</td>
<td>83</td>
<td>85</td>
<td>200</td>
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<td>STEM Career Connections (students &amp; teachers)</td>
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<td>220</td>
<td>250</td>
<td>340</td>
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<td>CNTA Edward Teller Lecture</td>
<td>305</td>
<td>300</td>
<td>308</td>
<td>250</td>
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<td>2013 “Big Event” Misc Activities</td>
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<td>N/A</td>
<td>N/A</td>
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<td>TOTAL</td>
<td>1,578</td>
<td>1,003</td>
<td>1,455</td>
<td>1,759</td>
<td>5,795</td>
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Teacher Workshop Involvement

• Bringing Nuclear into the Classroom (CNTA Sponsored)
• Southeastern Summer Nuclear Institute (CNTA Sponsored)
• Teaching Radiation, Energy and Technology (TREAT – DOE Sponsored)
Post-Secondary Education Partners
Supporting Local Workforce Needs

• Aiken Technical College (SC)
• Augusta Technical College (GA)
• Augusta University (GA)
• University of South Carolina Aiken (SC)
• University of South Carolina Salkehatchie (SC)
# Collaboration to Advance Nuclear Skills Regionally

## $4.8 M DOE Grant – Five Years

<table>
<thead>
<tr>
<th>Institution</th>
<th>Program Description</th>
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<tbody>
<tr>
<td>Aiken Technical College</td>
<td>Nuclear Quality System (NQS) Associate Degree Advanced Nuclear Welding</td>
</tr>
<tr>
<td>Augusta Technical College</td>
<td>Chemical Technology Associate Degree Nuclear Career Advisement Program</td>
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<tr>
<td>Augusta University</td>
<td>Nuclear Science Tracks in Chemistry and Physics Degree Programs</td>
</tr>
<tr>
<td>University of SC Aiken</td>
<td>Environmental Remediation and Restoration Specialized Biology Degree</td>
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<tr>
<td>University of SC Salkehatchie</td>
<td>Expansion of STEM Coursework for Region</td>
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<tr>
<td>SRSCRO</td>
<td>Promotion of Regional Nuclear Science Programs, Grant Management</td>
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</tbody>
</table>
ANSR Program Metrics

• College Student Enrollment – 600
• ANSR Graduates (as of 5/2016) – 195
• ANSR Job Placement (as of 5/2016) – 168 (86%)
• STEM Program Impact - 4034
Next Step

Expand nuclear workforce development that supports Department of Energy Environmental Management (DOE-EM) and National Nuclear Security Administration (NNSA) long-term needs, with particular focus on Savannah River Site (SRS) missions.
WORC
Workforce Opportunities in Regional Careers

Components
• 5 College & University Partners in 2 states
• SRSCRO Program Management/Fiscal Agent
• 16 relevant degree programs (2 & 4 year)
• Scholarships
• Student Retention Strategies
• Program Marketing & Recruitment
• Pipeline Programs

Funding
• $5M over 5 Years from DOE-EM & NNSA
WORC

More than 16 DOE-EM/NNSA/Contractor Relevant Degree Programs at
- Aiken Technical College
- Augusta Technical College
- Augusta University
- University of South Carolina Aiken
- University of South Carolina Salkehatchie

10 to 25 SRS Work Positions Annually as
SRS Employer Supported Internships, Apprenticeships, Limited Service Employees, etc.

Funded by WORC Grant
- Scholarships 148 Annually
- Student Retention Strategies
  - Instructional Support
  - Tracking
- College Program Marketing & Recruitment
  - High Schools
  - Adults pursuing new career path
- Pipeline Programs
  - Rural STEM Program
  - Regional Outreach Activities