RELAP-5 3D Software Licensing Updates

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Technology Deployment

October 23, 2012
International RELAP Users Group Meeting
Sun Valley, Idaho
Benefits of IRUG Membership

- Access to an internationally recognized tool for safety and engineering analyses of nuclear power reactors
- Provides a control point for maintenance and improvements to RELAP5-3D
- Helps users develop a working knowledge of RELAP5-3D and its application
- Cost sharing mechanism for code improvements
2012 Highlights

• RELAP5-3D 4.x (Fortran 95) released in July

• Continued improvements in average turn around time for new license requests

• 93% of all license fees reinvested in development and support

• IRUG membership increased from 31 in 2010 to 64 in 2012

• Most university agreements are multiyear licenses

• Automated notification system implemented

• Additional support staff
## FY 2012 License Activity

### Domestic

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<thead>
<tr>
<th>Category</th>
<th>New Members</th>
<th>Renewals</th>
<th>Existing Members</th>
<th>Totals</th>
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### International

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Total Licensees: 5  New Members 9  Existing Members 50  Totals 64

### Potential Members

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Export Control Requirements

- DOE determination: RELAP5-3D falls under 10 CFR 810

- BEA and Licensees both have responsibilities for compliance

- Expedited review process

- Standardized “Program Participant Form”

Our Checklist:

- Legal name of licensee
- Full names and citizenship of end users and contacts
- Full addresses and phone number
- End use of the code
- IRUG membership level requested
Goals for 2013

- Expand distribution of RELAP5-3D 4.x in non-nuclear markets
- Increase multi-year license agreements
- Improve internal tracking and reporting
- Add new RELAP capabilities (Uncertainty Analysis)
- Convert RGUI to Fortran 95

Goal: Improve BEA’s response to license inquiries.
Summary

- RELAP5-3D Version 4.x released in July
- IRUG user group has experienced rapid growth since 2010
- Licensing process is improving to better support IRUG members
- Product improvements continue to be added
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