RAMPED UP

Guest Editor: Latisha Pryor

IN THIS ISSUE

1st RAMP Users' Meeting

The United States Nuclear Regulatory Commission (USNRC) is hosting its 1st RAMP Users' Meeting on October 5-9, 2015. The Radiation Protection Computer Code Analysis and Maintenance Program (RAMP) meeting will include training and discussion for the eight codes under the RAMP program. The training consists of comprehensive group training with RAMP contractors and project managers. Training will allow users to gain a better knowledge of the codes. Special discussion sessions for each code will allow domestic and international users an opportunity to share their experiences with the codes. The discussion will allow users to suggest ideas for code improvements directly to contractors. The RAMP Users' Meeting is only open to registered members. To become a registered user, visit https://www.usnrc-ramp.com.

RAMP users have access to the most current versions of the codes, code maintenance, development, benchmarking, and uncertainty studies. Users also receive access to cooperative forums to resolve code errors and Inefficiencies.

For more information on the RAMP Users' Meeting, feel free to contact ramp@nrc.gov.

RAMP to host 1st Users' Meeting

The United States Nuclear Regulatory Commission invites RAMP code users from all of the world for training and discussion in their 1st RAMP Users' Meeting.

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Pacific Northwest NATIONAL LABORATORY

Agency Highlights: PNNL

Pacific Northwest National Laboratory partners with RAMP to bring you the 1st RAMP Users' Meeting in October.

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Goals of RAMP

- To ensure codes are appropriately updated.
- To ensure codes reflect computer programming language updates.
- Updates are in accord with International Regulations and Guidance Documents.
- Codes are updated based on lessons learned from events such as Fukushima.
- Costs are shared among users of the codes.
- Centralized management structure for reporting, prioritizing and resolving code issues.

LEARN MORE ABOUT RAMP

https://www.usnrc-ramp.com

Agency Highlights: PNNL

Pacific Northwest National Laboratory (PNNL) is partnering with RAMP to host the 1st RAMP Users' Meeting in October. PNNL is one among ten U.S. Department of Energy (DOE) national laboratories managed by DOE's Office of Science. The mission and vision at PNNL are supported by a culture built on these core values: integrity, creativity, collaboration, impact and courage. PNNL research strengthens the U.S. foundation for innovation. PNNL helps find solutions for the DOE, U.S. Department of Homeland Security, the National Nuclear Security Administration, other government agencies, universities and industry. PNNL's multidisciplinary scientific teams are brought together to address their problems focusing on four areas: science, energy, the earth and national security. PNNL maintains the FORTRAN based gaseous and liquid effluent (GALE) code. GALE estimates the quantities of radioactivity released by a plant through liquid and atmospheric discharges during routine operations for pressurized-water reactors (PWR) and boiling-water reactors (BWR).

Code Highlight: RASCAL

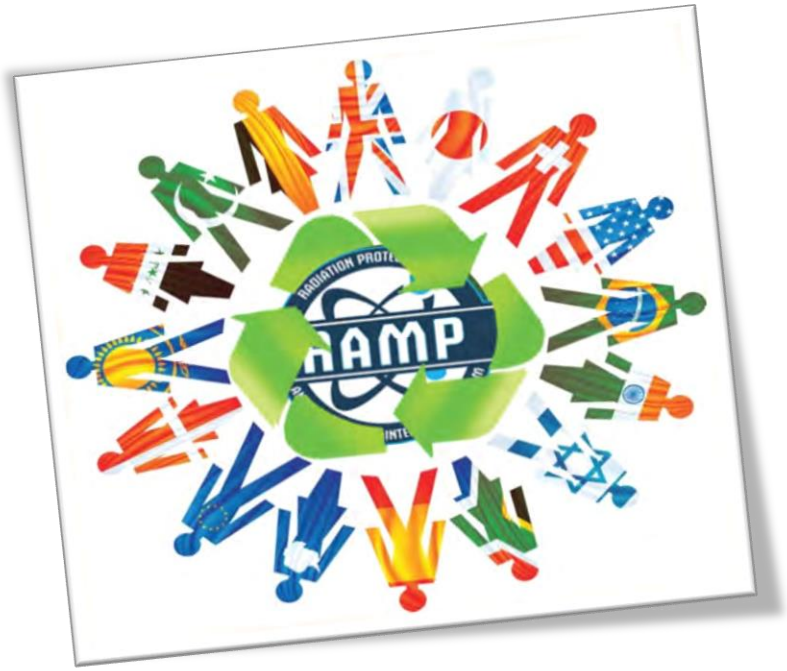
RASCAL has been continuously upgraded and improved upon to include updated source term models, atmospheric transport models, nuclear power plant site-specific data and updated computer calculation methods. RASCAL version 4.3.1 was issued in December 31, 2014, to resolve coding issues to RASCAL version 4.3 that were identified by RASCAL users.

Some of these issues include updates to the Source Term to Dose module for reactor events and the spent fuel pool. The spent fuel pool graphic user interface was changed allowing the user greater clarity of the RASCAL models used for these calculations and to aid the user with the selection of RASCAL options during a spent fuel pool event.

Additionally, this update to RASCAL provides for improved source-term import, export and merge options, resolution of issues related to the ATD models and meteorological data handling, updates to the RASCAL facility database and site data files, and RASCAL software installation and other coding fixes. The RASCAL version 4.3.1 Change Log will be provided to users when they receive the updated code.

FOR MORE INFORMATION, CONTACT

Rascal_Help@nrc.gov



International Partners

South African National Nuclear Regulator (NNR) will be sending representatives to attend the RAMP Users' Meeting. As participants, NNR will gain firsthand knowledge from project managers on using the RAMP codes.

RAMP is working towards an agreement with Korea Institute of Nuclear Safety. Korean representatives will be able to attend the RAMP Users' Meeting as observers.

KINS KOREA INSTITUTE OF NUCLEAR SAFETY

The RAMP Users' Meeting welcomes the Canadian Nuclear Safety Commission (CNSC) members to participate. Members from Canada will join in training and discussion at the meeting.

RAMP USERS' MEETING Schedule-At-A-Glance

RAMP USERS' GROUP TRAINING AND DISCUSSION SCHEDULE
OCTOBER 5 - 9, 2015

1st Annual RAMP Users' Group Meeting		Description	Description	Description	Description
Monday, 10/5/15	Morning Session	RASCAL Training	VARSKIN Training	9:00 AM ~ 10:00 AM HABIT Discussions 10:15 AM ~ 11:15 AM Rad Toolbox Discussions	
	Afternoon Session	RASCAL Training	VARSKIN Training	Atmospheric Code Discussions	
Tuesday, 10/6/15	Morning Session	RASCAL Training	VARSKIN Training	SNAP/RADTRAD Discussions	
	Afternoon Session	RASCAL Training	VARSKIN Training	SNAP/RADTRAD Discussions	
Wednesday, 10/7/15	Morning Session	**RAMP Formal Welcome and International Meetings**			
	Afternoon Session		SNAP/RADTRAD Training	DandD Discussions	PIMAL Training
		Tour of the NRC Operations Center			
Thursday, 10/8/15	Morning Session	RASCAL Discussions	SNAP/RADTRAD Training	GALE Training	PIMAL Training
	Afternoon Session	RASCAL Discussions	SNAP/RADTRAD Training	GALE Training	PIMAL Training
		Tour of the NRC Operations Center			
Friday, 10/9/15 (AM only)	Morning Session	RASCAL Discussions	SNAP/RADTRAD Training	GALE Discussions	PIMAL Training

Note: Discussion sessions will be held as open forums. Seating is non-reservable and attendance is available on a first come-first serve basis.

Become a Member of RAMP

Obtaining the RAMP Codes
RASCAL, RADTRAD, VARSKIN, HABIT, GALE, DandD,
PiMAL (a GUI), Radiological Toolbox

UNITED STATES (DOMESTIC)

Who	Services	Cost	How
US NRC Licensees/Vendors ***** US Universities and Research Organizations using codes in licensing decisions ***** For individual codes see code website tab under the RAMP website	◦ All Codes in RAMP ◦ All Documentation ◦ All User Forums ◦ All Email Help Request ◦ All Training, when available, with limited seating per company	20,000.00 USD/year or 20,000.00 USD/year Per Reactor Site*	**Step 1:** Fill out, sign and email this non-disclosure agreement to ramp@nrc.gov or fax to 301-415-6671. **Step 2:** The RAMP contractor will present an invoice and contract to the entities. **Step 3:** Upon payment, you will be given access, by NRC, for the services listed.
U.S. local/state/government entities ****** U.S. Universities using codes for Research Purposes	◦ All Codes in RAMP ◦ All Documentation ◦ All User Forums ◦ All Email Help Request	Free	**Step 1:** Fill out, sign and email this non-disclosure agreement to ramp@nrc.gov or fax to 301-415-6671. **Step 2:** Upon receipt of the NDA, you will be notified, via email that you have access for the service listed.
All Others	Contact RAMP@nrc.gov		

***For Domestic Licensee with multiple sites and corporate offices, fees may be adjusted to align with code use and needs.**

INTERNATIONAL

Who	Services	Cost	How
International Nuclear Regulatory Authorities	◦ All Codes in RAMP ◦ All Documentation ◦ All User Forums ◦ All Email Help Request ◦ All Training, when available ◦ Voting Member at RAMP User Meetings These services will be listed in the RAMP International Cooperative Research Agreement	20,000.00 USD/year	**Step 1:** Email Ramp@nrc.gov with the Regulatory International Officer contact information. **Step 2:** RAMPs International Program Team will send you a RAMP Agreement. **Step 3:** Upon US NRC and the Authority signing of the Agreements, access will be given for the services listed.

United States Nuclear Regulatory Commission Rockville, MD

Latisha Pryor is the student engineer for the Radiation Protection Branch. She is a dual degree scholar from Fort Valley State University where she graduated with a B.S in Biology and plans to pursue a Health Physics degree at the University of Nevada-Las Vegas.

RAMP Web Address:

https://www.usnrc-ramp.com

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- Highlights from RAMP Users' Meeting
- Code Highlight: RADTRAD
- Who's new in RAMP?
- VARSKIN's model vs MCNP
- Uses of Radiological Toolbox
- RASCAL Benchmarking Activities
- ....and Much More