


# NRC RAMP

**U.S.NRC**  
United States Nuclear Regulatory Commission  
*Protecting People and the Environment*

SEARCH

 **REPORT**  
A SAFETY CONCERN

NUCLEAR REACTORS

NUCLEAR MATERIALS

RADIOACTIVE WASTE

NUCLEAR SECURITY

PUBLIC MEETINGS & INVOLVEMENT

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ABOUT NRC

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 **RESEARCH**

Nuclear Reactor Safety Research

Nuclear Materials Safety Research

Radioactive Waste Safety Research

Fire Research Program

Accident Sequence Precursor (ASP) Program

Analysis of Cancer Risk in Populations Near Nuclear Facilities

**Radiation Protection Computer Code Analysis and Maintenance Program (RAMP)**

Digital Instrumentation and Controls (I&C) Research

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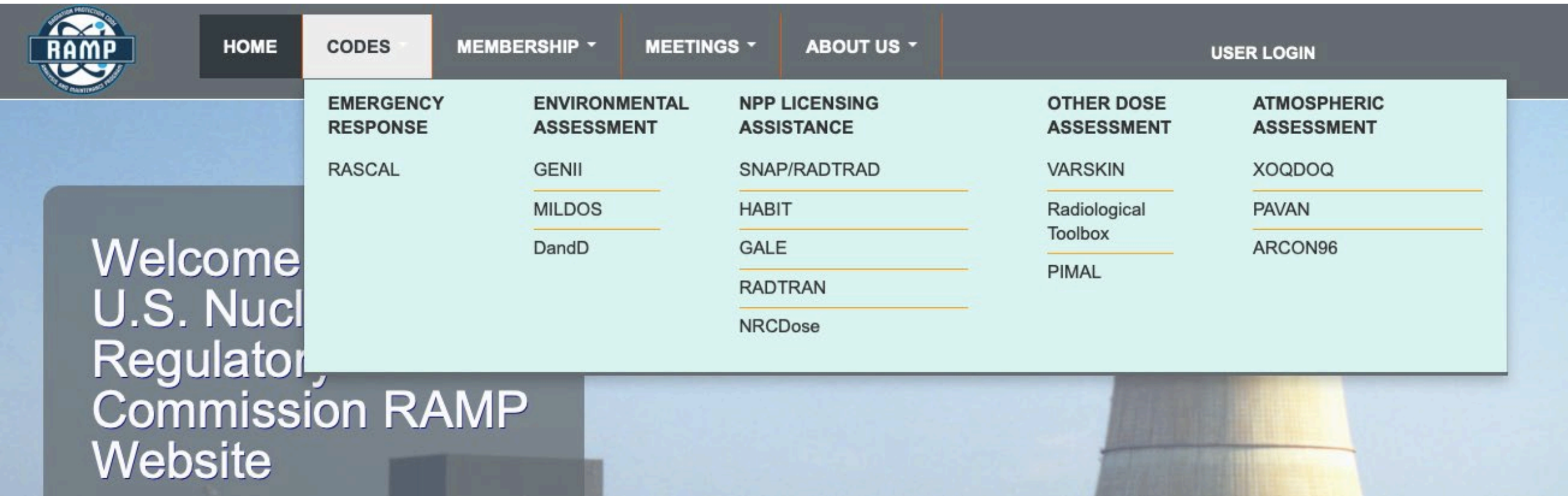
## The Radiation Protection Computer Code Analysis and Maintenance Program (RAMP)

The NRC initiated the **Radiation Protection Computer Code Analysis and Maintenance Program (RAMP)** for the development, maintenance, and distribution of the NRC's vast array of radiation protection, dose assessment, and emergency response computer codes. The benefits of RAMP are:

- Access to the most current versions of the code.
- Code maintenance, development, benchmarking, and uncertainty studies.
- A cooperative forum to resolve code errors and inefficiencies.
- Technical basis documents and user guidelines for applying the codes, and periodic meetings to share experiences, discuss code development.
- Periodic training on the codes.

<https://www.nrc.gov/about-nrc/regulatory/research/ramp.html>

# RAMP Website



The image is a screenshot of the RAMP (Radiation Assessment and Monitoring Program) website. The top navigation bar is dark grey with white text for 'HOME', 'CODES', 'MEMBERSHIP', 'MEETINGS', 'ABOUT US', and 'USER LOGIN'. The 'CODES' menu is expanded, showing a light blue dropdown with five categories: 'EMERGENCY RESPONSE' (containing 'RASCAL'), 'ENVIRONMENTAL ASSESSMENT' (containing 'GENII', 'MILDOS', and 'DandD'), 'NPP LICENSING ASSISTANCE' (containing 'SNAP/RADTRAD', 'HABIT', 'GALE', 'RADTRAN', and 'NRCDose'), 'OTHER DOSE ASSESSMENT' (containing 'VARSKIN', 'Radiological Toolbox', and 'PIMAL'), and 'ATMOSPHERIC ASSESSMENT' (containing 'XOQDOQ', 'PAVAN', and 'ARCON96'). On the left side, there is a large blue banner with the text 'Welcome U.S. Nuclear Regulatory Commission RAMP Website'. The background of the website features a blurred image of a nuclear reactor cooling tower.

**RAMP**  
RADIATION ASSESSMENT AND MONITORING PROGRAM

**HOME** **CODES** **MEMBERSHIP** **MEETINGS** **ABOUT US** **USER LOGIN**

**EMERGENCY RESPONSE**  
RASCAL

**ENVIRONMENTAL ASSESSMENT**  
GENII  
MILDOS  
DandD

**NPP LICENSING ASSISTANCE**  
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**OTHER DOSE ASSESSMENT**  
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**ATMOSPHERIC ASSESSMENT**  
XOQDOQ  
PAVAN  
ARCON96

Welcome  
U.S. Nuclear  
Regulatory  
Commission RAMP  
Website

<https://ramp.nrc-gateway.gov/>


# DOE-NRC MOU

**MEMORANDUM OF UNDERSTANDING BETWEEN THE  
U.S. NUCLEAR REGULATORY COMMISSION, AND THE U.S. DEPARTMENT OF ENERGY,  
INCLUDING THE U.S. DEPARTMENT OF ENERGY'S NATIONAL NUCLEAR SECURITY  
ADMINISTRATION, ON THE RADIATION PROTECTION COMPUTER CODE ANALYSIS  
AND MAINTENANCE PROGRAM**

**I. Purpose and Background**

1. This memorandum of understanding (MOU) is between the U.S. Nuclear Regulatory Commission (NRC), the U.S. Department of Energy (DOE), including the National Nuclear Security Administration (NNSA), a semi-autonomous organization within DOE. For purposes of this MOU, DOE and NNSA are collectively referred to as "DOE." This MOU describes the roles, responsibilities, and processes related to the implementation of the Radiation Protection Computer Code Analysis and Maintenance Program (RAMP). RAMP provides the nuclear energy and radiation protection community with access to the distribution, development, and use of radiation protection computer codes while ensuring sustainability of code development.

# RAMP Users Group Meeting Agenda

	<b>Radiation Protection Computer Code Analysis and Maintenance Program (RAMP)</b>  2019 Fall Users Group Meeting, October 28 - November 01, 2019 United States Nuclear Regulatory Commission 3 White Flint North (3WFN), 11601 Lansdowne Street, North Bethesda, MD 20852 Two White Flint North (2WFN), 11545 Rockville Pike, Rockville, MD 20852 RAMP Website: <a href="https://ramp.nrc-gateway.gov/">https://ramp.nrc-gateway.gov/</a>			
<b>Monday</b> <b>October 28, 2019</b>	8:00 AM – 9:00 AM	Registration and Check-In (3WFN 1C03/1C05)		
	9:00 AM – 12:00 PM	Opening Remarks, Tour of Operation Center (3WFN 1C03/1C05 & Emergency Response Tour)		
	1:00 PM – 4:30 PM	RASCAL	VARSKIN Training	RESRAD
	6:00 PM – 7:30 PM	RAMP Meeting Social Night (City Perch Kitchen + Bar)		
<b>Tuesday</b> <b>October 29, 2019</b>	8:00 AM – 8:45 AM	Morning Primer: ATMO Codes		
	9:00 AM – 12:00 PM	RASCAL	NRC Dose3	VARSKIN Technical Meeting
	1:00 PM – 5:00 PM			RESRAD
<b>Wednesday</b> <b>October 30, 2019</b>	8:00 AM – 8:45 AM	Morning Primer: RADTRAN		
	9:00 AM – 12:00 PM	RASCAL	NRC Dose3 Code Discussions	VARSKIN Technical Meeting
	12:00 PM – 1:00 PM	International Lunch Meeting		
	1:15 PM – 5:00 PM	RAMP Tours at NIH		
	6:00 PM – 8:00 PM	Optional: RAMP Dinner Night		
<b>Thursday</b> <b>October 31, 2019</b>	8:00 AM – 8:45 AM	Registration for the Non-LWR HP Technical Meeting (3WFN 1C03/1C05)		
	9:00 AM – 12:00 PM	Non-LWR HP Technical Meeting including RADTRAD Code Discussions	Internal Dosimetry IMBA Code	RASCAL Code Open Discussions
	1:00 PM – 5:00 PM			