



Conference of Radiation Control Program Directors, Inc.

# NEWSBRIEF

[www.crcpd.org](http://www.crcpd.org)

A Partnership Dedicated to Radiation Protection December 2016

## Message from Chairperson Jared Thompson



### CRCPD's world in radiation protection has been expanded!

On September 28, 2016, CRCPD signed a Practical Arrangement with the International Atomic Energy Agency (IAEA) to work together in the area of radiation protection. **This is a monumental moment for CRCPD that will increase our visibility internationally.**

Our Executive Director, Ruth McBurney was instrumental in collaborating with the IAEA on the development of this Practical Arrangement. **I want to express our appreciation to Ruth for a job well done in promoting CRCPD.**

I represented CRCPD at the Organization of Agreement States (OAS) on August 22-25, 2016, in Denver, Colorado. It was an excellent meeting with the U.S. Nuclear Regulatory Commission and the Agreement States. The theme of the meeting was on the **National Materials Program: Impacts, Issues and Lessons Learned**. CRCPD and OAS continue to strengthen our partnership. After all... **We are Us.**

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## Message from Chairperson *(continued)*

### Radon Hero Presentation Angela Tin

*“Angela was  
recognized for  
her leadership  
and dedication  
to reducing  
radon exposure  
over the last ten  
years.”*

Jared Thompson

## CRCPD's world in radiation protection has been expanded!

### National Radon Training and Radon Hero Award

It was my pleasure to attend the 26th National Radon Training Conference on September 18-21, 2016, in San Diego, California. This is a joint conference with American Association of Radon Scientist and Technologists focusing on mitigation, education, medical and consumer issues related to radon.

**I was privileged to present the 2016 Radon Hero Award to Angela Tin of American Lung Association of Illinois.** Angela was recognized for her leadership and dedication to reducing radon exposure over the last ten years. She has aided in the development of a countless number of successful radon initiatives throughout the Upper Midwest region leading to state radon legislation, test kit distribution, mitigation system installation, and an increase in education and awareness for all ages. See the October *Newsbrief* for more information about her accomplishments.

**Thanks to Pat Daniels, Chair, and the E-25 Committee for the planning, coordination and preparation for the Training Conference.** The 27th National Radon Training Conference will be in New Orleans, Louisiana.

### U.S. Food and Drug Administration and International Electrotechnical Commission Standards

**CRCPD has been very actively involved with the U.S. Food and Drug Administration (FDA) in the review of the guidance for the International Electrotechnical Commission (IEC) Standards.**

There have been several phone calls and face to face meetings with FDA to gain better knowledge about these standards and how FDA may implement the guidance. Several areas of concerns have been identified and we will continue to work with FDA. We will continue to provide you with updates.

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## Message from Chairperson *(continued)*

## CRCPD's world in radiation protection has been expanded!

### CRCPD Board Meeting and Upcoming National Conference

#### National Conference in 2017

***"I want  
to remind  
everyone to  
begin making  
plans to  
attend the  
49th Annual  
National  
Conference  
on Radiation  
Control in  
Scottsdale,  
Arizona on  
May 8-11,  
2017."***

**Jared Thompson**

The CRCPD Board Fall Board Meeting was held in Reston, Virginia, in November. **Several of our federal partners were in attendance and it was a very successful meeting as we make plans for the upcoming year.**

I want to remind everyone to begin making plans to attend the 49th Annual National Conference on Radiation Control in Scottsdale, Arizona on May 8-11. **I want to encourage Director Members to invite their Radiation Control Staff members to this meeting.** The agenda is being developed and it will be an exciting Conference.

### CRCPD Board Positions

Also, we are accepting nominations for the CRCPD Board positions. We will accept nominations for Chair-Elect and Member-at-large. **If you know anyone that might be interested in serving on the Board, please submit your nomination to Sue Smith (ssmith@crcpd.org).** This is an excellent opportunity to get involved.

I am open to any comments or suggestions you may have that would be a benefit to this organization. I can be contacted at jared.thompson@arkansas.gov. Let's all work together to strengthen and grow CRCPD.

***Happy New Year and "Don't get none on ya!!"***



## Greetings from Your Executive Director



Ruth E. McBurney, CHP

### Accomplishments

*“As 2016 comes to a close, we are pleased to look back at the year in which CRCPD put a bow on several initiatives and continued with others.”*

Ruth E. McBurney

## Putting a Bow on 2016

The Urban Dictionary defines “Put a bow on it” as “to finish something.” As 2016 comes to a close, we are pleased to look back at the year in which CRCPD put a bow on several initiatives and continued with others. We are also looking forward with anticipation and excitement to more projects in 2017 that will help states in their radiological regulatory and emergency preparedness programs. **Most of the work has been done by the great volunteer working groups and the Board of Directors in their leadership roles.** It couldn’t have been done without you, and it is much appreciated!

**Here are the highlights of this year’s accomplishments and activities:**

- **A new website and association management software.** This has provided both a new look from the outside and greater capabilities for members, federal partners and working groups to share information and databases.
- **Establishment of a monthly X-ray Topic and Trends conference call,** a forum for discussion of x-ray issues and new modalities and sharing of regulatory solutions for addressing them.
- **New Liaison established with the Low Level Radioactive Waste Forum.** Denny Galloway (CT) has been appointed to this position.
- **Greater opportunities for CRCPD members to interact internationally through the International Atomic Energy Agency (IAEA) in the areas of medical events, new healing arts modalities, naturally occurring radioactive material, and radon.** Several of our members made presentations at international meetings on these topics, and in September, CRCPD signed a Practical Arrangement with IAEA to share resources and work collaboratively on these areas of interest to both groups.
- **Launch of National Radon Action Plan and activities toward its implementation.**
- **Coordination with other organizations to address issues,** such as the use of the International Electrotechnical Commission (IEC) Standards for x-ray manufacturers, and enhanced source security measures.

## Executive Director

Greetings *(continued)*

## Visits with Federal Partners

*"In addition, the Board leadership, including Bill Irwin, Past Chair, and Dave Allard, and I visited several of our federal partners in the Washington, DC area in early December, as well as some of the organizations headquartered there."*

Ruth E. McBurney

Putting a Bow on 2016- *continued*

- **Several new Parts of the Suggested State Regulations for Control of Radiation.**
- **Successful National Conference on Radiation Control** in Lexington, KY, in May, and **National Radon Training Conference** in September.
- **Implementation of Radiological Operations Support Specialist training**, in cooperation with U.S. Federal Emergency Management Agency (FEMA), U.S. Department of Homeland Security (DHS), and the U.S. Department of Energy (DOE) National Nuclear Security Administration (NNSA) and Federal Radiological Monitoring and Assessment Center (FRMAC).

In addition, the Board leadership, including Bill Irwin, Past Chair, and Dave Allard, and I visited several of our federal partners in the Washington, DC area in early December, as well as some of the organizations headquartered there. **Pertinent topics were discussed with:**

- **U.S. Nuclear Regulatory Commission staff and two of the Commissioners;**
- **U.S. Food and Drug Administration's Center for Devices and Radiological Health;**
- **U.S. Environmental Protection Agency's Office of Radiation and Indoor Air;**
- **FEMA's Radiological Emergency Preparedness (REP) and Chemical, Biological, Radiological and Nuclear (CBRN) Programs; and**
- **U.S. Department of Energy National Nuclear Security Administration (NNSA).**

We also visited with staff of the U.S. Department of Homeland Security's Health Threats Resilience Division, a group with whom we had not previously interacted. On the same trip, we also visited with the Institute of Scrap Recycling Industries, which has a renewed interest in working with CRCPD to provide information and training to their members on identification and management of radioactive scrap, and the American Society for Radiation Oncology, where medical events and use of low energy x-ray therapy by other physicians than radiation oncologists were the major issues.

## Executive Director

Putting a Bow on 2016- *continued*Greetings *(continued)*

## Planning for 2017

*"I hope you are looking forward to another great year at CRCPD as much as I am. "*

Ruth E. McBurney

These just provide a few of the highlights for 2016. As in the song, *"It was a very good year!"*

**Looking forward to 2017, we are planning for many activities, including the following:**

- **Implementation of the Practical Arrangement with IAEA**, which includes presentations by CRCPD members at international meetings on a variety of topics, and presentations at CRCPD meetings by IAEA speakers.
- **Completion of a 5-year grant with the Centers for Disease Control and Prevention for development of a cadre of radiation response volunteers** to provide population monitoring and shelter assistance in the case of a major radiological emergency.
- **More activities to implement the National Radon Action Plan**, including the rollout of the Health Care Providers' Guide to Radon.
- **National Conference on Radiation Control in Scottsdale, Arizona, May 7-11, 2017**, and associated training in the areas of mammography, healing arts radiation, Technologically Enhanced Naturally Occurring Radioactive Material (TENORM), and emergency preparedness. The complete draft agenda will be out soon, so save the date and plan to attend!
- **National Radon Training Conference in New Orleans, Louisiana, October 2-4, 2017**. The Committee on Radon is planning a great program for this year's meeting. This is another "Be sure to save the date" event!
- **More work on TENORM with other national and international partners.**

I hope you are looking forward to another great year at CRCPD as much as I am. Do not hesitate to send in suggestions for making the organization more beneficial to your program, since that is what we are here for.

***Happy New Year to you and yours!***



## ROSS Certification On Its Way!

William Irwin, ScD, CHP, CRCPD Past-Chair

CRCPD hosted the first ever Radiological Operations Support Specialist (ROSS) training course in Baltimore, Maryland, the week of September 19 through September 23, 2016. **Sixteen men and women from all corners of the United States worked through numerous exercises and attended courses on the latest guidance on how to advise decision makers in the aftermath of a radiological dispersal device (RDD) or improvised nuclear device (IND) detonation or other terrorist act, or a nuclear power plant (NPP) or other industrial accident.** Brooke Buddemeier, CHP, of Lawrence Livermore National Laboratory (LLNL); Jim Rogers of the Federal Emergency Management Agency (FEMA) National Incident Management Assistance Team; and Bill Irwin, Sc.D., CHP, of the CRCPD and Vermont Department of Health presented the curriculum developed in conjunction with other scientists at LLNL, the Department of Homeland Security Science and Technology Directorate (DHS S&T) and the Department of Energy National Nuclear Security Administration (DOE NNSA).

### **The 40-hour course provided the radiation protection scientists training in:**

- how ROSS can integrate effectively into the incident command or incident management structure;
- the standards, guides and references ROSS may use for advice provided to decision-makers;
- detailed modeling of the effects of RDDs, INDs and NPP incidents;
- creating effective messages about radiological and nuclear emergency conditions and guidance for the public, emergency responders and decision makers;
- federal, state and local resources available for response to and recovery from radiological and nuclear disasters;
- interpreting National Atmospheric Release Advisory Center (NARAC) and Federal Radiological Monitoring and Assessment Center (FRMAC) RDD, IND, and NPP release data products throughout different phases of the emergency; and
- computer and smart device applications that can help the ROSS rapidly and effectively assess situations so guidance can be provided with the best information available.

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### ROSS Certification On Its Way! - continued

Some of what was shared was fresh from the LLNL and DHS S&T laboratories!

**The training was also designed experiential** – students had to use tools and resources, not just read about and listen to descriptions. In teams, paired up or as single resources, ROSS candidates analyzed data, evaluated complex situations, and created and delivered briefings on their work products throughout the week. **It was exciting to see the growth in capabilities and confidence in each of the students each day!** They also worked to develop the initial entries for a written atlas of state and local radiological and nuclear response and recovery resources. The collection of people evaluating the training – leadership from LLNL, DHS S&T, DOE NNSA and the Counter Terrorism Operations Support (CTOS) as well as all the instructors--**know that there are sixteen more people who could be deployed promptly to very effectively help any jurisdiction should a radiological or nuclear catastrophe strike our nation.**



The initial Radiological Operations  
Support Specialist (ROSS)

Training Course Students, Instructors and  
Evaluators.

Front row: Brooke Buddemeier, CHP;  
Angela Leek, MS; Jennifer O'Riorden,  
MS; Kim Kearfott, ScD, CHP; Toby  
Morales; Susan Masih, BA. Back row:  
Orly Amir, DHS S&T; Ben Stevenson,  
DHS S&T; Maureen Alai, LLNL; David  
Stuenkel, PhD, CHP; Chris Salz; Steve  
Cima, MS, CHP; Michael Howe, MS,  
CHP; Jim Griffin, CHP; Bill Irwin, ScD, CHP;  
Michael Geier, BS; Jeffery Semancik,  
MSEE, MBA; Norman Miller, BS, NRRPT;  
Matt McKinley; Jim Rogers, FEMA; Ken  
Gavlik, BS, MBA. Not pictured: Roland  
Benke, PhD, CHP.

### ROSS Certification On Its Way! - *continued*

**The goal for our ROSS is not just to respond to a radiological or nuclear emergency, but to manage the incident from early on so fewer lives are adversely affected and our nation and communities recover faster and more effectively!**

Next steps include:

- getting National Incident Management System (NIMS) typing by FEMA for each of the ROSS (Type 1, 2 and 3);
- creating a FEMA cadre management method to continue to train and maintain ROSS; and
- improving the training curriculum for future offerings.

The ROSS development team hopes each of these will be completed soon, including additional trainings in 2017. **Those should be sponsored trainings so more people can attend the training,** similar to the way people attend other FEMA Radiological Emergency Preparedness training classes through CTOS, the Center for Domestic Preparedness, and the Emergency Management Institute.

***Everyone involved expresses tremendous appreciation to the CRCPD for arranging this training.***

If you would like to be on the mailing list for future ROSS information, contact Bill Irwin at [William.irwin@vermont.gov](mailto:William.irwin@vermont.gov).



## Delaware Celebrates National Radiation Protection Professionals Week

### Delaware's National Radiation Protection Professionals Week

In celebration of the 2016 National Radiation Protection Professionals Week, November 6–12, at Georgetown, Delaware, on November 3, **Governor Jack Markell signed a proclamation declaring Nov. 6-12, 2016 Radiation Protection Week in Delaware.**

The signing occurred at Delaware Technical Community College's (DTCC) Jack F. Owens Campus, with 17 radiologic technology students and leaders of DTCC, the Authority on Radiation Protection, and the state Division of Public Health (DPH) looking on.



(Photo – Donna Sharp)

**Governor  
Signing the  
Proclamation**

**Division of Public Health Director Dr. Karyl Rattay, Delaware Technical Community College President Dr. Mark Brainard, Authority on Radiation Protection Chair Dr. Frances Esposito, and Campus Dean of Instruction Dr. Bobbi Barends (L to R) join Radiologic Technology students in celebrating Governor Jack Markell's signing of the proclamation declaring Radiation Protection Week in Delaware.**

**The occasion preceded an annual student-run Radiologic Technology Open House where students demonstrated their knowledge of medical x-ray imaging equipment and procedures at seven stations.** DTCC offers its two-year Radiologic Technology associate degree program at its Owens and Wilmington campuses. Students are educated to achieve national credentials in radiologic technology, nuclear medicine technology, and dental assisting.

## Delaware Celebrates

### National Radiation Protection Professionals Week - continued

## Delaware's National Radiation Protection Professionals Week

**"I thank the Radiologic Technology students for promoting their area of study," Governor Markell said.** "Science, Technology, Engineering and Mathematics (STEM) education positions students to find rewarding health care careers in Delaware, contributing in a positive way to our state economy."



(Photo – Donna Sharp)

**Authority on Radiation Protection members, Division of Public Health leaders, and Office of Radiation Control (ORC) staffers**

(L to R) David Parker, Kelly Shaughnessy, LaDon Terry-Graham, Frieda Fisher-Tyler, Robert Brinsfield, and Norman Henry – not pictured) celebrate the declaration of Radiation Protection Week in Delaware, and the 40th anniversary of the Authority.

### The event also celebrated a trio of anniversaries:

- 50th anniversary of the college (DTCC);
- 40th anniversary of the Authority on Radiation Protection (a governor-appointed public board); and
- 30th anniversary of the Radiologic Technology Program at the DTCC Jack F. Owens Campus.

## Delaware Celebrates

## National Radiation Protection Professionals Week - continued

**Delaware's National  
Radiation Protection  
Professionals Week**

**“For three decades, the Rad Tech program has responded to the needs of local health care employers by preparing licensed health care professionals who work closely with radiologists to safely perform x-ray procedures,” said DTCC President Mark Brainard.** “Yet the College cannot take all the credit. The success of our program has depended on partnerships, and we are thankful for

the support of Beebe Healthcare Services, Bayhealth Medical Center and Nanticoke Health Services who have donated high-tech equipment for our labs and continue to provide clinical rotations for our students. **It is gratifying to share that students trained in this program consistently enjoy a 100% graduation rate, and a 100% employment rate.”**

“Safe radiation procedures protect our health and quality of life,” said Division of Public Health (DPH) Director Dr. Karyl Rattay. “Medical imaging procedures play an important role in the early detection of cancer and cardiovascular disease, in emergency medicine such as x-rays to assess broken bones, and to detect oral health issues at the dentist’s office. **The Office of Radiation Control provides essential public health services to ensure that x-ray equipment is operated safely by trained, qualified staff.”**

DPH’s Office of Radiation Control (ORC) collaborates with the Authority on Radiation Protection and many disciplines throughout the practice community to enhance radiation safety, improve health outcomes, and promote quality of life for all Delawareans.

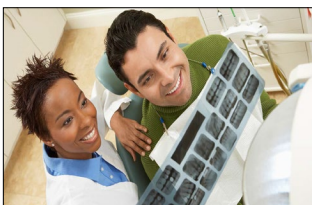
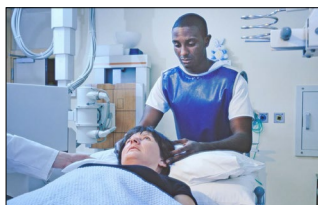
## Delaware Celebrates

## National Radiation Protection Professionals Week - continued

## Delaware's National Radiation Protection Professionals Week



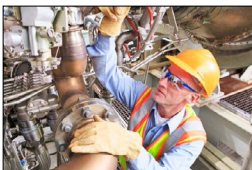
DELAWARE HEALTH AND SOCIAL SERVICES  
Division of Public Health



## The Delaware Radiation Control Program Protects.

Delawareans benefit every day from the use of ionizing radiation when receiving routine x-rays at the dentist's office, having a screening for the early detection of cancer or osteoporosis, or visiting an emergency room to receive medical treatment for broken bones or other injuries.

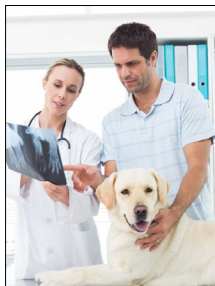
Ionizing radiation has enough energy to break chemical bonds and make changes in some materials, such as x-ray film. X-rays are generated by a variety of machines to see into everything from patients' bodies to welds on industrial pipes, to make measurements in precision manufacturing, and to provide security screening of packages or containers.



Radiation has many beneficial uses, and advanced medicine, dentistry, and veterinary practices have improved quality of life for decades. Physicians and technologists performing radiation procedures are trained to use the minimum amount of radiation necessary to protect the patient.

Since excessive radiation exposure can be harmful, there are radiation safety systems or protocols in place to limit exposure to workers, and the general public in all types of radiation facilities.

The Office of Radiation Control (ORC), located within Delaware Health and Social Service Division of Public Health, regularly inspects radiation facilities to ensure that x-ray equipment is operated safely by trained, qualified staff. The agency works in partnership with many disciplines throughout the practice community to provide a framework for effective collaboration to enhance radiation safety, improve health outcomes, and enhance quality of life for all Delawareans.



For more information about the Delaware Radiation Control Program, visit <http://www.dhss.delaware.gov/dhss/dph/hsp/orc.html>, or call 302-744-4546.

STATEMENT  
IN OBSERVANCE OF  
RADIATION PROTECTION WEEK

*Whereas*, radiation is a useful and necessary part of our modern world; and

*Whereas*, Delaware has long recognized the efforts of students, teachers, and radiation protection professionals to deliver high quality, safe radiation procedures to protect the health and quality of life for Delawareans; and

*Whereas*, the Authority on Radiation Protection provides regulatory oversight and raises public awareness of radiation exposure to protect Delawareans and is celebrating its 40th anniversary; and

*Whereas*, the Office of Radiation Protection within the Division of Public Health regulates the use of ionizing radiation in medicine, industry, research and education, and provides health protection resources in the event of a radiological emergency; and

*Whereas*, Delaware Technical Community College is celebrating its 50th anniversary and has a two-year, associate degree Radiologic Technology program at its Georgetown and Wilmington campuses, feeding an employment pool of qualified health care workers in Delaware; and

*Whereas*, the Radiologic Technology Program at Owens Campus, celebrating its 30th anniversary, teaches how to administer quality, safe radiation procedures for careers in radiologic technology, nuclear medicine technology, and dental assisting; and

*Whereas*, radiation protection professionals work in partnership throughout fields such as health care, research and development, education, industry, and government to bring the benefits of radiation to the public while minimizing the hazards of radiation exposure; and

*Whereas*, we call upon Delawareans to protect and enhance their personal health by learning more about their exposure to radiation through the Authority on Radiation Protection's web portal, [www.delaerationprotection.org](http://www.delaerationprotection.org)

*Note, Therefore, I, Jack A. Markell, Governor,*  
do hereby declare November 6<sup>th</sup> - 12<sup>th</sup>, 2016,

## RADIATION PROTECTION WEEK

in the State of Delaware, and urge all Delawareans to join us in supporting this observance.



Jack A. Markell  
Governor

16-0782  
Number

## Call for News

### Call for News

*Would you like to share some information about your work, or some project or issue that you're involved in?*

CRCPD is interested in what you are doing and would like to share your knowledge and experiences with other CRCPD members through a feature article in the ***Newsbrief***.

If you would like to submit an article, please contact Ruth McBurney ([rmcburney@crcpd.org](mailto:rmcburney@crcpd.org)) suggesting a topic you'd like to present.

The ***Newsbrief*** is published six times a year, in even numbered months. Deadline for submission is the 15th of the month of publication.

We welcome your news and photographs, too, if you'd like to share.



## CRCPD Board of Directors

<i>Board position</i>	<i>Name</i>	<i>State</i>	<i>Work Phone</i>	<i>E-mail address</i>
Chairperson.....	Jared Thompson.....	Arkansas .....	501/661-2173.....	jared.thompson@arkansas.gov
Chairperson-Elect .....	Dave Allard, CHP .....	Pennsylvania.....	717/787-2480.....	djallard@pa.gov
Past Chairperson .....	William Irwin, Sc.D., CHP.....	Vermont.....	802/865-7730.....	william.irwin@vermont.gov
Treasurer .....	Aaron Gantt.....	South Carolina.....	803/545-4420.....	ganttaa@dhec.sc.gov
Treasurer-Elect .....	Cindy Becker.....	Florida.....	850/245-4266.....	cindy.becker@flhealth.gov
Member-at-Large.....	Ken Yale.....	Michigan.....	517/930-5784.....	yalek@michigan.gov
Member-at-Large.....	Jennifer Elee.....	Louisiana .....	318/362-5367.....	jennifer.elee@la.gov
Member-at-Large.....	Jeff Day.....	LA Co./CA.....	213/351-7387.....	jsday@ph.lacounty.gov

## CRCPD Councils

<b>Environmental Nuclear Council</b>	<b>David Allard (PA) 717/787-2480</b> <b>djallard@pa.gov</b>
<b>General Council and Liaisons</b>	<b>Aaron Gantt (SC) 803/545-4420</b> <b>ganttaa@dhec.sc.gov</b>
<b>Healing Arts Council</b>	<b>Jennifer Elee (LA) 318-362-5367</b> <b>jennifer.elee@la.gov</b>
<b>Homeland Security/Emergency Response Council</b>	<b>Jeff Day (LA Co./CA) 213/351-7387</b> <b>jsday@ph.lacounty.gov</b>
<b>Suggested State Regulations Council</b>	<b>Ken Yale (MI) 517/930-5784</b> <b>yalek@michigan.gov</b>

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*The Newsbrief is written to address the needs of all radiation control program personnel. Readers are encouraged to contribute newsworthy or informative items for the Newsbrief, with neither charges nor stipends for the items that are selected. News of state radiation control programs is especially sought.*

*Articles should be sent to CRCPD, Attn: Sue Smith, 1030 Burlington Lane, Suite 4B, Frankfort, KY 40601 (fax: 502/227-7862; email: <ssmith@crcpd.org>). The deadline for contributions is the 15th of the month before an issue is to be published.*

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