



Member Documents





RP ALARA Association

Winter 2025
Conference

A. RPAC 2025 Attendees

Name	Utility	Plant	Email	State	Plant Design
Iman Alhosani	ENEC	Barakah	iman.alhosani@enec.ae	UAE	CE
Charity Stopka	Constellation	Braidwood	charity.stopka@constellation.com	IL	WH 4 Loop
Joe Coughlin	Constellation	Braidwood	joseph.coughlin@constellation.com	IL	WH 4 Loop
Adam Gilliam	Ameren	Callaway	agilliam@ameren.com	MO	WH 4 Loop
Frank Owens	Constellation	Clinton	Frank.Owens@constellation.com >	IL	BWR
Peter Imm	Constellation	Corporate	peter.imm@constellation.com	IL	corporate
Ryan Brown	Vistra	Davis Besse	rbrown2@energyharbor.com	OH	B&W
Felix Martinez	PG&E	Diablo	felix.martinez@pge.com	CA	WH 4 Loop
Melanie Clayton	Southern	Farley	mnclayto@southernco.com	AL	WH 3 Loop
Jeff Orgeron	Southern	Farley	jporgero@southernco.com	AL	WH 3 Loop
Robin Miller	Constellation	Limerick	Robin.Miller@constellation.com	PA	BWR
Heather Hatton	Framatome	n/a	heather.hatton@framatome.com	VA	ALARA
Travis Dye	Dominion	North Anna	travis.a.dye@dominionenergy.com	VA	WH 3 Loop
Eilert Meyers	APS	Palo Verde	eilert.meyers@aps.com	AZ	CE
David Martin	Xcel	Prairie Island	david.r.martin@xcelenergy.com	MN	WH 2 Loop
Michael Smith	Nextera	Seabrook	michael.smith4@nexteraenergy.com	NH	WH 4 Loop
Randall Sickler	STP	STP	rrsickler@stpegs.com	TX	WH 4 Loop
Eric Hood	STP	STP	eghood@stpegs.com	TX	WH 4 Loop
Jordan Bristow	Dominion	Surry	jordan.t.bristow@dominionenergy.com	VA	WH 3 Loop
Michael Beyer	Southern	Vogtle 1&2	mfbeyer@southernco.com	GA	WH 4 Loop
Joseph Campanella	Southern	Vogtle 3&4	jdcampan@southernco.com	GA	WH 4 Loop
TJ Cook	TVA	Watts Bar	tjcook@tva.gov	TN	Ice
Michael Harrison	TVA	Watts Bar	jmharrison@tva.gov	TN	Ice
Michael Quinnett	Evergy	Wolf Creek	mlquinnett@outlook.com	KS	WH 4 Loop
Bob French	Evergy	Wolf Creek	Godwins53115@yahoo.com	KS	WH 4 Loop



B. RPAC 2025 Vendors

1. Vendor List

C. High Interest Topics by Station

1. Barakah
2. Braidwood
3. Clinton
4. Davis-Besse
5. Diablo Canyon
6. Palo Verde
7. Seabrook
8. South Texas Project
9. Vogtle 1&2
10. Vogtle 3&4

D. Breakout Sessions

1. Ice Condensers, BWRs, CANDU, CE
2. Westinghouse 4-Loop Group A
3. Westinghouse 4-Loop Group B, B&W
4. Westinghouse 2&3 Loop

E. Presentations

1. Occupational and Public Radiation Safety
2. HP Failed Fuel Experiences and Lessons Learned

F. Meeting Critiques

1. Critique package

RP ALARA Conference 2025W
Vendor List



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Key West, FL
NSA Vendors



3M | <https://www.3m.com>

119 Abigail Drive, Mars, PA, 16046

Roger Roettger

412-638-8054

rlroettger3@mmm.com



Advetage Solutions, LLC | <https://www.advetage.com>

111 Penn Street, Suite 202, El Segundo, CA, 90245

Bob Thomson

waiting

bob.thomson@advetage.com



American Ceramic Technology, Inc. | www.silflexshielding.com

12909 Lomas Verdes Drive, Poway, CA, 92064

Dan Stoltz

479-264-2159

stoltz@silflexshielding.com

Lou Foreaker

508-783-0232

alaralou@silflexshielding.com



AVANTech, LLC | www.avantechllc.com

2050 American Italian Way, Columbia, SC, 29209

Bob Denne

865-384-1318

rdenne@avantechllc.com

Larry Beets

865-765-4709

lbeets@avantechllc.com



Curtiss-Wright | <https://www.curtisswright.com>

44 Shelter Rock Road, Danbury, CT, 06810

James Hedtke

203-448-8309

jhedtke@curtisswright.com

Lisa Littrell

256-270-3921

llittrell@curtisswright.com



Dominion Engineering, Inc. | <https://domeng.com>

12100 Sunrise Valley Drive, Suite 220, Reston, VA, 20191

Joe Agnew

704-594-0900

jagnew@domeng.com

Markus Burkardt

703-657-7333

mburkardt@domeng.com



Eastern Technologies, Inc. | www.easterntechnologies.com

215 2nd Avenue, Ashford, AL, 36312

Kaci Harrell

334-805-7002

kharrell@orex.com

Ray McCullers

334-796-2013

rmccullers@orex.com



Framatome Inc. Nuclear Parts Center | www.framatome.com

3315 Old Forest Road, Lynchburg, VA, 24503

Billy Arrington

704-230-7145

billy.arrington@framatome.com

Hannah Arrington

704-658-5860

hannah.arrington@framatome.com

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FRHAM Safety Products, Inc. | www.frhamsafety.com



171 Grayson Road, Rock Hill, SC, 29732

Bobby Harper 803-517-8505

bharper@frhamsafety.com

Robbie Millen 704-458-3590

rmillen@frhamsafety.com

Gamma Reality, Inc. | www.gammareality.com



1301 South 46th Street, Suite B478-102, Richmond, CA, 94804

Andy Haefner 510-365-5415

ahaefner@gammareality.com

Erika Suzuki 510-542-9025

esuzuki@gammareality.com

Gentex Corporation – PureFlo | www.gentexcorp.com/pureflo



324 North Main Street, Carbondale, PA, 18407

Adam Hoffman 803-230-3418

ahoffman@frhamsafety.com

Ronnie Dunne 980-322-1030

rdunne@gentexcorp.com

Graftel, LLC | <https://www.graftel.com>



95 Chancellor Drive, Roselle, IL, 60172

David Glover 312-961-2224

dglover@graftel.com

H3D, Inc. | <https://h3dgamma.com>



812 Avis Drive, Ann Arbor, MI, 48108

Dave Nestle

dnestle@h3dgamma.com

Innovative Industrial Solutions | <https://i-i-s.net/>



2830 Skyline Drive, Russellville, AR, 72802

Austin Robinson 479-857-8208

arobinson@i-i-s.net

James Hicks 479-857-6201

jhicks@i-i-s.net

Konecranes Nuclear Equipment & Services, LLC | <https://www.konecranes.com>



5300 South Emmer Drive, New Berlin, WI, 53151

Andrew Grooms 513-545-8161

andrew.grooms@konecranes.com

John Allen 904-779-6506

john.allen@konecranes.com

Joseph Botros 514-979-2877

joseph.botros@konecranes.com

Juergen Gieske 262-853-2062

juergen.gieske@konecranes.com

Lancs Industries, Inc. | www.lancsindustries.com



1420 Mission Avenue NE, Albuquerque, NM, 87107

Rocco Frumento 505-738-7200

rfrumento@lancsindustries.com

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Master-Lee Decon Services | <https://masterlee.com>

5631 Route 981, Latrobe, PA, 15650

Rick McCormick 609-923-4772

Steve Senitta 724-518-0437

mccormick-r@masterlee.com

senitta-sm@masterlee.com



Mirion Technologies, Inc. | <https://www.mirion.com>

800 Research Parkway, Meriden, CT, 06450

Kris Bauer

Robert (Kip) Kelley

kbauer@mirion.com

rkelly@mirion.com



NPO, LLC | <https://www.npo.us.com>

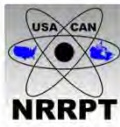
1955 University Lane, Lisle, IL, 60532

Christy Branham 843-601-7452

Rebecca Harper 630-796-1781

cbranham@npo.us.com

rharper@npo.us.com



NRRPT | www.nrrpt.org

PO Box 3084, Westerly, RI, 02891

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Kelli Gallion-Sholler 949-533-4246

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galliok@yahoo.com



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1111 Pasquinelli Drive, Suite 350, Westmont, IL, 60559

Jim Kingwill 847-537-9196

jim@kingwill.com



Preferred Engineering | <https://preferred-engineering.com>

31-35 South Street, Danbury, CT, 06810

Luke Heikkila 218-343-0630

lheikkila@preferred-mfg.com



RADeCO, Inc. | <https://radecoinc.com>

17 West Parkway, Plainfield, CT, 06374

Keith Lovendale 860-884-1220

klovendale@radecoinc.com



Radiation Safety & Control Services, Inc. | <https://www.radsafety.com>

93 Ledge Road, Seabrook, NH, 03874

Ellen Anderson 603-474-6720

Marty Phalen 603-474-6720

epanderson@radsafety.com

martyphalen@radsafety.com

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Radiation Protection Systems | <https://radprosys.com>

60 Leonard Drive, Groton, CT, 06340

Art Soma 614-725-7929

asoma@radprosys.com

Don Beal 704-941-5588

dbeal@radprosys.com



Thermo Fisher Scientific | <https://www.thermofisher.com>

One Thermo Fisher Way, Oakwood Village, OH, 44146

Bob Thomson 603-560-2339

bob.thomson@thermofisher.com

Cary Webber 440-391-6219

cary.webber@thermofisher.com

Rich Palatine 770-703-9933

rich.palatine@thermofisher.com



Ultra Energy | <https://www.ultra.energy>

707 Jeffrey Way, Round Rock, TX, 78665

Bruce Weir 512-422-6858

bruce.weir@ultra-nspi.com



UniTech Services Group | <https://www.unitechus.com>

138 Longmeadow Street, Suite 202, Longmeadow, MA, 01106

Denise Arlen 413-427-632

darlen@unitechus.com

Shannon Fitzgerald 920-905-0195

sfitzgerald@unitechus.com



Uitcom Systems, Inc. | <https://uticom.net>

109 Independence Way, Coatesville, PA, 19320

Kristie Beers 610-857-2655

kristie@uticom.net

Kristina Rogowski 610-857-2655

kristina@uticom.net



V3 Integrators | <https://v3integrators.com>

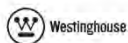
463 Dinwiddie Avenue, Waynesboro, VA, 22980

David Cruise

dcruise@v3is.com

Jayeesh Bakshi 434-962-5331

jbakshi@v3is.com



Westinghouse Electric Company, LLC | <https://westinghouse.com>

1000 Westinghouse Drive, Cranberry Township, PA, 16066

Dave Brenner 901-691-5670

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Jim Montgomery 407-793-1337

jim.montgomery@westinghouse.com

Tom Kennedy 585-280-8136

thomas.kennedy@westinghouse.com

High Interest Topics
RP ALARA Conf. 2025 Winter



- 1. Barakah**
- 2. Braidwood**
- 3. Clinton**
- 4. Davis-Besse**
- 5. Diablo Canyon**
- 6. Palo Verde**
- 7. Seabrook**
- 8. South Texas Project**
- 9. Vogtle 1&2**
- 10. Vogtle 3&4**

High Interest Topics Barakah



- 1. Can you share procedures on mass airborne events to include when it's declared and actions?**
- 2. Please share failed fuel action plans and procedures.**
- 3. Cobalt Reduction Program. What is required in the procedure on a yearly basis? How often do we present it (status) to the SAC?**
- 4. If using SAP, what have you done as far as add-ons of dose estimates in the work order?**
- 5. Can you share emergency abnormal response procedures?**
- 6. Does your station have a dose rate limit on HEPAs and vacuums? Is the limit different in outages?**
- 7. Users with VSDS and Web Viewer. Is Web Viewer used in lieu of the actual VSDS and do you also view RWPs?**

HIGH INTEREST TOPIC QUESTIONNAIRE

2025 Winter RP-ALARA Conference Key West, FL Jan 28-30



Topic: Can you share Procedures on mass airborne event? When its declared & Actions?

Name: Iman Al Hosani Contact Info: Iman.AlHosani@enec.ae

Contact (Name)	Plant	NSSS	Comments
	Barakah	CE	
	Beaver Valley	3LW	
Joe C	Braidwood	4LW	NOT allowed
ADAM GILLIAN	Callaway	4LW	NOT CURRENTLY
FRANK OWSEALS	Clinton	BWR	NOT AT current time
Ryan Brown	Davis-Besse	B&W	ryan.brown1@vistra.com
FELIX MARTINEZ	Diablo Canyon	4LW	I'll TAKE A LOOK & GET BACK TO YOU.
	Farley	3LW	
	Framatome	N/A	
Robin Milk	Limerick	BWR	Not allowed
	North Anna	3LW	
FELERT MEYERS	Palo Verde	CE	Contact we have a procedure
D. MARK	Prairie Island	2LW	Do Not Have
M Smith	Seabrook	4LW	ERO events, will have to ask if I can share
	Sequoyah	ICE	

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HIGH INTEREST TOPIC QUESTIONNAIRE

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	STP	4LW	
Jordan Bristow	Surry	3LW	not currently
	Vogtle 1 & 2	4LW	
Joe CAMPANELLA	Vogtle 3 & 4	4LW	Airborne Area Greater than 40.3 DAE workers Leave Area
TJ Cook	Watts Bar	ICE	Yes
Michael Quinnett	Wolf Creek	4LW	michael.quinnett@energy.com

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HIGH INTEREST TOPIC QUESTIONNAIRE

2025 Winter RP-ALARA Conference Key West, FL Jan 28-30



Topic: Fail Fuel action Plans & Procedures? (Please share)

Name: Iman AlHosani Contact Info: Iman.AlHosani@enec.ae

Contact (Name)	Plant	NSSS	Comments
	Barakah	CE	
	Beaver Valley	3LW	
Joc C	Braidwood	4LW	Not Allowed
Adam Gilliam	Callaway	4LW	No Central Procedure for Failed Fuel
Fredrick Owens	Clinton	BWR	Not possible at this time
Ryan Brown	Davis-Besse	B&W	ryan.brown1@vistraqcorp.com
Felix Martinez	Diablo Canyon	4LW	I'll take a look and see what I can share
	Farley	3LW	
	Framatome	N/A	
Robin Miller	Limerick	BWR	Will look about our training (RPCT) procedures - confidential robin.miller@constellation.com
	North Anna	3LW	
EILERT MEYERS	Palo Verde	CE	No Procedure
Dr. Mark A. Smith	Prairie Island	2LW	No Procedure
M. Smith	Seabrook	4LW	I can share
	Sequoyah	ICE	

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HIGH INTEREST TOPIC QUESTIONNAIRE

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	STP	4LW	
Jordan Bristow	Surry	3LW	not currently
	Vogtle 1 & 2	4LW	
Joe CAMPANELLA	Vogtle 3 & 4	4LW	will look into it JDCAMPAN@SouthernCo.com
	Watts Bar	ICE	
Michael Quinnett	Wolf Creek	4LW	not currently

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HIGH INTEREST TOPIC QUESTIONNAIRE

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Topic: Cobalt Reduction Program- What required in the procedure on a yearly basis? AND how often do we present it (Status) to SAC?

Name: Iman AlHosani

Contact Info: Iman.AlHosani@nec.ae

Contact (Name)	Plant	NSSS	Comments
	Barakah	CE	
	Beaver Valley	3LW	
Joe C	Braidwood	4LW	Eval of intrusive vlv work. Annual SAC
ADAM GILMAN	Callaway	4LW	IS AN ENG DESIGN GUIDE. COBALT WILL BE BROUGHT UP DURING MOD PROCESS IF OPS OF SET CRITERIA
FRANK OWENS	Clinton	BWR	Contact for info fowens@constellation.com
Ryan Brown	Davis-Besse	B&W	ryan.brown1@vistacorp.com
Felix Martinez	Diablo Canyon	4LW	WE REPORT IT TO ARC DURING ROSE APPROVALS. ENG DESIGN GUIDE
	Farley	3LW	
	Framatome	N/A	
Robin Miller	Limerick	BWR	robin.miller@constellation.com
	North Anna	3LW	
EILERT MEYER	Palo Verde	CE	Look into it
D. Mark	Prairie Island	2LW	It's managed w/ Chemistry
M. Smith	Seabrook	4LW	Chemistry Controlled
	Sequoyah	ICE	

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HIGH INTEREST TOPIC QUESTIONNAIRE

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Topic: if using SAP, what have you done as far as Add-ons of dose estimates in work orders.

Name: Iman Al Hosani

Contact Info: Iman.AlHosani@ENEC^{ae}.com

Contact (Name)	Plant	NSSS	Comments
	Barakah	CE	
	Beaver Valley	3LW	
Joec	Braidwood	4LW	Don't use
ADAM GILMAN	Callaway	4LW	Don't use
FRANK OWENS	Clinton	BWR	Do not use SAP. Sentinel used
Ryan Brown	Davis-Besse	B&W	No add-ons that I am aware of
FELIX MARTINEZ	Diablo Canyon	4LW	ESTIMATES GET AUTOMATICALLY ADDED INTO THE WORK ORDER.
Joe Bloom	Farley	3LW	Don't use
	Framatome	N/A	
	Limerick	BWR	N/A
	North Anna	3LW	
	Palo Verde	CE	
D. Mavle	Prairie Island	2LW	Born as ready work orders.
M Smith	Seabrook	4LW	Don't use
	Sequoyah	ICE	

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HIGH INTEREST TOPIC QUESTIONNAIRE

2025 Winter RP-ALARA Conference Key West, FL Jan 28-30



Topic: Can you share Emergency Abnormal Response Procedures?

Name: Iman AlHosani Contact Info: ImanAlHosani@ener.be

Contact (Name)	Plant	NSSS	Comments
	Barakah	CE	
	Beaver Valley	3LW	
Joe C	Braidwood	4LW	Not allowed
ADAM GILLIAN	Callaway	4LW	I CAN CHECK
FRANK OWENS	Clinton	BWR	NOT AT THIS TIME
Ryan Brown	Davis-Besse	B&W	ryan.brown1@nrdre.com
Felix MARTINEZ	Diablo Canyon	4LW	PLEASE EMAIL AND SPECIFY WHAT TYPE OF EMERG. RESPONSE.
Steve Bloom	Farley	3LW	Cont
	Framatome	N/A	
Robin Miller	Limerick	BWR	Robin.miller@constellation.com
	North Anna	3LW	
EILERT MEYERS	Palo Verde	CE	Will Look
D. M. AS	Prairie Island	2LW	I'll check
M Smith	Seabrook	4LW	I will check
	Sequoyah	ICE	

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HIGH INTEREST TOPIC QUESTIONNAIRE

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Topic: Does your Station have a dose rate limit on HEPAS & Vacuums?
Is the limit different in outages?

Name: Iman Altosani Contact Info: Iman.Altosani@enec.ae

Contact (Name)	Plant	NSSS	Comments
	Barakah	CE	
	Beaver Valley	3LW	
Joe C.	Braidwood	4LW	Depends on use and area used in as well as postings. Generally NOT looking to change area conditions
Adam Gilliam	Callaway	4LW	No limit, but cant challenge postings in area
FRANK OWENS	Clinton	BWR	Yes but contact for limit or will send. need to validate
Ryan Brown	Davis-Besse	B&W	Yes, not different for outages
Felix Martinez	Diablo Canyon	4LW	YES. DEPENDS ON THE INTENDED USE.
	Farley	3LW	
	Framatome	N/A	
Rabin Miller	Limerick	BWR	email me
	North Anna	3LW	
EVERT MEYERS	Palo Verde	CE	I can send info reach out
D. Marten	Prairie Island	2LW	And ARM RPM permission IS ACA areas
M. Smith	Seabrook	4LW	Depends on project and past history. General use yes
	Sequoyah	ICE	

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HIGH INTEREST TOPIC QUESTIONNAIRE

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	STP	4LW	
Jordan Bristow	Surry	3LW	based on posting in area. Don't like to allow vposting just for HEPA/vac
	Vogtle 1 & 2	4LW	
Joe CAMPANELLA	Vogtle 3 & 4	4LW	No Difference w limit online or outage
TJ Cook	Watts Bar	ICE	Yes outage & online same
Michael Quinnett	Wolf Creek	4LW	Depends on the posting of the area the HEPA is in.

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HIGH INTEREST TOPIC QUESTIONNAIRE

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Topic: Users with USDS & webviewer, is webviewer used in-con of the actual USDS & do you also view RWP's?

Name: Iman AlHosani Contact Info: Iman.AlHosani@enec.ae

Contact (Name)	Plant	NSSS	Comments
	Barakah	CE	
	Beaver Valley	3LW	
Joe C	Braidwood	4LW	Don't use
MOAM GILLIAM	Callaway	4LW	Yes WEBVIEWER IS ACCESSIBLE ON ALL NETWORK COMPUTERS
FRANK OWENS	Clinton	BWR	Do not have USDS
Ryan Brown	Davis-Besse	B&W	Techs & supervisors have production version. Do not use it for RWP's WE DONT HAVE THIS SOFTWARE
Felix Martinez	Diablo Canyon	4LW	
	Farley	3LW	
	Framatome	N/A	
Robin Miller	Limerick	BWR	Don't use
	North Anna	3LW	
Elliott Meyers	Palo Verde	CE	Yes
Demond	Prairie Island	2LW	We have USDS but not RWP viewer. We view surveys.
M Suite	Seabrook	4LW	We use basic webviewer we turn it off during outages
	Sequoyah	ICE	

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HIGH INTEREST TOPIC QUESTIONNAIRE

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Randell Sickler	STP	4LW	we dont currently use VSDS.
Jordan Bristow	Surry	3LW	we only use VSDS for surveys.
	Vogle 1 & 2	4LW	
Joe CAMPANELLA	Vogle 3 & 4	4LW	DO NOT HAVE VSDS
	Watts Bar	ICE	
Michael Quinnett	Wolf Creek	4LW	No, VSDS is used to write-up surveys. Webviewer is encouraged to be used by work groups.

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High Interest Topics Braidwood



GAIA Fuel. Does anyone use this fuel and, if so, have you had any issues with it or any issues with your programs?

HIGH INTEREST TOPIC QUESTIONNAIRE

2025 Winter RP-ALARA Conference Key West, FL Jan 28-30



Topic: GALIA Fuel - Does anyone use this fuel, and if so have you had any issues with it or any issues with your programs.

Name: Charity Stopka Contact Info: charity.stopka@constellation.com
319-551-0525 Cell

Contact (Name)	Plant	NSSS	Comments
<u>Raymond Rouse</u> <u>Iman Alhansani</u>	Barakah	CE	<u>NO - Korea supplies fuel</u>
	Beaver Valley	3LW	
	Braidwood	4LW	
<u>Adam Gilliam</u>	Callaway	4LW	<u>YES, NO ISSUES BUT ONLY HAVE USED PILOT ASSEMBLIES NOT FULL CORE</u>
	Clinton	BWR	
<u>Ryan Brown</u>	Davis-Besse	B&W	<u>- Need to ask, will follow up w/you</u>
<u>Felix Martinez</u>	Diablo Canyon	4LW	<u>I WILL ASK & FOLLOW UP</u>
<u>Steve Bloom</u>	Farley	3LW	<u>Will have to ask.</u> <u>sbloom@southernco.com</u>
	Framatome	N/A	
<u>Robin Miller</u>	Limerick	BWR	<u>NO</u>
	North Anna	3LW	
<u>Eliert Meyers</u>	Palo Verde	CE	<u>No</u>
<u>D. Mantel</u>	Prairie Island	2LW	<u>No</u>
<u>Michael Smith</u>	Seabrook	4LW	<u>No</u>
	Sequoyah	ICE	
<u>E Hood</u>	STP	4LW	<u>No</u>

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HIGH INTEREST TOPIC QUESTIONNAIRE

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Jordan Bristow	Surry	3LW	Not sure, can follow up.
MIKE BETHZ	Vogtle 1 & 2	4LW	No
Joe CAMPANELLA	Vogtle 3 & 4	4LW	NOT sure, CAN Follow up
TJ Cook	Watts Bar	ICE	Not sure
Michael Quinnett	Wolf Creek	4LW	can follow-up

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High Interest Topics Clinton



Chemistry Support. Does chemistry support your station 24/7 by having chemistry technicians on shift?

HIGH INTEREST TOPIC QUESTIONNAIRE

2025 Winter RP-ALARA Conference Key West, FL Jan 28-30



Topic: Chemistry Support - Does chemistry support your station 24/7 by having chemistry technicians on shift

Name:

Contact Info: Frank Owens (frank.owens@constellation.com)

Contact (Name)	Plant	NSSS	Comments
Raymond Rouse Iman Al Hosani	Barakah	CE	Yes, 1 primary 1 secondary 24/7
	Beaver Valley	3LW	
Joe C	Braidwood	4LW	Yes
Adam Gilliam	Callaway	4LW	Yes; 1 TECH
	Clinton	BWR	
Ryan Brown	Davis-Besse	B&W	Yes
Felix Martinez	Diablo Canyon	4LW	Yes
Steve Bloom	Farley	3LW	yes
	Framatome	N/A	
Robin Miller	Limerick	BWR	Yes
	North Anna	3LW	
	Palo Verde	CE	Not ERO Required / Staffed 24/7 still
D. Mank	Prairie Island	2LW	Yes
M Smith	Seabrook	4LW	yes, 1 chem tech on shift
	Sequoyah	ICE	
Eric Hood	STP	4LW	Yes. 1 per Unit 24/7. Also provides initial ERO support.

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High Interest Topics

Davis-Besse



- 1. Have you used robotics/drones in the containment at power? If so, what kind?**
- 2. Has you plant ever taken the reactor critical with people inside the containment? (PWR Only)**

HIGH INTEREST TOPIC QUESTIONNAIRE

2025 Winter RP-ALARA Conference Key West, FL Jan 28-30



Topic: Have you used robotics /drones in containment at power?
If so, what kind?
Name: Ryan Brown Contact Info: ryan.brown1@vistra.com

Contact (Name)	Plant	NSSS	Comments
Raymond Rouse Iman alhosani	Barakah	CE	Yes, we use SPOT in containment
	Beaver Valley	3LW	
Joe C	Braidwood	4LW	ROBOT with cord controls IMB. No drones
ADAM GILLIAM	Callaway	4LW	No
	Clinton	BWR	
Ryan Brown	Davis-Besse	B&W	Not attempted
Felix Martinez	Diablo Canyon	4LW	No
Steve Bloom	Farley	3LW	No
	Framatome	N/A	
	Limerick	BWR	N/A
	North Anna	3LW	
ELBERT MENEYS	Palo Verde	CE	No -
D. MARTIN	Prairie Island	2LW	Spot
M Smith	Seabrook	4LW	No
	Sequoyah	ICE	
	STP	4LW	

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HIGH INTEREST TOPIC QUESTIONNAIRE

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Jordan Bristow	Surry	3LW	Yes drone for REP cube inspection on ventilation.
	Vogle 1 & 2	4LW	
be CAMPANELLA	Vogle 3 & 4	4LW	NO
TJ Cook	Watts Bar	ICE	Yes not for Sure type
Michael Quinnett	Wolf Creek	4LW	No

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HIGH INTEREST TOPIC QUESTIONNAIRE

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Topic: Has your plant ever taken the reactor critical with people inside containment? (PWR only)

Name: Ryan Brown

Contact Info: ryan.brown1@vistra-corp.com

Contact (Name)	Plant	NSSS	Comments
Raymond Rouse Iman Athosani	Barakah	CE	No, not during power changes
	Beaver Valley	3LW	
Joe C	Braidwood	4LW	No
Adam Gilliam	Callaway	4LW	No
Frank Owens	Clinton	BWR	Not PWR BWR
	Davis-Besse	B&W	
Felix Martinez	Diablo Canyon	4LW	No
Steve Sloan	Farley	3LW	No
	Framatome	N/A	
	Limerick	BWR	
	North Anna	3LW	
Eliert Meyers	Palo Verde	CE	No
D. Mark	Prairie Island	2LW	No We do not have power people FZ procedure in Cont.
M. Smith	Seabrook	4LW	No
	Sequoyah	ICE	
Eric Hood	STP	4LW	No

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HIGH INTEREST TOPIC QUESTIONNAIRE

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Jordan Bristar	Surry	3LW	No
Mike Bayer	Vogtle 1 & 2	4LW	No
JOE CAMPANELLA	Vogtle 3 & 4	4LW	only during initial Reactor Startup ops is instructed NOT to move power with personnel inside containment
TJ Cook	Watts Bar	ICE	NO
Michael Quinnett	Wolf Creek	4LW	No

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High Interest Topics Diablo Canyon



1. **Remote Briefings.** Are remote briefings useful at your station? How soon after completing a remote brief are workers expected to start work?
2. **Reverse Osmosis Unit.** Has your station changed out the membrane for your Reverse Osmosis Unit? Can you share your data?
3. **Work Planning.** If your station utilizes virtual tours, what kind of impact has it had on station performance and processes? Positive? Negative?
4. **3D Printing.** Does your station utilize 3D printing to develop radiation shielding? If so, what printer do you use? What software do you use?
5. **Dosimeter Setpoints.** Do you set your dosimeter setpoints for HRAs to alarm at < 100-mR/hr?
6. **Work Planning.** How do you monitor for work scope changes during refueling outages?
7. **Robotics.** What types of robots (i.e., drones, Spot, etc.) do you use at your station? Do you use it regularly? If so, for what tasks?
8. **RCA Entry Questions.** Are radiation workers at your station required to answer questions prior to entry into the RCA? If so, do you require they answer questions before entering HRA/LHRA areas?
9. **Challenges.** What challenges do you feel will have the greatest impact upon your group over the next 6 months? Next year?
10. **Exposure Reporting.** Do you have a "one-size-fits-all" type of exposure reporting? Can you share some examples (DCPP examples attached)? Do you follow a 1-3-10 model?
11. **When working with reduced personnel,** what tools do you utilize to maintain efficiency in terms of work planning?
12. **Filtration.** Does your station utilize 0.05-micron letdown filters? Do you get a better performance with 0.05-micron as opposed to 0.1-micron filters?
13. **Special inspections.** Has your station performed 10-YR RV, Clevis Bolt inspections, or RV specimen removal?

HIGH INTEREST TOPIC QUESTIONNAIRE

2025 Winter RP-ALARA Conference Key West, FL Jan 28-30



Topic: Remote Briefings. Are remote briefings useful at your station? How soon after completing a remote brief are workers expected to start work?

Name: **Felix Martinez**

Contact Info: **felix.martinez@pge.com**

Contact (Name)	Plant	NSSS	Comments
Raymond Rouse Iman Alhanson	Barakah	CE	Plant staff are not experienced enough yet. R.P. ? ALARA perform briefings
	Beaver Valley	3LW	
Joe C	Braidwood	4LW	Nope
Adam Gillian	Callaway	4LW	WE NO LONGER DO REMOTE BRIEFS
	Clinton	BWR	
Ryan Brown	Davis-Besse	B&W	No remote briefings
Felix Martinez	Diablo Canyon	4LW	DCPP utilizes remote briefings for many RA/HRA entries LHRA briefings and above are performed face-to-face with the RP foreman.
Steve Sloan	Farley	3LW	No remote briefings
	Framatome	N/A	
Robin Miller	Limerick	BWR	only for self briefing ones - no HRA/LHRA or RHR rooms (review briefs over phone w/ chemistry)
	North Anna	3LW	
EILERT MEYERS	Palo Verde	CE	Tailored Approach ↳ Pre-Approved RWP pre-outage list
Dave Math	Prairie Island	2LW	No remote briefings
Michael Smith	Seabrook	4LW	we do not have remote briefings
	Sequoyah	ICE	
Eric Hood	STP	4LW	No remote briefings.

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HIGH INTEREST TOPIC QUESTIONNAIRE

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Jordan Bristow	Surry	3LW	All HRA/LHRA Entries are face to face. RA briefs are given updates with shift supervisor.
Mike Bayar	Vogtle 1 & 2	4LW	No Remote briefings
Joe CAMPANELLA	Vogtle 3 & 4	4LW	NOT USING
FS COOK	Watts Bar	ICE	Stopped Remote Briefing After COVID
Michael Quinnett	Wolf Creek	4LW	All HRA/LHRA briefs are in person. Workers may access RA's after checking in with the shift tech.

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HIGH INTEREST TOPIC QUESTIONNAIRE

2025 Winter RP-ALARA Conference Key West, FL Jan 28-30



Topic: Reverse Osmosis Unit. Has your station changed out the membrane for your Reverse Osmosis Unit? Can you share your data? Reverse
SP-2
:)

Name: **Felix Martinez**

Contact Info: **felix.martinez@pge.com**

Contact (Name)	Plant	NSSS	Comments
Raymond Rouse Iman Alhosani	Barakah	CE	Yes, I can only share RAD DATA & frequency like change.
	Beaver Valley	3LW	
Joe C	Braidwood	4LW	No, not currently in use
ADAM GILLIAM	Callaway	4LW	RO UNIT FOR CLEAN WATER ONLY
	Clinton	BWR	
Ryan Brown	Davis-Besse	B&W	Back. Reuter@vistra.com
Felix Martinez	Diablo Canyon	4LW	DCPP is scheduled to replace its reverse osmosis unit membrane in about 1-2 years.
Steve Bloom	Farley	3LW	
	Framatome	N/A	
	Limerick	BWR	
	North Anna	3LW	
EDUERT MEYERS	Palo Verde	CE	Follow up; Not sure
DMK	Prairie Island	2LW	Don't have one
M. Smith	Seabrook	4LW	I can ask if we do.
	Sequoyah	ICE	
Eric Hood	STP	4LW	No

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HIGH INTEREST TOPIC QUESTIONNAIRE

2025 Winter RP-ALARA Conference Key West, FL Jan 28-30



Topic: Work Planning. If your station utilizes virtual tours, what kind of impact has it had on station performance and processes? Positive? Negative?

Name: **Felix Martinez**

Contact Info: **felix.martinez@pge.com**

Contact (Name)	Plant	NSSS	Comments
Raymond Rouse Iman Alhosori	Barakah	CE	Yes, 2 software system Bentley and 3D virtual tour - Positive
	Beaver Valley	3LW	
Joe C	Braidwood	4LW	Yes virtual tours are used
Adam Gilliam	Callaway	4LW	No, but we have one in the works
	Clinton	BWR	
Ryan Brown	Davis-Besse	B&W	Yes. 360 panoramic photo tour on SharePoint. used fairly frequently
Felix Martinez	Diablo Canyon	4LW	DCPP work groups have reported a positive impact through use of our virtual tours. Time savings are estimated a 1-HR non-RCA, >= 2-HR RCA/CA per entry.
Steve Bloom	Farley	3LW	yes
	Framatome	N/A	
Robin Miller	Limerick	BWR	Yes, saved time - groups realized they could view it online
	North Anna	3LW	
ELLIERT MEYERS	Palo Verde	CE	We discontinued use due to licensing issues; we enjoyed it when was used
D. Martin	Prairie Island	2LW	We have it. We use Equiphoto.
M. Smith	Seabrook	4LW	We don't utilize virtual tours yet.
	Sequoyah	ICE	
Eric Hood	STP	4LW	Do Not use

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HIGH INTEREST TOPIC QUESTIONNAIRE

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Jordan Bristow	Surry	3LW	we just started. have laser scans of both ETMT now
Mike Bayar	Vogtle 1 & 2	4LW	Yes, we use Quantopoint. It has scanned images from the plant very beneficial!
Joe CAMPANELLA	Vogtle 3 & 4	4LW	Yes - Virtual tours are available for all workers to use on RP website. we have to remind workgroups to use.
TJ Cook	Watts Bar	ICE	Yes preparing update to include valve location
Michael Quinnett	Wolf Creek	4LW	Yes, working on making a digital status board off of it

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HIGH INTEREST TOPIC QUESTIONNAIRE

2025 Winter RP-ALARA Conference Key West, FL Jan 28-30



Topic: 3D Printing. Does your station utilize 3D printing to develop radiation shielding? If so:

1. What printer do you use?
2. What software do you use?

Name: **Felix Martinez**

Contact Info: **felix.martinez@pge.com**

Contact (Name)	Plant	NSSS	Comments
Raymond Rouse Emad Alhusani	Barakah	CE	NO, we are looking AT Bruce
	Beaver Valley	3LW	
Joel	Braidwood	4LW	Nope
Adam Gilliam	Callaway	4LW	NO BUT LOOKING TO START. IFC has 3D PRINTER AT CALLAWAY
	Clinton	BWR	
Ryan Brown	Davis-Besse	B&W	NO
Felix Martinez	Diablo Canyon	4LW	DCPP uses the Raise 3D Pro3 Plus and Bambu X1E printers. Software used is Solid Works for design and Raise 3D/Bambu slicing programs.
Steve Blom	Farley	3LW	yes, we have developed 2 prototypes and they are in ES space for approval
	Framatome	N/A	
Robin Miller	Limerick	BWR	No
	North Anna	3LW	
ECUERT MENIERS	Palo Verde	CE	No
D. Mark	Prairie Island	2LW	No
M Smith	Seabrook	4LW	No
	Sequoyah	ICE	
Eric Hood	STP	4LW	No

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HIGH INTEREST TOPIC QUESTIONNAIRE

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Jordan Bristow	Surry	3LW	No
Mike Beyer	Vogtle 1 & 2	4LW	We just recieved our first printer. have not used yet. contact me for specifics.
Joe CAMPANELLA	Vogtle 3 & 4	4LW	NO
TJ Cook	Watts Bar	ICE	NO
Michael Quinnett	Wolf Creek	4LW	Yes, I will have to follow-up

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HIGH INTEREST TOPIC QUESTIONNAIRE

2025 Winter RP-ALARA Conference Key West, FL Jan 28-30



Topic: Dosimeter Setpoints. Do you set your dosimeter setpoints for HRAs to alarm at < 100-mR/hr?

Name: **Felix Martinez**

Contact Info: **felix.martinez@pge.com**

Contact (Name)	Plant	NSSS	Comments
Royce Rouse Iman Alkousari	Barakah	CE	Yes, we use conservative set points we use Electronic Dosimetry AS ALARA Tool
	Beaver Valley	3LW	
Joe C.	Braidwood	4LW	Yes
Adam Gilliam	Callaway	4LW	No
	Clinton	BWR	
Ryan Brown	Davis-Besse	B&W	Yes. setpoints based on actual expected conditions
Felix Martinez	Diablo Canyon	4LW	DCPP now sets HRA setpoints for some tasks at <=80-mR/hr or < 100-mR/hr for some locations.
Melanie Cleary	Farley	3LW	Yes
	Framatome	N/A	
Robin Miller	Limerick	BWR	No
	North Anna	3LW	
ELBERT MEYERS	Palo Verde	CE	Independent of Posting; Historical Data sets set-points
D. M. Smith	Prairie Island	2LW	No
M. Smith	Seabrook	4LW	Yes
	Sequoyah	ICE	
Eric Hood	STP	4LW	No

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HIGH INTEREST TOPIC QUESTIONNAIRE

2025 Winter RP-ALARA Conference Key West, FL Jan 28-30

Jordan Bristow	Surry	3LW	Set points based on current conditions with procedural guidance.
Mike Beyer	Vogtle 1 & 2	4LW	Yes @ 80% or 80mRcm
Joe CAMPANELLA	Vogtle 3 & 4	4LW	NO
T. Cook	Watts Bar	ICE	Yes
Michael Quinnett	Wolf Creek	4LW	Yes

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HIGH INTEREST TOPIC QUESTIONNAIRE

2025 Winter RP-ALARA Conference Key West, FL Jan 28-30



Topic: Work Planning. How do you monitor for work scope changes during refueling outages?

Name: **Felix Martinez**

Contact Info: **felix.martinez@pge.com**

Contact (Name)	Plant	NSSS	Comments
Raymond Rouse Iman Alhosani	Barakah	CE	ALARA attends major work meeting, Rx, Refueling, SG and monitor through OCC
	Beaver Valley	3LW	
Joe C.	Braidwood	4LW	Daily work review mtgs for all new scope
Adam Gilliam	Callaway	4LW	NEW TASKS SHOW UP UNDER RWP REQUESTED
	Clinton	BWR	
	Davis-Besse	B&W	
Felix Martinez	Diablo Canyon	4LW	RP ALARA downloads the outage schedule and monitors for shifts in work activities/dose over a 12-hour period. This outage we will also try automated reporting.
Steve Bloom	Farley	3LW	Our OCC RP Rep keeps the group informed of any changes. The supervisors keep the schedule/activities monitored ~12hrs in advance
	Framatome	N/A	
Robin Miller	Limerick	BWR	OCC
	North Anna	3LW	
REPORT MEMBERS	Palo Verde	CE	OCC Communication
D. Martin	Prairie Island	2LW	Work orders had to be modified it goes back planning
M. Smith	Seabrook	4LW	Super Monitor in job progress report again
	Sequoyah	ICE	
Eric Hood	STP	4LW	Officially, there are change sheets. In actuality, surprise

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HIGH INTEREST TOPIC QUESTIONNAIRE

2025 Winter RP-ALARA Conference Key West, FL Jan 28-30

Jordan Bristow	Surry	3LW	Daily Scope Control meetings that require ALARA rep. Keep record to track unplanned/emergent dose.
MIKE BAKER	Vogtle 1 & 2	4LW	DAILY SCHEDULE & CR Review meetings
Joe CAMPANELLA	Vogtle 3 & 4	4LW	OCC schedule Review
D COOK	Watts Bar	ICE	Thru OCC RPREP
Michael Quinnett	Wolf Creek	4LW	I have yet to work the planning side during an outage but can follow-up

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HIGH INTEREST TOPIC QUESTIONNAIRE

2025 Winter RP-ALARA Conference Key West, FL Jan 28-30



Topic: Robotics. What types of robots (i.e., drones, Spot, etc.) do you use at your station? Do you use it regularly? If so, for what tasks?

Name: **Felix Martinez**

Contact Info: **felix.martinez@pge.com**

Contact (Name)	Plant	NSSS	Comments
Raymond Rouse Zman Alhousani	Barakah	CE	SPOT and Aero purchasing Availability
	Beaver Valley	3LW	
JoeC	Braidwood	4LW	Small drones - Have borrowed from other company sites depending on need
Adam Gillian	Callaway	4LW	DRONES BUT ONLY NON RCA SO FAR
	Clinton	BWR	
Ryan Brown	Davis-Besse	B&W	- Drones have been used outside the RCA; not a part of ALARA program
Felix Martinez	Diablo Canyon	4LW	DCPP uses the Teledyne FLIR Packbot 510 for LHRA/ VHRA entries. It works great, but we've only used it once in the last two years.
Steve Bloom	Farley	3LW	DRONES have been used for cooling tower inspections - Nothing for RCA work
	Framatome	N/A	
Robin Miller	Limerick	BWR	Drones + Spot (don't use spot) ↳ Condenser Bay → steam leaks
	North Anna	3LW	
	Palo Verde	CE	Drones meeting Next Month ↳ Robotic Crawlers [Inspections]
D. Mark	Prairie Island	2LW	Spot → LHRA entry on site
M. Smith	Seabrook	4LW	Spot → LHRA entry
	Sequoyah	ICE	
E. Hood	STP	4LW	Very Rarely - Mostly outside the RCA

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HIGH INTEREST TOPIC QUESTIONNAIRE

2025 Winter RP-ALARA Conference Key West, FL Jan 28-30



Topic: RCA Entry Questions. Are radiation workers at your station required to answer questions prior to entry into the RCA? If so, do you require they answer questions before entering HRA/LHRA areas?

Name: **Felix Martinez**

Contact Info: **felix.martinez@pge.com**

Contact (Name)	Plant	NSSS	Comments
Rasmeel Koush Iman Alkosani	Barakah	CE	Yes, challenge worker of RWP set points and hold points
	Beaver Valley	3LW	
Joel	Braidwood	4LW	Yes RCA or when getting dig in HRA brief with RPT.
Adam Gilliam	Callaway	4LW	THEY ATTEST TO HAVING READ/REVIEWED RWP. HRA/LHRA → BRIEFS
	Clinton	BWR	
Ryan Brown	Davis-Besse	B&W	HRA/LHRA reverse brief required w/ briefing technician
Felix Martinez	Diablo Canyon	4LW	DCCP requires radiation workers to answer questions prior to completing sign-in for activities with setpoints of 10-mR and 60-mR/hr (non-HRA).
Steve Blum	Farley	3LW	yes. It's the same questions for HRA/LHRA for LHRA's we have to put them into HIS-20 manually that will allow access to LRA
	Framatome	N/A	
Robin Miller	Limerick	BWR	HRA/LHRA → Briefs regio when signing into RWP on screen
	North Anna	3LW	
EILERT MEYERS	Palo Verde	CE	During Outage not Online
Duane M. Smith	Prairie Island	2LW	All RCA Entries not HRA/LHRA Reverse Brief
	Seabrook	4LW	HRA/LHRA briefed by RPT/question. Questions and hearing e RWP when signing into Sentinel
	Sequoyah	ICE	
	STP	4LW	

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HIGH INTEREST TOPIC QUESTIONNAIRE

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Jordan Bristow	Surry	3LW	All RCA entries are briefed w/ shift personnel
	Vogtle 1 & 2	4LW	
Joe CAMPARESCIA	Vogtle 3 & 4	4LW	Same as PARLEY
TJ Cook	Watts Bar	ICE	Yes, we use Reverse Prejob Brief
Michael Quinnett	Wolf Creek	4LW	Work groups are asked if they understand / have reviewed their RWf.

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HIGH INTEREST TOPIC QUESTIONNAIRE

2025 Winter RP-ALARA Conference Key West, FL Jan 28-30



Topic: Challenges. What challenges do you feel will have the greatest impact upon your group over the next 6 months? Next year?

Name: **Felix Martinez**

Contact Info: **felix.martinez@pge.com**

Contact (Name)	Plant	NSSS	Comments
Raymond Kouse Iman Alhosani	Barakah	CE	Language, BNPP has over 80 nationalities on site
	Beaver Valley	3LW	
Joe C	Braidwood	4LW	New RPT trng. Dept proficiency.
Adam Gillian	Callaway	4LW	UPCOMING REVEL. TRAINING NEW TECHS TO BE LEADS IN FUTURE OUTAGES
	Clinton	BWR	
Ryan Brown	Davis-Besse	B&W	Lack of proficiency switching to Sentinel & Maximo
Felix Martinez	Diablo Canyon	4LW	Personnel availability and work load are always a concern. Minimizing the time to target is always a focus through implementation of new technology.
	Farley	3LW	
	Framatome	N/A	
Robin Miller	Limerick	BWR	L2RIP - outage scope
	North Anna	3LW	
ELLIERT MEYERS	Palo Verde	CE	Long Term Inspections that we have not partake of in the past
D. Martin	Prairie Island	2LW	RP Resources for outages
M. Smith	Seabrook	4LW	In May we are diving in our SFP for 5-6 weeks replacing gate
	Sequoyah	ICE	
	STP	4LW	

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HIGH INTEREST TOPIC QUESTIONNAIRE

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Jordan Bristow	Surry	3LW	License Renewal Projects. Dept proficiency
	Vogtle 1 & 2	4LW	
Joe Campanella	Vogtle 3 & 4	4LW	UNIT 4 PLANNED MAINTENANCE OUTAGE IN APRIL STILL NOT EXACT PLANNED UNIT 4 FIRST RESUMPTION OUTAGE WORK PLANNING, UP TO SPEED
TJ Cook	Watts Bar	ICE	
Michael Quinnett	Wolf Creek	4LW	RP House proficiency. Staffing.

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HIGH INTEREST TOPIC QUESTIONNAIRE

2025 Winter RP-ALARA Conference Key West, FL Jan 28-30



Topic: Exposure Reporting. Do you have a "one-size-fits-all" type of exposure reporting?
Can you share some examples (DCPP examples attached)? Do you follow a 1-3-10 model?

Name: **Felix Martinez**

Contact Info: **felix.martinez@pge.com**

Contact (Name)	Plant	NSSS	Comments
Raymond Kouse Imon Alhosani	Barakah	CE	we use a 1 page report we would like a copy of this
	Beaver Valley	3LW	
Joel	Braidwood	4LW	Auto daily report. Not project specific online. Less info
Adam Gillian	Callaway	4LW	MANUAL SPREADSHEET ONLINE. AUTOMATIC REPORT DURING OUTAGE
	Clinton	BWR	
Ryan Brown	Davis-Besse	B&W	- Not familiar with any of this
Felix Martinez	Diablo Canyon	4LW	DCPP is now following a visual lean management model (1-3-10) for all reporting. High front-load work, but minimal rework of reporting.
	Farley	3LW	
	Framatome	N/A	
Robin Miller	Limerick	BWR	Outage is crazy online is cumbersome email me
	North Anna	3LW	
EDUERT MEYERS	Palo Verde	CE	We Stream Line Report Are Calc is done behind the scenes
DMAT	Prairie Island	2LW	Yes we have dose reporting
M Smith	Seabrook	4LW	Not sure about 1-3-10 model would be happy to share our dose reporting
	Sequoyah	ICE	
	STP	4LW	

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HIGH INTEREST TOPIC QUESTIONNAIRE

2025 Winter RP-ALARA Conference Key West, FL Jan 28-30

Jordan Bristow	Surry	3LW	manual excel spreadsheets that tracks and graphs.
	Vogtle 1 & 2	4LW	
Joe CAMPANELLA	Vogtle 3 & 4	4LW	MANAGE EXCEL spreadsheets
TJ COOK	Watts Bar	ICE	USE TABLEAU & POWER BI
Michael Quinnett	Wolf Creek	4LW	A short coming of our software is that there are a lot of different records
			depending on what you want.

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Diablo Canyon POD Dose Report for Thursday, January 23, 2025

Work Week 202504 (Mon 01/20 through Sun 01/26)

Actual Dose as of Wed 01/22 23:59

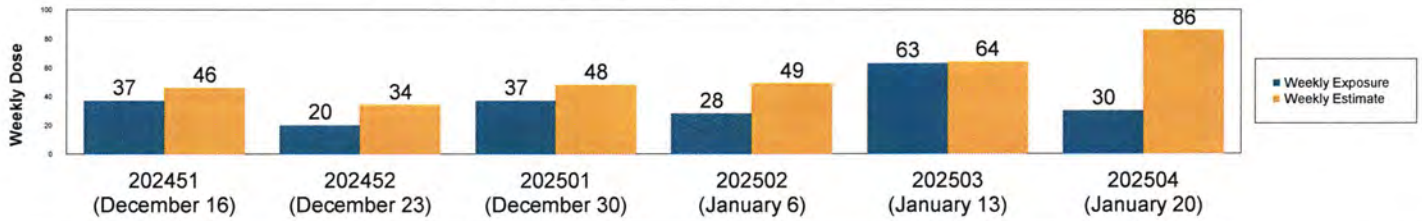
Order Work Ctr	Week to Date Actual	Total Week Est	Month to Date Actual	Month to Date Est	Month to Date Perf	Total Month Est	Year to Date Actual	Total Year Goal
E	0	15	0	11	0%	47	0	500
ME	2	3	2	3	63%	6	2	325
MI	0	0	5	5	100%	5	5	250
MM	0	8	9	15	59%	20	9	450
OC	3	7	19	22	86%	31	19	250
OP	6	10	40	47	85%	61	40	900
OR	17	40	62	75	83%	104	62	1,100
MC	0	0	0	0	0%	0	0	325
MS	0	0	0	0	0%	0	0	300
Other	2	3	6	15	40%	16	6	200
Reserve	0	0	0	0	0%	0	0	1,000
	30	86	143	193		290	143	5,600

January Month to Date
Dose Performance
(MS not graded)

- Delta between Actual & Estimate <= 10 mRem
- OR
- Actual / Estimate <= 100%
- Act. / Est. > 100% AND
- Act. Est. Delta >= 10 mRem
- OR
- Actual / Estimate > 120%
- Actual / Estimate > 120% AND
- Delta between Actual & Estimate >= 10 mRem

• "Other" includes Security, Fire, Safety, Training, etc.

Online Historical Unit 1&2 Total Exposure in mRem



Estimated Dose or Actual Dose >= 5 mRem on Wed 01/22

Order Work Ctr	Sched Start Sched End	Task Code	Task Name	Act Dose	Total Act Dose	Total Est Dose	Total Dose Perf	User Status
EPI		64294801-0100	ISI 6 Mo. BA Walkdown Aux Bldg. CLN/ADJ	0	0	80	0%	INPG (Recurring Order)
ORA		64219088-0440	OR RWP 0042 Liner Processing and Shipmen	9	39	525	7%	PLND (Recurring Order)

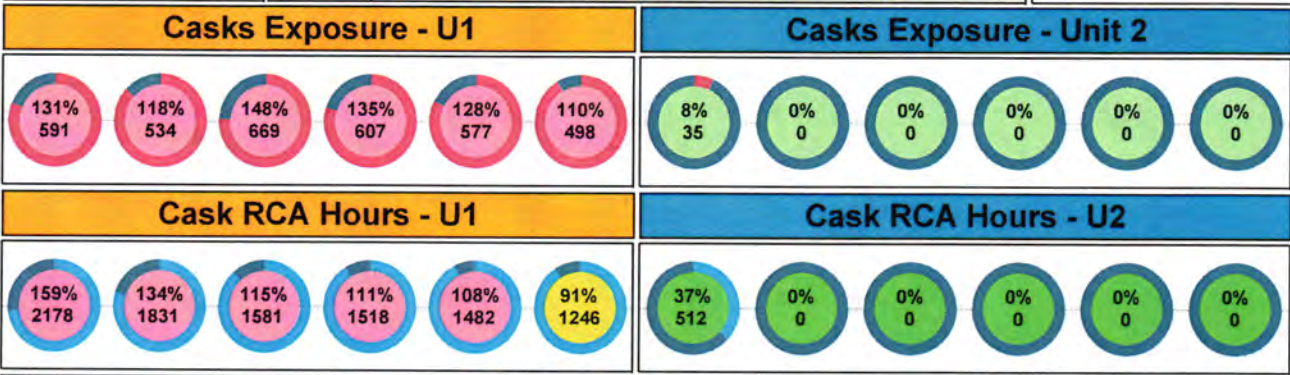
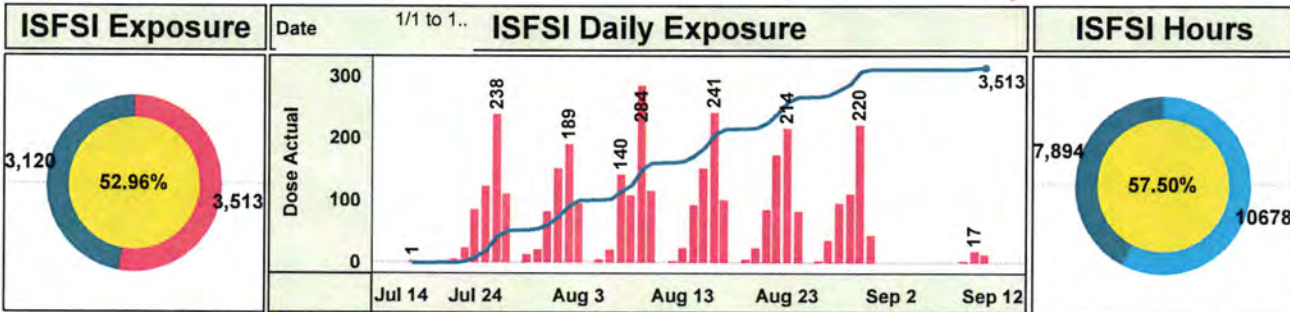
Estimated Dose >= 5 mRem on Thu 01/23

Order Work Ctr	Sched Start Sched End	Task Code	Task Name	Total Act Dose	Total Est Dose	Total Dose Perf	User Status
EPI		64294801-0100	ISI 6 Mo. BA Walkdown Aux Bldg. CLN/ADJ	0	80	0%	INPG (Recurring Order)
ORA		64219088-0440	OR RWP 0042 Liner Processing and Shipmen	39	525	7%	PLND (Recurring Order)

Total Dose Performance

- Delta between Actual & Estimate <= 5 mRem
- OR
- Recurring Actual / Estimate < 120%
- Non-Recurring Actual / Estimate < 150%
- Recurring Actual / Estimate >= 120%
- Non-Recurring Actual / Estimate >= 150%

ISFSI Exposure Report

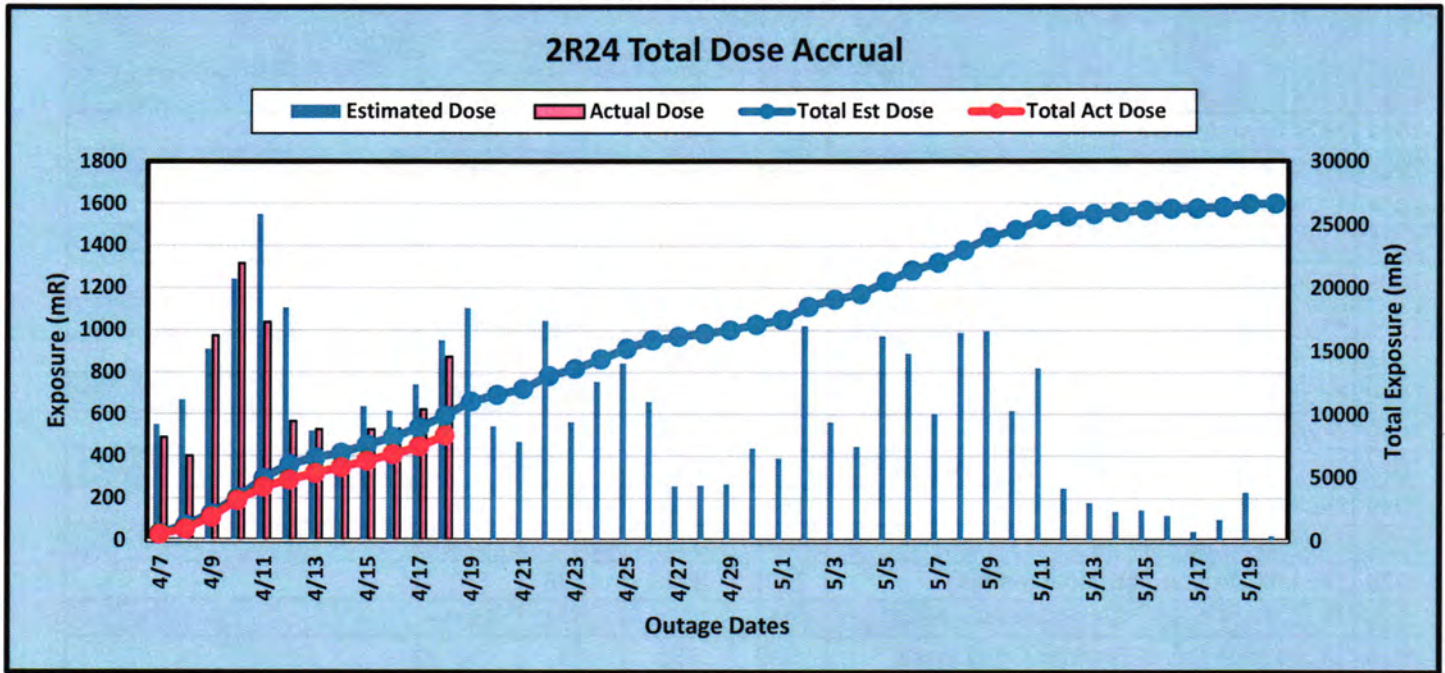


Cask Activities Exposure					
ISFSI Casks	1-MPC & HI-Storm Pr..	2-MPC Loading	3-Dry, Backfill, Seal	4-MPC Transport	5-Cask Rigging
Cask #7					
Cask #6					
Cask #5					
Cask #4					

ISFSI Casks Multi..	Dose Actual From 0	WRN All	WRN Descri.. All	Date 1/1 to 12/31
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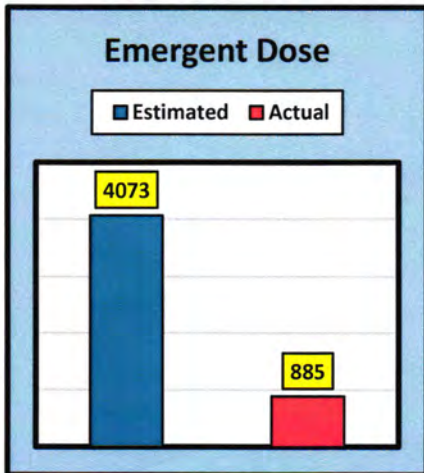
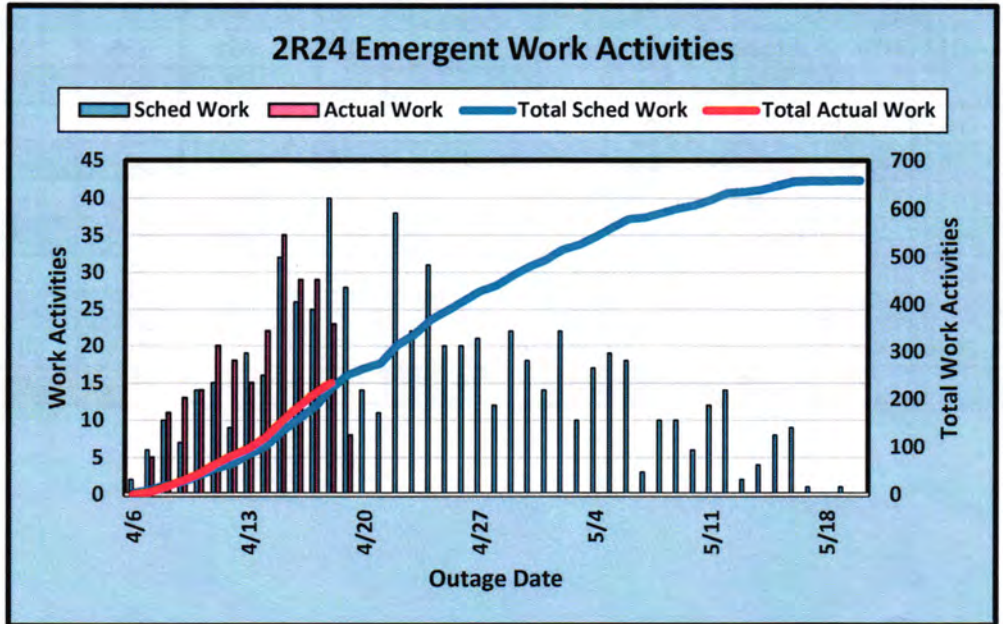
ISFSI Activities Total Exposure										
ISFSI Casks	WRN	WRN Description	Last Exit	Workers	Hours EST	Hours Actual	Dose EST	Dose Actual	Max. MDR	
Cask #7	64299540-0020	Cask 07 MPC/HI-STORM Prep (PEP DF-1)	9/10 05:59	45	70	207	4	7	6	
	64299540-0030	Cask 07 MPC Loading (PEP DF-2)	9/10 19:02	39	155	155	20	11	274	
	64299540-0040	Cask 07 MPC Dry/Backfill/Seal (PEP DF-3)	9/11 02:40	20	290	70	220	13	12	
	64299540-0050	Cask 07 MPC Transport (PEP DF-4)	9/4 14:41	2	270	0	201	0	0	
	64299540-0060	Cask 07 Rigging Support (MP M-42-DFS.1)	9/11 00:02	10	2,880	80	80	4	5	
Cask #6	64299299-0020	Cask 06 MPC/HI-STORM Prep (PEP DF-1)	8/27 06:43	41	70	166	3	1	7	
	64299299-0030	Cask 06 MPC Loading (PEP DF-2)	8/27 19:06	42	155	193	20	16	59	
	64299299-0040	Cask 06 MPC Dry/Backfill/Seal (PEP DF-3)	8/30 07:02	56	290	461	250	218	120	
	64299299-0050	Cask 06 MPC Transport (PEP DF-4)	8/31 16:35	49	270	244	210	191	26	
	64299299-0060	Cask 06 Rigging Support (MP M-42-DFS.1)	8/31 01:05	27	2,880	182	140	72	202	
Cask #5	64299298-0020	Cask 05 MPC/HI-STORM Prep (PEP DF-1)	8/24 18:12	38	70	204	3	4	5	
	64299298-0030	Cask 05 MPC Loading (PEP DF-2)	8/21 16:16	50	155	244	20	19	68	
	64299298-0040	Cask 05 MPC Dry/Backfill/Seal (PEP DF-3)	8/23 06:59	58	290	499	250	254	154	
	64299298-0050	Cask 05 MPC Transport (PEP DF-4)	8/24 11:37	45	270	214	210	199	55	
	64299298-0060	UsedFuelCask 05 RiggingMP M-42-DFS.1	8/24 15:41	44	2,880	321	140	101	203	
Cask #4	64299297-0020	Cask 04 MPC/HI-STORM Prep (PEP DF-1)	8/17 17:55	41	70	204	3	2	9	
	64299297-0030	Cask 04 MPC Loading (PEP DF-2)	8/14 15:17	47	155	247	20	16	6	
	64299297-0040	Cask 04 MPC Dry/Backfill/Seal (PEP DF-3)	8/16 07:18	56	290	490	250	249	94	
	64299297-0050	Cask 04 MPC Transport (PEP DF-4)	8/17 13:38	48	270	284	210	197	29	
	64299297-0060	UsedFuelCask 04 RiggingMP M-42-DFS.1	8/17 12:48	39	2,880	293	140	143	208	
Cask #3	64299296-0020	Cask 03 MPC/HI-STORM Prep (PEP DF-1)	8/6 07:43	39	70	202	3	4	9	
	64299296-0030	Cask 03 MPC Loading (PEP DF-2)	8/8 15:07	47	155	244	20	16	68	

through Thursday 18 April 2024



2R24 Dose Summary	Dose
2R24 Outage Goal	31028
Estimate Dose to Date	9903
Actual Dose to Date	8322

Date	Summary	Dose
4/18	Estimate	951
	Actual	874
4/19	Estimate	1104
	Actual	



2R24 Outage Dose Status

RP ALARA

through Thursday 18 April 2024

RWP	RWP Title	EST Dose	EST Hours	Actual Dose	Actual Hours	Comments
24-2000	2R24 Non-Containment Work	552	16947	22	1755	
24-2001	2R24 Containment Work	1547	26071	462	4410	
24-2002	2R24 Scaffolding Activities	1700	6334	639	1156	
24-2004	2R24 RP Activities	1601	13027	532	3585	
24-2005	2R24 Radiography	454	132	0	0	
24-2006	2R24 Decon Activities	1950	11297	588	3666	
24-2007	2R24 ISI Activities	1119	2129	884	461	
24-2008	2R24 LLRT & Test Team Activities	465	3062	80	512	
24-2009	2R24 Snubber Work	284	1156	122	360	
24-2010	2R24 Operations Activities	798	2332	271	1213	
24-2014	2R24 U/Cav Decon, Cav Entry, Head Set	709	387	0	0	
24-2015	2R24 LHRA & VHRA Activities	1443	899	459	156	
24-2017	2R24 I&C Activities	970	5010	161	436	
24-2020	2R24 RX Disassembly/Reassembly	2700	3023	1178	892	
24-2023	2R24 Fuel Transfer & Underwater Work	1168	3275	295	1319	
24-2026	2R24 Lower Cav & Transfer Canal Work	550	135	93	52	
24-2030	2R24 NI & Excore Annulus Work	200	38	0	0	
24-2032	2R24 Seal Table & MIDS Work	190	408	135	185	
24-2050	2R24 RCP Work	1690	4386	608	821	
24-2053	2R24 RHR Motor Swap	650	307	24	10	
24-2061	2R24 Containment Valves & Breaches	1688	4973	357	583	
24-2063	2R24 Non-Cont Valves & Breaches	960	8917	233	762	
24-2066	2R24 Emergent Work	4673	12600	856	1570	
24-2070	2R24 Line 1140 Maintenance	1800	233	63	34	
24-2076	RCS-2-8076 Valve Work	444	568	62	40	
24-2099	2R24 License Renewal Inspections	723	1255	198	585	
2R24 Outage Totals		31028	128901	8322	24564	

RPSS Shift Turnover

RP ALARA

Station Dose (mR)				
Date	EST To-Date	ACT To-Date	EST Dose	Actual Dose
4/18	9903	8322	951	874
4/19	11007	8517	1104	195
4/20	11550		543	

RP DEPT Dose (mR)			
Date	RP	DECON	DEPT
4/18	722	624	1346
4/19	736	649	1385

Status	Percent
%OTG COMP	31.70%
%Dose	27.45%
RP % Outage	16.26%

RWP	RWP Title	Dose EST	Hours EST	Dose Actual	Hours Actual	%Dose COMP	%Hours COMP	%Work COMP
24-2000	2R24 Non-Containment Work	552	16947	22	1766	4%	10%	22%
24-2001	2R24 Containment Work	1547	26071	464	4452	30%	17%	34%
24-2002	2R24 Scaffolding Activities	1700	6334	645	1169	38%	18%	32%
24-2004	2R24 RP Activities	1601	13027	552	3618	34%	28%	N/A
24-2005	2R24 Radiography	454	132	0	0	0%	0%	0%
24-2006	2R24 Decon Activities	1950	11297	613	3721	31%	33%	N/A
24-2007	2R24 ISI Activities	1119	2129	916	474	82%	22%	52%
24-2008	2R24 LLRT & Test Team Activities	465	3062	80	512	17%	17%	26%
24-2009	2R24 Snubber Work	284	1156	122	360	43%	31%	33%
24-2010	2R24 Operations Activities	798	2332	271	1228	34%	53%	16%
24-2014	2R24 U/Cav Decon, Cav Entry, Head Set	709	387	0	0	0%	0%	0%
24-2015	2R24 LHRA & VHRA Activities	1443	899	459	156	32%	17%	14%
24-2017	2R24 I&C Activities	970	5010	170	455	18%	9%	33%
24-2020	2R24 RX Disassembly/Reassembly	2700	3023	1178	892	44%	30%	54%
24-2023	2R24 Fuel Transfer & Underwater Work	1168	3275	295	1319	25%	40%	57%
24-2026	2R24 Lower Cav & Transfer Canal Work	550	135	93	52	17%	38%	63%
24-2030	2R24 NI & Excore Annulus Work	200	38	0	0	0%	0%	0%
24-2032	2R24 Seal Table & MIDS Work	190	408	135	185	71%	45%	62%
24-2050	2R24 RCP Work	1690	4386	608	821	36%	19%	42%
24-2053	2R24 RHR Motor Swap	650	307	24	10	4%	3%	17%
24-2061	2R24 Containment Valves & Breaches	1688	4973	382	605	23%	12%	27%
24-2063	2R24 Non-Cont Valves & Breaches	960	8917	239	806	25%	9%	20%
24-2066	2R24 Emergent Work	4673	12600	885	1595	19%	13%	30%
24-2070	2R24 Line 1140 Maintenance	1800	233	74	38	4%	17%	29%
24-2076	2R24 RCS-2-8076 Valve Work	444	568	92	43	21%	8%	33%
24-2099	2R24 License Renewal Inspections	723	1255	198	593	27%	47%	46%
2R24 Outage Totals		31028	128901	8517	24872			

Work Activities									
Date	Jobs Sched	Jobs Worked	EST Dose	Sched Dose	Sched Hours	EPO Dose	EPO Hours	ACT Dose	ACT Hours
4/18	130	120	951	1922	1761	2542	14371	874	2075
4/19	93	62	1104	641	1084	740	2247	195	308
4/20	64		543	776	636	818	1357		

RWP	RWP Title	Dose				Rate				
		Alarm	Setpoint Change	20-≤100	≥ 100	Alarm	Setpoint Change	80-500	501-1R	≥ 1-R
24-2000	2R24 Non-Containment Work	0	0	0	0	0	0	0	0	0
24-2001	2R24 Containment Work	0	0	0	0	0	0	0	0	0
24-2002	2R24 Scaffolding Activities	0	0	0	0	0	0	0	0	0
24-2004	2R24 RP Activities	0	0	0	0	0	0	0	0	0
24-2005	2R24 Radiography	0	0	0	0	0	0	0	0	0
24-2006	2R24 Decon Activities	0	0	0	0	0	0	0	0	0
24-2007	2R24 ISI Activities	0	9	3	0	0	0	0	0	0
24-2008	2R24 LLRT & Test Team Activities	0	0	0	0	0	0	0	0	0
24-2009	2R24 Snubber Work	0	0	0	0	0	0	0	0	0
24-2010	2R24 Operations Activities	0	0	0	0	0	0	0	0	0
24-2014	2R24 U/Cav Decon, Cav Entry, H/S	0	0	0	0	0	0	0	0	0
24-2015	2R24 LHRA & VHRA Activities	0	0	6	0	0	0	0	0	0
24-2017	2R24 I&C Activities	0	0	0	0	0	0	0	0	0
24-2020	2R24 RX Disassembly/Reassembly	0	4	9	0	0	0	0	0	0
24-2023	2R24 Fuel Transfer & U/W Work	0	0	0	0	0	0	0	0	0
24-2026	2R24 Lower Cav & XFR Canal Work	0	0	0	0	0	0	0	0	0
24-2030	2R24 NI & Excore Annulus Work	0	0	0	0	0	0	0	0	0
24-2032	2R24 Seal Table & MIDS Work	0	0	0	0	0	0	0	0	0
24-2050	2R24 RCP Work	0	0	0	0	0	0	0	0	0
24-2053	2R24 RHR Motor Swap	0	0	0	0	0	0	0	0	0
24-2061	2R24 Cont Valves & Breaches	0	0	0	0	0	0	0	0	0
24-2063	2R24 Non-Cont Valves & Breaches	0	0	0	0	0	0	0	0	0
24-2066	2R24 Emergent Work	0	2	0	0	0	3	0	0	0
24-2070	2R24 Line 1140 Maintenance	0	0	0	0	0	0	0	0	0
24-2076	RCS-2-8076 Valve Work	0	0	0	0	0	0	0	0	0
24-2099	2R24 License Renewal Inspections	0	9	0	0	0	2	0	0	0
2R24 Outage Totals		0	24	18	0	0	5	0	0	0

Personnel Dose Trends

RP ALARA

Highest RWP Dose 4/18/24

Date	RWP	Actual Dose	Actual Hours
4/18	24-2007	282	65.74
	24-2063	121	183.19
	24-2061	81	106.87
	24-2066	78	136.01
	24-2006	56	328.93
	24-2004	51	348.99
	24-2076	44	29.57
	24-2009	40	49.01

Highest Work Order 4/18/24

Date	WRN	WR Description	Actual Dose	Actual Hours
4/18	64229533-0030	Install Insul. Pressurizer 2 Circ Weld	129	26.42
	64229533-0110	Install Insul. Pzr 2 Support Skirt Weld	127	21.22
	60061211-0010	RHR-2-8728B: Repack Valve	69	16.59
	2006	CTMT Decon Support	51	237.36
	60149448-0010	Replace Bonnet/Stem RHR-2-8702	42	33.72
	2004	CTMT RP Support	40	199.47

Highest RWP Dose 4/19/24

Date	RWP	Actual Dose	Actual Hours
4/19	24-2007	32	12.96
	24-2076	30	3.58
	24-2066	29	25.33
	24-2061	25	21.68
	24-2006	25	55.39
	24-2004	20	33.62
	24-2070	11	4.56
	24-2017	9	18.66
	24-2063	6	43.92
	24-2002	6	13.04
	24-2001	2	42.33

Highest Work Order Dose 4/19/24

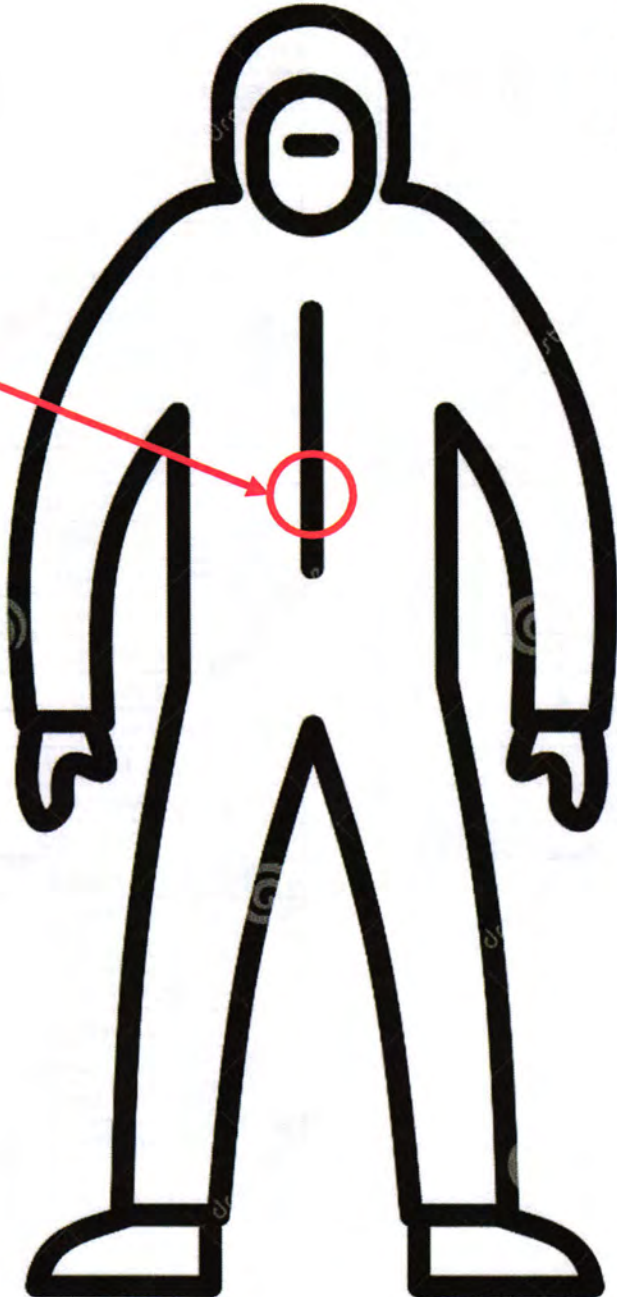
Date	WRN	WR Description	Actual Dose	Actual Hours
4/19	68066240-0300	Remove Leakoff Line-3407 (RCS-2-8076)	30	3.58
	64229533-0015	Inspect Pressurizer 2 Circ Weld	22	3.62
	2006	CTMT Decon Support	21	42.38
	2004	CTMT RP Support	20	28.39
	64229533-0296	Remove/Reinstall pipe clamp 414-583V	16	7.16
	60149448-0010	Replace Bonnet/Stem RHR-2-8702	14	10.95
	60148653-0010	TMOD 4*2246: Remove LINE-1140 Vibr/Temp	11	4.56
	64134068-0100	MP I-4-FCV761 SG 2-2 Blwdn Sample IV Cal	9	3.83

PED / Contamination Events (FRONT)

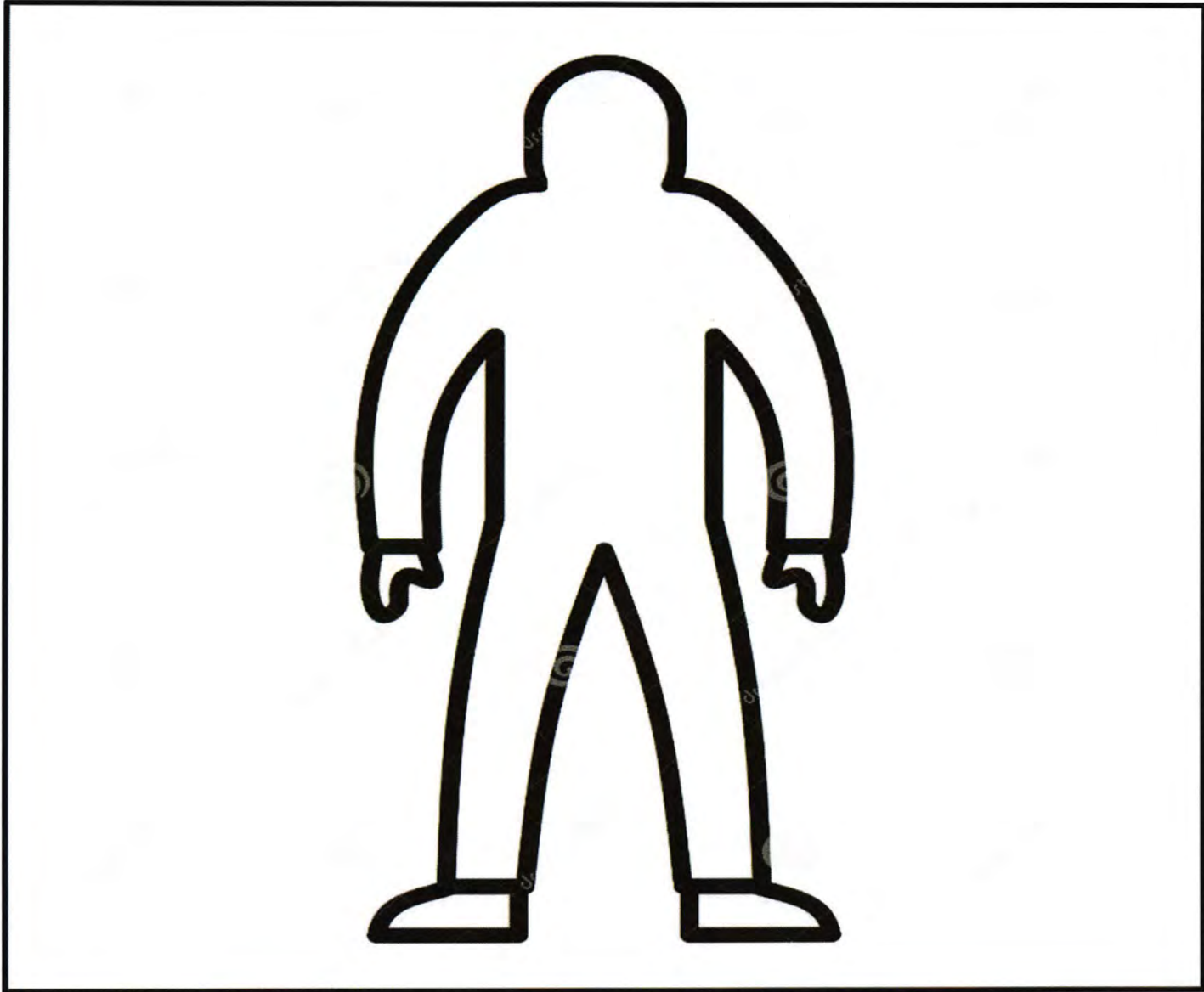
Total PCEs
1

Verified D/R Alarm Indications
0

SAPN 51232699
4-IN above navel



Contamination Events (BACK)



Contamination & Alarm Events (INDEX)

SAPN	Area	Alert Type	Description	RWP	Date	Link
51232669	Front	N/A	U2 CTMT-Personnel Contamination	24-2020	4/11	51232669

HIGH INTEREST TOPIC QUESTIONNAIRE

2025 Winter RP-ALARA Conference Key West, FL Jan 28-30



Topic: When working with reduced personnel, what tools do you utilize to maintain efficiency in terms of work planning?

Name: **Felix Martinez**

Contact Info: **felix.martinez@pge.com**

Contact (Name)	Plant	NSSS	Comments
Raymond Rouse, Iman Alhosani	Barakah	CE	Bentley 3D model 3D virtual tool
	Beaver Valley	3LW	
Joe C	Braidwood	4LW	RPS help. Dept plant schedule ICRIV sessions
Adam Gilliam	Callaway	4LW	NIGHT SHIFT RP TECH HAS ALARA ROUTINES TO PERFORM
	Clinton	BWR	
Ryan Brown	Davis-Besse	B&W	SAP, virtual tours, overtime
Felix Martinez	Diablo Canyon	4LW	Work activity search engine, SAP, Primavera, Deep dive meetings, virtual tours, overtime
Steve Bloom	Farley	3LW	each dept plans their own work and we have the dept. dose champion speak on their work. There so here is no drop off during times of less personnel
	Framatome	N/A	
Robin Miller	Limerick	BWR	ALARA group works together as needed
	North Anna	3LW	
EDUERT MEYERS	Palo Verde	CE	OneNote ; Job Prep RP Video Library / Pictures
D. Martin	Prairie Island	2LW	Procedures / Processor Workmanagement / ALARA
M. Smith	Seabrook	4LW	Outage we used area coverage w containment. on line we have not had many challenges with providing coverage
	Sequoyah	ICE	
	STP	4LW	

Return completed form to the Secretary prior to the end of the meeting so that it may be included in the meeting report.

HIGH INTEREST TOPIC QUESTIONNAIRE

2025 Winter RP-ALARA Conference Key West, FL Jan 28-30

Jordan Bristow	Surry	3LW	All hands on deck. Overtime slots for ZPT.
	Vogtle 1 & 2	4LW	
Joe Campavese	Vogtle 3 & 4	4LW	TRY to PLAN in Advance And Complete PLANNING Ahead of time MAP Locator / 30 Tours
TJ Cook	Watts Bar	ICE	
Michael Quinnett	Wolf Creek	4LW	Every work group's close advocate creates and speaks to the estimate for their job.

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HIGH INTEREST TOPIC QUESTIONNAIRE

2025 Winter RP-ALARA Conference Key West, FL Jan 28-30



Topic: Filtration. Does your station utilize 0.05-micron letdown filters? Do you get a better performance with 0.05-micron as opposed to 0.1-micron filters?

Name: **Felix Martinez** Contact Info: **felix.martinez@pge.com**

Contact (Name)	Plant	NSSS	Comments
Raymond Rouse Imad Alhosani	Barakah	CE	no, but looking into it.
	Beaver Valley	3LW	
Joc L	Braidwood	4LW	.01 MICRONS ONLINE
Adam Gilliam	Callaway	4LW	.05 ONLINE, THEY TYPICALLY LAST MOST OF THE CYCLE
	Clinton	BWR	
	Davis-Besse	B&W	
Felix Martinez	Diablo Canyon	4LW	DCPP utilizes 0.05-micron filters for letdown and 0.1-1.0 micron filters for other processes.
Steve Bloom	Farley	3LW	.1
	Framatome	N/A	
	Limerick	BWR	
	North Anna	3LW	
EILEEN MEYERS	Palo Verde	CE	0.1
D. M. A.	Prairie Island	2LW	.2
M. Smith	Seabrook	4LW	No.
	Sequoyah	ICE	
	STP	4LW	

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HIGH INTEREST TOPIC QUESTIONNAIRE

2025 Winter RP-ALARA Conference Key West, FL Jan 28-30

Jordan Bristow	Surry	3LW	1 micron online 6 micron outage
	Vogtle 1 & 2	4LW	
Joe CAMPANELLA	Vogtle 3 & 4	4LW	Letdown 6 and 20 micron filter anything less clogs system & filters
TDCK	Watts Bar	ICE	rot on-line -05 outage
Michael Quinnett	Wolf Creek	4LW	I believe we use 1 micron online and 6 micron outage. I will verify.

Return completed form to the Secretary prior to the end of the meeting so that it may be included in the meeting report.

HIGH INTEREST TOPIC QUESTIONNAIRE

2025 Winter RP-ALARA Conference Key West, FL Jan 28-30



Topic: Special Inspections. Has your station performed 10-YR RV, Clevis Bolt inspections, or RV specimen removal? Can you share your data?

Name: **Felix Martinez**

Contact Info: **felix.martinez@pge.com**

Contact (Name)	Plant	NSSS	Comments
Raymond Korse Iman Alhigani	Barakah	CE	NO, Too young of plant
	Beaver Valley	3LW	
Joe C.	Braidwood	4LW	Yes - No clevis Bolt
Adam Gillian	Callaway	4LW	Yes, couple outages ago. We HAVE Excise specimen, no more in the vessel
	Clinton	BWR	
Ryan Brown	Davis-Besse	B&W	10 Year RV & upper internals in 2020 - Email me
Felix Martinez	Diablo Canyon	4LW	DCPP is scheduled to perform the 10-YR RV, Clevis Bolt inspections, and RV specimen removal for this spring outage.
	Farley	3LW	
	Framatome	N/A	
	Limerick	BWR	
	North Anna	3LW	
FILBERT MEYERS	Palo Verde	CE	No But it is 2 - Years out. Please share as well
D. Mark	Prairie Island	2LW	We have completed in Unit 1/Unit 2
M Smith	Seabrook	4LW	Yes, I can share RV specimen removal
	Sequoyah	ICE	
	STP	4LW	

Return completed form to the Secretary prior to the end of the meeting so that it may be included in the meeting report.

HIGH INTEREST TOPIC QUESTIONNAIRE

2025 Winter RP-ALARA Conference Key West, FL Jan 28-30

Jordan Bristow	Surry	3LW	Yes. 10 yr ISI, Upflow mod, thermal shield support repairs
	Vogtle 1 & 2	4LW	
Joe Campanella	Vogtle 3 & 4	4LW	NOT Performed
D Cook	Watts Bar	ICE	Yes U1 in "24" U2 in "25"
Michael Quinnett	Wolf Creek	4LW	Not sure, can follow-up

Return completed form to the Secretary prior to the end of the meeting so that it may be included in the meeting report.

High Interest Topics Palo Verde



1. **Procedural for one-time dose changes in Sentinel (Set Points) including authorizations and approvals.**
2. **Multi-pack dosimetry placement options – specifically head dosimetry and are you willing to share procedure?**
3. **Underwater/surface coverage of removing items from underwater and procedural guidance/instruments used/available.**

HIGH INTEREST TOPIC QUESTIONNAIRE

2025 Winter RP-ALARA Conference Key West, FL Jan 28-30



Topic: Procedural Guidance for One Time Dose Changes in SENTINEL (Set Points)
↳ Authorizations/Approvals

Name: Eilert Meyers

Contact Info: Eilert.Meyers@aps.com

Contact (Name)	Plant	NSSS	Comments
Raymond Rouse Iman Athusani	Barakah	CE	BNPP uses SAP, looking at getting Sentinel
	Beaver Valley	3LW	
Joel	Braidwood	4LW	Completed by ALARA or RPS. Various approvals
Adam Gilliam	Callaway	4LW	Different set points for specific roles are denoted in the RWP
	Clinton	BWR	
Ryan Brown	Davis-Besse	B&W	RWP field changes can be prepared by anyone in RP. RP/ALARA approval. RPM in certain ALARA changes case with at least criteria
Felix Martinez	Diablo Canyon	4LW	REEMAN APPROVAL
Steve Bloom	Farley	3LW	If deviating, RP supervision is required
	Framatome	N/A	
Robin Miller	Limerick	BWR	RPT/ALARA RPS
	North Anna	3LW	
	Palo Verde	CE	
D. Mark	Prairie Island	2LW	QF1222 Temp RWP Change Form 2 RP techs 1 Supervisor
M. Smith	Seabrook	4LW	Changes can be made by Senior RP tech with final sign off by RP supervisor
	Sequoyah	ICE	
Eriz Hood	STP	4LW	RPS Approval

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HIGH INTEREST TOPIC QUESTIONNAIRE

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Jordan Bristow	Surry	3LW	for RWP changes. approvals based on Risk. usually ALARA Sup or Rpm.
Mike Bayor	Vogtle 1 & 2	4LW	RP Supervisor Approval with log entry
Joe CAMPARENA	Vogtle 3 & 4	4LW	RP Supervision Approval needed with logbook (ESOM) Entry
TJ Cook	Watts Bar	ICE	procedural compliance allows RP to change & document change in log
Michael Quinnett	Wolf Creek	4LW	Don't have sentinel but needs supervisor approval

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HIGH INTEREST TOPIC QUESTIONNAIRE

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Topic: Multi-Pack Dosimetry Placement options - specifically Head Dosimetry
* Willing to share Procedure?

Name: EILERT MEYERS

Contact Info: Eilert.Meyers@ops.com

Contact (Name)	Plant	NSSS	Comments
Raymond Rouse Imon Alhonsari	Barakah	CE	Also would like a copy of procedure - We want "good"
	Beaver Valley	3LW	
Joe Coughlin	Braidwood	4LW	JOSEPH.COUGHLIN@CONSTELLATION.COM
Adam Gilliam	Callaway	4LW	WE RELOCATE MORE OFTEN THEN MULTI-PACKING
	Clinton	BWR	
Ryan Brown	Davis-Besse	B&W	ryan.brown1@vistra.com - willing to share plan
Felix Martinez	Diablo Canyon	4LW	WILLING TO SHARE FELIX.MARTINEZ@DCE.COM
Steve Bloom	Farley	3LW	sbloom@southernco.com
Heather Hatton	Framatome	N/A	Heather.hatton@Framatome.com
Robin Miller	Limerick	BWR	Robin.Miller@Constellation.com
	North Anna	3LW	
	Palo Verde	CE	
Dave Martin	Prairie Island	2LW	david.r.martin@xcelenergy.com
Michael Smith	Seabrook	4LW	michael.smith4@nexteraenergy.com
	Sequoyah	ICE	
	STP	4LW	

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HIGH INTEREST TOPIC QUESTIONNAIRE

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Jordan Bristow	Surry	3LW	Jordan.T.Bristow@dominionenergy.com Heather.Daer@dominionenergy.com (Expo Supervisor)
Mike Beyer	Vogtle 1 & 2	4LW	WE RELOCATE MORE OFTEN. mfbeyer@southernco.com
Joe CAMPANELLA	Vogtle 3 & 4	4LW	JDCAMPANE@southernco.com
TJ Cook	Watts Bar	ICE	TJCook@TVA.GOV
Michael Quinnett	Wolf Creek	4LW	michael.quinnett@evergy.com

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HIGH INTEREST TOPIC QUESTIONNAIRE

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Topic: Underwater / Surface Coverage of removing items from underwater
 ↳ Procedural guidance / Instruments used / available

Name: EILERT MEYERS

Contact Info: Eilert.Meyers@ops.com

Contact (Name)	Plant	NSSS	Comments
Raymond Rouse Iman Alhosani	Barakah	CE	We developed a Job coverage procedures for various jobs ↳ write work plans
	Beaver Valley	3LW	
Joe C	Braidwood	4LW	Underwater + surface dose rates ↳ 500 mR/HR underwater requires additional
Adam Gillian	Callaway	4LW	PROCEDURALIZED + SPECIAL INSTRUCTIONS Planning in RWP; ANPS + TELEPOLES
	Clinton	BWR	
Lyan Brown	Davis-Besse	B&W	- can send you RWP & procedural guidance
Felix MARTINEZ	Diablo Canyon	4LW	I CAN SEND PROCEDURAL GUIDANCE
Steve Bloom	Farley	3LW	Will send procedure guidance
	Framatome	N/A	
Robin Miller	Limerick	BWR	Procedure Procedure driven Robin.miller@constellation.com
	North Anna	3LW	
	Palo Verde	CE	
D. Martin	Prairie Island	2LW	RWP / Procedure guidance.
M Smith	Seabrook	4LW	I can send procedure
	Sequoyah	ICE	
Eric Hood	STP	4LW	Procedures / RWPs

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Jordan Bristow	Surry	3LW	Can share procedure/process jordan.t.bristow@dominionenergy.com
	Vogtle 1 & 2	4LW	
Joe CAMPANELLA	Vogtle 3 & 4	4LW	CAN Send Procedure Guidance JDCAMPAN@SouthernCo.com
J Cook	Watts Bar	ICE	RP coverage for any items removed from winter, we also use amp ps @ winter level
Michael Quinnett	Wolf Creek	4LW	Can email procedure michael.quinnett@energy.com

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High Interest Topics Seabrook



Diving controls to prevent VHRA entry (SFP or Cavity). Do you use a physical barrier or is a lock secured/tether acceptable. Physical barrier type if used. How is it typically constructed?

HIGH INTEREST TOPIC QUESTIONNAIRE

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Topic: Diving Controls to prevent UHRA entry (SFP on cavity. Do you use. A physical barrier or is a lock ~~seen~~ secured tether acceptable. Physical barrier type if used, ~~what~~ How is it typically constructed?

Name: Michael Smith

Contact Info: michael.smith4@spl.com

Contact (Name)	Plant	NSSS	Comments
Raymond Reese Iman Alhosani	Barakah	CE	HAVE NOT DONE YET
	Beaver Valley	3LW	
Joel	Braidwood	4LW	Barriers/lights when possible along with a tether
Adam Gillian	Callaway	4LW	TETHER, DO NOT DIVE OFTEN
	Clinton	BWR	
Ryan Brown	Davis-Besse	B&W	Install weirs gate & utilize tether - can share procedure
Felix Martinez	Diablo Canyon	4LW	MOVE FUEL. BRIEFINGS. BARRIERS IN PLACE TO PREVENT BREACH OF BOUNDARY
Steve Bloom	Farley	3LW	Tether
	Framatome	N/A	
Robin Miller	Limerick	BWR	Robin.miller@constellation.com
	North Anna	3LW	
EDUERT MEYERS	Palo Verde	CE	Used a tether for most recent underwater work; Depends on Job
D. Mark	Prairie Island	2LW	No Diving.
	Seabrook	4LW	
	Sequoyah	ICE	
Eric Hood	STP	4LW	Have not dived in a long time

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High Interest Topics South Texas Project



What is your RP management structure? (RPM, superintendents, supervisors). Please include number of units on site.

HIGH INTEREST TOPIC QUESTIONNAIRE

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Topic: What is your RP management structure? (RPM, Superintendants?, # Supervisors)
Please include # of UNITS on site

Name: Eric Hood

Contact Info: eghood@stpegs.com

Contact (Name)	Plant	NSSS	Comments
Raymond Couff IMAN ALHANSANI	Barakah	CE	1 Director, RP manager, RW manager 3 Supervisors, 5 leads, 20 techs 5 ALARA, 5 RW, 4 RMS
	Beaver Valley	3LW	
Joe Coughlin	Braidwood	4LW 2 units	1 RPM, 2 Supt, 3 Supt, 3 ALARA, 3 technical, 25 RATs (we do all RCA LABOR WORK)
Aran Gilliam	Callaway	4LW 1 UNIT	1 RPM, 1 SUPERVISING HEALTH PHYSICIST, 4 SUPERVISORS, 23 TECHS, 5 R/C HELPERS
	Clinton	BWR	
Ryan Brown	Davis-Besse	B&W	1 RP/Chem Senior Manager, 1 tech spec RPM 3 RP supervisors
Felix Martinez	Diablo Canyon	2 UNITS 4LW	(1) RPM, (3) GEN FOREMEN, (1) RW FOREMAN, (3) RP OPS FOREMEN, ENGINEERS, TECHNICIANS DUAL
Steve Bloom	Farley	3LW 2 units	1 RPM - 2 superst - 5 supervisors - 3 ALARA techs - 28 RP Techs - 1 Rad Waste technician
	Framatome	N/A	
Robin Miller	Limerick	BWR 2 Units	1 RPM, 1 Rad Ops Manager, 1 Rad tech manager 4 RPS, 5 ALARA (inc online/outage), 1 Inst Specialist 1 Rsp/Dosemetry specialist
	North Anna	3LW	
	Palo Verde	CE 3 units	Tech Services - RPM < RP OPS - 5 Supervisors Director - RPM < RATECH - 4 Supervisors
Dave Mark	Prairie Island	2LW	1 RPM 2 GS 2 Supervisor. 4 fore persons (2) units
Michael Smith	Seabrook	4LW	1 unit -> 1 RPM reports to Chem/RP manager - RP has 2 supervisors
	Sequoyah	ICE	
	STP	4LW	

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Jordan Bristow	Surry ² units	3LW	1 RPM, 3 Superintendents (1 HPOps, Tech services, chem) 10 Supervisors, 15 Shift personnel, 3 ALARA
MIKE BEYER	Vogtle 1 & 2	4LW	1 RPM, 2 SUPERINTENDENT, 4 SUPERVISORS, 1 RADWASTE SHIPPER/SUPERVISOR
JOE CAMPANELLO	Vogtle 3 & 4	4LW	RPM, 2 Superintendents (1 OPS, 1 Tech) 4 Supervisors 2 UNITS which are Separated
T Cook	Watts Bar	ICE	RPM 4-Supt: Alara Radwaste, RP, Tech support 6 RPSS Supervisors
Michael Quinnett	Wolf Creek	4LW	1 RPM, 5 Supervisors (1 RP /Cal, 1 ALARA/RW, 2 Ops, 3 Master RPTechs, 16 ^{Posimetry} RP Techs 1 planning

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High Interest Topics

Vogtle 1&2



1. **Staffing.** What is the number of: people in the ALARA group, composition of ALARA group (titles and numbers of each), overall number of people in the RP department, number of RP technicians, and number of Units?
2. Are you able to share a copy of a crud burst or chemical cleaning plan to my email address?
3. How do you handle supporting both online and outage work planning duties? Do you have a dedicated individual supporting each role?
4. With whom does this responsibility fall...Cal Lab Personnel? RP technicians? What triggers the action to respond to a failing or faulty monitor? Supervisor direction? Do you have a routine scheduled for battery replacement or do you address when transmission ceases?
5. Do you set up tasks to account for the Craft (i.e, RP, Mech, Chem, IC, Ops) or for activity to be performed (i.e. Surveys, Sampling, Surveillance, System Breach, etc.,). Do you handle outage RWP tasks likewise?
6. How do you handle decon/housekeeping type activities in the RCA? Do you have a dedicated DECON group? How many personnel make up the group? At Vogtle, the turnover for DECON techs is high being it is entry level. Do you encounter similar?
7. Who establishes dose estimates for your work orders...RP? Craft?
8. How many personnel do you have supporting this function other than the shipper themselves? Do you have a dedicated crew? How many including the shipper?
9. At any time, do you allow personnel to bag items across a contaminated area boundary without RP being present?
10. The SNC Fleet uses representation from all site functional areas to assist in dose estimates monthly. The process is referred to as 'DAC' (Dose Awareness Champion). Procedures are in place to provide guidance for the process but there is no specification as to whom works the process other than there be a Primary DAC and an Alternate DAC representative. The makeup of our team consists of both covered and not covered personnel. What classification of personnel supports this process for your utility?
11. Do you use any other color for inserts to indicate a higher radiological hazard (ex. blue for High Contamination Area; orange for Airborne Radioactivity Area; red for Hot Particle Area, etc.,)?
12. What do you have in place to control satellite RCAs to ensure no unauthorized release of RAD Material?

HIGH INTEREST TOPIC QUESTIONNAIRE

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Topic: ALARA Group Composition Comparison

1) # of people in ALARA Group? - 2) Composition of ALARA Group (Titles & #'s of ea.)? - 3) overall # of people in the RP Department? - 4) # of RP technicians in the Department? - 5) # of Units?

Name: Michael Beyer (Vogtle 1&2)

Contact Info: 706-848-1523; mfbeyer@southernco.com

Contact (Name)	Plant	NSSS	Comments
Raymond Reuse Iman Alhosani	Barakah	CE	1) 5 spec dist 2) specialists 3) 56 personnel 4) 26 techs 5) 2 units
	Beaver Valley	3LW	8
Joel	Braidwood	4LW	1) 3 2) outage, 2 online 3) 38 4) 25 5) 2
Adam Gilliam	Callaway	4LW	No "GROUP". SHARED RESPONSIBILITIES
	Clinton	BWR	
Ryan Brown	Davis-Besse	B&W	1) 3 2) 26 - 3 staff support RP/Chn 3) 26 4) 13 5) 1
Felix Martinez	Diablo Canyon	4LW	1) 3 2) ~60 3) 2 4) OVG, TECH, SUPERVISOR 5) ~40
Steve Bloom	Farley	3LW 2 units	1) 3 techs 2) 1 RP supervisor - 3 techs 3) 45 4) 26/1 SR 5) 2 units
	Framatome	N/A	1. 2 RP techs 2) 16 SR 3) 5 people. 2 forepersons 2 units.
Robin Miller	Limerick	BWR	1) 5 2) 1 online 1 outage 3 specialists 3) ~22 techs (5 Jrs) 4) 36 5) 2 units
	North Anna	3LW	
EILERT MEYERS	Palo Verde	CE (3 units)	RP ORG ALARA - 1 Supervisor 50 Sr Techs 87 3 Techs 6 Jr 3 Remote Group 2 Interns
	Prairie Island	2LW	
M. Smith	Seabrook	4LW	1) 1 person 2) ALARA coordinator 3) 14 4) 10 5) 1 unit

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	Sequoyah	ICE	
Eric Hood	STP	4LW	1) 2 Supervisors, Professional Staff, 3 RPT PLANNERS 3-40, 74, 4-35, 5-2
Jordan Bristow	Surry	3LW	1) 3 3) 35 5) 2 2) Sup./Coord/Tech 4) 25
	Vogle 1 & 2	4LW	1) 3 + Supt 2) ALARA specialist ?? who 3) 42 4) 24 5) 2
Joe CAMPARELLA	Vogle 3 & 4	4LW	1) 2 2) HEALTH PHYSICIST 3) 4+39 4) 28 5) 2
	Watts Bar	ICE	
Michael Quinnett	Wolf Creek	4LW	1) 3 2) Sup./Master Tech/Journeyman Tech 3) 27 4) 20 5) 1
MIKE BEYER	Vogle 1 & 2	4LW	1) 0, 2) RP Leads 3) 39, 4) 27 5) 2

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HIGH INTEREST TOPIC QUESTIONNAIRE

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Topic: Crud Burst Plan

Are you able to share of a copy of a crud burst or chemical cleaning plan to my email address?

Name: Michael Beyer (Vogtle 1&2)

Contact Info: 706-848-1523; mfbeyer@southernco.com

Contact (Name)	Plant	NSSS	Comments
Raymond Rouse Iman Alhasani	Barakah	CE	yes
	Beaver Valley	3LW	
Joel	Braidwood	4LW	yes
Adam Gilliam	Callaway	4LW	yes
	Clinton	BWR	
Ryan Brown	Davis-Besse	B&W	Yes
Felix Martinez	Diablo Canyon	4LW	Yes
Steve Bloom	Farley	3LW	yes
	Framatome	N/A	
	Limerick	BWR	
	North Anna	3LW	
ELIERT MEYERS	Palo Verde	CE	YES
D. Martin	Prairie Island	2LW	Yes
W. Smith	Seabrook	4LW	Yes
	Sequoyah	ICE	

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HIGH INTEREST TOPIC QUESTIONNAIRE

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Eric Hood	STP	4LW	Maybe
Jordan Bristow	Surry	3LW	Yes
Mike Beyer	Vogtle 1 & 2	4LW	Yes
	Vogtle 3 & 4	4LW	
TJ Cook	Watts Bar	ICE	Yes
Michael Quinnett	Wolf Creek	4LW	Yes

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HIGH INTEREST TOPIC QUESTIONNAIRE

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Topic: RP Work Planning Representatives:

How do you handle supporting both Oline and Outage Work Planning duties?

Do you have a dedicated individual supporting each role?

Name: Michael Beyer (Vogle 1&2)

Contact Info: 706-848-1523; mfbeyer@southernco.com

Contact (Name)	Plant	NSSS	Comments
Raymond Rouse Iman Alhusani	Barakah	CE	1 ALARA for online 2 ALARA for outages
	Beaver Valley	3LW	
JOCC	Braidwood	4LW	1 ALARA outage 2 ALARA online
Adam Gilliam	Callaway	4LW	1 Supervisor, 1 TECHNICIAN FOR EACH NOT EXCLUSIVELY ASSIGNED TO IT
	Clinton	BWR	
Ryan Brown	Davis-Besse	B&W	YES. ALARA dept = 1 online planner/specialist = 1 outage planner/specialist
Felix MARTINEZ	Diablo Canyon	4LW	2 ALARA ONLINE OUTAGE IF AVAILABLE, ADDITIONAL SUPPORT
Steve Bloom	Farley	3LW	RP online ALARA has 1 tech RP outage ALARA has 1 tech RPALARA is a "swing" tech for online + Outage
	Framatome	N/A	
Robin Miller	Limerick	BWR	1 online 1 outage 3 ALARA specialists -> plan 9H MAPS/ALARA Plans <small>online/outage</small>
	North Anna	3LW	
EILERT MEYERS	Palo Verde	CE	3 TECHS work on Both Online + Outage
D. Mark	Prairie Island	2LW	1-online 1 projects 2 outage
M. Smith	Seabrook	4LW	Online - ALARA Coordinator Outage - ALARA Coordinator + 1

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	Sequoyah	ICE	
Erz Hood	STP	4LW	2 ALARA online 1 ALARA outage } Projects as needed
Jordan Bristow	Surry	3LW	1- ALARA online 1- ALARA outage 1- RP Coordinator Online
Mike Balfanz	Vogtle 1 & 2	4LW	1- Outage planner RP Leads & Supervisors handle
Joe CAMPANELLA	Vogtle 3 & 4	4LW	1 ACARA online 1 ACARA OUTAGE
TJ COOK	Watts Bar	ICE	dedicated ALARA For each Type But they help each other
Michael Quinnett	Wolf Creek	4LW	2 ALARA Techs do both

online

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HIGH INTEREST TOPIC QUESTIONNAIRE

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Topic: Remote Monitoring Equipment Maintenance & Battery Replacement

With whom does this responsibility fall... Cal Lab Personnel? RP technicians?

What triggers the action to respond to a failing or faulty monitor? Supervisor direction?

Do you have a routine scheduled for battery replacement or do you address when transmission ceases?

Name: Michael Beyer (Vogle 1&2)

Contact Info: 706-848-1523; mfbeyer@southernco.com

Contact (Name)	Plant	NSSS	Comments
Raymond Rouse Iman Alhosani	Barakah	CE	We have a dedicated instrument group, they handle calibration and service.
	Beaver Valley	3LW	
Joe C	Braidwood	4LW	RPTs, replace as needed
Adam Gillan	Callaway	4LW	RP TECHS, REPLACE AS NEEDED. TECHS ASSIGNED TO A BUILDING CHECK
	Clinton	BWR	
Ryan Brown	Davis-Besse	B&W	RP technicians, sometimes the instrument tech
Felix Martinez	Diablo Canyon	4LW	RP
Steve Bloom	Farley	3LW	RP maintains remote monitoring Assigned techs during outage when it is seen the RP tech informs them
	Framatome	N/A	
Robin Miller	Limerick	BWR	RP instrument tech → power lab if req'd Techs can assist if needed
	North Anna	3LW	
EILERT MEYERS	Palo Verde	CE	Dedicated Remote Monitoring group (3) report to ALARA Supervisor Run to failure Techs change batteries
D. Marks	Prairie Island	2LW	RMS Foreperson does maint RP Techs change batteries
M. Smith	Seabrook	4LW	We don't have remote monitoring other than our Rad Monitors. RP responds to alarms & setpoints. ITC services handles
	Sequoyah	ICE	

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Eric Hood	STP	4LW	Cal Lab Personnel Alarms No routine
Jordan Bristow	Surry	3LW	Instrument tech and RPT. Try to use power cords instead of battery.
Mike Beyer	Vogle 1 & 2	4LW	As directed by Supervisor
Joe Campanella	Vogle 3 & 4	4LW	RP Replace as needed
TJ Cook	Watts Bar	ICE	combination support thru our Instrument RP + RP Group
Michael Quinnett	Wolf Creek	4LW	RP Techs, replace as needed

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HIGH INTEREST TOPIC QUESTIONNAIRE

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Topic: Specific RWP Tasks

Do you set up tasks to account for the Craft (i.e. RP, Mech, Chem, IC, Ops) or for activity to be performed (i.e. Surveys, Sampling, Surveillance, System Breach, etc.,). ~~OR BOTH?~~

Do you handle Outage RWP tasks likewise?

Name: Michael Beyer (Vogtle 1&2)

Contact Info: 706-848-1523; mfbeyer@southernco.com

Contact (Name)	Plant	NSSS	Comments
Raymond Rouse Iman Alhadani	Barakah	CE	NO, BNPP uses SAP which does not allow individual tasks
	Beaver Valley	3LW	
Joe C	Braidwood	4LW	General RWPs by dept. Outage Both with various tasks
ADAM GILLIAN	Callaway	4LW	GENERAL BY CRAFT UNLESS JOB REQUIRES SPECIFIC RWP
	Clinton	BWR	
Ryan Brown	Davis-Besse	B&W	Both & yes. Reach out & I can provide some examples
FELIX MARTINEZ	Diablo Canyon	4LW	WE DON'T USE DURING NORMAL OPS BUT USE IT DURING OUTAGES SOMETIMES
Steve Bloom	Farley	3LW	For Farley we do both by task + craft. <small>We also collab with on cycle indiv</small>
	Framatome	N/A	
Robin Miller	Limerick	BWR	Planning sets up procedural driven tasks or they'll add stuff to our request online/outage
	North Anna	3LW	
EILERT MEYERS	Palo Verde	CE	Yes - Craft - Outage: Combination of Both
Di Matt	Prairie Island	2LW	Yes
M Smith	Seabrook	4LW	We do both, by craft and project/AREA. Example contained in entry

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HIGH INTEREST TOPIC QUESTIONNAIRE

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	Sequoyah	ICE	
Eric Hoad	STP	4LW	RWP for Craft. Posting Level/Risk, Tasks. Outage similar, but some activity specific RWPs
Jordan Bristow	Surry	3LW	separate RWPs for work groups based on Risk. Worked tracked by work order #.
Mike Beyer	Vogtle 1 & 2	4LW	Outage is more so by activity. Online by craft.
Joe CAMPANELLA	Vogtle 3 & 4	4LW	yes
TJ Cole	Watts Bar	ICE	separate RWPs TRACED dose by WO's
Michael Quinnett	Wolf Creek	4LW	Routine RWPs by work groups, tasks by risk. Same for outage RWPs unless the job requires a specific RWP.

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HIGH INTEREST TOPIC QUESTIONNAIRE

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Topic: DECON Staffing

How do you handle decon/housekeeping type activities in the RCA? Do you have a dedicated DECON group? How many personnel make up the group? At Vogtle, the turnover for DECON techs is high being it is entry level. Do you encounter similar?

Name: Michael Beyer (Vogtle 1&2)

Contact Info: 706-848-1523; mfbeyer@southernco.com

Contact (Name)	Plant	NSSS	Comments
Raymond Rouse Imon Alhosani	Barakah	CE	Decon handles all work inside RCA contract staff with low high retention
	Beaver Valley	3LW	
Joel	Braidwood	4LW	OUR RPTS DO OUR RCA LABOR WORK
ADAM GILLIAN	Callaway	4LW	5 RAD/CHEM HELPERS. HIGH TURNOVER RATE
	Clinton	BWR	
Ryan Brown	Davis-Besse	B&W	we have 3 "RP servicemen" who do decon work - position being phased out
Felix MARTINEZ	Diablo Canyon	4LW	DEDICATED DECON GROUP. VERY LOW TURNOVER.
Steve Bloom	Farley	3LW	We have a Nuc Tech group (entry level) They are assigned jobs every morning based on RP + plant needs
	Framatome	N/A	
Robin Miller	Limerick	BWR	Westinghouse staffs house deconers
	North Anna	3LW	
EDUERT MEYERS	Palo Verde	CE	Longterm Decon/Jr Staff maintain Decon/Housekeeping Duties
D MARK	Prairie Island	2LW	Cleaning is Plant Helpers Deconers @ laborers -
M Smith	Seabrook	4LW	We have a radwaste crew that is now made up of 2 tech's. we assist the Radwaste when needed.
	Sequoyah	ICE	

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Eric Hood	STP	4LW	4 Baseline Decon - Westinghouse 4 Baseline Housekeepers - Westinghouse little turnover
Jordan Bristow	Surry	3LW	3 Decon Techs and RPT help as needed. Everyone has an assigned area.
	Vogtle 1 & 2	4LW	
Joe CAMPANELLA	Vogtle 3 & 4	4LW	we have MVC Techs (entry level) Assigned to RP
TJ Cook	Watts Bar	ICE	WBN We have 10 that we keep year round, takes ownership winter CR's
Michael Quinnett	Wolf Creek	4LW	No house decon techs RP techs perform RLA Housekeeping

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HIGH INTEREST TOPIC QUESTIONNAIRE

2025 Winter RP-ALARA Conference Key West, FL Jan 28-30



Topic: ALARA work order RWP reviews

Who establishes does estimates for your work orders....RP? Craft?

Name: Michael Beyer (Vogtle 1&2)

Contact Info: 706-848-1523; mfbeyer@southernco.com

Contact (Name)	Plant	NSSS	Comments
Raymond Rouse Imon Alhonsaj	Barakah	CE	Dose champions AND ALARA
	Beaver Valley	3LW	
Joe C	Braidwood	4LW	RPT INITIAL AND base activities. ALARA All tasks of interest
Adam Gilliam	Callaway	4LW	RP
	Clinton	BWR	
Ryan Brown	Davis-Besse	B&W	- Craft provides rough numbers - RP does all the heavy lifting & head holding
Felix Martinez	Diablo Canyon	4LW	RP CURRENTLY DOES IT.
Steve Bloom	Farley	3LW	- Initially the craft Dose Champion is supplying the dose for their craft each month
	Framatome	N/A	
Robin Miller	Limerick	BWR	ALARA - online data / Area RE if required
	North Anna	3LW	
EVERT MEYERS	Palo Verde	CE	- RP Initial - Craft before no goes to working
D. Mark	Prairie Island	2LW	RP - at T-3 Projector Work group.
M. Smith	Seabrook	4LW	RP with craft input Approver
	Sequoyah	ICE	

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HIGH INTEREST TOPIC QUESTIONNAIRE

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Eriz Hood	STP	4LW	ALARA
Jordan Bristow	Surry	3LW	ALARA does all dose estimates
Mike Beyor	Vogtle 1 & 2	4LW	RP Lead for online outage RP Planner for outage
Joe Campanella	Vogtle 3 & 4	4LW	RP ALARA
TJ Cook	Watts Bar	ICE	craft supplies wrench hours ALARA supplies estimate
Michael Quinnett	Wolf Creek	4LW	Craft is prompted to create an estimate

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HIGH INTEREST TOPIC QUESTIONNAIRE

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Topic: Radwaste Shipping

How many personnel do you have supporting this function other than the Shipper themselves? Do you have a dedicated crew? How many including the shipper?

Name: Michael Beyer (Vogtle 1&2)

Contact Info: 706-848-1523; mfbeyer@southernco.com

Contact (Name)	Plant	NSSS	Comments
Raymond Rouse Imad Alhosani	Barakah	CE	4 shippers for 4 units, not dedicated they have other functions
	Beaver Valley	3LW	
Joel	Braidwood	4LW	One primary RW shipper And one backup as needed
Adam Gilliam	Callaway	4LW	4 RADWASTE OPERATIONS TECHS (HAVE OTHER DUTIES) RP TECHS DO SHIPPING SURVEYS
	Clinton	BWR	
Ryan Brown	Davis-Besse	B&W	1 Rad waste supervisor, 1 RP supervisor, 1 staff person = qualified shippers
Felix Martinez	Diablo Canyon	4LW	DEDICATED RAD WASTE GROUP, FOREMAN, ENGINEER, RAD WASTE TECHS
Steve Bloom	Farley	3LW	1 Rad waste supervisor 2 Rad waste techs
	Framatome	N/A	
Robin Miller	Limerick	BWR	RPT does shipping surveys 1 shipper
	North Anna	3LW	
ELLERT MEYERS	Palo Verde	CE	2 qualified shipper ↳ Additional 3 Tech ↳ 1 Engineer
P. Mark	Prairie Island	2LW	2 - Radwaste Shippers OS over shipping.
M. Smith	Seabrook	4LW	we have a Radwaste crew of 2 people with support from RP tech to perform survey on receive shipments
	Sequoyah	ICE	

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HIGH INTEREST TOPIC QUESTIONNAIRE

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Eric Hood	STP	4LW	1 Supervisor, 1 Professional Staff, 3 RP Techs All qualified shippers.
Jordan Bristow	Surry	3LW	1 Supervisor, 1 Tech, 1 Shipper
	Vogle 1 & 2	4LW	
Joe Campanella	Vogle 3 & 4	4LW	1 RW Shipper who is also RP Supervisor
D Cook	Watts Bar	ICE	2 Radwaste Shipper (Shipper only) 1 Radwaste RP Tech for Surveys
Michael Quinnett	Wolf Creek	4LW	1 Supervisor, 1 Shipper, 1 Tech

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HIGH INTEREST TOPIC QUESTIONNAIRE

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Topic: Removing items from a Contaminated Area

At any time, do you allow personnel to bag items across a contaminated area boundary without RP being present?

Name: Michael Beyer (Vogtle 1&2)

Contact Info: 706-848-1523; mfbeyer@southernco.com

Contact (Name)	Plant	NSSS	Comments
Raymond Rouse Iman Alhosani	Barakah	CE	Yes for remote c-zones High traffic Areas has RP @ SOP
	Beaver Valley	3LW	
Joel	Braidwood	4LW	No
Adam Gilliam	Callaway	4LW	Yes; CLEAN BAG TRANSFER IS PROCEDURALIZED
	Clinton	BWR	
Ryan Brown	Davis-Besse	B&W	- NO - But our BWR unit does
Felix Martinez	Diablo Canyon	4LW	Yes - CA work No. RP is ALWAYS PRESENT
Steve Bloom	Farley	3LW	No
	Framatome	N/A	
Robin Miller	Limerick	BWR	No
	North Anna	3LW	
ERBERT MEYERS	Palo Verde	CE	No
D. M. Smith	Prairie Island	2LW	Yes CA to CA Don't RP close bag direction
M. Smith	Seabrook	4LW	No
	Sequoyah	ICE	

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HIGH INTEREST TOPIC QUESTIONNAIRE

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Eric Hood	STP	4LW	If specifically briefed prior to activity
Jordan Bristow	Surry	3LW	No
MIKE BAUER	Vogtle 1 & 2	4LW	Yes - rod worker qualified. Must bring to RP for survey.
Joe CAMPANELLA	Vogtle 3 & 4	4LW	NO
TJ Cook	Watts Bar	ICE	NO
Michael Quinnett	Wolf Creek	4LW	No

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HIGH INTEREST TOPIC QUESTIONNAIRE

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Topic: DAC Representation

The SNC Fleet uses representation from all site functional areas to assist in dose estimates monthly. The process is referred to as 'DAC' (Dose Awareness Champion). Procedures are in place to provide guidance for the process but there is no specification as to whom works the process other than there be a Primary DAC and an Alternate DAC representative. The makeup of our team consists of both covered and not covered personnel. What classification of personnel supports this process for your utility?

Name: Michael Beyer (Vogtle 1&2)

Contact Info: 706-848-1523; mfbeyer@southernco.com

Contact (Name)	Plant	NSSS	Comments
Raymond Rouse Imen Alhamsani	Barakah	CE	Craft, technicians and ALARA consist of dose champions, they develop estimates
	Beaver Valley	3LW	
Joe C.	Braidwood	4LW	Mgmt/staff supports our process
Adam Gilliam	Callaway	4LW	WE DONT DO DOSE BY MONTH. MANAGERS SIGN OFF ON YEARLY DEPT GOAL
	Clinton	BWR	
Ryan Brown	Davis-Besse	B&W	- NO classification - SAC = manager level sub-sac = supervisor & union reps
Felix Martinez	Diablo Canyon	4LW	NO CLASSIFICATION. TASK MANAGERS ARE ASSIGNED TO BE THE PDC FOR WORK
	Farley	3LW	
	Framatome	N/A	
Robin Miller	Limerick	BWR	Online planner (ALARA) gives monthly estimates workgroups do not assist SAC approved monthly sets
	North Anna	3LW	
ELBERT MEMBERS	Palo Verde	CE	Section Leaders/ Department Leaders own responsibility:
D. Mark	Prairie Island	2LW	Both and ALARA liaisons from each department. KR-RP-SAC-01
M. Smith	Seabrook	4LW	we don't use a DAC Representative

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	Sequoyah	ICE	
Erric Hood	STP	4LW	ALARA Committee - Management. No monthly meeting.
Jordan Bristow	Surry	3LW	ALARA rep assigned to all work groups to assist in initiatives. But ALARA Staff does all estimates separately.
	Vogtle 1 & 2	4LW	
	Vogtle 3 & 4	4LW	
TJ Cook	Watts Bar	ICE	
Michael Quinnett	Wolf Creek	4LW	Typically it is a given department's management but can be a union bargaining worker

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HIGH INTEREST TOPIC QUESTIONNAIRE

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Topic: Radiological Posting Inserts

Do you use any other color for inserts to indicate a higher radiological hazard (ex. blue for High Contamination Area; orange for Airborne Radioactivity Area; red for Hot Particle Area, etc.,)?

Name: Michael Beyer (Vogtle 1&2)

Contact Info: 706-848-1523; mfbeyer@southernco.com

Contact (Name)	Plant	NSSS	Comments
Raymond Rose Iman Alhaghi	Barakah	CE	no, standard yellow and magenta
	Beaver Valley	3LW	
Joe C	Braidwood	4LW	Nope
ADAM GILLIAN	Callaway	4LW	RP ESCORT REQ ARE WHITE w/ RED TEXT
	Clinton	BWR	
Ryan Brown	Davis-Besse	B&W	- No - However, our procedure says to use green for LDWA, white for informational postings
Felix MARTINEZ	Diablo Canyon	4LW	No.
Steve Bloom	Farley	3LW	No
	Framatome	N/A	
Robin Miller	Limerick	BWR	Need to double check
	North Anna	3LW	
	Palo Verde	CE	No - There are some legacy inserts but we are purging these
D. Mark	Prairie Island	2LW	NO
M. Smith	Seabrook	4LW	No
	Sequoyah	ICE	

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HIGH INTEREST TOPIC QUESTIONNAIRE

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Eric Hood	STP	4LW	No
Jordan Bristow	Surry	3LW	Nope
	Vogtle 1 & 2	4LW	
Joe Camparelli	Vogtle 3 & 4	4LW	No
TJ Cook	Watts Bar	ICE	No
Michael Quinnett	Wolf Creek	4LW	Nope

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HIGH INTEREST TOPIC QUESTIONNAIRE

2025 Winter RP-ALARA Conference Key West, FL Jan 28-30



Topic: Control of Satellite RCA's

What do you have in place to control satellite RCAs to ensure no unauthorized release of RAD Material?

Name: Michael Beyer (Vogtle 1&2)

Contact Info: 706-848-1523; mfbeyer@southernco.com

Contact (Name)	Plant	NSSS	Comments
Raymond Rouse IMAN ALHUSONI	Barakah	CE	YES, all materials and personal must come back and monitor thru ARGES and SAM
	Beaver Valley	3LW	
JOE C	Braidwood	4LW	Nothing specific but lock IF possible
ADAM GULLIAN	Callaway	4LW	RADWORKERS GET SATELLITE RCA BRIEFS FROM RP WHEN SIGNING IN TO RCA
	Clinton	BWR	
Ryan Brown	Davis-Besse	B&W	-Nothing really, we depend on the rad worker to call for support
Felix MARTINEZ	Diablo Canyon	4LW	RESTRICT Access, locked
Steve Bloom	Farley	3LW	We have satellite RCA's locked up
	Framatome	N/A	
Robin Miller	Limerick	BWR	RP Brief req'd - call for RP support
	North Anna	3LW	
EILERT MEYERS	Palo Verde	CE	No Release of material without RP at Satellites
D. Martin	Prairie Island	2LW	RP Brief required / Some the RP's go
M Smith	Seabrook	4LW	we have monitors and try to control with locking buildings
	Sequoyah	ICE	

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HIGH INTEREST TOPIC QUESTIONNAIRE

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	STP	4LW	
Jordan Bristow	Surry	3LW	workers briefed to call before exiting or ensure RPT is there
	Vogle 1 & 2	4LW	
Joe Campanella	Vogle 3 & 4	4LW	SATELLITE RCAS Locked up
Yes	Watts Bar	ICE	Outside Areas Containers are Locked or in Locked Fenced Area controlled by RP
Michael Quinnett	Wolf Creek	4LW	Outs are locked up with an RP key

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High Interest Topics

Vogtle 3&4



1. What do you classify as emergent dose? How do you track? What processes are there in place for dose approvals?
2. Do you do automated or manual dose reports for morning management updates? If automated, what software do you use? Do you do daily or weekly dose estimates? Can you share what each looks like?

HIGH INTEREST TOPIC QUESTIONNAIRE

2025 Winter RP-ALARA Conference Key West, FL Jan 28-30



Topic: What do you classify as emergent dose? How do you track? What processes are there in place for dose approvals?

Name: Joseph Campanella

Contact Info: jdcampan@southernco.com 706-848-7098

Contact (Name)	Plant	NSSS	Comments
Raphael Kousz Iman Alhasani	Barakah	CE	emergent dose can be approved by ALARA Supervisor to 100man RPM J...com
	Beaver Valley	3LW	
Joel	Braidwood	4LW	Any dose not estimated / approved for mth. Proc approval / driven
Adam Gilliam	Callaway	4LW	ON DEMAND AMs + JOBS NOT IN ORIGINAL SCOPE. EMERGENT DOSE "BUCKET" FACTORED INTO GOAL
	Clinton	BWR	
Ryan Brown	Davis-Besse	B&W	> 2 man online = ALARA sup approval > 25 man online = RPM approval
Felix MARTINEZ	Diablo Canyon	4LW	EMERG DOSE: ANYTHING AFTER SCOPE FREEZE. TRACK BY RWP OR DATABASE (ONLINE) ALARA SUPERVISOR / RPM / ARC (OUTAGE)
Melanie Clay	Farley	3LW	Emergent dose is not PRC approved dose for the month + has been added outside of Tweek process. Our procedure has guidelines on emergent dose approvals
	Framatome	N/A	
Robin Miller	Limerick	BWR	Any dose not approved by SAC
	North Anna	3LW	
EILERT MEYERS	Palo Verde	CE	Unplanned Dose / Not Approved through AC ↳ 15% Outage Planned; Approve via AC
P. MANT	Prairie Island	2LW	Use Generator RWP, FZ procedure The White Cap to document.
M. Smith	Seabrook	4LW	In the process of developing better system to track emergent work.
	Sequoyah	ICE	
Eric Hood	STP	4LW	Any dose after T-5 Scope Freeze RPS approval.

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HIGH INTEREST TOPIC QUESTIONNAIRE

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Jordan Bristow	Surry	3LW	Anything not planned. Any work based on Condition Reports. Tracked weekly on line with Condition report.
MIKE BEYER	Vogtle 1 & 2	4LW	NMP-HP-ZOD - ANYTHING NOT APPROVED IN SCHEDULE PRIOR TO PARC. Dose Emergent dose
	Vogtle 3 & 4	4LW	
TJ Cook	Watts Bar	ICE	- Any work outside work plan week - AIAA TRACKS IT - RP can go out to 10 RSS 25 then notify AIAA
Michael Quinnett	Wolf Creek	4LW	Any work not planned, especially after the T-3 work week meeting. It is tracked separately on the WW dose estimate.

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HIGH INTEREST TOPIC QUESTIONNAIRE

2025 Winter RP-ALARA Conference Key West, FL Jan 28-30



Topic: Do you do automated or manual dose reports for morning management update? If automated, what software do you use? Do you do daily or weekly dose estimates? Can you share what each looks like?

Name: Joseph Campanella

Contact Info: jdcampan@southernco.com 706-848-7098

Contact (Name)	Plant	NSSS	Comments
Raymond Kousc IMAN Alhisoni	Barakah	CE	Dose reports are prepared manually
	Beaver Valley	3LW	
Joe C	Braidwood	4LW	Automated with tweaks as needed. Daily estimates
Adam Gilliam	Callaway	4LW	MANUAL. DAILY & WEEKLY
	Clinton	BWR	
Ryan Brown	Davis-Besse	B&W	- manual during work week only - Daily & weekly
Felix Martinez	Diablo Canyon	4LW	Automated. I will share
Steve Bloom	Farley	3LW	- Automated / HIS-20 - Daily + Weekly
	Framatome	N/A	
Robin Miller	Limerick	BWR	automated → tweak as work moves daily estimates (Monthly (week dose estimate))
	North Anna	3LW	
ESBERT MEYERS	Palo Verde	CE	- Manually generate Reports - Weekly Estimates
D. Smith	Prairie Island	2LW	Yes
M. Smith	Seabrook	4LW	Yes. I can share Estimates are done monthly and broken down to daily estimates.
	Sequoyah	ICE	
Eric Hood	STP	4LW	Automated, but requires corrections weekly, looking to make daily

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Breakout Sessions
RP ALARA Conf. 2025 Winter



- 1. Ice Condenser, BWRs, CANDU, CE**
- 2. Westinghouse 4-Loop Group (A)**
- 3. Westinghouse 4-Loop Group (B), B&W**
- 4. Westinghouse 2&3-Loop**

Breakout Sessions
Ice Condenser, BWRs,
CANDU, CE





**Limerick
Robin Miller**

- First success – Auto POD report implemented-RPM and online planner driven- better work life balance
- Second success – New rad engineering tech developed program to track radiation levels in steam affected areas, mapping dose rates, helps anticipate moisture carry-over dose impacts

**Palo Verde
Eilert Meyers**

- First success – Developed a program to improve radworker behaviors. T2-RW behaviors plan challenged. Challenges performed on top 3 top dose contributors. Teams developed to attack the top dose contributors and radiological risk jobs. Site wide team consisting of 8 ALARA personnel and FLS performed 2-3 observations per week resulting in no major radworker issues
 - Second success – KT&R for RPTs. 3-5 yrs of data on video library. Accomplished by recording remote monitoring, creating job coverage scripts, use of one note, pictures and RWPs. RPT owned and maintained.
-



**Watts Bar
TJ Cook**

- First success – Previously received a white finding for workers unplugging heap units. VP/Plant manager supported dedicated power supplies with locking outlets. EM dedicated support obtained.
- Second success – Had a GDAR in place related to PAPRs. Changed over to Max Air PAPRs- 1st outage they never lost a power pack

**Clinton
Frank Owens**

- First success – Technical Tuesday, System Wednesday, Procedure of month with quiz (NEW)-FLS developed. Recognized by NSRB. Potential to incorporate across fleet.
- Second success – Started reducing HWC for entry into steam-affected areas. 200-400 mR/hr dose rate reduction realized around MSLs. HWC reduced from 12 scfm to 6 scfm for steam-affected are entry.



**Barakah
Iman Alhosani**

- First success – 1-2 dose advocates perform online dose estimates for shops. Engineering supports shops for planning purposes. Radworkers are able to access all survey data. Shops have access to VSDS, a virtual tour with 3000 scans, dose simulation, and building monitors. These tools help with planning. ALARA personnel peer review dose estimates
- Second success –Centralized telemetry room. Implemented a 3 phased approach to improve telemetry on site.

**Group – BWR's, ICE, CANDU, CE
Challenges – What has gone wrong**

Facilitator: Frank Owens



**Palo Verde
Eilert Meyers**

- First challenge – wi-fi upgrade pushed out 6 years. Communications need improvement, Spotty telemetry coverage.
- Second challenge – RCP oil issues 4 recent entries. Previous entries were 20 years ago. 1st entry received 800 mrem. Not thought of as significant dose by station, so entries have become routine. 4 out of 6 RCPs have oil issues.

**Limerick
Robin Miller**

- First challenge- Emergent dose due to steam leaks, and planning processes associated with condensate filter demins.
 - Second challenge- Moisture carryover driven by GNF3 fuel, core design, and steam dryer, 70 curies projected for outage. Also have Fe issues- transport mechanism for Co-60
-



**Clinton
Frank Owens**

- First challenge – emergent dose /equipment reliability
- Second challenge – Chemistry does not work 24/7. Impacts timely air sample results. Noble gas air samples cannot be counted.

**Watts Bar
TJ Cook**

- First challenge- 3 days a week in CTMT resulting in a slow build up in CRE.
 - Planning schedule issues
 - Second challenge-Solid 5-year ALARA plan difficult to created due to late project adds and ever-changing work scope.
-



**Barakah
Iman Alhosani**

- First challenge- RP/Radworker proficiency and fundamentals. 80 nationalities. Utilizing a team with English speaking /translators. English is standard language. Not enough time to learn English language in an outage. Additionally, workers have different standards.
 - Second challenge- Dose tracking, cannot track by work order, rely on eSOMs, word of mouth. Challenging during outage and online periods, No turnovers on dose. Dose advocates not the best
-



Golden Nuggets:

- **Clinton – Exam for procedure of month**
- **Watts Bar- New dewatering units, New grapple unit for liner. New VP, Plant Manager, RPM all experienced. Site allowed extra spending. During outage -hd3d cameras for crud burst.**
- **Palo Verde- RP tabletop-teaching and learning. Identify high risk and infrequently performed jobs, Assign RP crew to project to develop project slides and training plan for outage. Crew and Supervisor held accountable for results**
- **Limerick- Drywell outage books for valve locations , references to Digital Plant Viewer.**

**Group – BWR's, ICE, CANDU, CE
Challenges – What has gone wrong**

Facilitator: Frank Owens



- **Barakah- RWP dose rate alarm setpoint adjustments. RP/workers received a lot of dose due to artificially high dose rate alarm setpoints. Procedure revised. ED now used as a tool**

Breakout Sessions
Westinghouse 4-Loop Group A



Group - PWR, 4 Loop Facilitator: Felix Martinez
Successes – What has gone right



(Plant)
(Representative)
Callaway
Adam Gilliam

- First success
 - First success was with the Dry Fuel Storage Campaign, where we set a lower dose goal than in the previous three campaigns. Although a couple of casks didn't meet this goal initially, project management worked closely with different groups to address these issues. We stopped taping the annulus gap, which helped in dose reduction, and Radiation Protection oversight played a key role by breaking down each piece of work to focus on minimizing radiation exposure, leading to incremental milliroentgen savings.
 - Second success
Second success involves the ALARA Roadshow, which we've been implementing for several cycles now. This initiative involves going to all the shops to brief work groups with a slideshow, effectively getting information out to everyone, screening out weaknesses, and enhancing radiation safety practices across the board.
-



(Plant)
(Representative)
STP
Eric Hood
Randall Sickler

- **First success –**
The adoption of Sentinel a couple of years ago, where we tackled various technological hurdles. We partnered with a company to develop Power BI reports and other tech solutions, bringing in a professional who could fluently communicate with our IT group. This collaboration has been vital for continuously bridging the gap between technological challenges and their resolutions, enhancing our system's efficiency.
 - **Second success –**
Our second success involved leveraging the expertise of retirees from Radiation Protection (RP). We managed to bring back a few of these experienced individuals during outages to serve as technicians. Their return has substantially alleviated the pressure on our current staff, significantly reducing the instances where we are forced into less optimal working conditions, such as using generators or relying on forced air. These 30-year veterans bring invaluable knowledge, ensuring that our operations during these critical periods are both safer and more effective.
-

Group - PWR, 4 Loop Facilitator: Felix Martinez
Successes – What has gone right



(Plant)
(Representative)
Diablo Canyon
Felix Martinez

-
- First success – We've integrated 3D Printing into our processes, adopted Artificial Intelligence through our partnership with Atomic Canyon, and expanded our use of laser scanning and virtual imaging platforms. These technological advancements have streamlined our work, improved accuracy, and opened new avenues for innovation.
 - Second success – Improved coordination of work planning, where work groups have made it a routine to include Radiation Protection (RP) specialists in the planning phase. This inclusion ensures that safety considerations are embedded from the outset, leading to more efficient, safer work practices and a reduction in last-minute adjustments or safety oversights.
-

Group - PWR, 4 Loop Facilitator: Felix Martinez
Successes – What has gone right



(Plant)
(Representative)
Seabrook
Michael Smith

-
- First success – During the 2024 outage, we achieved the lowest radiation dose in the plant's history, a testament to our enhanced safety protocols. Previously, we meticulously tracked doses down to every tenth of a millirem, but now we've shifted to rounding to whole numbers, recognizing doses under 0.5 millirem as negligible, effectively reporting them as 0 mR net dose. This change was particularly impactful in our diving operations, where we've successfully minimized work to 3-hour increments to limit radiation exposure. Exceeding this timeframe significantly impacts radiation exposure levels.
 - Second success – Our second success stems from the operations manager taking charge of Radiation Protection (RP), which has notably accelerated efficiency within the group, streamlining processes and enhancing our overall safety and performance metrics.
-

Group - PWR, 4 Loop Facilitator: Felix Martinez
Successes – What has gone right



(Plant)
(Representative)
Vogtle 3&4
Joe Campanella

- First success – Our first success was bolstering our team with a wealth of experienced technicians from various power plants alongside hiring junior techs. This strategy ensures that when less frequent or specialized tasks arise, seasoned technicians are paired with junior ones, fostering a learning environment while maintaining high operational standards.
 - Second success – Our second success involved conducting a thorough benchmarking exercise in planning, particularly with the integration of a startup source with a radiation level of about 58-R. We researched how other plants managed similar sources, then conducted dry runs using dummy source bundles to meticulously test our procedures. By employing RFID meters, we achieved the most realistic simulation of conditions, which was crucial for safety. Remarkably, despite the source's intensity, the total radiation exposure for the entire job was kept at or below 10 millirems, showcasing our commitment to safety and efficiency through detailed preparation and innovative technology use.
-
-

Group – PWR, 4 Loop Facilitator: Felix Martinez
Challenges – What has gone wrong



(Plant)
(Representative)
Callaway
Adam Gilliam

- First challenge – We're moving away from traditional "Callowayisms," specifically the practice of having dose rate ranges posted on signs in each room, which had been standard for years. Previously, any area within the Radiologically Controlled Area (RCA) open for access was required to display these dose rates. However, we've recently eliminated these Dose Rate Ranges (DRRs) signs. The challenge now is that workers are not accustomed to referencing survey maps instead. While our web viewer allows access to any survey map from any workstation, encouraging radworkers to adopt this new method of checking radiation levels is proving difficult. Understanding these maps also presents a learning curve for many. Project Engineer Peter Imm from Constellation highlights two incidents where this transition was notably challenging.
-



-
- **Second Challenge:**
Reactor Coolant Pump (RCP) issues are resurfacing, particularly with tasks involving turning van cap screws, reminiscent of problems from the 90s when RCP internals were replaced. This outage, one RCP is scheduled for removal, with another slated for the next. It's been around two decades since this kind of maintenance was last performed. Framatome has been contracted to handle the work, but the challenge lies in the unfamiliarity of the current workforce with these procedures. Moreover, with only two months left until the outage, the plan for these operations is not yet fully developed, posing a significant risk to both efficiency and safety.

**(Plant)
(Representative)
STP
Eric Hood
Randall Sickler**

-
- **First challenge – Knowledge Gaps with Non-RP Personnel.** A significant roadblock we face involves the lack of radiation awareness among non-RP staff. An illustrative case occurred when an engineer proposed the use of stellite for a project, not recognizing the associated radiation risks. This example underscores a broader issue where engineers and other personnel might prioritize their project objectives over radiological
-

**Group – PWR, 4 Loop
Challenges – What has gone wrong**

Facilitator: Felix Martinez



safety, highlighting the need for better education and communication across departments.

- Second Challenge – The planning for outages has is problematic. Even after the schedule is officially approved, there's a continuous addition or alteration of work, which directly impacts the reliability of the outage estimates. This ongoing change post-approval reflects a lack of discipline in sticking to the planned schedule, leading to inefficiencies, potential safety oversights, and increased stress on RP resources.

**(Plant)
(Representative)
Diablo Canyon
Felix Martinez**

- First challenge- Our primary challenge involves managing an overwhelming workload with the current personnel capacity. We're actively working on integrating new technologies into our daily operations to enhance efficiency. However, the adoption process is slow, and there's a significant learning curve for our staff, which strains our already limited resources.
 - Second challenge- The second hurdle we face is the incomplete understanding of the scope of work among team members, despite a general recognition of Radiation Protection (RP) responsibilities. There's an acknowledgment of RP's role, but the detailed aspects
-

Group – PWR, 4 Loop Facilitator: Felix Martinez
Challenges – What has gone wrong



of how RP integrates into the broader work scope are often misunderstood or underestimated, leading to inefficiencies and potential safety risks during project execution.

(Plant)
(Representative)
Seabrook
Michael Smith

- First challenge – Our first challenge involves integrating technicians from other facilities who bring their own unique experiences and practices, which don't always align with our station's specific requirements. Introducing personnel from different plants can also import attitudes or work cultures that potentially conflict with our established ways of doing business, leading to friction or inefficiencies in operations.
 - Second challenge – The second challenge we face is our tendency to be reactive rather than proactive, particularly in understanding the complexities involved in generating dose estimates. For instance, when work scopes within containment continue to evolve, we're often asked to provide dose estimates without the full context, making accurate predictions difficult. This reactive approach can lead to significant discrepancies
-

Group – PWR, 4 Loop Facilitator: Felix Martinez
Challenges – What has gone wrong



between estimated and actual doses (CRDM replacement)

(Plant)
(Representative)
Vogtle 3&4
Joe Campanella

- First challenge- Our initial challenge stems from workers operating with a construction mindset, focusing on task completion rather than the efficiency typical of a production environment. This often leads to an overestimation of working hours, skewing project timelines and resource planning. There's a critical need to shift towards more realistic estimations that reflect the nuances of working in a nuclear setting.
 - Second challenge- We're grappling with the T-week process, where work packages come to Radiation Protection (RP) without thorough vetting. This forces us into a position where we must hastily develop micro ALARA plans, compromising our ability to ensure both safety and efficiency. The rush undermines the comprehensive approach needed for optimal radiation safety.
-
-

Group – PWR, 4 Loop Facilitator: Felix Martinez
Challenges – What has gone wrong



Golden Nuggets:

- **Callaway-** Work load reduction. RP technician help avoid building a scaffold to perform work.
- **Vogtle 3&4-** Working with Westinghouse to identify all stellite components and arranging for specialized testing for elemental Cobalt.
- **Diablo Canyon-** Artificial Intelligence and new tech platform development.
- **Seabrook-** Use of a bid screen TV at the RCA access station. Took pictures of all the low dose waiting areas and displayed it on the TV.
- **STP -** Using the outage schedule to their advantage.

Group – PWR, 4 Loop Facilitator: Felix Martinez
Challenges – What has gone wrong



Peter Imm:

Successes:

- Best practices Matrix

Challenges

- 2401 review and reactions
- Foreign Nationals being used who don't understand the language.
- WANO method 10 and its implementation.

Golden Nuggets:

- Outage best practices matrix.
- Radworker DLR questionnaire

Breakout Sessions

B&W

Westinghouse 4-Loop Group B



Group - PWR, 4 Loop, B&W Facilitator: Ryan Brown
Successes – What has gone right



-
- | | |
|--|--|
| <p>(Plant)
(Representative)
Braidwood
Charity Stopka
Joe Coughlin</p> | <ul style="list-style-type: none">➤ First success – Dual outage year. 29 / 30.5 Rem. 31 / 34 Rem actual vs goal.➤ Second success – Sharepoint site – Immediate access to information. Scaffold / insulation tracker in excel spreadsheet. Shared ownership between ALARA personnel, scaffold techs |
| <hr/> | |
| <p>(Plant)
(Representative)
Davis Besse
Ryan Brown</p> | <ul style="list-style-type: none">➤ First success – Last refueling outage was lowest ever for DB. 32 Rem DLR. Semi permanent scaffolds, almost no rework or schedule sequence dose impacts➤ Second success – Performed hard shutdown leading into outage with no increase in dose rates on top of Rx head, anywhere else in plant |
| <hr/> | |
| <p>(Plant)
(Representative)
Wolf Creek
Mike Quinnett
Bob French</p> | <ul style="list-style-type: none">➤ First success – Tying dose to work orders. Still challenges with worker adherence, site buy in➤ Second success – Power BI further implementation and transparency |
-

Group - PWR, 4 Loop, B&W Facilitator: Ryan Brown
Successes – What has gone right



(Plant)
(Representative)
Vogtle 1&2
Michael Beyer

- First success – U1 Refuel Outage – House RP technicians out in the field serving as leads. Better line of communication. Improved ownership.
- Second success – Dry cask storage campaign. No radiological events. High level of granularity during critiques. Breakdowns of dose by individual activity. 890 / 909 mrem actual vs estimate

(Plant)
(Representative)
Framatome
Heather Hatton

- First success – Bare metal inspection / CO2 blasting for boron undervessel at turkey point. 4 days of mockups with the entire team. High level of detail in the mockup, willing to spend the money up front. Job completed 4 Rem under estimate (5/9 Rem)
 - Second success – Good rad worker practices being observed in the field from increased rad worker training in Lynchburg on the front end. Worker noticed increased dose on their SRD, identified an increase in general area dose rates.
-
-

Group – PWR, 4 Loop, B&W Facilitator: Ryan Brown
Challenges – What has gone wrong



(Plant)
(Representative)
Braidwood
Charity Stopka
Joe Coughlin

- First challenge – High Rad scaffold event. Scaffold modification / insulation removed, survey documentation didn't reflect the changes. NRC / ISI personnel briefed to inaccurate conditions.
- Second challenge – Ownership of dose advocate program. Communication as work moves in the schedule.

(Plant)
(Representative)
Davis Besse
Ryan Brown

- First challenge – Energy Harbor to Vistra transition. Going from SAP to Maximo. HIS-20 to Sentinel. DZ Atlantic to Allied. So on and so forth. Want to revise all procedures and make fleet procedures.
- Second challenge – RCP Impeller decon project starting this week. Alpha Level III, up to 13,000 dpm alpha

(Plant)
(Representative)
Wolf Creek
Mike Quinnett
Bob French

- First challenge- High rad events – Deliberate misconduct. Moving of HRA barriers by work groups. Letting themselves into HRA's. Not strong discipline in the aftermath for these events either.

Group – PWR, 4 Loop, B&W Facilitator: Ryan Brown
Challenges – What has gone wrong



	<ul style="list-style-type: none">➤ Second challenge- Did not meet outage goal. Increased dose rates in the plant from poor crud burst cleanup. Lack of outage staffing has led to snowball effect of poor morale / retirements
<p>(Plant) (Representative) Vogtle 1&2 Michael Beyer</p>	<ul style="list-style-type: none">➤ First challenge – No longer have online ALARA position (work order reviews, T-meetings.) Utilizing 1 contractor. T-meetings have gone back to RP supervisors.➤ Second challenge – Tracking dose by work order, scanning / adherence during log in process.
<p>(Plant) (Representative) Framatome Heather Hatton</p>	<ul style="list-style-type: none">➤ First challenge- Discrepancies on dress requirements / respiratory requirements on certain sites. Not willing to listen to Framatome input during planning process. Hesitation to utilize “extreme’s” because of cost. Has resulted in several PCE’s, financial impact to Framatome.➤ Second challenge- Sites refusing Framatome dose estimates during planning process. Has resulted in dose overages where Framatome takes the hit. Poor

Group – PWR, 4 Loop, B&W Facilitator: Ryan Brown
Challenges – What has gone wrong



dose recognition of FME / firewatch. Not utilizing cameras or being proactive about finding LDWA's

Golden Nuggets:

- **Braidwood-** Purchased small drone for \$2300. Implemented within days.
- **Davis Besse-** Mounted placards for EPRI / BRAC survey points

Group – PWR, 4 Loop, B&W Facilitator: Ryan Brown
Challenges – What has gone wrong



- **Vogtle 1&2-** Color dose markers for the top of the HI-TRAC
- **Wolf Creek-** Spot / Chief Robot utilized for Rx cavity survey
- **Framatome-** Wrote ALARA in giant letters on hard hat. Vastly increased engagement from workers. Many people raising concerns / making suggestions

Breakout Sessions
Westinghouse 2&3-Loop



Group – PWR 2&3 Loop, B&W Facilitator: Dave Martin
Successes – What has gone right



Farley
Steve Bloom

- First success – Valve data base. Spread sheet for all details of valves. RP related.
- Second success – 3D printing for shielding (in process)

Prairie Island
Dave Martin

- First success –
- Second success – ALARA Baffle bolt and clevis. ALARA worked with ALARA dose with Westinghouse

Surry
Jordan Bristow

- First success – Shielding table for work in CTMT. Magnetic xray. License extension worked with ALARA.
 - Second success –
-

Group – PWR 2&3 Loop, B&W Facilitator: Dave Martin
Challenges – What has gone wrong



Farley
Steve Bloom

- First challenge- Segmented seal leak. Under
- Second challenge-

Prairie Island
Dave Martin

- First challenge-
- Second challenge-
Changes in PM and two new RP supervision.

Surry
Jordan Bristow

- First challenge- RP tech turnover. Cost dose and create challenges
 - Second challenge-
-

Group – PWR 2&3 Loop, B&W Facilitator: Dave Martin
Challenges – What has gone wrong



Golden Nuggets:

- **Farley- Valve data base. Spreadsheet for all details of valves. RP related.**
- **Prairie Island- Outage cost saving/Rad Risk using SE-75**
- **Surry- History data base for planning**

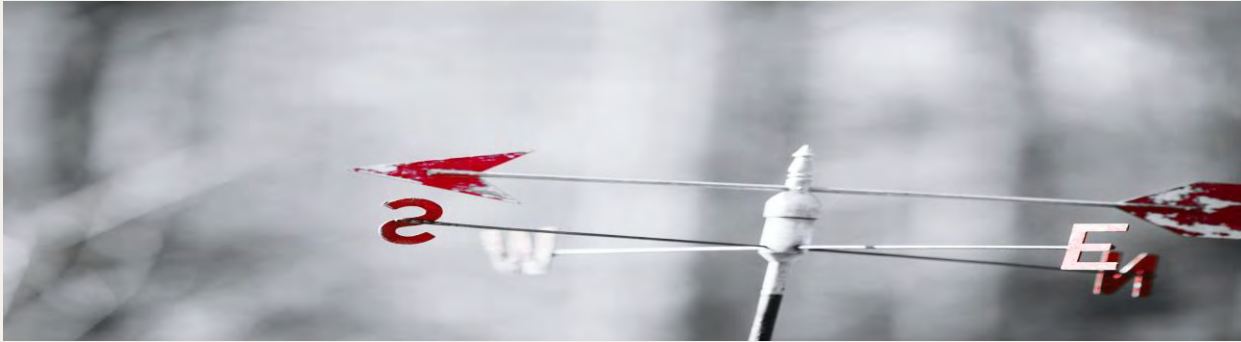
RP ALARA Conference Presentations



- 1. Occupational and Public Radiation Safety**
- 2. HP Failed Fuel Experiences and Lessons Learned**

RPAC 2025W Presentation
Occupational and
Public Radiation Safety





Industry ALARA Meeting

Occupational and Public Radiation Safety

January 28-30, 2025



Occupational and Public Radiation Safety

At the Dock

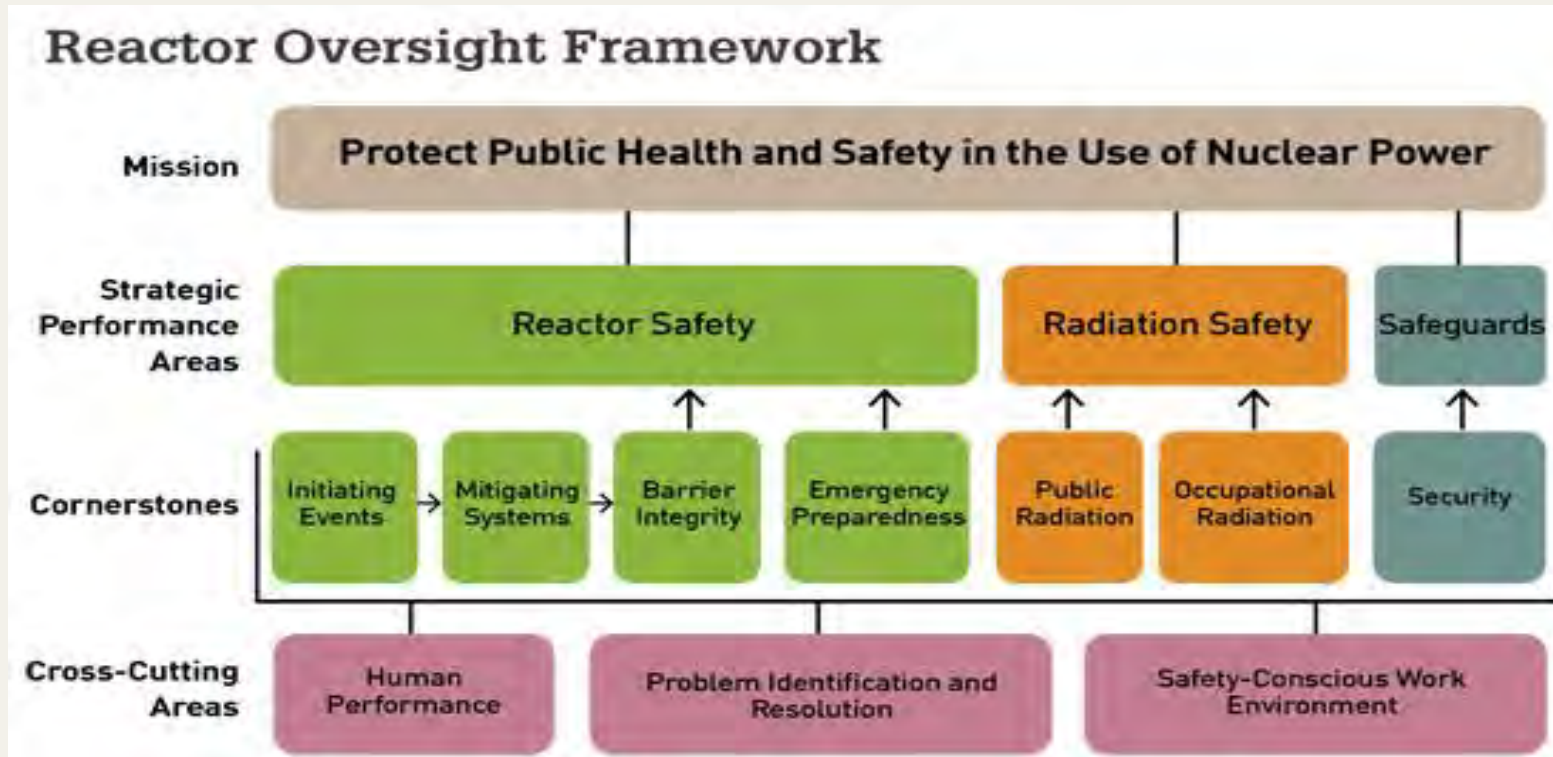


At Sea





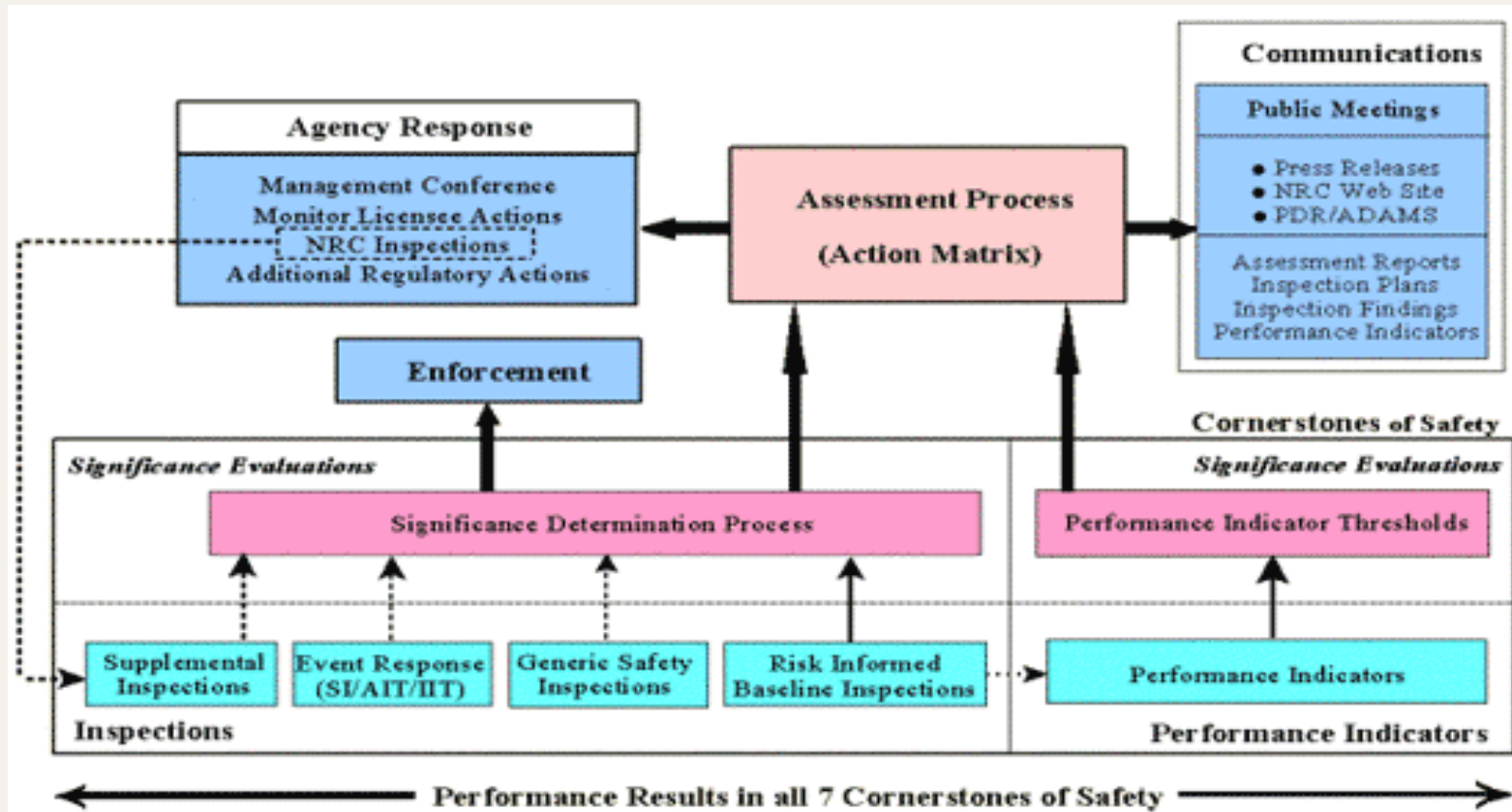
Reactor Oversight Process



TWO of the Seven Cornerstones are Radiation Safety Plus Part 37 (Security) and Radiation Monitors (EP)



ROP Performance Assessment





Significance Determination Process



How the NRC categorizes inspection FINDINGS allows the NRC to Assess and Communicate Risk to all stakeholders.



ROP Performance Assessment

NRC response plan to ROP assessment of plant performance

ROP Action Matrix Assessment of Plant Performance

Column 5. Unacceptable Performance

Column 4. Multiple/Repetitive Degraded Cornerstone
Repetitive degraded cornerstone, multiple degraded cornerstones, or multiple **YELLOW** inputs, or one **RED** input

Column 3. Degraded Performance
One degraded cornerstone (three **WHITE** inputs or one **YELLOW** input in a cornerstone) or three **WHITE** inputs in any strategic performance area

Column 2. Regulatory Response
No more than two **WHITE** inputs in a strategic performance area

Column 1. Licensee Response
All performance indicators and cornerstone inspection findings **GREEN**

NRC Response

Response at Agency Level

- Meeting with NRC Executive Director for Operations and senior plant management
- Order to modify, suspend, or revoke license

Response at Agency Level

- Meeting with NRC Executive Director for Operations and senior plant management
- Plant operator improvement plan with NRC oversight
- NRC team inspection focused on performance issues at the site
- Demand for Information, Confirmatory Action Letter, or Order

Response at Regional Level

- Meeting with NRC regional management and senior plant management
- Plant operator self-assessment with NRC oversight
- Additional NRC inspections focused on cause of degraded performance

Response at Regional Level

- Meeting with NRC and plant management
- Plant operator corrective actions to address **WHITE** inputs
- NRC inspection to follow up on **WHITE** inputs and corrective actions

Normal Regional Oversight

- Routine inspector and staff interaction
- Baseline inspection program
- Annual assessment public meeting

Increasing Safety Significance

Increasing Regulatory Oversight



ROP Action Matrix by Column

Action Matrix by Column

Licensee Response (Baseline Inspection)	Regulatory Response (Response at Regional Level)	Degraded Performance (Response at Regional Level)	Multiple/Repetitive Degraded Cornerstone Column (Response at Agency Level)	Unacceptable Performance (Response at Agency Level)
Arkansas Nuclear 1	Catawba 2			
Arkansas Nuclear 2	Columbia Generating Station			

Perry Station – Column 3 on ORS Performance Indicators	RAM Shipping – Column 2
Columbia Airborne and Dose Assessment – Column 2	
Radiation Monitors – Column 2	Palisades EDEX Dose Monitoring – Column 2
Radiation Monitors – Column 2	



IMC 0612 App B 'Issue Screening Directions'

Guidance within the ROP to Trigger Traditional Enforcement

- Traditional Enforcement is applied to violations associated with
 - **(a) Willfulness,**
 - **(b) Impacted the Regulatory Process,**
 - **(c) Actual Safety Consequences, or**
 - **(d) A Violation w/o a Performance Deficiency, or Enforcement Discretion applies.**
- The term "willfulness" as used in this policy embraces a spectrum of violations ranging from deliberate intent to violate or falsify to and including careless disregard for requirements. Willfulness does not include acts which do not rise to the level of careless disregard.



TE Outside of the ROP

10 CFR 50.5 Deliberate Misconduct

(a) Any licensee, applicant for a license, employee of a licensee or applicant; ... may not: (1) Engage in deliberate misconduct that causes or would have caused, if not detected, a licensee or applicant to be in violation of any rule, regulation, or order; or any term, condition, or limitation of any license issued by the Commission; or ...

(b) A person who violates paragraph ... may be subject to enforcement action in accordance with the procedures in 10 CFR part 2, subpart B.

10 CFR 50.7 Employee Protection (a) Discrimination by a Commission licensee, an applicant for a Commission license, or a contractor or subcontractor of a Commission licensee or applicant against an employee for engaging in certain protected activities is prohibited ...

10 CFR 50.9 Completeness and Accuracy of Information (a) Information provided to the Commission by an applicant for a license or by a licensee or information required by statute or by the Commission's regulations, orders, or license conditions to be maintained by the applicant or the licensee shall be complete and accurate in all material respects ...



Observed Gaps in RP Program Management

Licensed Bases and Regulatory Responsibilities

The License and Technical Specifications

- Organizational Independence
- Reg. Guide 1.8 “ Qualification and Training of Personnel for Nuclear Power Plants” specific to the RPM Position
- HPPOS (Health Physics Position Papers)

[NRC: Package ML101940006 -Power Reactor Operating Licenses and Technical Specifications.](#)

Requirements of Reg. Guide 1.8 are applicable no matter what ANSI Standard commitments. (ANSI/ANS 3.1 1978 to 2014)



NPP Licenses (TS 5.2.1/TS 6.2.1)

Technical Specification 6.2.1 Onsite and Offsite Organizations

b. The plant manager shall be responsible for overall unit safe operation and shall have control over those onsite activities necessary for safe operation and maintenance of the plant.

d. The individuals who train the operating staff and those who carry out health physics and quality assurance functions may report to the appropriate onsite manager; however, they shall have sufficient organizational freedom to ensure their independence from operating pressures.



NRC NPP Licenses (TS 5.3.1/TS6.3.1)

- Technical Specification 6.3 Facility Staff Qualifications
6.3.1 Each member of the facility staff shall meet or exceed the minimum qualifications of ANSI 18.1-1971 (ANSI 3.1) for comparable positions, except for the individual designated as the **Radiation Protection Manager** who shall meet or exceed the qualifications of Regulatory Guide 1.8, September 1975,



Regulatory Guide 1.8, Personnel, Selection and Training, Sept. 1975

[ML13038A100 Reg Guide 1.8 and RPM Quals 1975.pdf](#)

- The Radiation Protection Manager should be an **experienced professional in applied radiation protection at nuclear facilities** dealing with radiation protection problems and programs similar to those at nuclear power stations.
- The RPM should be **familiar with the design features and operations of nuclear power stations** that affect the potential for exposures of personal to radiation.
- The RPM should have the technical competence to **establish Radiation Protection programs** and the supervisory capability to direct the work of professionals, technicians, ... to implement the radiation protection programs.



Regulatory Guide 1.8, Personnel, Selection and Training, Sept. 1975

- The RPM should have a bachelor's degree or the equivalent in a science or engineering subject, including some formal training in radiation protection.
- The RPM should have at least five years-of professional experience in applied radiation protection.
- At least three years of this professional experience should be in applied radiation protection work in a nuclear facility dealing with radiological problems to those encountered in nuclear power stations, preferably in an actual nuclear power station.



Regulatory Guide 8.27

Regulatory Guide 8.27 “Radiation Protection Training for Personnel at Light-Water Cooled Nuclear Power Plants” (1981)

Section 4. Radiation Protection Staff

- Their knowledge should be of sufficient depth to qualify them to provide technical support to the training staff in the development and conduct of the radiation protection training.
- Further, they must be prepared to develop, modify, and implement the radiation protection program competently.

[ML003739628 Reg Guide 8.27 RADIATION PROTECTION TRAINING FOR PERSONNEL AT LIGHT-WATER-COOLED NUCLEAR POWER PLANTS.pdf](#)



Health Physics Position Papers

- HPPOS-018 A licensee proposed to allow a one-for-one substitution of an incumbent technician's experience for the Regulatory Guide's stated "... at least 5 years of professional experience"
 - Technician experience is not equivalent to professional experience.
- HPPOS-020 The requirement of a bachelor's degree is not considered to be germane to the specific functions of the Radiation Protection Manager (RPM).
 - The attributes of a good RPM are considered to be gained almost exclusively by specialized on-the-job, practical and supervisory experience rather than through the broad generalized academic training received by a person with a bachelor's degree.



Notice of Violation VIO 05000440/2015010-01

- Technical Specification (TS) 5.3.1 states: "Each member of the Unit staff shall meet or exceed the minimum qualifications of ANSI N 18.1-1 971 ... except for the Radiation Protection Manager (RPM), who shall meet or exceed the qualifications of Regulatory Guide (RG) 1.8, September 1975 ..."
- RG 1.8, September 1975 requires at least 5 years of professional experience in applied radiation protection with at least 3 years of this professional experience in applied radiation protection work in a nuclear facility dealing with radiological problems similar to those encountered in nuclear power stations, preferably in an actual nuclear power station.
- Contrary to the above, since April 28, 2015, an individual was designated and performed the duties of the RPM failed to meet the professional experience as required by the TS 5.3.1 as specified in RG 1.8.
- This (Cited) violation is associated with a (Green) Significant Determination Process Finding.



Regulatory Guide 8.27

Regulatory Guide 8.27 “Radiation Protection Training for Personnel at Light-Water Cooled Nuclear Power Plants” (1981)

Section 4. Radiation Protection Staff

- Professional members of the staff will normally bring to the job the knowledge specified in Regulatory Guide 1.8, "Personnel Selection and Training." **Many members of the radiation protection staff will have essentially unlimited access to all areas of the nuclear power plant (*i.e., freedom to go anywhere in the plant without escort or special instruction (e.g., without a radiation work permit) and, therefore, responsible for their own radiological safety*).**



10 CFR 1601

Control of access to high radiation areas

The licensee shall ensure that each entrance or access point to a high radiation area has one or more of the following features ...

- (a)(3) Entryways that are locked, except during periods when access to the areas is required, with positive control over each individual entry.
- (c) A licensee may apply to the Commission for approval of alternative methods for controlling access to high radiation areas.
- (d) The licensee shall establish the controls required by paragraphs (a) and (c) of this section in a way that **does not prevent individuals from leaving a high radiation area.**



Technical Specifications - High Radiation Area

- 6.12.1.b. Access to, and activities in, each such area shall be controlled by means of a *Radiation Work Permit (RWP) or equivalent* that includes specification of radiation dose rates in the immediate work area(s) and other appropriate radiation protection equipment and measures.



Technical Specifications - High Radiation Area

Regulatory Guide 8.10, “Operating Philosophy for Maintaining Occupational Radiation Exposures as Low as Is Reasonably Achievable” Revision 2

- Definitions - **Radiation Work Permit (RWP):** An authorization by the licensee’s management to perform a specific procedure involving radiation exposure of personnel in a particular area. It contains detailed procedures for every aspect of the work to be done.



Technical Specification 6.12.1.c

High Radiation Area

c. Individuals qualified in radiation protection procedures and personnel continuously escorted by such individuals may be exempted from the requirement for an RWP or equivalent while performing their assigned duties provided that they are otherwise following plant radiation protection procedures for entry to, exit from, and work in such areas.

- Atomic Energy Commission (AEC) - 1946-1975
 - Health Physic Society – 1955
 - National Registry of Radiation Protection Technologist – 1976
 - American Academy of Health Physics – 1982

NOTE THE DATES TO UNDERSTAND THE WORDING.....



Technical Specification 6.12.1.e

- Except for individuals qualified in radiation protection procedures, or personnel continuously escorted by such individuals, entry into such areas shall be made only after dose rates in the area have been determined and entry personnel are knowledgeable of them. These continuously escorted personnel will receive a pre-job briefing prior to entry into such areas. This dose rate determination, knowledge, and pre-job briefing does not require documentation prior to initial entry.

By the License



Summary

- ... the radiation protection staff enter unknown conditions, within certain protective parameters, (Reg Guide 8.38 OPEX) to assess the radiological hazards.
- **Then ...** the RP staff established the radiological controls (via the RWP as defined in Regulatory Guide 8.10 Operating Philosophy for Maintaining Occupational Radiation Exposures as Low as Is Reasonably Achievable) for workers to perform their tasks.



Technical Specifications

- This means that fully qualified ***ANSI RP Technicians are responsible for their own radiation safety***, and by definition, enter unknown radiological conditions to establish the controls for other workers, prior to entry.
- Other personnel are either continuously escorted by an ANSI RP Technician or ***enter only after dose rates in the area have been determined; and they are knowledgeable of the radiological hazards, prior to the entry.***
- ***“At Power” entries are particularly vulnerable to regulatory compliance***, given industry OPEX on radiation streaming from penetrations and the removal of rosewood shielding in the BWRs; neutron exposures, and industrial safety considerations, for the potential for safety relief valve lifts, SCRAMs, etc.
- There is a fundamental difference between **establishing** radiological controls and **verifying** radiological conditions.
 - Licensing Bases for EB 17-02 “Self-Protection for Radiological Work Activities”
 - ‘New’ initiative that reoccurs about Every 10 Years



10 CFR 20.1602

Control of Access to Very High Radiation Areas

- In addition to the requirements in § 20.1601, the licensee shall institute additional measures to ensure that an individual is not able to gain unauthorized or inadvertent access to areas in which radiation levels could be encountered at 500 rads (5 grays) or more in 1 hour at 1 meter from a radiation source or any surface through which the radiation penetrates.



NUREG 1736

Consolidated Guidance: 10 CFR Part 20

10 CFR 20.1602 - Guidance Statement:

- VHRA's require much stricter controls, since failure to implement effective radiological controls adequately can result in individuals receiving doses that pose significant health risks, or even death. Because of the potential for life-threatening exposures to individuals, licensees must institute additional measures to ensure that individuals are not able to gain unauthorized or inadvertent access to VHRA.
- To the extent possible, entry should be forbidden unless there is a sound operational or safety reason for entry.



HPPOS 16

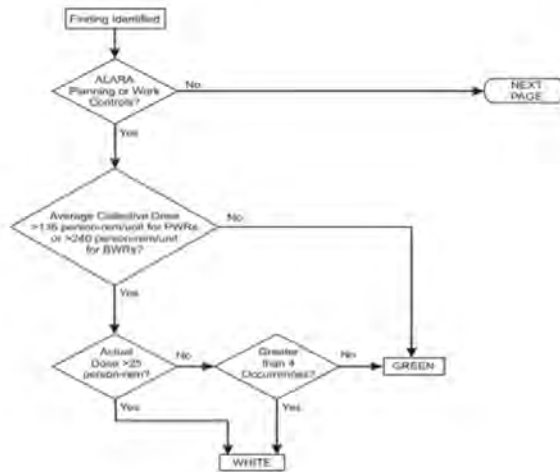
Applicability of Access Controls for Spent Fuel Pools

- Spent fuel pool areas are not high radiation areas due to the inaccessibility of highly radioactive materials stored in the pool.
- *If a diver enters the pool or upon movement of highly radioactive materials stored in the pool, then proper health physics controls must be instituted.*
- Materials in spent fuel pools that could cause an individual to receive a dose equivalent to the total body in excess of 100 mrem in one hour are normally ten or more feet below the surface of the pool.
- HPPOS-002 (IN 82-31) “Overexposure of Diver During Work in Fuel Storage Pool”



Occupational Radiation Safety Significance Determination Process

Occupational Radiation Safety SDP

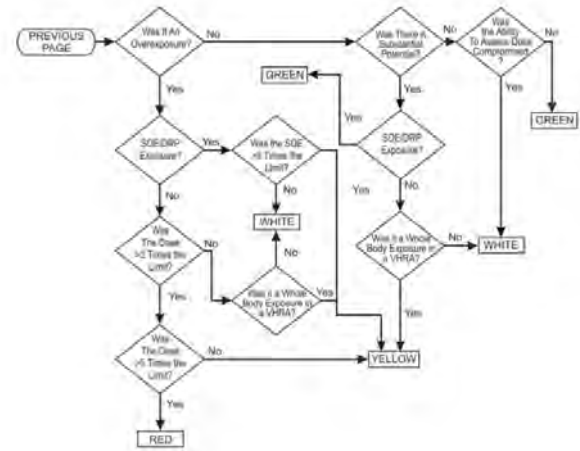


Issue Date: 08/19/08

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Occupational Radiation Safety SDP



Issue Date: 08/19/08

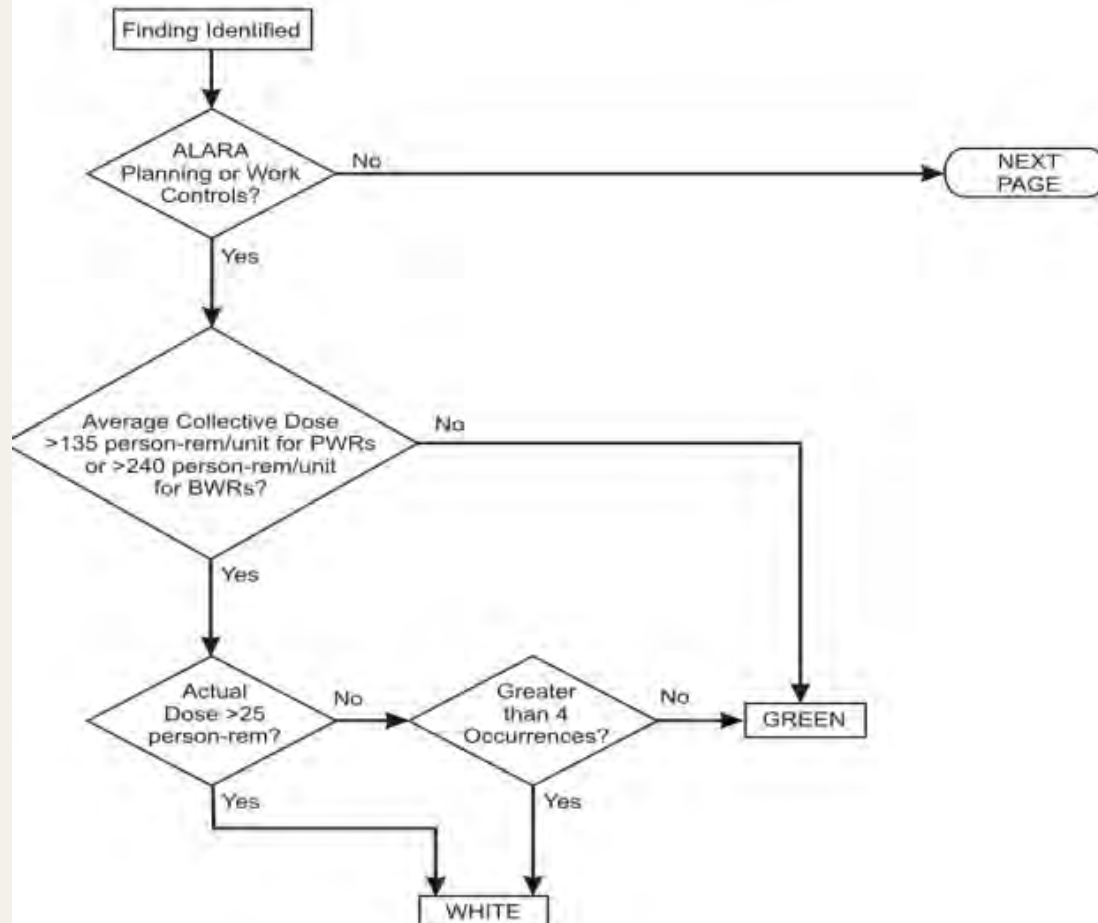
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IMC 0609 Appendix C

Occupational Radiation Safety SDP





ALARA Regulatory Basis

Title 10 CFR 20, “Standards for Protection against Radiation”

ALARA is an acronym for “As Low As Reasonably Achievable.”

Definition.

ALARA is defined as an approach to radiation protection to manage and control doses (both individual and collective) to the work force and the general public such that doses are kept as low as is reasonable, taking into account social, technical, economic, practical, and public policy considerations. ALARA is not a dose limit but a process, which has the objective of maintaining dose levels as far below applicable limits of 10 CFR20.



ALARA

- “ALARA is never the reason NOT to do work. It is the way to do, what you have to do, to maintain nuclear safety at the plants”

–Roger Pedersen, Senior Health Physicist,
–NRC, NRR, Program Office



Radiation Protection Timeline

- **Nothing New.....**
 - 1896 – American engineer Wolfram Fuchs gave first recognized radiation protection advice:
 - Make exposure as short as possible.
 - Do not stand within 12 inches of the X-ray tube.
 - Coat the skin with Vaseline and leave an extra layer on the most exposed areas.
- “Time, Distance, and Shielding”



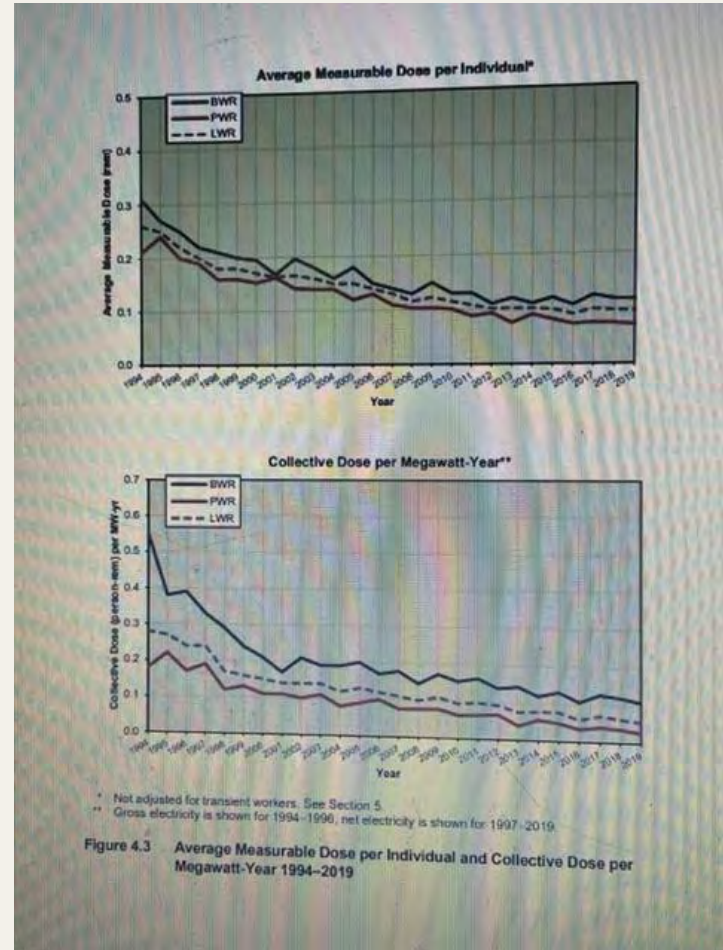
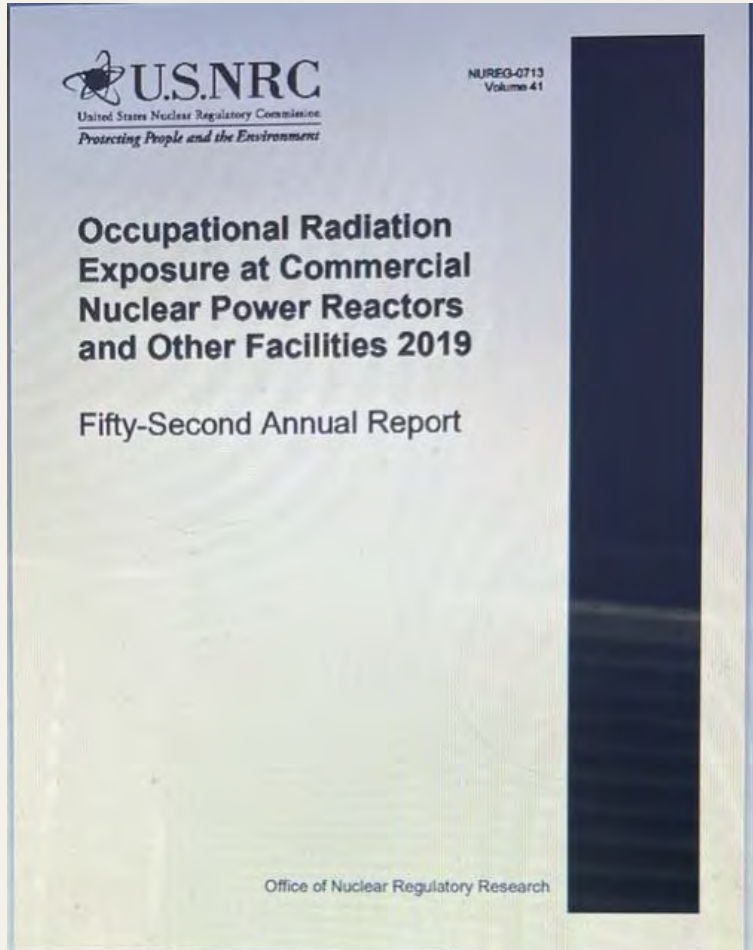
ALARA Concepts

Transition from Time, Distance and Shielding to:

- Radiological and Industrial Safety Risk Recognition and Mitigation,
- Detailed Work Planning,
- Work Sequencing (Vertical and Horizontal Work Control)
- Source Term Reduction and Management
- Work Execution Monitoring and Control,
- Event Mitigation, and
- Exposure Controls.



NUREG 0713 Data





INSPECTION PROCEDURES

- What your NRC Inspector is Doing
 - 71124.01 “Radiological Hazard Assessment and Exposure Controls”
 - ~~71124.02 “ALARA Planning and Controls”~~
 - 71124.03 “In-Plant Airborne Radioactivity Control and Mitigation”
 - 71124.04 “Occupational Dose Assessment”
 - 71124.05 “Radiation Monitoring Instrumentation”
 - 71124.06 “Radioactive Gaseous and Liquid Effluent Treatment”
 - 71124.07 “Radiological Environmental Monitoring Program”
 - 71124.08 “Radioactive Solid Waste Processing and Radioactive Material Handling Storage”



NRC Inspection Procedure (IP) 71124.02

“Occupational ALARA Planning and Controls”

- Now Deleted
 - NUREG 0713 “Occupational Radiation Exposure at Commercial Nuclear Power Reactors and ...”
- Significant Activities moved to IP 71124.01
"Radiological Hazard Assessment and Exposure Controls”



A Nuclear Electric Factory

- Collective Radiation Exposure (CRE) has been deemphasized by the industry in recent years. (NUREG 0713)
 - Senior managers (and Board of Directors) often prefer to talk in terms of radiological risk, as opposed to CRE.
 - CRE as a performance metric is often an indicator of nuclear safety
 - Source Term impact on Reactor Coolant Pump Seal and Valve Performance (Cobalt and Colloid Contaminants)
 - A colloid is a mixture in which one substance consisting of microscopically dispersed insoluble particles is suspended throughout another substance. Some definitions specify that the particles must be dispersed in a liquid,[1] while others extend the definition to include substances like aerosols and gels.
 - Palisades Reactor Head Repairs



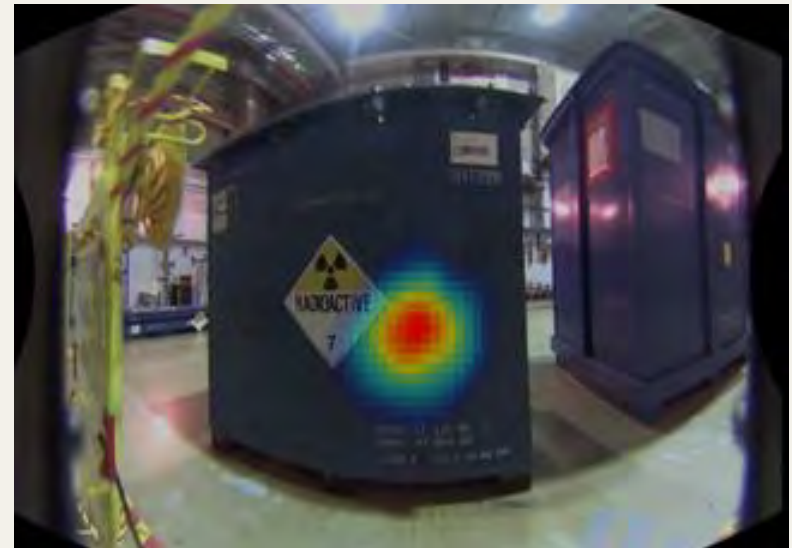
10 CFR 20.1003 Definitions

- **Total Effective Dose Equivalent (TEDE)** means the sum of the effective dose equivalent (for external exposures) and the committed effective dose equivalent (for internal exposures).
- **Survey *means an evaluation*** of the radiological conditions and potential hazards incident to the production, use, transfer, release, disposal, or presence of radioactive material or other sources of radiation. When appropriate, such an evaluation includes a physical survey of the location of radioactive material and measurements or calculations of levels of radiation, or concentrations or quantities of radioactive material present.



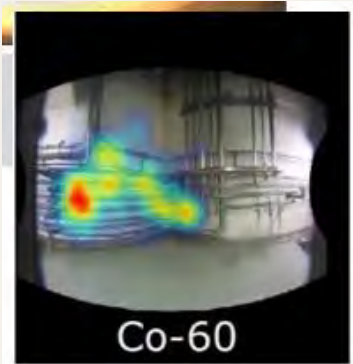
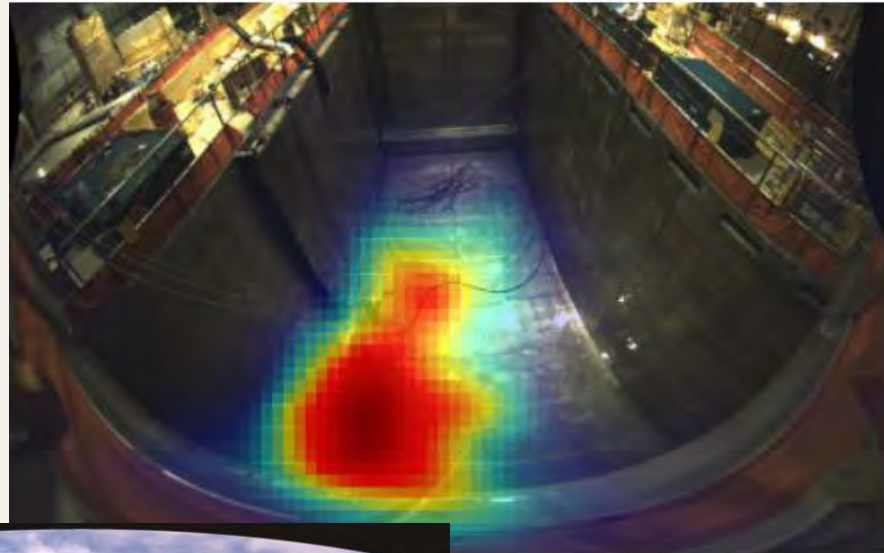
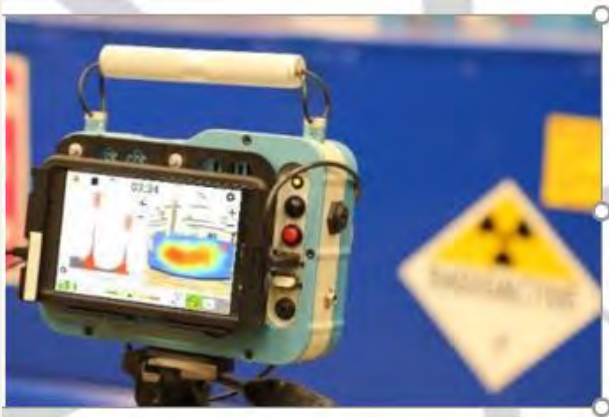
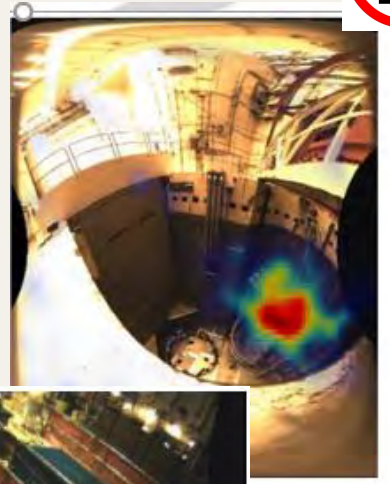
CZT and \$100k one Crystal \$150k+ 4 Crystals for low energy C057

- *Spectroscopic imaging detectors* that takes a visual image and overlays it with a radionuclide specific heat map. This produces a visual means of communicating radiation fields and can provide verification of traditional dose rate surveys.
 - Risk management: RAM Shipments, Cavity Decon, Shielding Assessments, Critical Path (OCC) Management





Cadmium Zinc Telluride (CZT) camera (courtesy of H3D, Inc)





NRC Regulatory Guide 8.15, “Acceptable Programs for Respiratory Protection” (TEDE ALARA)

Regulatory Position C.2. - ALARA Requirement

- 10 CFR 20.1101(b), **licensees must use**, to the extent practical, **procedures and engineering controls** based on sound radiation protection principles to achieve occupational doses that are ALARA.
- 10 CFR 20.1702, licensees are to limit intakes by means of engineering controls or procedures, along with the use of respirators, consistent with maintaining the TEDE ALARA.



Regulatory Guide 8.15

TEDE ALARA:

- Evaluation consider;
 - Respirator Inefficiency (per NUREG/CR-0041)
 - The more complex the task or the more communication needed, the greater the inefficiency
 - More protective respirators generally slow down a worker more than less protective devices
 - Work environment can add to the complexity of the evaluation (i.e. cold, heat, humidity)



Regulatory Guide 8.15

TEDE ALARA continued;

- Evaluation consider;
 - Inefficiency (per NUREG/CR-0041)
 - **Inefficiency factor of up to 15% is reasonable** (use of larger factors needs justification)
 - Prior experience, professional judgment, time-motion studies, mock-ups, etc.
 - ***Monitor and adjust factors as job progresses***
 - However removing of respirators in the middle of a job may not be practical
 - **Apply lessons to future work, as appropriate**
 - **Post Job ALARA Reviews, Post Outage Report**



Regulatory Guide 8.15

TEDE ALARA continued;

- Evaluation consider;
 - **NRC encourages licensee judgment in the decision** to require the use of respirators where they may not be justified by the ALARA evaluation, or to not use them when their use would reduce dose but decrease worker industrial safety. (NUREG/CR-0041)
 - Heat stress,
 - heat relief,
 - skill of worker,
 - post-work consequences (personnel decon, portal monitor issues, psychological strain on workers, etc.)



Inspection Procedure 71124 Attachment 01

Radiological Hazard Assessment and Exposure Controls (January 1, 2022)

71124.01-01 Inspection Objectives

- 01.01 Review and **assess licensee performance in assessing the radiological hazards in the workplace associated with licensed activities and the implementation of appropriate radiation monitoring and exposure controls.**
- 03.04 Radiological Hazards Control and Work Coverage Sample
 - Verify the licensee controls radiological hazards during radiological work.
Specific Guidance
 - a. Consider if **radiological controls are implemented commensurate with the radiological hazard.** Adequate radiological controls include performing required surveys (e.g., radiation, contamination and airborne), radiation protection job coverage (e.g., audio and visual surveillance for remote job coverage), contamination controls and stop work criteria.
 - b. Consider if **the licensee has integrated radiological work controls and ALARA requirements into work packages, work procedures and/or RWP documents.**

[ip71124-01 RADIOLOGICAL HAZARD ASSESSMENT AND EXPOSURE CONTROLS.docx](#)



10 CFR 20.1701 Use of process or other engineering controls.

- The licensee shall use, to the extent practical, process or other engineering controls (e.g., containment, decontamination, or ventilation) to control the concentration of radioactive material in air.

10 CFR 20.1702 (a) When it is not practical to apply process or other engineering controls ... increase monitoring and limit intakes by one or more of the following means

- (1) Control of access;
- (2) Limitation of exposure times;
- (3) Use of respiratory protection equipment; or
- (4) Other controls.

10 CFR 20.1703 Use of individual respiratory protection equipment.

- If the licensee assigns or permits the use of respiratory protection equipment ... (a) The licensee shall use only respiratory protection equipment that is tested and certified by the National Institute for Occupational Safety and Health (NIOSH) ...



Air Sampling and Workplace Monitoring

RWCU Work Platform

Work Zone Air Sample to assess the effectiveness of the engineering controls in use (Glove Bags, HEPA Units, Containments, etc.) IAW 10CFR 20.1701 'Use of Process or Other Engineering Controls'; and 10 CFR 20.1702 'Use of Other Controls' (Control of Access, Use of Respiratory Protection Equipment, etc.)



Personal Air Sample (Lapel Air Sample) / Dosimeter on the worker to assess Breathing Zone Airborne Concentrations IAW 10CFR 20.1204 'Determination of Internal Exposure'

General Area Air Sample to demonstrate Compliance to 10 CFR 20.1902.d "Posting of Airborne Radioactivity Areas"

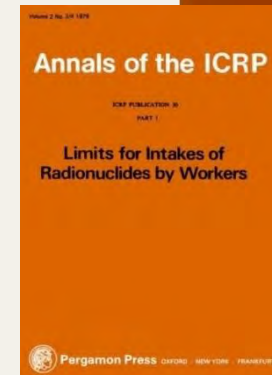
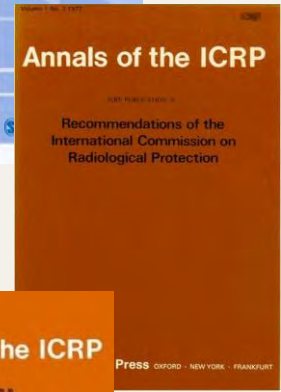
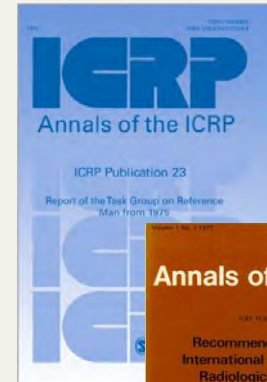
Alarming CAM (Continuous Air Monitor) to assess airborne radiological hazards for appurtenant people in the general area and are NOT directly involved in the airborne generating work activities. 10 CFR 20.1501.a 'Each Licensee shall make ... surveys ... that may be necessary to comply with the requirements of this part ...' 10 CFR 20.1702 'Use of Other Controls' (Control of Access, Use of Respiratory Protection Equipment, etc.)





Basis for Internal Dose Regulations

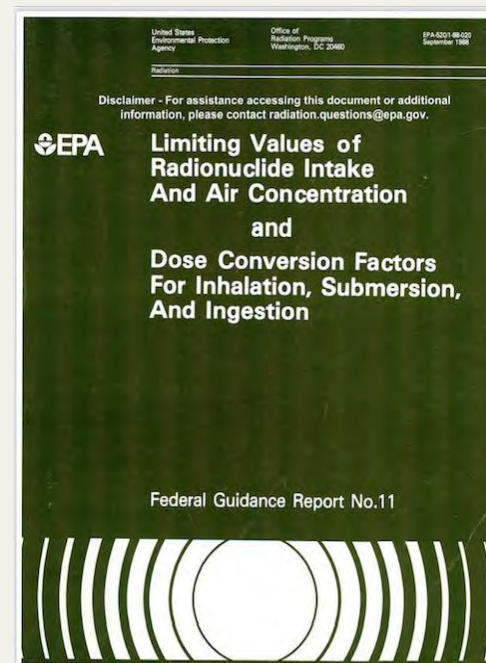
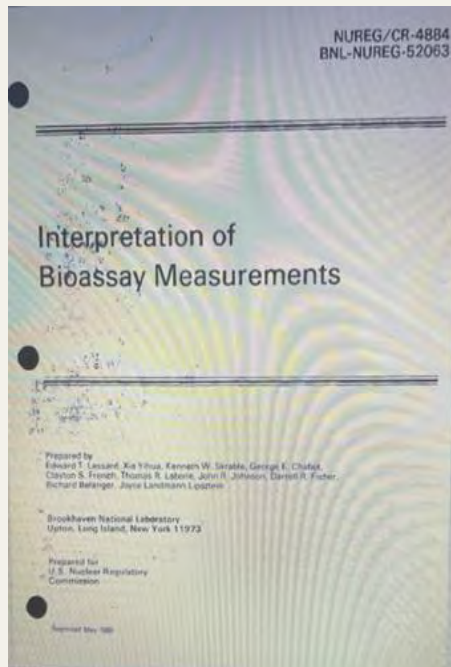
- Current NRC regulations based on ICRP recommendations from the 1970's.
 - ICRP 23, Reference Man – 1975.
 - ICRP 26, Recommendations of the International Commission of Radiological Protection – 1977.
 - ICRP 30, Limits for Intakes of Radionuclides by Workers – 1979 to 1982.
- Limits based on intake vs. body burden.





Determining Models

- **NRC Endorsed**
 - Use ICRP 30 models for initial and low dose assignments.
 - NUREG 4884 for Intake Retention Fraction (IRF) values.
 - Federal Guidance Report (FGR) 11 or 10CFR20 for Dose Conversion Factors (DCFs).





Managing Risk

- Place information where the user has ready access
 - Industry OPEX – Perry SRM
 - Integrate radiological and industrial safety risk into a comprehensive safety plan. (Sometimes the ALARA Plan).
 - Heat Stress, Water Access, Protective Clothing Reduction, Climbing / Fall Hazards, Oil / Slip Hazards, etc.
- What is a “Good” ALARA Plan
 - Vet with Fleet, Industry, and INPO
 - ANO RCP Oil Add and Initial Drywell Entry
 - U2 Initial Containment Survey
 - Oil Add for 2P-32C Documents



Observed Gaps in RP Program Management

Integrated risk management (industrial safety, radiological safety, nuclear safety, and enterprise risk)

- Understanding the site administrative processes for integrated risk management and mitigation.
- Impact of ALARA planning on the work control milestones that ensure effective outage / project planning.
- On Schedule is the safest place to be.



Integrated risk management (industrial safety, radiological safety, nuclear safety, and enterprise risk)

- Managing ALARA work sequencing and ALARA Plan implementation, and through the Station ALARA Committee and fleet challenge boards.
- Embedding Critical Radiation Safety Controls into Work Packages as ‘critical Steps’ with appropriate sign-offs.



Outage Readiness

- Socialize and Brief the Station and Corporate Senior Management Team and the OCC Staff weeks before the outage to ensure OCC / Senior Management Involvement
 - Contingency Plans / Radiological Controls (Briefings, Hold Points, Stop Work, etc.)
 - Full Transparency - No Surprises at 07:00 Phone Call
 - Post in the OCC
 - Develop Reference Books for OCC Use
- These are not RP department issues, they impact the entire site / enterprise



Manage the Chaos





Some Tips ...

- Stay in Role
- Drive for Results
 - Drive the processes... Its offense, not Defense.
 - Drive outcomes ... **Don't let events drive You.**
- Manage Stress
 - Avoid running to your 'Comfort Zone'.
- Maintain Context in Defining Success
 - Budgets pass, events are gifts that keep on giving.



Outage Readiness

- Embed at least 72 hours for Diving Preps:
 - Tritium Bioassay Preps
 - Multi-Badging Preps
 - Area Surveying
 - Area Vacuuming and Clean-Up
 - 10 CFR 20.1602 and Discrete Radioactive Particle (DRP) Barrier Construction
- At least 72 hours after the start of the outage, reevaluate exposure estimates using post shut down surveys (after crud burst cleanup lockout window complete for PWRs; after BRAC surveys for BWRs). Dose rates should be evaluated with the Station ALARA Committee.
 - If outage estimates increase because of elevated dose rates, contingency plans should be initiated. Additional recovery plans should be developed based on any unexpected conditions.



Managing Radiological Risk

- Ramp up = Ramp Down

- Plant Z at 02:00 Hours

- OCC wants to work on LSIVs w/ SGs Empty
- Work Package, RWP and the ALARA Plan were approved by the SVP and SAC So the Undo would also take SVP and SAC approval (at 02:00 Hours)
- Better decisions are made by an integrated group, rather than a select few.

- Remember the Regulatory Bases

- Plant A at 01:00 Hours – OCC wants to Enter Containment to Start Building scaffold to do ... SOMETHING....

- R.G 8.10 “Radiation Work Permit (RWP): An authorization by the licensee’s management to perform a specific procedure involving radiation exposure of personnel in a particular area. It contains detailed procedures for every aspect of the work to be done.”



Some Tricks to the Trade

- Write RWPs / ALARA Plans, and embed actionable items work controls in work packages. Focus on the audience.
- Use Operating Experience (Site, INPO, NRC)
 - This is a 50+ Year Old Industry. Not Much is New
- Parallelism in RWP Packages / Work Documents
 - Stop / Halt / Abort / Cease / Pause / End
 - Stop Work or Hold Point
- Need to charge radiation safety initiatives to major projects (EDs, cameras, remote monitoring, Exit Monitors, etc.)
- Work packages need to go cradle to grave
 - Cut Out and Replace Valve through Waste Disposal



Some Tricks to the Trade

- Run computer checks on:
 - % to ED Set Points on Dose and Dose Rate Alarms
 - Workers on wrong project tasks/RWPs.
- Monitor Chemistry Parameters Closely. Specifically changes in Source Term (Ag-101m, Moisture Carry Over, Failed Fuel, etc.)
- Spot surveys of incoming vendor equipment. (You don't want to buy what you don't have to...) Perfect for a CZT..
- Lots of work packages will be going in and out of the CA. Some have purchased a hefty copier to scan paper that can't make it out.
- Shrink wrapped in the past. Will we need to order shrink wrap?
- *Slings will often be going in and out. What is our release plans?*
- Script briefings
- Water available in the RCA when necessary
- Random Field checks of worker knowledge...
 - Managers at RCA Control Points



Observed Gaps in RP Program Management

The Reactor Oversight Process for Radiation Safety

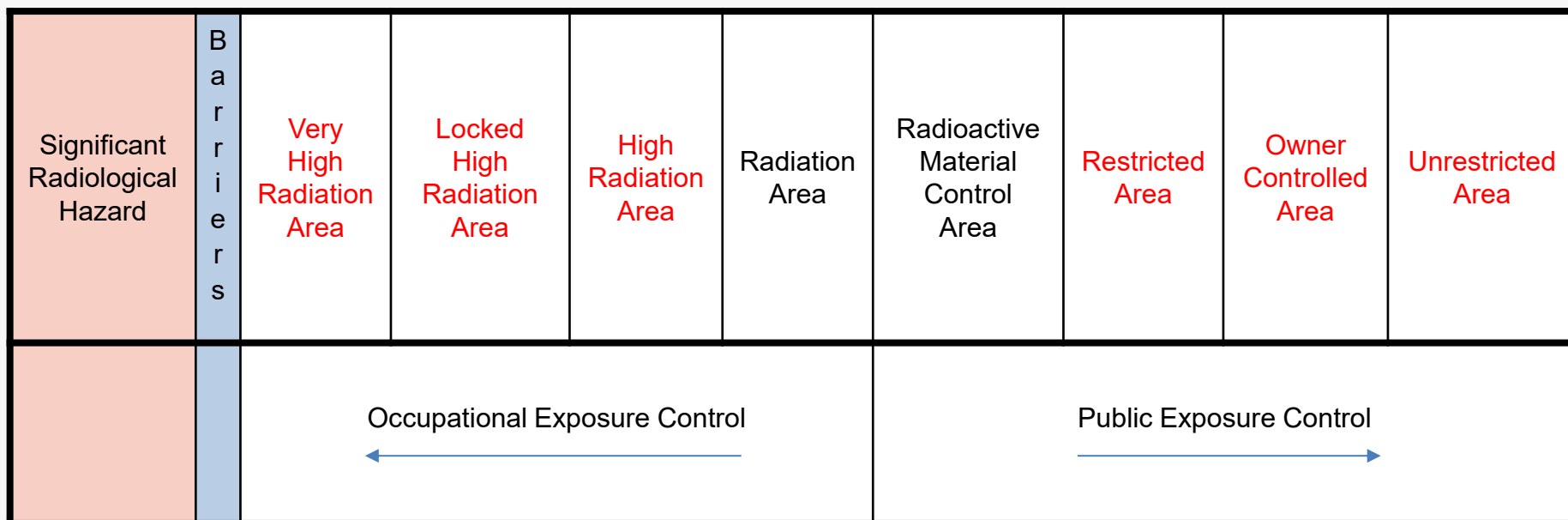
IMC 0612 Issue Screening.docx

Performance Deficiency (PD): *The licensee's failure to satisfy one or more regulatory requirements or self-imposed standards where such failure was reasonably foreseeable and preventable.*

Finding: *A performance deficiency that is determined to be More-than-Minor in accordance with IMC 0612, Appendix B "Issue Screening"*



Radiation Safety M/MTM Mental Model





NRC IMC 0612, App E “Examples of Minor Issues”

NRC Inspects the Licensee to their expected outcomes

- Changing a car tire in 20 minutes, verses NASCAR in Seconds.

A Performance Deficiency (PD) occurred in ALARA planning and/or job execution that resulted in the actual collective dose exceeding the planned (or adequately re-planned), intended dose for a work activity.

- MINOR IF:
 - The actual collective dose was ≤ 5 person-rem, OR the actual collective dose was greater than 5 rem but did not exceed the planned (or adequately re-planned), intended dose by more than 50 percent.



Managing Performance

- Dr. Morris Massey said we are basically who we were when we were eight years old except for one exception, a **significant emotional event (SEE)**.
 - Individuals who experience a significant emotional event, at any age, may change their foundational belief or value system.
 - In other words, it is possible for a deeply significant, emotional event to change what we believe and how we act.



Safety First!

- Personnel injuries are life changing events
- Time lost to an accident will outweigh time lost to schedule delays.
- *On schedule is the safest place to be.*
 - Schedule is laterally, horizontally, and cross-disciplined reviewed.
 - Schedule is risk-informed, vetted, resource loaded, and logic-tied.



Safety First!

- Manage the behaviors, not the outcomes.
 - Dropped Object Issues.
- Develop Forcing Functions to drive Peer-to-Peer Coaching.
- Accountability is NOT Discipline



Observed Gaps in RP Program Management

Public Radiation Safety Cornerstone

- Regulatory Bases of the Effluent and Environmental Monitoring Program
 - Generic Letter 89-01 Implementation of Programmatic and Procedural Controls for Radiological Effluent Technical Specifications
 - NUREG 1301 ODCM Guidance PWRs
 - NUREG 1302 ODCM Guidance BWRs
 - RETS (Sampling Requirements, Land Use Census, Environmental Dosimetry)
- Resulting in multiple Green and White Finding in Radiation Monitoring Instrumentation



10 CFR 20.1003 Definitions

- **Restricted area** means an area, access to which is limited by the licensee for the purpose of protecting individuals against undue risks from exposure to radiation and radioactive materials.
Restricted area does not include areas used as residential quarters, but separate rooms in a residential building may be set apart as a restricted area.
- **Site boundary** means that line beyond which the land or property is not owned, leased, or otherwise controlled by the licensee.
- **Unrestricted area** means an area, access to which is neither limited nor controlled by the licensee.



10 CFR 20.1003 Definitions

- **Monitoring** (radiation monitoring, radiation protection monitoring) means the measurement of radiation levels, concentrations, surface area concentrations or quantities of radioactive material and the use of the results of these measurements to evaluate potential exposures and doses

<https://www.nrc.gov/reading-rm/doc-collections/cfr/part020/part020-1>

[Palisades White Finding 2014010 Comp Ability to Assess Dose ML14336A624.pdf](#)



Public Radiation Safety Significance Determination Process

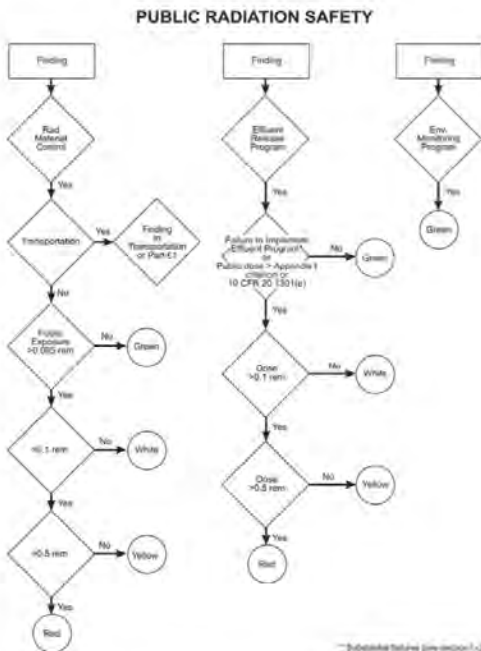
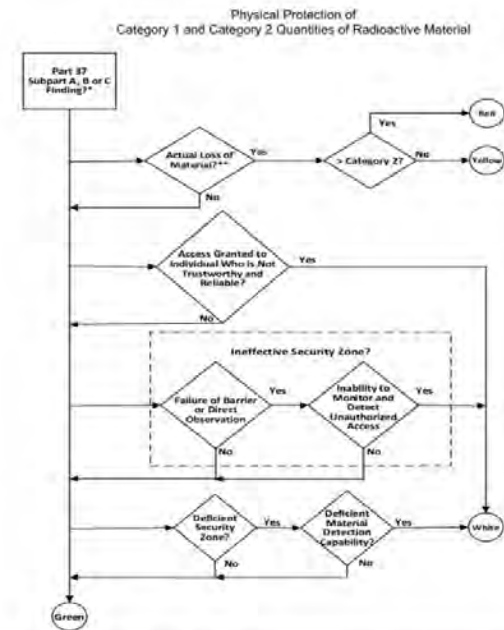


Figure 1 Rad. Material Control, Effluent Release Program and Environmental Monitoring Program SDP Flowchart



* Failures to respond or report per 10 CFR 37.49(f) or 10 CFR 37.51 shall be dispositioned using traditional Enforcement as violations that may impact the ability of the NRC to perform its regulatory oversight function.
** Consult with NRC Office of Investigations prior to dispositioning findings associated with actual cases of theft, diversion or sabotage of radioactive materials.

Figure 6 Part 37 Subpart A, B or C Finding SDP Flowchart



Key Radiation Safety OPEX

- Braidwood Tritium and the Impact on Industry
- Davis Besse Reactor Head
- Individual Escalated Enforcement Actions
- Perry (In-Core Detectors) ML11187A121
- Perry Rad Waste Resin Spill IR 05000440/2012005
 - Role and Responsibilities of the Plant Manager and the Radiation Protection Manager
- Dresden (Airborne)
 - [ML15117A595 Dresden Airborne Green Finding.pdf](#)
- Columbia IR 05000397/2021090 {Preliminary White Finding (OE 500760)}



Key Radiation Safety OPEX

OPEX Revisited

- Palisades EDEX IR05000255/2014010
- Palisades Spacers IR 05000255/2008011
- River Bend (Diving and 10 CFR 20.1602)...
 - [EA-97-192 - Calvert Cliffs 1 & 2 \(Baltimore Gas & Electric Company\) | NRC.gov](#)
- Robinson (Core Barrel – Belly Box)
- RP Instruments
 - Waterford-3 IR 05000382/2022501
 - Waterford-3 IR 05000382/2022090
 - Grand Gulf IR 05000416/2015001 and IR 05000416/2017012
Cited NOV CHRRM Repetitive NRC Issue.
- RAM Shipping
 - Vogtle ML15022A678 / ML 15258A572



Observed Gaps in RP Program Management

Foundational Technical Knowledge

- 1) Isotopic (MCA) Data Interpretations
 - WBCs, Effluent Release Permits, Internal Dose Assessments
- 2) Instrument Calibrations (Primary Cal Standards, Repeatable Geometries, NUREG 737 Instrument Requirements)



Health Physics Position Papers

- [Health Physics Positions Based On 10 CFR Part 20 | NRC.gov](#)
- HPPOS-238 “Health Physics Position on **Task Qualification of HP Technicians**
 - Health Physics Technicians (HPTs) *may independently perform specific tasks or job assignments if they meet the required prerequisites* and complete the required task qualifications of their plant training programs.
 - **There are certain tasks and job assignments, however, that require in-depth knowledge and can only be performed by fully qualified ANSI technicians.**



Health Physics Position Papers

- [Health Physics Positions Based On 10 CFR Part 20 | NRC.gov](#)
- HPPOS-238 “Health Physics Position on Task Qualification of HP Technicians
 - Each Institute of Nuclear Power Operations (INPO) accredited licensee training program will vary somewhat in its approach on qualifying its HPTs. However, each program should be based on a systems approach to training (SAT). The SAT should include the following key areas: how were criteria derived to select tasks to be done without supervision, and how are HPTs evaluated against these criteria to permit / authorize them to work unsupervised.

RPAC 2025W Presentation
HP Failed Fuel Experiences &
Lessons Learned



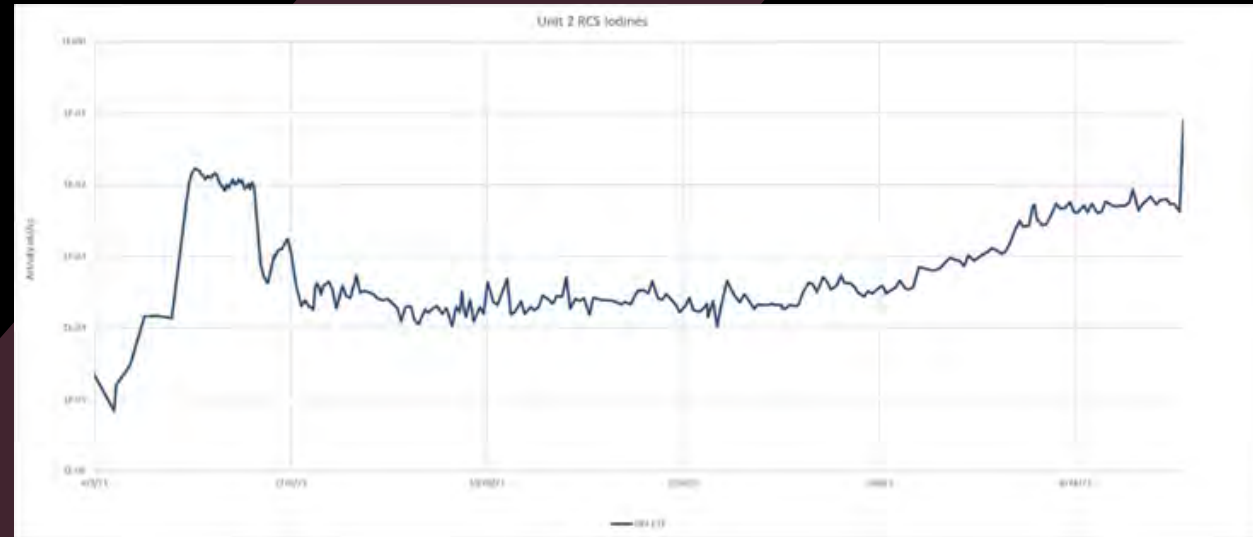


RP FAILED FUEL EXPERIENCES AND LESSONS LEARNED

Eric Hood – RP Supervisor (ALARA)
South Texas Project
eghood@stpegs.com



Failed Fuel – How it was found?





RP Online Response

Performed verification surveys in areas that could possibly be affected

- Chemical and Volume Control System
- Waste Processing
- Hot Chemistry Lab

There were also indications on Effluent Monitors and in the Reactor Containment Building.

A Continuous Air Monitor with Noble Gas monitoring was set up in the Hot Chemistry Lab.

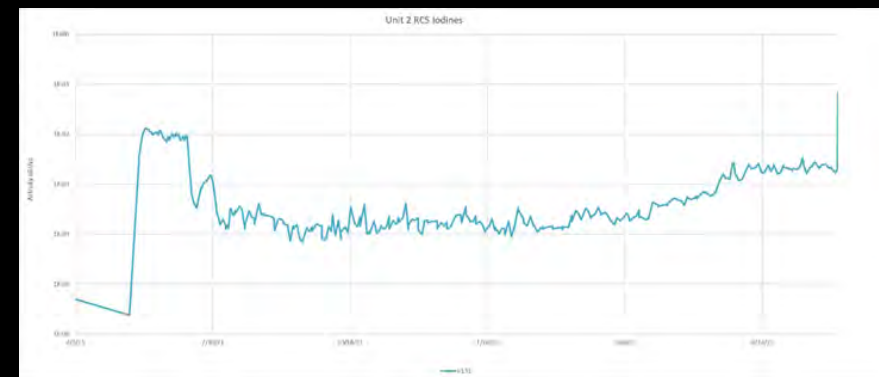
Operations understanding impacts is essential.

Started an RP Failed Fuel planning process.



Station Online Response

- Started a cross functional Failed Fuel Team led by Fuels Engineers.
- Gathered OE from other sites.
- Operations implemented:
 - More frequent RCB purges to reduce airborne activity.
 - Frequent waste gas processing to reduce RCS activity.





RP Failed Fuel Outage Preparation

- Established a RP centered team to develop mitigation plans.
 - Cross functional with RP, Chemistry, Operations, Outage, Refuel, and Training involvement.
 - Developed communications to inform RP and the Site in general on conditions.
 - Failed Fuel Refresher for RP Organization
 - Xenon gas basics
 - Site Fuel Defect Communication
 - Obtained OE and Guidelines (EPRI, INPO) for Failed Fuel.
 - Determine procedure change needs.
-



RP Failed Fuel Outage Preparation

- Established a RP centered team to develop mitigation plans. (Continued)
 - Developed detailed plans of action.
 - Tracking and Planning for Transuranics (Alpha), Iodine, Noble Gas
 - Ventilation contingencies
 - RCB Evacuation
 - Noble gas contamination events
 - Return to work criteria
 - Determine instrument/equipment needs.
 - Determine training needs.
-



FA PR77, Grid 10, Rod E4

THE FUEL DEFECT

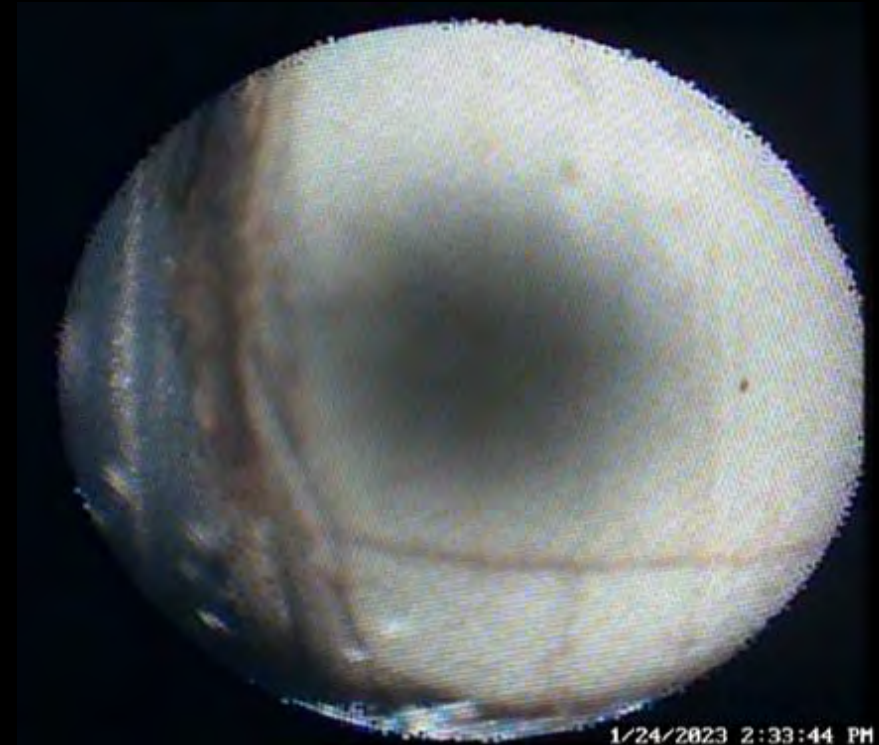
Multiple fuel defect levels.

STP never rose above the 2nd action level based on Iodine and Transuranic identification.



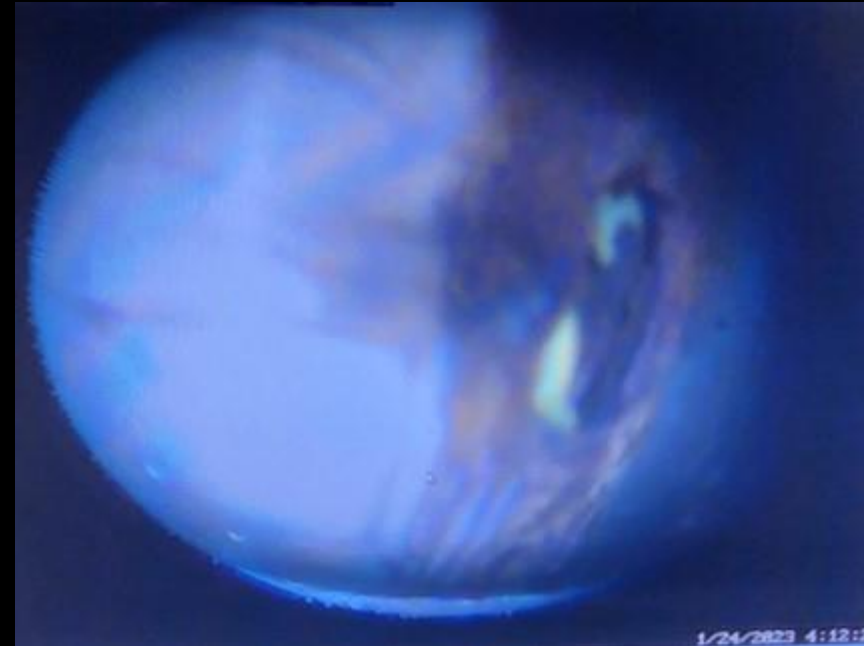
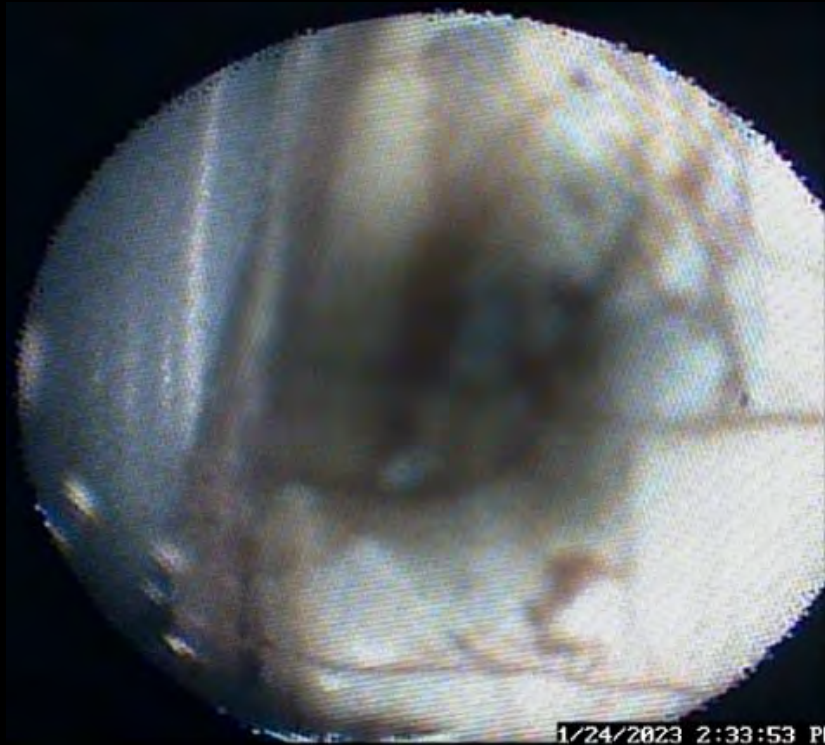


Fuel Defect – One Internal Rod





Fuel Defect – One Internal Rod





How Did It Go?

- 1st FF Outage was a 100% inspection S/G outage.
 - 2nd FF Outage had more than normal scope, but no additional RCS openings.
-



Contamination

- Due to the size of the defect STP barely detected any Transuranic – Only 1 Alpha Level 2 area found, which was then analyzed by GEL and Alpha Level 2 criteria was not met.
 - PCE's
 - Level 1 – 28 5
 - Level 2 – 4 0
 - Level 3 – 2 0
-



Dose

- 1st FF Outage: 64 Rem projected, 63.66 Rem actual.
 - 2nd FF Outage: 41 Rem projected, 41.63 Rem actual.
 - During the 1st FF Outage a large build up of highly contaminated trash was a problem:
 - More than 2 Rem to move the trash.
 - 2 Dose alarms to Decon personnel.
-



Airborne – Noble Gas

- 1st FF Outage
 - Initial air sample during PZR venting indicated 99 DAC prior to count finishing.
 - CTMT evacuated, but work started again quickly.
 - Backlog of workers with Noble Gas contamination resulting in WBC.
 - Noble Gas contamination was an issue with all major breaches.
 - 2nd FF Outage
 - No sustained Noble Gas airborne
 - Ventilation to move the gas was set closer of system breach points to move the gas to RCB purge.
 - Coordinated with Outage Management and Operations to capitalize on system conditions.
-



Airborne - Iodine

- 1st FF Outage
 - HEPA with Charcoal set up at all major vent points, so it was nuisance over actual concern.
 - Night shift encountered Iodine transients not seen on Days. This led to Posting issues.
 - 2nd FF Outage
 - HEPA with Charcoal set up at all major vent points.
 - Use of Normal Purge and good communication led to no Iodine nuisance issues.
-



Lessons Learned

- OE suggested that Normal Purge could not be used prior to the 1st FF Outage. This is Site specific and Normal Purge was the most effective control for Airborne. During the 2nd FF Outage Normal Purge was on constantly.
 - Pre-Planning process identified many issues that were able to be dealt with. However, it can over complicate things. The 2nd planning process eliminated extraneous issues, kept it to RP actions only.
 - Operations control of water is essential. Increased ventilation led to condensation Ops was not ready to deal with. Operations was better able to control water.
 - Minimize personnel in CTMT during major system breaches.
-



ANY QUESTIONS?

Email – eghood@stpegs.com

RP ALARA Conference
Meeting Critiques





fm

RJP
ALC
N
o

Optional
Name: <u>FELIX MARTINEZ</u>
Utility: <u>DCPF</u>

Winter 2025 *** Key West, FL *** Jan 28-30, 2025

MEETING CRITIQUE *om*

The goal is to meet your expectations regarding this meeting. Please help us by providing your comments and suggestions regarding the following:

9c Plant Status Reports (winter meeting only): NOT PERFORMED

Technical Content: VERY GOOD PRESENTATIONS & INFORMATION

Vendor Participation: VENDOR PARTICIPATION WAS GREAT

Meeting Format (Breakout Session vs. Presentation, etc.): MEETING FORMAT WAS GREAT. CONSIDER POSSIBLY REMOVING VENDOR PRESENTATIONS FOR ADDITIONAL TIME WITH VENDORS

Facilities (Meeting Room, Hotel Facilities, Location, etc.): FACILITIES WERE VERY GOOD.

Please list any topics you would like to see the Board address in the future. Also include specific recommendations relative to the suggested presentation format, where possible (e.g., breakout sessions, technology presentation, survey, etc.): WORK EFFICIENCIES

Please provide suggestions for Board activities or actions which would help justify your company's continued participation in the RP-ALARA Association: CONSIDER REMOVING VENDOR PRESENTATIONS. MAKE VENDOR PRESENTATIONS AVAILABLE PRE-CONFERENCE

Other Comments: NONE

Do you anticipate your plant being represented by you or another representative at the Summer 2025 Meeting in Myrtle Beach, SC? Yes If not, why? NO COMMENT



Optional

Name: ERIC MENEZES

Utility: PALM VERDE

Winter 2025 *** Key West, FL *** Jan 28-30, 2025

MEETING CRITIQUE *DM*

The goal is to meet your expectations regarding this meeting. Please help us by providing your comments and suggestions regarding the following:

QC Plant Status Reports (winter meeting only): _____

Technical Content: Presentations were knowledgeable and well put together. Like to include more historical projects as plants start doing their relicensing & extended inspections

Vendor Participation: Lot of Great Products

Meeting Format (Breakout Session vs. Presentation, etc.): Breakouts possibly being filled out prior to coming focus on discussion & details.

Facilities (Meeting Room, Hotel Facilities, Location, etc.): Excellent

Please list any topics you would like to see the Board address in the future. Also include specific recommendations relative to the suggested presentation format, where possible (e.g., breakout sessions, technology presentation, survey, etc.):

Include 1 Industry Best Presentation
1 Current Challenge
1 Historical Challenge (Possible Resurfacing)

Please provide suggestions for Board activities or actions which would help justify your company's continued participation in the RP-ALARA Association: N/A

Other Comments: _____

Do you anticipate your plant being represented by you or another representative at the Summer 2025 Meeting in Myrtle Beach, SC? Yes If not, why?



FM

ALG

R5B
[Handwritten signature]

Optional

Name: Jordan Bristow

Utility: Dominion - Surry

Winter 2025 *** Key West, FL *** Jan 28-30, 2025

MEETING CRITIQUE *DM*

The goal is to meet your expectations regarding this meeting. Please help us by providing your comments and suggestions regarding the following:

al **Plant Status Reports (winter meeting only):** _____

Technical Content: enjoyed the failed fuel discussions, maybe a poll of upcoming projects and someone could present their past lessons learned.

Vendor Participation: lots of vendors and enjoyed their brief overviews

Meeting Format (Breakout Session vs. Presentation, etc.): might be useful to have mixed plant style breakouts as well to discuss genetic issues.

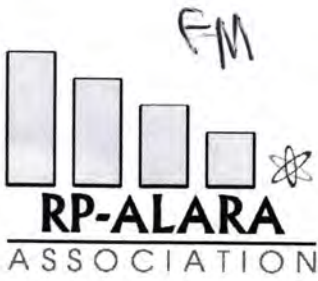
Facilities (Meeting Room, Hotel Facilities, Location, etc.): Everything was great. Enjoyed the setup of conference rooms.

Please list any topics you would like to see the Board address in the future. Also include specific recommendations relative to the suggested presentation format, where possible (e.g., breakout sessions, technology presentation, survey, etc.): Power BI / Tabul

Please provide suggestions for Board activities or actions which would help justify your company's continued participation in the RP-ALARA Association: see this is viewed as a great tool by our station to meet other sites and develop relationships to share information.

Other Comments: _____

Do you anticipate your plant being represented by you or another representative at the Summer 2025 Meeting in Myrtle Beach, SC? yes If not, why?



ALG
ROB

Optional

Name: Chasity Stephy
 Utility: Braidwood Consulting

Winter 2025 *** Key West, FL *** Jan 28-30, 2025

MEETING CRITIQUE

The goal is to meet your expectations regarding this meeting. Please help us by providing your comments and suggestions regarding the following:

Plant Status Reports (winter meeting only): _____

Technical Content: _____

Vendor Participation: Sometimes hard to find vendors. My last signature representative was on the beach and not at their booth.

Meeting Format (Breakout Session vs. Presentation, etc.): When putting participants, it would be great to add position titles.

Facilities (Meeting Room, Hotel Facilities, Location, etc.): All facilities were great.

Please list any topics you would like to see the Board address in the future. Also include specific recommendations relative to the suggested presentation format, where possible (e.g., breakout sessions, technology presentation, survey, etc.): _____

Please provide suggestions for Board activities or actions which would help justify your company's continued participation in the RP-ALARA Association: _____

Other Comments: _____

Do you anticipate your plant being represented by you or another representative at the Summer 2025 Meeting in Myrtle Beach, SC? yes If not, why? _____



FM
ALG
RSP

Optional

Name: TJ Cook

Utility: TVA Watts Bar

Winter 2025 *** Key West, FL *** Jan 28-30, 2025

MEETING CRITIQUE *DM*

The goal is to meet your expectations regarding this meeting. Please help us by providing your comments and suggestions regarding the following:

Plant Status Reports (winter meeting only): _____

Technical Content: Very Beneficial, hearing from a variety of different style plants

Vendor Participation: Very friendly vendors, nice displays, good suggestion on how they can help, did not try to compete against other vendors. very respectful + professional

Meeting Format (Breakout Session vs. Presentation, etc.): enjoyed breakout sessions open discussion, then open forum on other groups
enjoyed quick vendor presentation

Facilities (Meeting Room, Hotel Facilities, Location, etc.): excellent meeting room + Vendor Room. Hotel nice, + friendly

Please list any topics you would like to see the Board address in the future. Also include specific recommendations relative to the suggested presentation format, where possible (e.g., breakout sessions, technology presentation, survey, etc.): _____

Please provide suggestions for Board activities or actions which would help justify your company's continued participation in the RP-ALARA Association: _____

Other Comments: _____

Do you anticipate your plant being represented by you or another representative at the Summer 2025 Meeting in Myrtle Beach, SC? yes If not, why?



ALG

RSP
a

Optional

Name: Iman AlHosani

Utility: _____

Winter 2025 *** Key West, FL *** Jan 28-30, 2025

MEETING CRITIQUE *DM*

The goal is to meet your expectations regarding this meeting. Please help us by providing your comments and suggestions regarding the following:

AL Plant Status Reports (winter meeting only): _____

Technical Content: RSCS Dude was great - fail fuel presentation As well

Vendor Participation: Great

Meeting Format (Breakout Session vs. Presentation, etc.): _____

Facilities (Meeting Room, Hotel Facilities, Location, etc.): facilities are subpar. location is hard to travel to

Please list any topics you would like to see the Board address in the future. Also include specific recommendations relative to the suggested presentation format, where possible (e.g., breakout sessions, technology presentation, survey, etc.):

Technology
Automizing Dose

Please provide suggestions for Board activities or actions which would help justify your company's continued participation in the RP-ALARA Association: _____

Other Comments: _____

Do you anticipate your plant being represented by you or another representative at the Summer 2025 Meeting in Myrtle Beach, SC? _____ If not, why?

No but we plan on coming yearly for winter. we just live far away & 3 outages a year



RM
ALG
RBS
a

Optional

Name: Ryan Brown

Utility: Vistra

Winter 2025 *** Key West, FL *** Jan 28-30, 2025

MEETING CRITIQUE *DM*

The goal is to meet your expectations regarding this meeting. Please help us by providing your comments and suggestions regarding the following:

of Plant Status Reports (winter meeting only): _____

Technical Content: would have liked to see Marty's presentation be a little more focused + less broad

Vendor Participation: 10/10 - Great variety and great turnout

Meeting Format (Breakout Session vs. Presentation, etc.): Recommend round tables in quieter time slot, maybe part of breakfasts

Facilities (Meeting Room, Hotel Facilities, Location, etc.): 10/10

Please list any topics you would like to see the Board address in the future. Also include specific recommendations relative to the suggested presentation format, where possible (e.g., breakout sessions, technology presentation, survey, etc.):
Compare & contrast of RWP's, ALARA plans, etc if we ever fail to come up with presentation?

Please provide suggestions for Board activities or actions which would help justify your company's continued participation in the RP-ALARA Association:
N/A

Other Comments: Liked that we were routinely ahead of schedule and thus got more vendor time

Do you anticipate your plant being represented by you or another representative at the Summer 2025 Meeting in Myrtle Beach, SC? Yes If not, why?



ALG
AM
Q
RSP

Optional

Name: Robin Miller ☺

Utility: LGS

Winter 2025 *** Key West, FL *** Jan 28-30, 2025

MEETING CRITIQUE *DM*

The goal is to meet your expectations regarding this meeting. Please help us by providing your comments and suggestions regarding the following:

9 (Plant Status Reports (winter meeting only): _____

Technical Content: Good

Vendor Participation: Very good

Meeting Format (Breakout Session vs. Presentation, etc.): Instead of vendor presentations more meeting time - one on one

Facilities (Meeting Room, Hotel Facilities, Location, etc.): Good

Please list any topics you would like to see the Board address in the future. Also include specific recommendations relative to the suggested presentation format, where possible (e.g., breakout sessions, technology presentation, survey, etc.): MCO - COCo effects (needs more data)

Please provide suggestions for Board activities or actions which would help justify your company's continued participation in the RP-ALARA Association: _____

Other Comments: _____

Do you anticipate your plant being represented by you or another representative at the Summer 2025 Meeting in Myrtle Beach, SC? Yes If not, why?



RSB ARG
Pm
j
R

Optional

Name: Joe CAMPANELLA

Utility: Southern Nuclear

Winter 2025 *** Key West, FL *** Jan 28-30, 2025

MEETING CRITIQUE *om*

The goal is to meet your expectations regarding this meeting. Please help us by providing your comments and suggestions regarding the following:

9c Plant Status Reports (winter meeting only): _____

Technical Content: _____

Vendor Participation: Great vendor Participation. Great IDEAS to bring back to PLANT

Meeting Format (Breakout Session vs. Presentation, etc.): Received great information from Breakout Sessions. will have good information to benchmark PLANTS.

Facilities (Meeting Room, Hotel Facilities, Location, etc.): Room was small for Price.

Please list any topics you would like to see the Board address in the future. Also include specific recommendations relative to the suggested presentation format, where possible (e.g., breakout sessions, technology presentation, survey, etc.): _____

Please provide suggestions for Board activities or actions which would help justify your company's continued participation in the RP-ALARA Association: _____

Other Comments: _____

Do you anticipate your plant being represented by you or another representative at the Summer 2025 Meeting in Myrtle Beach, SC? yes If not, why?

