

Summer 2024 Conference

### **Member Documents**





#### Summer 2024 Conference

#### A. RPAC 2024 Summer Attendees

Station	Company	Station Rep	Email
Duoiduus ad	Constellation	Jeffrey Chase	jeffrey.chase@constellation.com
Braidwood	Constellation	Joe Coughlin	joseph.coughlin@constellation.com
Dimon	Constellation	Jacob Burton	iacob.burton@constellation.com
Byron	Constellation	Scott Leach	scott.leach@constellation.com
Calvert Cliffs	Constellation	Roy Lopez	Rouell.Lopez@constellation.com
Clinton	Constellation	Frank Owens	Frank.owens@constellation.com
Corporate	Constellation	Kevin Crymes	kevin.crymes@constellation.com
David Besse	Energy Harbor	Ryan Brown	Ryguy2007@yahoo.com
Diablo Canyon	PG&E	Felix Martinez	felix.martinez@pge.com
LaSalle	Constellation	Angela Bristol-Johnson	angela.bristol@constellation.com
Limerick	Constellation	Randy Weyer	randy.weyer@constellation.com
Limerick	Constellation	Robin Miller	robin.miller@constellation.com
Palo Verde	APS	Eilert Meyers	eilert.meyers@aps.com
Point Beach	Next Era Energy	Ryan Meagher	rmeagher97@gmail.com
Prairie Island	EXCEL Energy	Dave Martin	david.martin@xenuclear.com
Quad Cities	Constellation	Darcy Hamilton	darcyjo.hamilton@constellation.com
Seabrook	Next Era Energy	Robert York	robert.york@nexteraenergy.com
Sequoyah	TVA	John Hertz	jjhertz@tva.gov
Services	Framatome	David Howard	david.howard@framatome.com
STP	STPNOC	Eric Hood	eghood@stpegs.com
317	STPNOC	Jonah Morgan	jbmorgan@stpegs.com
Vogtle	Southern Company	Michael Beyer	mfbeyer@southernco.com
Watts Bar	TVA	TJ Cook	tjcook@tva.gov
Wolf Creek	WCNOC	Bob French	bob.french@evergy.com



### Summer 2024 Conference

#### **B. RPAC 2024 Summer Vendors**

Vendor	Link
Alaron Nuclear Services	ALARON Nuclear Services
American Ceramic Tech	American-ceramic
AVANTech	Avantechllc.com/
Curtiss-Wright	Curtisswright.com/
Day & Zimmerman	Day & Zimmerman
Dominion Eng Inc	Dominion Engineering
Eastern Tech/Orex	Eastern Technologies-Orex
Frham Safety Products	FRHAM Safety
Framatome	<u>Framatome</u>
Gamma Reality	Gamma Reality
Gentex Corp - Pure Flo	Genetex Corp
Innovative Ind Solutions	<u>IIS Net</u>
Master-Lee Decon	Master Lee
Mirion Tech	Mirion
NPO	Nuclear Power Outfitters
Radeco	Radeco Inc
Radiation Protection Systems	Radpro Systems
Radiation Safety & Control Services	Rad Safety
Thermo Fisher	<u>Thermo Fisher</u>
Ultra Energy	<u>Ultra Energy</u>
UniTech Services Group	<u>UniTech</u>
Westinghouse	Westinghouse Nuclear

#### C. High Interest Topics by Station

- 1. Braidwood 4LW
- 2. Calvert Cliffs CE
- 3. Davis Besse B&W
- 4. LaSalle BWR
- 5. Point Beach 2LW
- 6. Sequoyah ICE
- 7. South Texas Project 4LW
- 8. Vogtle 4LW

#### **D.** Breakout Sessions

- 1. ICE, B&W, Framatome
- 2. Westinghouse 2L
- 3. Westinghouse 4L, Group A
- 4. Westinghouse 4L, Group B
- 5. Boiling Water Reactors



Summer 2024 Conference

#### **E.** Presentations

- 1. RP Resource Allocation
- 2. Clevis Bolt Replacement Project
- 3. ISI 10YR RV Inspection

#### F. Meeting Critiques

1. Critique package

# High Interest Topics Stations



- Braidwood 4LW
- Calvert Cliffs CE
- Davis Besse B&W
- DCPP 4LW
- LaSalle BWR
- Point Beach 2LW
- Sequoyah ICE
- STP 4LW
- Vogtle 4LW

# High Interest Topics Braidwood - 4LW



1. Please list 2023 online and outage dose by unit.



Name: Joe Cough / 1.	Plant	NSSS	Comments
Joe Coughlis	Braidwood	4LW	ON I'ME AZRZZ UI - 0-992 NREM 48.282 Re UZ. 1962 MREM 48.282 Re
Scott Leach	Byron	4LW	U-2 1,07 Rem BIRZY 27.744 Ram
Ry Lapra	Calvert Cliffs	CE	I submitted the Calverts Plant Status to John. I will Empil Heda
	Clinton	BWR	
Ryan Brown	Davis-Besse	B&W	Online 3.1 Rem Outage 35. 2 Rem
MARTINEZ	Diablo Canyon	4LW	ONLINE OUTROE U1 3.062R U1:38R U2 2.0R U2:14R
onge Bristol-Johnson	LaSalle	BWR	LZRIB 611.268 (ED actor) LIRZO 136918
Bandy Weyer	Limerick	BWR	(e1-17.77 R (QR) Cost Retural 158.55 R (ED) 42-20.134 (OLR Last Retural 88.94 RC
MEYERS	Palo Verde	CE	SPRING OUTAGE: 22.519 FALL OUTAGE: 21.48
Zyan Meagher	Point Beach	2LW	U12.852 CREDATO, 1et U1R41 42 Rem MEKROWIF YOU U23.623 WARTSCHAPT U2R39 50.485 REM
9	Prairie Island	2LW	22364,756 Ram 5:073 Ren only
	Quad Cities	BWR	
Michael Smith	Seabrook	4LW	41-2.68 REM
John Hertz	Sequoyah	ICE	don't have access to data right now. UIR26-81.808 REM UI- U2R25-36.9 REM U2-
EricHood	STP	4LW	Iwillemail
			WILL EMAIL.

2024 Summer RP-ALARA CONFERENCE

	Watts Bar	ICE	
French	Wolf Creek	4LW	on line 2126 mRem. ISFSI 761,

Lasalle DLR Actual LIRZO - TBD Prosected@ 130,129 rem LZR19 DLR actual 530,503 rem

# High Interest Topics Calvert Cliffs - CE



- 1. Posting areas in CTMT for outages. Does your plant have specific posting plans? Entry into bioshield areas. How does your group control the plant when making decisions to be behind the bio wall? What power level does your plant allow entry behind the bio wall?
- 2. Entry into the bioshield areas. How does your group control the plan when making decisions to go behind the bio wall. What power level does your plant allow entry into?
- 3. HRA/LHRA briefs. Does your group perform these briefs ahead of time or time of execution?



Topic: Posting.	Areas in	CIVAT	for outseer
Dos your Plai	it have 5	pecfec T	Posting Pikns
Name: Roy Cop &		Contact I	
Contact (Name)	Plant	NSSS	Comments
Jee Coug Ulin	Braidwood	4LW	Yes we do
Scott Ceach	Byron	4LW	Ves, Implemented of mode 5
	Calvert Cliffs	CE	
	Clinton	BWR	
Ryan Brown	Davis-Besse	B&W	Yes. Can send example if desired
FELLX MARTINES	Diablo Canyon	4LW	YES. WE HAVE DETAILED PLANS FOR SURVEY POSTIALS GUIDELINES.
	LaSalle	BWR	
Radylege	Limerick	BWR	NA
FILLET MEVERS	Palo Verde	CE	Yes Postings Plan Per Mode Change
RyanMeagher	Point Beach	2LW	yes, I have a Picture Book modeforeach unit
	Prairie Island	2LW	
Darcy Hamilton	Quad Cities	BWR	n
Michael Sail	Seabrook	4LW	Ves. We go with broad HRA posting to reduce HRA boundary problems
John Hertz	Sequoyah	ICE	Yes. We go with broad HRA posting to reduce HRA soundary problems
EricHood	STP	4LW	Yes
Mile Beyer	Vogtle	4LW	405

TO COOK	Watts Bar	ICE	Hes we put them in our outage book
To GOK French	Wolf Creek	4LW	Yes. Down Post, Hzoz, Ovtage, A

2024 Summer RP-ALARA CONFERENCE



How does you	In duon b cou	to the	Plant when making decisions togo behind- s Your Plant allow Entry into
Name: Ray Lob	of tower he	Contact I	nfo: reveil. Lope @ constellation, com
Contact (Name)	Plant	NSSS	Comments
Joe Coughli	Braidwood	4LW	Havent in a while. Would push to go to 30% but sucssing would
Joe Cough /10	Byron	4LW	Don't do often, but (ast entry whis at 100%
	Calvert Cliffs	CE	
	Clinton	BWR	
Egen Brown	Davis-Besse	B&W	"Don't allow" in recent years. But it has been excluded w/ limited survey doto . Recommens in
FELIX MARTINEZ	Diablo Canyon	4LW	LAST ENTRY @ POWER (100%) WAS FOR AN RCP OIL HIGH ALARM. ENTRY @ FOWER REQUIRES SAC AND IS RISH
	LaSalle	BWR	THE STATE OF THE PARTY OF THE P
Randyllege	Limerick	BWR	NA
EXIERT MEVERS	Palo Verde	CE	Entered May of 2024 @ 100% Forver War RP M & Plant Manager Approva
Ryan Meagher	Point Beach	2LW	Recently, we've Stayed aflood fower, 5 Rem is our decision point for downfowering. I have a spreadshet to show the effects of Downpowering, on dose, if you'd like
	Prairie Island	2LW	good the
	Quad Cities	BWR	
dichael Smit	Seabrook	4LW	We don't allow but it would require RPM & Shiff Manager Approval
John/fertz	Sequoyah	ICE	We don't do it, but procedurally we
inc Hood	STP	4LW	Procedure driven lower Rx Power  C1370 per procedu
lille Beyor	Vogtle	4LW	Vont Allow. The Whot for investigation and gers Need Le lower privar.



Topic: HIGH RAD	7 LOCKEO	MIGH X	brist the strip on the
DOES YOUT GTO	and headorn		brief attend of the or the of execution
Name: Roy copo		Contact I	nfo: rovell, toper @ constellation.com
Contact (Name)	Plant	NSSS	Comments
Joe Couphlin	Braidwood	4LW	Usually time of execution
Scott Leach	Byron	4LW	Time of execution
	Calvert Cliffs	CE	
	Clinton	BWR	
Ryan Brown	Davis-Besse	B&W	Time of execution, by our choice
FELLX MARTINES	Diablo Canyon	4LW	BRIEFINGS OF THE SCOPE. NORMALLY, HRRYLHRA BRIEFINGS OFT COME AT TIME OF EXECUTION.
	LaSalle	BWR	
Randribleye	Limerick	BWR	Time of execution with power evolution your (with owener, etc)
EXIERT MENERS	Palo Verde	CE	- RWA Brief Prior I - HRA/ CHRA Brief Time of Execution
Ryan Meagher	Point Beach	2LW	Usually time of Execution, for larger jobs that could now around in the schoole, Briefs are done deformand with Multiple Teams, Brief is good for One shift
	Prairie Island	2LW	
SarcyHamilton	Quad Cities	BWR	Time of execution.
Jarry Hamilton Nichael Smil	Seabrook	4LW	On briefs are sced for ove shirts as rouditions change we will do 4 plans critical path work is ahead of time.
John Hertz	Sequoyah	ICE	
Eric Hood	STP	4LW	Non-critical park is time of execution.  Critical path is ahead of time with quick, retresher brief at execution. All other all time of execution
nive Begar	Vogtle	4LW	Hormany Eime of execution. Could happen larlier in shift

B Cook	/ Watts Bar	ICE	HRIA theasof time
French French	Wolf Creek	4LW	HRA theasof time  LITHAT Time of execution  Both. Ourage HAA - Ahead  LHRA CO.

# **High Interest Topics David Besse - B&W**



- 1. How does your site budget online security dose? Is your forecast budget consistent with DLR reads?
- 2. For PWRs. If you still jump Steam Generators, what style of respiratory protection do you use?
- 3. Who hangs your outage shielding? Include specifics if possible.

2024 Summer RP-ALARA CONFERENCE



Topic: How does your site budget online security dose?

It your foreget budget consistent with DLR reads? 567-708-8700

Name: Ryan Brown @ vistracorp.

Name: Kyan Dri	σωτη	Contact I	nfo: Ryan. Brown @ vistrecorp. com
Contact (Name)	Plant	NSSS	Comments
Joe Coughler	Braidwood	4LW	No dose
Scott Ceach	Byron	4LW	Zero dose for security
Rylop	Calvert Cliffs	CE	Zers dose for Security Normally
	Clinton	BWR	
	Davis-Besse	B&W	
Facre MARTINO	Diablo Canyon	4LW	WE SUNCET SECURITY IN THE MOTHER ! CATEGORY SEARCH WITH FIRE PROT.
	LaSalle	BWR	
Bandy Weyer	Limerick	BWR	about 3mr aday
ETHERT MENERS	Palo Verde	CE	No Dose for security
Ryan Heagher	Point Beach	2LW	Budget of ~30 mk/year, No dose assigned doily, dose assigned based on non-routine work as it arises (new frelkeciept, etc.)
	Prairie Island	2LW	
Darry Hamile	Quad Cities	BWR	2-3 mg perday for security Rounds. Stays Pretty Consistent Over the Year
Michael Smit	Seabrook	4LW	Scientify dose isn't a concern for
John Hertz	Sequoyah	ICE	not a concern. 5-10 mrem/monts
lonel Morga	STP	4LW	Jonken for unit 1, all septes
MILLY BEIEVE	Vogtle	4LW	2-3 MR depending on colino or outage,

	Watts Bar	ICE	
French	Wolf Creek	4LW	yes. Yes. Reach out



respiratory	acatanthin	#1- 1/11/1/	Steam Generators, what style of
Name: Lyan Brow	100000000	Contact Ir	nfo: Ryan, Brown   @ vistra cosp. com
Contact (Name)	Plant	NSSS	Comments
Jue Coughlin	Braidwood	4LW	PAPR with belt pack
Scott Leach	Byron	4LW	PAPR w/ bett Pack
Troy Lopoz	Calvert Cliffs	CE	Papa's of belt Pak
/ /	Clinton	BWR	
Ryan Brown	Davis-Besse	B&W	PAPR'S w/ belt pack for filters
ELLY MARTINEZ	Diablo Canyon	4LW	PAPR WITH BECT PACK
	LaSalle	BWR	
	Limerick	BWR	NIA
ilat Meyers	Palo Verde	CE	We do to We Install FME Covers - No Entry
Ryan Meagher	Point Beach	2LW	PAPR W/Beltpack
Ince Mark	Prairie Island	2LW	Is outry No Entries
Sarcy Hamilton	Quad Cities	BWR	NIA
dichael Smith	Seabrook	4LW	We have a Zeno Entry Nozzle Da system (ZEND).
JOHN HERTZ	Sequoyah	ICE	Pareflo helmet PAPRS
and mark	STP	4LW	Bubble Hoods, Dir line connected to Instrument Dir
TIKE BEYER	Vogtle	4LW	Delta Suits,

2024 Summer RP-ALARA CONFERENCE

12 Cook	Watts Bar	ICE	we are Looking & max ATT for our fall outage had vender Bring Site to
	Wolf Creek	4LW	
		To the	

2024 Summer RP-ALARA CONFERENCE



Topic: Who harms your outage shielding? Include specifics if possible Ryan Brown 1@ vistracorp. com 567-708-8700 Contact Info: Name: Ryan Brown NSSS Lans working for RA Joe Coughlin Braidwood 4LW eaboters working for 8P Byron 4LW Calvert Cliffs CE Allies laboro work for GA/DAD Clinton **BWR** DZ decon personnel Ryan Brown Davis-Besse B&W FELLX MARTINEZ RPDECON IS RESPONSIBLE FOR HANDLING Diablo Canyon 4LW RD Seconded laborer & LaSalle **BWR** That hang shuldrug@ Every Station enga Bristol Allied laborers working 12 Pguidance Robin Miller Limerick **BWR** Eilert Mayers ALARA does qualified buy off Palo Verde Labor Force comes from Site Management & Engineers CE Latorers, Contract Decorners, RP Techo, anyone who is not Busy Point Beach 21W Ryan Maanher Prairie Island 2LW ABOVESS THERDELL Laborers working for RP, Alara Darcy Hamilta **Quad Cities BWR** individual Puns the Crew. Michael Smit Alana coordinates with help from Seabrook 4LW laborers e New NSO's to have led John Hertz Radcon Laborers Sequoyah ICE Decon Staff hays head with STP 4LW SLORD techs 45 POL MIKE BRIER DECON Vogtle 4LW

12 CeoK	Watts Bar	ICE	RP Laborers
French	Wolf Creek	4LW	4-Decor Each Phy 4-Decor is Reserred in
and the second	10 1-45 PA		71/al _ 1
	and the gradient and	1	to any to

# High Interest Topics Diablo Canyon - 4LW



- 1. Filtration. What PWRs utilize 0.05-micron letdown filters? Can any station prove any source term reduction from using: 0.1-micron filter, microporous resin, or zinc addition?
- 2. Radiation Shielding. What steps does your station take to make sure workers understand that they must contact RP prior to shielding removal?
- 3. Exposure Reporting Outage. What method and program does your station utilize for tracking and reporting outage exposure? How effective is it for your station? Can you share your report?
- 4. Exposure Reporting Online. DCPP utilizes an automated report for daily online exposure reporting. Does your station utilize a similar format? If not, could you please share your reporting?
- 5. TEDE ALARA justifications. How does your station perform TEDE ALARA justifications? How many times do you perform them? Can you share your procedures?
- 6. Has your station performed 10-YR ISI, Baffle Bolt, or BMI/CLEVIS Bolt connection inspections? Can you share documents?
- 7. ALARA Plans. Do your ALARA plans include special briefings about use of volatile compounds?
- 8. Robotics. Do you utilize the Spot robot for routine plant activities such as ISFSI pad inspections.
- 9. Exposure Reporting. Do your dose reports utilize color coding? Does your station take action based upon changes in that color coding? Is this effective for your station?
- 10. Fuel Defects. Has your station experienced a fuel defect? What means of detection did you use with respect to RP processes or chemistry analyses?
- 11. Remote Briefings. Does your station perform remote briefings where a work group calls RP for a briefing on Microsoft Teams? If so, is this effective for your station?
- 12. Work Scope Changes. What processes does your station have in place to report work scope changes to RP ALARA?
- 13. Electronic Dosimeter (ED) Setpoints. What industry guidance does your station utilize to set electronic dosimeter setpoints. Can you provide or identify this industry guidance?

2024 Summer RP-ALARA CONFERENCE



Topic: Filtration. What PWRs utilize 0.05-micron letdown filters. Can any station prove any source term reduction from using: 0.1-micron filter, macroporous resin, or zinc addition?

Name: Felix Martinez Contact Info: (DCPP) felix.martinez@pge.com

Contact (Name)	Plant	NSSS	Comments
Soc Coughlin	Braidwood	4LW	YES with zine addition
Scott Leach	Byron	4LW	0,05 micron online 0,1 outages,
	Calvert Cliffs	CE	
	Clinton	BWR	
	Davis-Besse	B&W	
	Diablo Canyon	4LW	
	LaSalle	BWR	
	Limerick	BWR	NA
Eilert Muzers	Palo Verde	CE	We only use 0.1 on lettown → We inject H202 no Zinc
	Point Beach	2LW	/ 0
Drue Mart	Prairie Island	2LW	PRCOIM Rusim/ Purificat
	Quad Cities	BWR	
	Seabrook	4LW	
John Hertz	Sequoyah	ICE	don't have good data
Eric Hood	STP	4LW	Yes - zinc addition

Topic: Filtration. What PWRs utilize 0.05-micron letdown filters. Can any station prove any source term reduction from using: 0.1-micron filter, macroporous resin, or zinc addition?

Contact Info: (DCPP) felix.martinez@pge.com Name: Felix Martinez

Contact (Name)	Plant	NSSS	Comments
MILLS BELLER	Vogtle	4LW	addition during Shitdown.
	Watts Bar	ICE	
	Wolf Creek	4LW	
	1		
	A	500	
mal Factory	14119	14	



Topic: Radiation Shielding. In DCPP's 2024 spring outage, a contractor directed personnel to remove shielding on the assumption that the shielding in place was not required. What steps does your station take to make sure workers understand that they must contact RP prior to shielding removal?

Name: Felix Martinez Contact Info: (DCPP) felix.martinez@pge.com

Contact (Name)	Plant	NSSS	Comments
Suc Coughhi	Braidwood	4LW	Each shield has a WORK PACKAGE
Scott Leach	Byron	4LW	Only APTS OF AP laborers can the move shielding. Directed by Shielding coordinate
	Calvert Cliffs	CE	All Shieldy In Tagged W/ Alara Shieldy Tage w/ Instaudions About
	Clinton	BWR	) 0
Ryan	Davis-Besse	B&W	Informational tog with "Po not remove" Verbiage hung on each package
	Diablo Canyon	4LW	
anger Bristo	LaSalle	BWR	Rad booker training, only Room Street Robrets Some Homes Shielding has Robrets Some Homes Shielding has Robrets Some Lagg/ Posting to prevent an
Robin Miller	Limerick	BWR	shielding 13 posted -7 wo's assigned to removed of shielding (only 1298 + inch workers)
Eilerl Neyers	Palo Verde	CE	individuals can remove shielding
Ryanteagher	Point Beach	2LW	Instructions in RWP, to not move shielding as well as bright Pink tagging on shielding to emphasize no Moving shielding
Dark	Prairie Island	2LW	Rapworler Horning PRP Brief of
Darcy Hamilton	Quad Cities	BWR	Shielding is only installed and Remova
Michael Saith	Seabrook	4LW	only RP can remove/install shelder
John Hertz	Sequoyah	ICE	It's part of RP brief not to adjust shielding
Eric Hood	STP	4LW	No specifiz measures. Workers know that only RP has that authority, it in our botoos

2024 Summer RP-ALARA CONFERENCE

Topic: Radiation Shielding. In DCPP's 2024 spring outage, a contractor directed personnel to remove shielding on the assumption that the shielding in place was not required. What steps does your station take to make sure workers understand that they must contact RP prior to shielding removal?

Name: Felix Martinez Contact Info: (DCPP) felix.martinez@pge.com

Contact (Name)	Plant	NSSS	Comments
MILE PRYFR	Vogtle	4LW	Jab briefing of individual
	Watts Bar	ICE	3,
	Wolf Creek	4LW	
		200	
X			
X			
4			
1-10-7.40			

2024 Summer RP-ALARA CONFERENCE



Topic: Exposure Reporting Outage. What method and program does your station utilize for tracking and reporting outage exposure? How effective is it for your station? Can you share your report?

Name: Felix Martinez Contact Info: (DCPP) felix.martinez@pge.com

Contact (Name)	Plant	NSSS	Comments
Sue Cough lin	Braidwood	4LW	Paily ookge report.
Scott Loch	Byron	4LW	Daily outag exposure laport
	Calvert Cliffs	CE	Daily outage Report / 1/20
	Clinton	BWR	
Lyan Brown	Davis-Besse	B&W	Delly exposure report. Published in shiftly OCC report. Will shore report
	Diablo Canyon	4LW	
	LaSalle	BWR	
Robin Mille	Limerick	BWR	Daily outage Report - mostly automated
Etter Neyers	Palo Verde	CE	Daily Municipal Enjoyet vin excel 13 Generating Automotive my Power B.
Ryan Meagher	Point Beach	2LW	MS Access Database, Not Very Effective - Working on a new Spreadsheet that you may like
DAVE MAYEN	Prairie Island	2LW	Some kyport as miles.
Darcy Hamilton	Quad Cities	BWR	outage exposure peport. Ituains well and easy to readlunderstand.
Michael Smith	Seabrook	4LW	Antomated system
John Hertz	Sequoyah	ICE	Excel. We are working on converting to Power BI
Eric Hood	STP	4LW	Somewhat automated. Moving towards new More automated system

Topic: Exposure Reporting Outage. What method and program does your station utilize for tracking and reporting outage exposure? How effective is it for your station? Can you share your report?

Name: Felix Martinez Contact Info: (DCPP) felix.martinez@pge.com

Contact (Name)	Plant	NSSS	Comments
Contact (Name)  Muse Boston	Vogtle	4LW	PE DAIL REPORK OR HISTOR REPORTS / Daily
	Watts Bar	ICE	, ,
	Wolf Creek	4LW	
*, 0 , m	7.75 W. E.	c c	
-4		C	The state of the s
_ = 7	Sta Brown	A. C.	Jan. May
	*		10.00
	HII.		

2024 Summer RP-ALARA CONFERENCE



Topic: Exposure Reporting Online. DCPP utilizes an automated report for daily online exposure reporting. Does your station utilize a similar format? If not, could you please share your reporting?

Name: Felix Martinez Contact Info: (DCPP) felix.martinez@pge.com

Contact (Name)	Plant	NSSS	Comments
Joe Coughlir	Braidwood	4LW	Astomated
Scott Leach	Byron	4LW	Automoted Report
	Calvert Cliffs	CE	Holf Adounte Holf Marvol General)
	Clinton	BWR	
Ryan Brown	Davis-Besse	B&W	Not submosted. HIS-20 report clata Manually enteral into dose report
	Diablo Canyon	4LW	
	LaSalle	BWR	
Randy Weyer	Limerick	BWR	NO Aut
Ellert	Palo Verde	CE	program w/ SENTENEL 2.0 and IT the
Ryan Meagher	Point Beach	2LW	MS Access DB, some manual input Required, I'd be happy to show you this t the Mexical shee
DMAK	Prairie Island	2LW	SAP/PG/Sentinal.
Darry Hamilton	Quad Cities	BWR	SAP/PG/Sewhnal, estimates must be input into pign automated Report-APOD in BPM
Michael Smith	Seabrook	4LW	we use an antomated daily report - information is saturally
John Hertz	Sequoyah	ICE YES	NA Excel ST. 61
Eric Hood	STP	4LW	Somewhat automatic. Moving towards a new more automated process

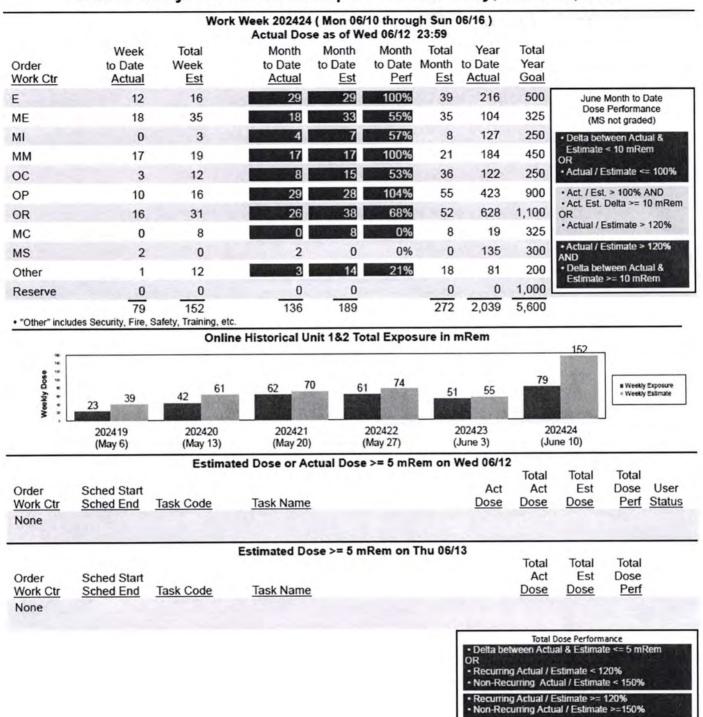
Topic: Exposure Reporting Online. DCPP utilizes an automated report for daily online exposure reporting. Does your station utilize a similar format? If not, could you please share your reporting?

Name: Felix Martinez		Contact Ir	nfo: (DCPP) felix.martinez@pge.com
Contact (Name)	Plant	NSSS	Comments
1144 3546-12	Vogtle	4LW	WE TO HAVE A DAILY DOSE PROS
TJ Cook	Watts Bar	ICE	HE DO HAVE A DAVY DOSE PROS Failed Fuel Issues (Procedures)
Parent havely	Wolf Creek	4LW	
-			
		-	
		3	
72 100 00 1	Section 2 14		
	Jan 7 75	RG.	- Wyh C
1			

Vostle cont. to shoot (DDPS) which is evented from the and
probleted daily by RP techs which is shared with site
\*\* Movins to Dose tracking By work order and pulling
information from Power B;

2024 Summer RP-ALARA CONFERENCE

#### Diablo Canyon POD Dose Report for Thursday, June 13, 2024



2024 Summer RP-ALARA CONFERENCE



Topic: TEDE ALARA Justification. How does your station perform TEDE ALARA Justifications? How many times do you perform them? Can you share your procedures?

Name: Felix Martinez Contact Info: (DCPP) felix.martinez@pge.com

Contact (Name)	Plant	NSSS	Comments
Soe Coughlist	Braidwood	4LW	And complete TEDE as required.
Scott Leach	Byron	4LW	Complete Risk Screening
Thy Lopes	Calvert Cliffs	CE	Risk Assessment of work dries to
, 0	Clinton	BWR	
Lyan Brown	Davis-Besse	B&W	Reach out & I can explain process Ryan. Brown le vistigeorp. com
	Diablo Canyon	4LW	
	LaSalle	BWR	
Robin Miller	Limerick	BWR	Procedure driven - 7 email me
Eilart Nagers	Palo Verde	CE	ALARA submits request: TEDA/ALARA Flo RP Engineering mules decision
Ryan Meagher	Point Beach	2LW	I can Share lexplain it further
Soul Mark	Prairie Island	2LW	Procedice Enail me.
barry Hamilton		BWR	Procedure, and Complete the Tede Ala
	Seabrook	4LW	
John Hertz	Sequoyah	ICE	procedure form is tedious so we have spreadsheet form to auto-calculate. Used any time resp. needs consideration
Eric Hood	STP	4LW	We screen and perform a limited evaluation. Looking to ingrove the process

2024 Summer RP-ALARA CONFERENCE

Topic: TEDE ALARA Justification. How does your station perform TEDE ALARA Justifications? How many times do you perform them? Can you share your procedures?

Name: Felix Martinez Contact Info: (DCPP) felix.martinez@pge.com

Contact (Name)	Plant	NSSS	Comments
MIKE BELVER	Vogtle	4LW	Actuaties AVE RISK. ASSESSED & TENSE ALARA PORFORMED AS ALEROL DURING PORFORMENCE OF
	Watts Bar	ICE	receive acritis parintinance.
1	Wolf Creek	4LW	
	T Miles		To the second se

2024 Summer RP-ALARA CONFERENCE



Topic: INSPECTIONS. HAS YOUR STATION PERFORMED 10-YR IST, BAFFLE BOLT, OR BMI/CLEVIS BECT CONNECTIONS? CAN YOU SHARE DECUMENTS? Name: GELIX MARTINEZ FELIX. MARTINEZ @ PGE. COM Contact Info: Contact (Name) NSSS Sex Nother I Know 64. Braidwood 41W Here done Core Barrel Injection yes Byron 4LW Scott Levels 10 YRISI No BOFFLE BOHS OF Calvert Cliffs CF Clevis, yet wite me, Clinton **BWR** 10 Year \$55 in 2022 Ryan Brown B&W Davis-Besse Can share forume AS Diablo Canyon 4LW LaSalle **BWR** NA Limerick **BWR** t tou Palo Verde CE yes, Email me Point Beach 2LW Empilare/DavalgaBare Prairie Island 2LW not that Imawane of **Quad Cities BWR** Dany Hamilton Not some about Clevis Bolts a Seabrook 4LW John Hertz Sequoyah ICE yes. con Berrell in 2017, no bellen Jones Maga STP 4LW VES. WHILL LOW FOR DOCS. MIKE BSIEZ 4LW Vogtle NOT SURE WHAT ALL INSPECTIONS

2024 Summer RP-ALARA CONFERENCE

				-
	Watts Bar	ICE		
French	Wolf Creek	4LW	RF26	



Topic: ALARA Plans. Do your ALARA plans include special briefings about use of volatile compounds?

Contact Info: (DCPP) felix.martinez@pge.com

Name: Felix Martinez		Contact Ir	nfo: (DCPP) felix.martinez@pge.com
Contact (Name)	Plant	NSSS	Comments
Soc Coughlin	Braidwood	4LW	No
Stall Leach	Byron	4LW	Ko
Ry Copa	Calvert Cliffs	CE	x6
1	Clinton	BWR	
Ryon Brown	Davis-Besse	B&W	No, accestandly found in our RWP'S with DE on that
	Diablo Canyon	4LW	
argre Brishol-Johna	LaSalle	BWR	yes it we are using P.T. Process for nDE. we will tackle contain tomit
Robin Miller	Limerick	BWR	No No
EILERT MEVERS	Palo Verde	CE	No
Ryan Meagher	Point Beach	2LW	No
Dove Max	Prairie Island	2LW	No
Darry Hamilton	Quad Cities	BWR	no
Michael Sint	Seabrook	4LW	No
John Hertz	Sequoyah	ICE	No.
Eric Hood	STP	4LW	No

Topic: ALARA Plans. Do your ALARA plans include special briefings about use of volatile compounds? Name: Felix Martinez Contact Info: (DCPP) felix.martinez@pge.com Contact (Name) Plant Comments NSSS MILE BELLEVE NO Vogtle 4LW Watts Bar ICE NO Wolf Creek 4LW French



Topic: Robotics. Do you utilize the Spot robot for routine plant activities such as ISFSI pad inspections?

Name: Felix Martinez		Contact In	fo: (DCPP) felix.martinez@pge.com
Contact (Name)	Plant	NSSS	Comments
Joe Couphha	Braidwood	4LW	N.
Scott Couch	Byron	4LW	んシ
Pay Lapa	Calvert Cliffs	CE	<b>√</b> ₀
	Clinton	BWR	
Kyan Brown	Davis-Besse	B&W	NO
	Diablo Canyon	4LW	
angre Bristot Johnson	LaSalle	BWR	ho
Randy Weyer	Limerick	BWR	No but we need to work ou it
ECHERT MOYERS	Palo Verde	CE	Ne
Ryan Meagher	Point Beach	2LW	NO, But will be working on Trains to change Hat
Done Mark	Prairie Island	2LW	Yes regenentry
Darcy Hamilton	Quad Cities	BWR	no
Michael Smit	Seabrook	4LW	No
John Hertz	Sequoyah	ICE	starting to.
Eric Hood	STP	4LW	No

Name: Felix Martinez		Contact Ir	nfo: (DCPP) felix.martinez@pge.com
Contact (Name)	Plant	NSSS	Comments
MIKE BEIBR	Vogtle	4LW	No
	Watts Bar	ICE	
French	Wolf Creek	4LW	"Chief" is growing in use.

2024 Summer RP-ALARA CONFERENCE



Topic: Exposure Reporting. Do your dose reports utilize color coding? Does your station take action based upon changes in that color coding? Is this effective for your station?

Contact (Name)	Plant	NSSS	Comments
See Cough lis	Braidwood	4LW	Yes/Ne
Soft Gach	Byron	4LW	yes / No
Roy Copo	Calvert Cliffs	CE	Yes especially the color Res
	Clinton	BWR	
Ryan Brown	Davis-Besse	B&W	No
	Diablo Canyon	4LW	
Drei Bristel Johnson	LaSalle	BWR	yes /no
Raidableves	Limerick	BWR	No
ECLERT MENERS	Palo Verde	CE	No
Ryan Neagher	Point Beach	2LW	Kind of a we need to update the colors, station does not take action
DavelMart	Prairie Island	2LW	No. Text Action \$ 10 mm Ply
Darcy Hamilton	Quad Cities	BWR	the color coded report we have is only distributed to ops no action based on color.
Michael Smith	Seabrook	4LW	No
John Hertz	Sequoyah	ICE	No. too visually confusing.
Eric Hood	STP	4LW	No

Topic: Exposure Reporting. Do your dose reports utilize color coding? Does your station take action based upon changes in that color coding? Is this effective for your station?

Contact (Name)	Plant	NSSS	Comments
MUKZ BEYER	Vogtle	4LW	home, You for WIPS IWAIL IN Progress ieviews
	Watts Bar	ICE	
French	Wolf Creek	4LW	yes - hooked with power BI

2024 Summer RP-ALARA CONFERENCE



Topic: Fuel Defects. Has your station experienced a fuel defect? What means of detection did you use with respect to RP processes or chemistry analyses?

Name: Felix Martinez

Contact Info: (DCPP) felix.martinez@pge.com

Contact (Name)	Plant	NSSS	Comments
Jue Coughlin	Braidwood	4LW	No
Scott Loach	Byron	4LW	No
	Calvert Cliffs	CE	No
	Clinton	BWR	
Lyan Brown	Davis-Besse	B&W	Need to talk with longer tenured
	Diablo Canyon	4LW	
angu Brista	LaSalle	BWR	Yes chemistry tracks in POD
Robin Miller	Limerick	BWR	Yes - chemistry - 7 emailme + I'll set by them contacts
Ellert Muyers	Palo Verde	CE	Yes - Bowing of new Framatone Fuel Required use of shoe horn 2x long for Fue
Ryan Meagher	Point Beach	2LW	485- email me
Doviellant	Prairie Island	2LW	Yer/years ago. Chemistryd
Darry Hamilton	Quad Cities	BWR	NO
Michael Smith	Seabrook	4LW	No
John Hertz	Sequoyah	ICE	No
Eric Hood	STP	4LW	Yes - email or talk RCS sandes

2024 Summer RP-ALARA CONFERENCE

Topic: Fuel Defects. Has your station experienced a fuel defect? What means of detection did you use with respect to RP processes or chemistry analyses?

Contact (Name)	Plant	NSSS	Comments
Mule Beyor	Vogtle	4LW	les-yrs ago - Chornistry Sampling, world like any Proclues available for this
Poleok French	Watts Bar	ICE	predues available for this
French	Wolf Creek	4LW	yes
		West .	The second
		112	

2024 Summer RP-ALARA CONFERENCE



Topic: Remote Briefings. Does your station perform remote briefings where a work group calls RP for a briefing in Microsoft Teams? If so, is this effective for your station?

Contact (Name)	Plant	NSSS	Comments
Soc Coughlin	Braidwood	4LW	Nope
Soc Coughling Scott Ceach	Byron	4LW	No
Hotory Lyn	Calvert Cliffs	CE	No
7	Clinton	BWR	
Ryan Grown	Davis-Besse	B&W	NO
	Diablo Canyon	4LW	
angre Brisid-Joh	n Sea Salle	BWR	nò
Robin miller	Limerick	BWR	W
EWERT MRYERS	Palo Verde	CE	Some RWP Briefs What as effective as in person
Ryan Meagher	Point Beach	2LW	No
Deremat	Prairie Island	2LW	Yes/ Yes.
Darcy Hamilton	Quad Cities	BWR	no
Michael Smith	Seabrook	4LW	No ne do not use Remotes meetings for our breits
John Hertz	Sequoyah	ICE	No.
Eric Hood	STP	4LW	No

2024 Summer RP-ALARA CONFERENCE

Topic: Remote Briefings. Does your station perform remote briefings where a work group calls RP for a briefing in Microsoft Teams? If so, is this effective for your station?

Contact (Name)	Plant	NSSS	Comments
MILGE BEYLEK	Vogtle	4LW	NO
To leak French	Watts Bar	ICE	NO
French	Wolf Creek	4LW	ND yes, Yes
	1- 10		
1=0			

2024 Summer RP-ALARA CONFERENCE



Topic: Work Scope Changes. What processes does your station have in place to report work scope changes to RP ALARA?

Contact (Name)	Plant	NSSS	Comments
Jue Coughlin	Braidwood	4LW	WORK WEEK MER COMME
Scott Leach	Byron	4LW	see above
By Lopoz	Calvert Cliffs	CE	IT work in outside of the Work order, workers Log change in the W
1 1	Clinton	BWR	, , , , ,
Ryan Drown	Davis-Besse	B&W	RP/ALARA ST WORK WEEK MEDTINGS. Energer Dose Forms cotol some changes
	Diablo Canyon	4LW	
	LaSalle	BWR	
Robin Miller	Limerick	BWR	They're supposed to inform us, rarely happens we're always the last to know
Ethert Nugers	Palo Verde	CE	4 SOR Process via Work management
Ryan Meagher	Point Beach	2LW	we have a tech at all workweek Meetings, SHO COMMUNICATE Changes, but usually does not persening - Usually found by accident when I in persening work weeks yes, There is a Spread Sheet,
Dave Max	Prairie Island	2LW	Work management QF 200 miles
Darcy Hamilton	Quad Cities	BWR	Work week manager is supposed to conte
Michael Smit	Seabrook	4LW	Attend work week meetings and review www schedules
John Hertz	Sequoyah	ICE	HIT neetings. ALARA attends outage planning meetings. Personal engagement
EricHood	STP	4LW	If scape drange is prior to work start ALARA usual gets informed. Very rarely informed after work start.

Topic: Work Scope Changes. What processes does your station have in place to report work scope changes to RP ALARA?

Contact (Name)	Plant	NSSS	Comments
Contact (Name) Mike Beyor	Vogtle	4LW	Do se Awareness Champion (PAC) Moment from each department track the Work Condition reports while I T-Processa Dose Champion
French	Watts Bar	ICE	7-Processy Dose Champton
V	Wolf Creek	4LW	4
		1	
-			
LN	T T	Villa	

2024 Summer RP-ALARA CONFERENCE



Topic: Electronic Dosimeter (ED) Setpoints. During a recent evaluation, DCPP was told that their setpoints are not reflective of the industry's approach to ED setpoints. What industry guidance does your station utilize to set electronic dosimeter setpoints. Can you provide or identify this industry guidance?

Name: Felix Martinez Contact Info: (DCPP) f

Contact Info: (DCPP) felix.martinez@pge.com

Contact (Name)	Plant	NSSS	Comments
Joc Coughlin	Braidwood	4LW	ter procedure and RP sytpoint tool.
East Leach	Byron	4LW	RP Set Aint tool
Rylpps	Calvert Cliffs	CE	Ne use a Tool colled ED set port Tool that Anlelysis Historical Contine Dota
	Clinton	BWR	
Ryan Brown Davis-Besse B&W	Beriew access records, "ALARA methoder paired u/ ENPO of NRC feelback		
	Diablo Canyon	4LW	
Organ Bristol	LaSalle	BWR	Rup Set port tool
Robin Miller	Limerick	BWR	description senting to be detabase
Ethert Nayers	Palo Verde	CE	We use historical data
Ryan Meagher	Point Beach	2LW	Email me
Que Markin	Prairie Island	2LW	Procedurand -
Darry Hamilton	Quad Cities	BWR	Sentinel, to determine the highest close.
Uichsel sont	Seabrook	4LW	Recently companed TCD readings with SRD readings and applied A 51, 6
John Hertz	Sequoyah	ICE	Historical data to identify max rate seen and % of entries >50% of set
Eric Hood	STP	4LW	Attempt to take a common sense approach and mining the number of different set points

2024 Summer RP-ALARA CONFERENCE

Topic: Electronic Dosimeter (ED) Setpoints. During a recent evaluation, DCPP was told that their setpoints are not reflective of the industry's approach to ED setpoints. What industry guidance does your station utilize to set electronic dosimeter setpoints. Can you provide or identify this industry guidance?

Contact (Name)	Plant	NSSS	Comments
MILLE BELEVI	Vogtle	4LW	TIEB PROCEDURALZES
	Watts Bar	ICE	
	Wolf Creek	4LW	
			and the state of t
	-	ey -	Alternative Comments
		4	
			— I I — W— P—

2024 Summer RP-ALARA CONFERENCE

WANO

DELINE

Guideline WANO GL 2004-01 (Rev-1)

Guidelines for radiological protection at nuclear power plants

March 2012 Limited Distribution

# High Interest Topics LaSalle - BWR



1. Has anyone been able to get an EC for external ultrasonic cleaning on class 1 piping approved?

2024 Summer RP-ALARA CONFERENCE



Topic: Has anyone been able to get an EC for External Ultrasonic cleaning on class I piping approxed? Name: Onsie Bristol Stanson Contact Info: angela bristol & Constellation con

Contact (Name) Plant NSSS Comments Soc Coughling Scottlessels Braidwood 4LW Not attempted Byron 4LW Calvert Cliffs CE **BWR** Clinton Lyan B&W Davis-Besse Not attempted FELIX Diablo Canyon 4LW MARTINE DOT ATTEMPTE LaSalle **BWR** Limerick **BWR** Not attempted Palo Verde CE Ryan Magher Not Attempted Point Beach 2LW Prairie Island 2LW Darry Hamilh **Quad Cities BWR** no Not sure I can had out Michael Smit Seabrook 4LW not yet. ICE Sequoyah Not attempted Eric Hood 4LW STP Not Attempted Mille Beyer 4LW Vogtle

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

	Watts Bar	ICE	
French	Wolf Creek 4LW	4LW	NOT YET Exploring = Dominion Eng. 1

# High Interest Topics Point Beach



- 1. HRA/LHRA brief sheets. Can I see an example of the HRA/LHRA briefing sheets/checklists you use at your site? Do you use the NISP?
- 2. What kinds of encapsulants have you used in High Contamination Areas (Lower cavity for example)?

2024 Summer RP-ALARA CONFERENCE



Topic: HRA/LHRA Brief Sheets - Can I see an Example of the HRA/LHRABriefing sheets/checklists you use at your site? Do you use the NISP? Name: Ryan Meagher Contact Info: Ryan. Meagher@FPL. Com Contact (Name) NSSS Comments Joe Loughlin Braidwood 4LW use NISP example Nisp-RP-005 Byron 4LW I will send to YOU Calvert Cliffs CE Clinton **BWR** Yes - include me on email requests + will send Yes - I'll senso you examples. We also Myan Brown B&W Davis-Besse FELIX Diablo Canyon 4LW MARTINEZ INCORPORATE NISPS IN MUR PROCEDURES LaSalle BWR We use RISA Randy Wager Eilert Meyers We we the NSP Limerick **BWR** We have a briefing checklist and Laybork Stamp. Email Me and I will send it to you Palo Verde CE Point Beach 2LW avail we we were NISP. Prairie Island 21W are Want **Quad Cities BWR** we use WISD Yes, we use the NISP. Emailme And I can send you copies. Michael Smit Seabrook 4LW John Hertz NISP " Sequoyah ICE Brief Sheets - Yes Eric Hood STP 4LW NISP - Mostly 4LW WILL SISMED YOU COPY Vogtle MIKE BELER

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

1) COK	Watts Bar	ICE	we use NISP
	Wolf Creek	4LW	

2024 Summer RP-ALARA CONFERENCE



Topic: What Kinds of encapsulants have you used in High Contamination areas (Lower Cavity For Example) Name: Ryan Heagher Contact Info: Ryan, Measher @ FPL. com Contact (Name) Plant NSSS Comments Braidwood 4LW NONE Byron 4LW world Calvert Cliffs CE Clinton **BWR** None Ryan Brown Davis-Besse B&W FELLY Diablo Canyon 4LW MARTINEZ DONIE. we changed to declinate scrubbus and soups & this process, canal LaSalle **BWR** Bestlett point, it werked well but you need to dry the county, we do not do it any more. Randylikyer Limerick **BWR** Palo Verde CE EXLECT MOTERS None Point Beach 2LW Down Prairie Island 2LW **Quad Cities BWR** none Seabrook 4LW None instacote in the past .. now we just John Hertz Sequoyah ICE decon None Eric Hood STP 4LW MUCE BISHER Vogtle 4LW HONE

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

TJCook French	Watts Bar	ICE	to sok when Agunox gets us down to sok weedecon solution using upcoming outside R.
French	Wolf Creek	4LW	Nove
		-	

# High Interest Topics Sequoyah - ICE



- 1. Do you continuously monitor RCS filter dose rates? Have you run into issues with fire impairement?
- 2. Do you have RCS cavity leakage? How do you mitigate? What are the sources?

2024 Summer RP-ALARA CONFERENCE



Topic: Do you continuously monitor RCS filter dox rates? Have you run into issues with fire impairment? Name: John Hertz Contact Info: SQN jjhertz@tragov Contact (Name) Plant NSSS Comments No At times during outage, 4LW Braidwood Jue Cough lin Continuous Luting outste 4LW Byron weekly on-line Rp Periodical Calvert Cliffs CE Chemistry does continousle Clinton **BWR** veerly online Ryan Brown Davis-Besse B&W FELLX MARTINIZZ YES, WE CONTINUOSLY MONITOR, FIRE Diablo Canyon 4LW IMPAIRMENT HAS NEVER COME UP. LaSalle **BWR** Limerick **BWR** NA We use old DMC 2000's Configured as ESLERT MEYERS Palo Verde CF ARM'S with Telemetry, unsure of Fire Impacts Ryan Meagher implications Point Beach 2LW Prairie Island 2LW Darry Hamilton NHA **Quad Cities BWR** We manitur but have not rim Seabrook 4LW into issues Used to keep AMP I RDS-31s monitoring, Sequoyah ICE Eng said it's a fire impairment issue. ARMS is area. No fire impairment issues STP 4LW Weekly, 4015 monitored by ops illk Buyer Vogtle 4LW Shiftly.

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

To Cook	Watts Bar	ICE	yes tari ve fill out
TO COK	Wolf Creek	4LW	Yes tari we fill out Free imperment parmets  Yes. No Fire I. Issues



Name: John He.	Plant	NSSS NSSS	Info: jjher+z@tva.gov
Joe Coughlin	Braidwood	4LW	Not usually. Have had sandhox cover gasket leak before
Scott Leach	Byron	4LW	Sometimes, usually boot seal
Ray Lopa	Calvert Cliffs	CE	WE are still in the discovery Plas
	Clinton	BWR	
Lyan Brown	Davis-Besse	B&W	No
Poux MARTINEZ	Diablo Canyon	4LW	WE HAVE A PERMANENT CAVITY SEAL ON UNIT?
	LaSalle	BWR	
Randy Weger	Limerick	BWR	No
EDIER MEYERS	Palo Verde	CE	Nove that I know of
Ryan Meagher	Point Beach	2LW	I don't believe so
	Prairie Island	2LW	
Darry Hamilton	Quad Cities	BWR	no
Michael Snih	Seabrook	4LW	UN AWARE of any lealorse
John Hertz	Sequoyah	ICE	
Eric Hood	STP	4LW	None
MIKE BOYE	Vogtle	4LW	No

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

	Watts Bar	ICE	
French	Wolf Creek	4LW	NO



Contact (Name)	Plant	NSSS	nfo: jjhertz@tva.gov Comments
Jo. Coughlin	Braidwood	4LW	No
YESCOH LENDY	Byron	4LW	Yes
	Calvert Cliffs	CE	
	Clinton	BWR	
Ryan Brown	Davis-Besse	B&W	No
terx MARTINEZ	Diablo Canyon	4LW	NO BUT I RETAIN THE OCCUMENTATION ON CHIT JOB. ALSO, WE'RE REPLACING ALL THIMBLE TUBE NEXT 2 OUTGOES
	LaSalle	BWR	
Rondylleyw	Limerick	BWR	No
MEVERS	Palo Verde	CE	No
Ryan Meagher	Point Beach	2LW	20
	Prairie Island	2LW	
Dany Hamile Michael Sint	Quad Cities	BWR	no
Michael Sint	Seabrook	4LW	No
	Sequoyah	ICE	
Eric Hood South morge	STP	4LW	No/call Jonal
NILE BEION	Vogtle	4LW	No

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

2024 Summer RP-ALARA CONFERENCE

	Watts Bar	ICE	
French	Wolf Creek	4LW	Greater Than Syrs
•			

# High Interest Topics South Texas Project - 4LW



1. PWR RCB at power entries a year, month, and week?



Name: Jonah Ma	1/	Contact Info:	jbmorgane Stpegs.com
Contact (Name)	Plant	NSSS	Comments
Soe Coughlin	Braidwood	4LW	Average I/mith per - wit
Scott Leach	Byron	4LW	About Four at Power entries
PayLoga	Calvert Cliffs	CE	all are schedule
\$	Clinton	BWR	
Ryen Brown	Davis-Besse	B&W	Previously had quarterly entries. Now there are no plenned entries online (until energent ise
MANTINEZ	Diablo Canyon	4LW	ENTOUS ONE PROSERS SCHOOLING
ange Bristol	LaSalle	BWR /x m	c/years to Drywell to account to less to during down powers to healthy to assess
	Limerick	BWR	NIA
Elbert Meyers	Palo Verde	CE	only as needed: Post onlarge tubrication Scheduled Police a year
Ryan Meagher	Point Beach	2LW	Once permonth, pervait at a minim
Dave Wast	Prairie Island	2LW	See Knad
	Quad Cities	BWR	
Usehael Sint	Seabrook	4LW	Once a month
John Hertz jjhertz@tva.gov	Sequoyah	ICE	1-2 per week (not inside biowall)
	STP	4LW	1-2 por week
MI RE BEYE	Vogtle	4LW	other emagent getwines happe

11			
TJ Cook	Watts Bar	ICE	1-2 per week
	Wolf Creek	4LW	
PECIX	DC PP	9W	ENTRIES MAY OCCUR FOR EMERCIENT ISSUES & MAINTENANCE

# High Interest Topics Vogtle 1&2 - 4LW



- 1. HRA briefings. NISP no longer requires documentation of them. Do you document?
- 2. Self-briefing RWPs. Do you use them? What sort of challenges, if any, and you encountered with their use, if used? Most of our unanticipated dose rate alarms have been from people using self-briefing RWPs.

2024 Summer RP-ALARA CONFERENCE



TOPIC: HRA AREA BRIEFINGS, NISP NO LONGER REQUIRES DOCUMENTATION OF THEM. DO YOU DOCUMENT?

Name: MIKE BE ( Contact (Name)	Plant	NSSS	nfo: VOStle 182 Mfbeyer@ souther no 706-848-1523 Comments
JEFF Chair	Braidwood	4LW	Yes
xoH Leach	Byron	4LW	yes
2 Loop	Calvert Cliffs	CE	Yes
) 4	Clinton	BWR	
Ryan Brown Eix Marrinez	Davis-Besse	B&W	Mixed. Most texts use as a templete, then disgard at end of shift
ELIX MARTINEZ	Diablo Canyon	4LW	NOTRET WE USE BRIEFING GUIDELINKS
arge Bristo)	LaSalle	BWR	sometimes its /aminated and erasake
Rangelene	Limerick	BWR	NO - use as a templete to brief from
Henry Neupers	Palo Verde	CE	Ves
Ryan meashe	Point Beach	2LW	4 45
	Prairie Island	2LW	
Darry Hamilta	Quad Cities	BWR	Yes
Michael Sm	Seabrook	4LW	Yes
John Hertz	Sequoyah	ICE	no. but we still have a briefing checklist to use.
Eur Hood	STP	4LW	Use a checklist. Typically documented but not required. Add individuals into So
	Vogtle	4LW	

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

	Watts Bar	ICE	
French	Wolf Creek	4LW	Mosriy captured at Shirt Toch Access control - Not always we

#### HIGH INTEREST TOPIC QUESTIONNAIRE

2024 Summer RP-ALARA CONFERENCE



Topic: Self-Briefing RWP's.

- Do you use them?

What sort of challenges, if any, have you encountered with their use, if used.

Most of our unanticipated dose rate alarms have been from people using self-briefing RWP's.

Name: Michael Beyer

Contact Info:

mfbeye@southernco.com

Work: 706-848-1523 Cell: 803-571-3777

		Cell: 803-	-571-3777
Contact (Name)	Plant	NSSS	Comments
siff yes	Braidwood	4LW	AT 188ULS. MENS Clearly defined
Scatt Leach	Byron	4LW	Selffores areas are clearly defined. No self bring in contain
RyLopor	Calvert Cliffs	CE	resoluter For use of self Brief + Schlaief Rups are clearly defined a
	Clinton	BWR	
Ryan	Davis-Besse	B&W	Yes for online - self brief tescan most seneric RWP's. No for CTMT during old
Brown MARINES	Diablo Canyon	4LW	MOST SENETIC RWP'S. NO FOR CTIMIT during ofthe we use seef price RWPS. RESTRICTED TO WILL RESPOND SECURITY & NEW-CTIMIT ENTRIES, WA CHAIL
angie Bristol	LaSalle	BWR	Lack of appropriate
Robin miller	Limerick	BWR	Co we have them - no HRA access GARALY
Eiler Meyers	Palo Verde	CE	They are active but are not used to : to full capability . Challange work groups we
Ryan Meagher	Point Beach	2LW	yes, GAONINO
me Mark	Prairie Island	2LW	Online Rups only-general areas or
Darry Hamil	Quad Cities	BWR	online Rups only - general areas or
Michael Snit		4LW	Ves on line for rentine worle, by work snows are asked to still stop by control point with grestians

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 2024 Summer RP-ALARA CONFERENCE

Sequoyah	ICE	Yes. Most workers don't use because they want RP brief. Any rooms w/ high dose rates and not allow self-brief.
STP	4LW	Yes, we allow Self Briefs but not used ofton, I Dore Rate Marring
Vogtle	4LW	
Watts Bar	ICE	Just Discontinued Them
Wolf Creek	4LW	Just Discontinued Them
	STP  Vogtle  Watts Bar	STP 4LW  Vogtle 4LW  Watts Bar ICE

## RP ALARA Conference Breakout Sessions



- 1. ICE, B&W, Framatome
- 2. Westinghouse 2L
- 3. Westinghouse 4L, Group A
- 4. Westinghouse 4L, Group B
- 5. BWRs

## **Breakout Sessions ICE, B&W, Framatome**



## Group – Ice, B&W, Framatome Facilitator: John Hertz Successes – What has gone right



<i>Davis-Besse</i> Ryan Brown	➤ First success – best ever outage dose 35.2 REM
	Second success – expansion of semi-permanent scaffolds
<i>Watts Bar</i> TJ Cook	➤ First success – 3 H3D gamma cameras for outage analysis of crud burst. Allowed early release of crud burst affected areas.
	Second success – 4.0 critiques on all High Risk and infrequently performed (IPTE) jobs.
Framatome David Howard	First success – Cavitation peening equipment improved shielding and flushing.
	Second success – development of robot for SG ECT and plugging requires no robot changes in the most recent outage.

## Group – Ice, B&W, Framatome Facilitator: John Hertz Successes – What has gone right



#### Sequoyah John Hertz

- ➤ First success Recovery of legacy rad waste areas (decontaminated, consolidated and shipped filters and other legacy waste).
- Second success Self-contained tensioners saved 1 REM on U2 outage, 2 REM on U1 outage

## Group – Ice, B&W, Framatome Facilitator: John Hertz Challenges – What has gone wrong



<i>Davis-Besse</i> Ryan Brown	First challenge – security dose estimate/reporting. SRD/DLR discrepancy due to reduced frequency of DLR reads.
	<ul> <li>Second challenge – company acquisition creating confusion regarding program ownership</li> </ul>
Watts Bar TJ Cook	First challenge – work group dose ownership
	Second challenge – new RP techs (75% < 5 years experience)
Framatome David Howard	First challenge- finding qualified people
	Second challenge- development of robot for some of the heavier repair processes

### Group – Ice, B&W, Framatome Facilitator: John Hertz Challenges – What has gone wrong



#### Sequoyah John Hertz

- First challenge Maintenance Services ALARA planning engagement
- Second challenge SG Rad Worker practices: locked
   23 workers out of RCA due to willful disregard

#### Golden Nuggets:

- Davis Besse backup contract with INS (Mexican Techs) prior to outage even though they didn't think they needed it... they needed it.
- Watts Bar assign outage control points to RP techs 8 months prior to outage
- Framatome clean/dirty bins for headsets needing survey/decon

## Group – Ice, B&W, Framatome Facilitator: John Hertz Challenges – What has gone wrong



■ **Sequoyah** – Power App to show room postings/access status.

## **Breakout Sessions Westing House 2L**



## Group – 2 Loops Facilitator: Dave Martin Successes – What has gone right



Calvert Cliffs Roy Lopez,	>	First success – Reduced time RCP from 24 to 8 hours.
Norberto Mendez		Second success – ALARA advocate program dose ownership is better. But took involvement of SLT.
Point Beach Ryan Meagher	>	First success – Eight months of asking automating workorder to RWP in progress
	>	Second success – SLT paying for RPALARA group.
Palo Verde Eilert Meyers	>	First success – RCP impeller 4.0 performance 110% estimate
	>	Second success – RCP motor oil level inside bio. Job went well.
Prairie Island Dave Martin	>	First success – 150 Day outage two unit shut down no NRC more than one minor Rad violations
		Second success – ALARA trinkets a must with a estimated 63 day outage.

## Group – 2 Loops Facilitator: Dave Martin Challenges – What has gone wrong



Calvert Cliffs Roy Lopez, Norberto Mendez	First challenge – Contaminated hic needs deconned before shipment.
	<ul> <li>Second challenge – No Radwaste group controlled by RP. Hard getting money for shipping.</li> </ul>
Point Beach Ryan Meagher	First challenge – Had to cancel barrel shipment due plant support.
	Second challenge – No consistent RP supervision, plant supervision are not consistent either.
Palo Verde Eilert Meyers	First challenge- Level 2 PCE's
	Second challenge- House staffing and experience is low.
Prairie Island Dave Martin	➤ First challenge – Radworker behaviors new nuclear.

### Group – 2 Loops Facilitator: Dave Martin Challenges – What has gone wrong



Second challenge – Hiring house RP's with good work ethic

#### Golden Nuggets:

- Calvert Cliffs RP Challenger: someone not involved with job challenges workers at end of brief on what they understood from the brief (stay times, dose rates, set points, controls, etc)
- Point Beach SLT paid for UDEMY 1000's hours of training for \$250
   Year.
- Palo Verde AWM Mirion technology for dose rates and monitoring dose.
- Prairie Island Money for upgrading RP equipment. NRC recommended.

## Breakout Sessions Westinghouse 4L Group A



## Group – 4 Loops (A) Facilitator: Scott Leach Successes – What has gone right



Vogtle	
<b>Michael</b>	<b>Beyer</b>

- ➤ First success RP Supervisors involved in outage schedule reviews prior to the start of the outage.
- Second success second set of safety valves purchased so they can be replaced without waiting for the testing/rebuilds.

### Wolf Creek Bob French

- ➤ First success Used more senior supplemental techs than junior techs during outage. Opposite of normal staffing.
- Second success engagement of leadership team for steam generator planning.

#### STP Eric Hood

- ➤ First success Planned ahead for Westinghouse to not be able fully staff supplemental techs. Had three different companies supporting.
- Second success Prepared for failed fuel ahead of the outage. Reduced WBC's and no level 2 or 3 contamination. Good use of lessons learned.

## Group – 4 Loops (A) Facilitator: Scott Leach Successes – What has gone right



## Byron Scott Leach Jacob Burton

- First success Fully staffed experienced team. Everyone works well together.
- ➤ Second success DCS campaign completed five containers for 312 mrem. There were no Radworker issues and no PCE's.

## Group – 4 Loops (A) Facilitator: Scott Leach Challenges – What has gone wrong



Vogtle Michael Beyer	First challenge – Supporting the initial entry during shutdown. Controlling number of people going into containment.
	Second challenge – Lead tech position and difficulties with the union.
Wolf Creek Bob French	First challenge – Changed work control process seven months prior to outage.
	Second challenge – Difficult to get computer access for incoming supplemental support.
STP Eric Hood	First challenge- Work management process at the station. Use a lot of emergent dose.
	Second challenge- Radworker performance declining
Byron Scott Leach	First challenge – Hard to staff laborers during outage.

### Group – 4 Loops (A) Facilitator: Scott Leach Challenges – What has gone wrong



#### **Jacob Burton**

 Second challenge – Budget constraints and Business Ops challenges.

#### Golden Nuggets:

- Vogtle Color coded dose markers for work on top of cask during DCS.
- Wolf Creek Junior RPT program sponsor initial training of junior class.
- STP Utilize more junior supplemental technicians and provide opportunities for them to learn.
- Byron Lead tech program to support supervisors during outages.

## Breakout Sessions Westing House 4L Group B



## Group – 4 Loops (B) Facilitator: Joe Coughlin Successes – What has gone right



#### Constellation Corp Kevin Crymes

- ➤ First success Outage management estimating tool being utilized for task risk evaluations and outage estimating/planning
- Second success Dose report refinement during outages with revision of daily dose estimates based on work performed and comparing work completed to estimates to understand variances

## Seabrook Michael Smith, Robert York

- First success New SVP was a previous RPM. Champions dose reductions initiatives. Challenged work groups on annual dose reduction plans and associated/specific actions
- Second success Ownership OPs has taken with training of new Operators and dose aspects of the field activities

## Group – 4 Loops (B) Facilitator: Joe Coughlin Successes – What has gone right



Diabl	lo Canyo	n
<b>Felix</b>	<b>Martinez</b>	Z

- ➤ First success Embracing new technology. Virtual tour 360 being utilized and workers are finding benefits. Laser scan RCA being utilized by engineering and planning. Now moving forward with 3D printing for shielding applications
- Second success P6 monitoring of schedule and data analysis of work activities to refine daily outage estimates

#### Braidwood Joe Coughlin, Jeffrey Chase

- First success Cameras are named/configured specific to network and are recognized as soon as deployed
- Second success Radworker quiz given prior to DLR issuance to raise awareness to RP fundamentals. INPO strength

#### Group – 4 Loops (B) Facilitator: Joe Coughlin Challenges – What has gone wrong



## **Kevin Crymes**

- **Constellation Corp** > First challenge Fleet ALARA knowledge. Conducting an ALARA Analyst training session this summer to help fill the knowledge void
  - Second challenge Sometimes a lack of engagement in SAC meetings. More often an RP meeting versus overall challenge and understanding impacts of performing dose reduction initiatives

#### Seabrook Michael Smith, Robert York

- ➤ First challenge Last outage in the radioactive material storage building found hot particles outside of posted area. Challenges with Outage Coordinator and movement of equipment
- Second challenge Centralized training getting generic and not specific to plant needs/details

#### Diablo Canyon **Felix Martinez**

First challenge- During outage performing pipe replacement outside worker became contaminated due to being on work platform versus outside of work area

## Group – 4 Loops (B) Facilitator: Joe Coughlin Challenges – What has gone wrong



	Second challenge- Mechanics removed lead shielding from work area without RP knowledge accumulating more dose during work activity.
Braidwood Joe Coughlin, Jeffrey Chase	First challenge – HRA event during spring outage due to not briefing ISI workers to current radiological conditions
	<ul> <li>Second challenge – Scaffold built around Rx Head while on stand for inspections. Looking for modular</li> </ul>

#### Golden Nuggets:

 Constellation Corp – Utilize questions on Sentinel during digi login to challenge radworker knowledge/awareness

system to hang via bolt holes for inspection access

### Group – 4 Loops (B) Facilitator: Joe Coughlin Challenges – What has gone wrong



- Seabrook 55 inch TV staged at login stations with power point looped with RP fundamentals and radworker practices
- Diablo Canyon Workgroups ownership of dose and comparison of previous history to validate estimates
- Braidwood Off network camera system to be used for quick setups and deployments; freezes, fire watch, valve tasks, etc

## **Breakout Sessions BWRs**



### Group – BWRs Facilitator: Jonah Morgan Successes – What has gone right.



## LaSalle AJ BristolJohnson

- ➤ First success Dose estimates, tribal knowledge, better surveys, high risk radiological, working with RP techs on survey templates, Alpha/Beta Surveys, risk evaluations in ALARA plans. Survey Templates to have reproduceable records for planning and ALARA plans and NRC information. It sets expectations and standards. Provides Proof of results, ultra-sonic decontamination.
- Second success Having TEDE templates to apply to multiple RWP to improve efficiencies and reduce multiple revisions. Having RWPs structured to handle Moister Carryover, remove temp revs to eliminate error traps.
- Bundling LHRA entries to reduce RP Burdens.

## Group – BWRs Facilitator: Jonah Morgan Successes – What has gone right.



## **Quad Cities Darcy Hamilton**

- ➤ First success Lowering Hydrogen Addition when going into Steam Affected Area, coordinating with Ops and Chemistry to lower dose rates and overall dose.
- ➤ Second success Last Outage ISI Points, Core Spray Lines are high dose, had plans to flush but didn't have the correct equipment. Worked with Engineering to defer inspection on the these lines to next outage to prove that they didn't have to be done, 4 rem just for the shielding.

## Limerick Robin Miller Randy Weyer

- ➤ First success Cavity Decon, down to 4 hours, Diakont Robot for Cavity Cleaning (\$230k), reactor services put them in schedule. RP funded
- Second success 17C valve, LIPSI Line 39 Rem/hr, 22 Rem/Hr hotspots, Bump the pump to remove hotspots, 30 rem to do the job, with shielding was 20 Rem, B RWCU down to 20-50 mrem/hr, job was a overall completed for less than 1 Rem.

### Group – BWRs Facilitator: Jonah Morgan Successes – What has gone right.



#### STP Jonah Morgan

- ➤ First success Multiple Vendors for Backup Contracts on RP techs, INS techs were excellent.
- ➤ Second success Use of Junior RP techs to support Critical Path Work in 2RE23

### Group – BWRs Facilitator: Jonah Morgan Challenges – What has gone wrong.



## LaSalle AJ BristolJohnson

- ➤ First challenge Moister Carry Over due to different fuel design and core design. Unit 1 13 Rem additional dose, 60 curies in Unit 2 Nuclear Fuel Design, only care about core design, adding new bundles
- Second challenge Bringing ALARA plans and estimates 4-6 months before and outage. Outage freeze does not apply, and work is added up until 2 weeks prior to outage, can sway dose estimates 10-15 rem

## **Quad Cities Darcy Hamilton**

- ➤ First challenge Issues with Radwaste, LHRA, tanks reading 20 -30 REM with resin on the floor, 25 Rem dose estimate to clean, seal floors to contain Tritium from leaking into ground water.
- Second challenge Department engagement is tough do save dose, dose advocates don't show up, ALARA department runs the entire meeting with no involvement.

### Group – BWRs Facilitator: Jonah Morgan Challenges – What has gone wrong.



Limerick
<b>Robin Miller</b>
Randy Weyer

First challenge- GNF3 Fuel, Higher burn, dryer not designed for Higher Burn. Mrad in Condenser, moister carrier over increased, dose goals and performance.

#### *STP* Jonah Morgan

Second challenge- New Filters on demins, was 200 mrem for a job, but now over a Rem for the job, which leads to poor chemistry, which leads to more dose

- ➤ First challenge Work order compliance, using wrong Work orders which is a challenge for dose tracking, Refuel dose planned for 13 Rem, picked up 19 Rem but RCB coordinators and O-ring project picked up 3-4 rem.
- Second challenge –

Group – BWRs Facilitator: Jonah Morgan Challenges – What has gone wrong.



#### Golden Nuggets:

- LaSalle Challenging Engineering and organizations to save over 100 Rem of dose. Building Relationships to allow that work to be deferred work and get things done that need to get done when it needs to be done.
- Quad Cities Mid Month SAC to get more involvement from Craft to get emergent dose and large dose jobs to get approved.
- Limerick- Flexible hours for seasoned worker to keep that knowledge in house, until knowledge transfer is complete. Ask Bruno!!
- STP Not being a Boiler. Having a OneNote to capture a central location for teaching a learning website to capture videos, pictures, walkdowns to reinforce standards and knowledge transfer.

## RP ALARA Conference Presentations



- 1. RP Resource Allocation
- 2. Clevis Bolt Replacement Project
- 3. ISI 10YR RV Inspection

## RP ALARA Conference RP Resource Allocation





# Radiation Protection Resource Allocation



#### Q.\*Supply constraints of Radiation Protection Technicians

- Alignment of work within the radiologically controlled area with supporting Radiation Protection Technicians.
- -Risk based decision making.



### Use the work controls process to help!!!

- ➤ Wolf Creek uses P6 as the scheduling tool.
- > P6 has user defined fields.
  - > Two of these fields are assigned to identify risk: Dose Goal and RWP.
- ➤ Planners resource work orders based upon Building-Location-Area (BLA).
  - > ALL locations in the RCA are assigned an RP resource.
  - > IF the planner perceives more are needed, they will assign multiple RP role ids.
- > ALARA team evaluates the work and craft, assigns RWPs, and assigns (projected) dose goals.
  - ➤ (Dose goals are projections NOT dose ESTIMATES)

# Define Resources within Work controls (1)

Our Role ID in P6 is "RP" RP-General to be specific.

The RP resource structure is further defined as:

■ RP	RP - General
RPALARA	RP - ALARA
■ RPBOP	RP - BAL OF PLANT
■ RPCMT	RP - CONTAINMENT
■ RPCV	RP - CAVITY FOCUS
■ RPDEC	RP - DECON
RPSG RPSG	RP - S/G FOCUS
■ RPSUPV	RP - SUPERVISOR
ATE.	

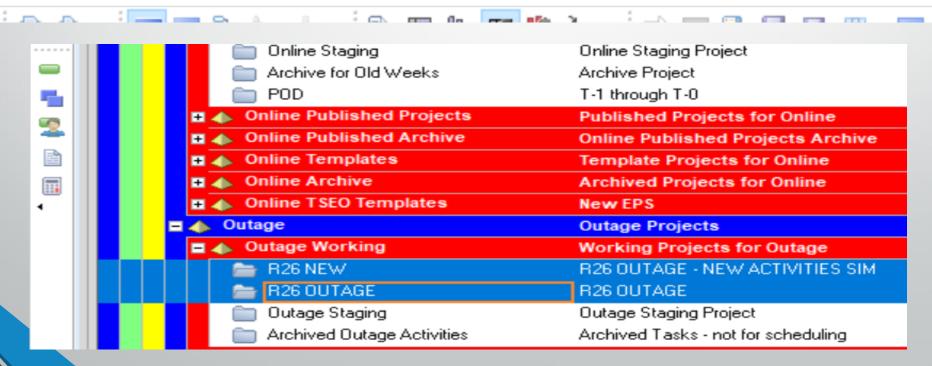
## RP Industry Task Force



To set up Resource allocation I have the targeted Project open as well as the activities selected. For me it looks like this:

■ <b>♦</b> Outage	Outage Projects	Active
Outage Working	Working Projects for Outage	Active
► R26 NEW	R26 OUTAGE - NEW ACTIVITIES SIM	Active
R26 OUTAGE	R26 OUTAGE	Active
Dutage Staging	Outage Staging Project	Active
Archived Outage Activities	Archived Tasks - not for scheduling	Active

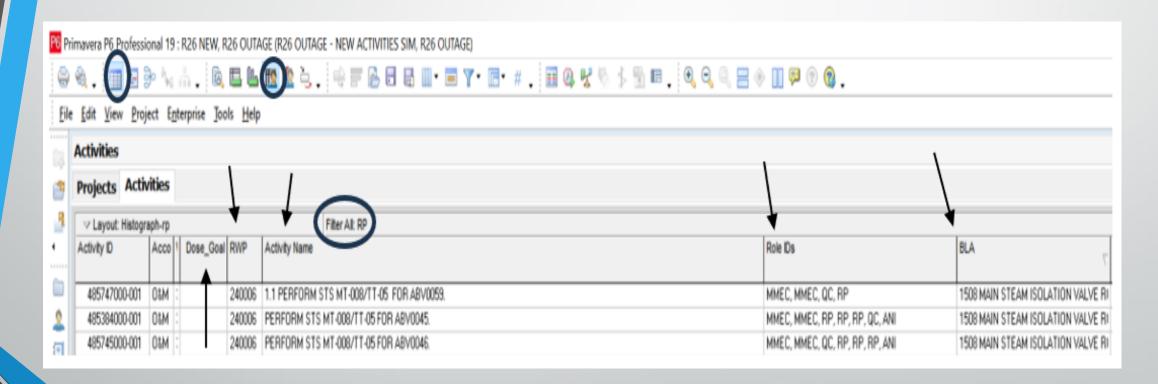
Primavera P6 Professional 19: R26 NEW, R26 OUTAGE (R26 OUTAGE - NEW ACTIVITIES SIM, R26 OUTAGE)



#### First phase set up:



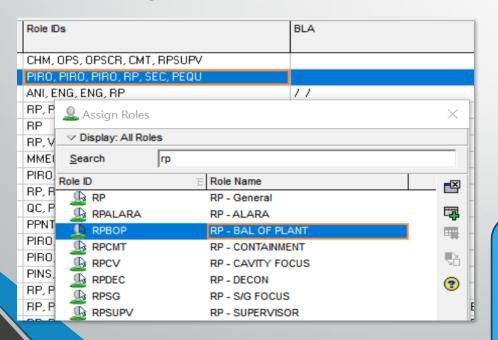
I ensure the columns I want are aligned, for me that is <u>Dose Goal, RWP, Activity name, Role IDs and BLA</u>. My overall set up looks like this:



#### First phase



- The goal is to align the proper resource and level.
  - Filter on "RP" to generate the report.
- The highlighted activity is for removing a portion of RCA fencing.
  - RWP is general
  - Minimal dose
  - 1 RP technician is assigned in the role ID
- I assign RPBOP and remove the RP-General role.





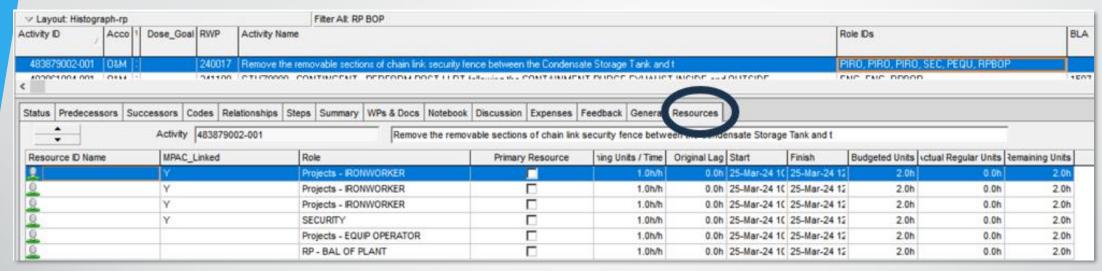
Save the work and the resource is now assigned to RPBOP.

This lets me know this step is done. The next phase will further align the resource.

#### First phase cont.



- We now see a report filtered on RPBOP
  - The same activity is highlighted as before with the Details listed and Resources tab selected (in the details field).



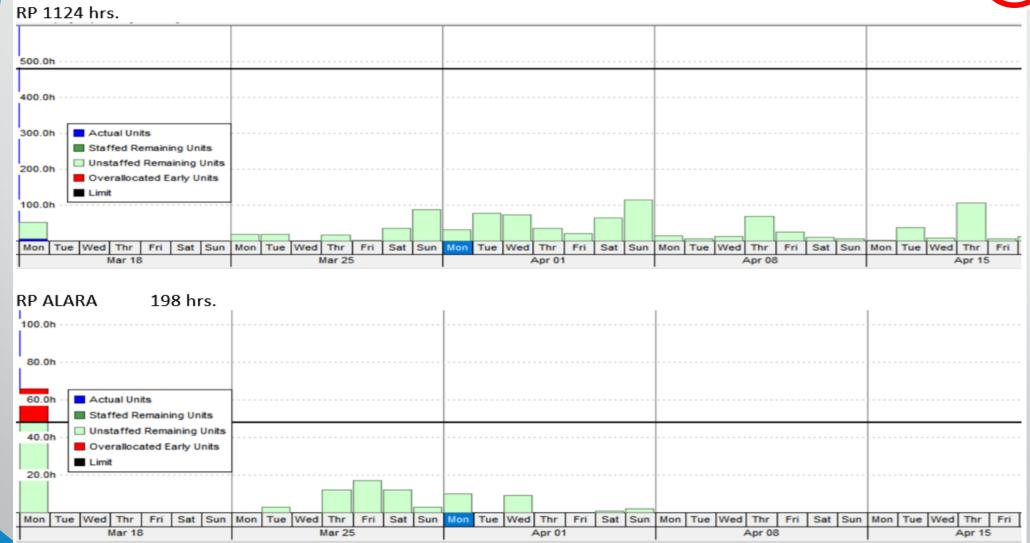
This activity shows the resources assigned to support this work.

- The duration for this work is 2 hours.
- Each resource is listed at 1.0/h = 100% of the time for the resource.
  - This means that each role (resource) is allocated 100% time per unit.
  - 12 man-hours are required for the 2-hour job.
  - This activity is a low-risk activity. However, it is a Radiological Controlled Area boundary breach.
    - ✓ The RP technician must control the area and work then restore postings when work is complete.
    - ✓ I will not alter the RP technicians time, based upon the posting and control Risks.
- Roles such as Decon can be added and the timeline adjusted so 25% of the total time is applied to this role.
  - This allows for set up or tear down of an area or additional Decon presence.

#### Why all the work focused on this level?

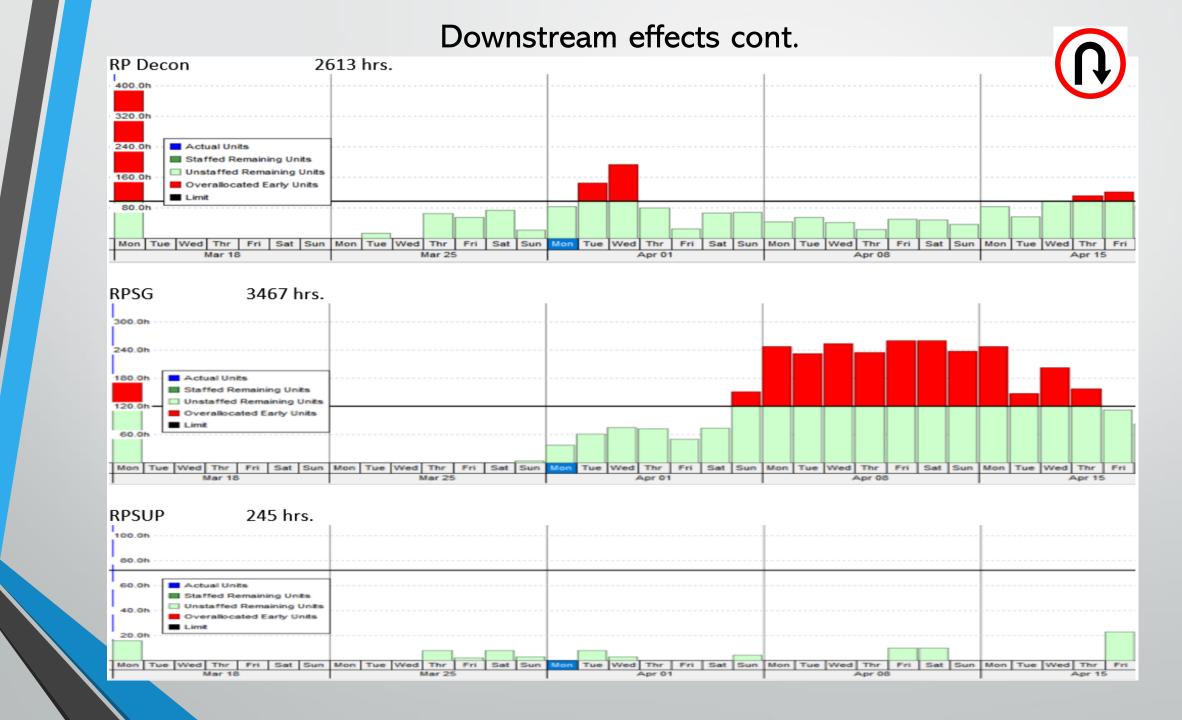
Here are some of the downstream effects.





#### Downstream effects cont.





#### Downstream effects Summary



- Resource loads provide insight for a time that could tax RP resources, allowing for staffing adjustments beforehand.
- Resources can be further aligned within the scheduled item by assigning the allotted percentage of RP hours associated with that task.
- ➤ Hours-per-Role category allows break out of work and resources.

#### A few things to consider:

- Analysis of overload time frames may reveal overlapping work orders or redundant work.
- Grouping work by work area creates an overview of what is happening within the area.
- Assigning RP technician to an area that includes the complement of work rather than assigning technicians per work order-crew.
- ❖ Is the activity covered cradle to grave? Decon, set up clean up?
- ❖ Graphs highlight challenging shifts and allow staffing to be realigned through the Outage Control Center (moving technicians from one area to another).
- ❖ On a larger scale the graphs provide Coverage Hours that can be interpolated into overall outage/Project work loading for Radiation Protection.
- Assigned shifts, break times, and work areas all factor into the actual hours needed. The current hours indicated are those the craft project for the activity NOT what may be needed for Radiation Protection support.

# In closing



There are a lot of ways to accomplish our tasks.

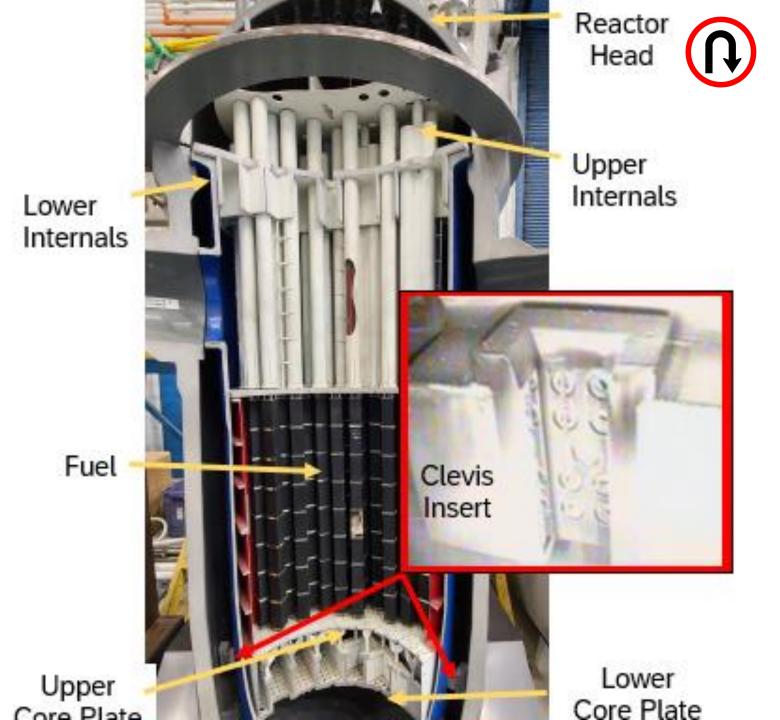
Risk at the forefront.

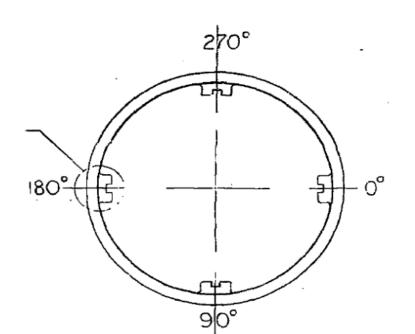
This is just a snapshot of a process that exists at all our utilities that can be utilized.

# Questions?

# RP ALARA Conference Clevis Bolt Replacement Project

Clevis Bolt Replacement Project







# Clevis Bolt Replacement

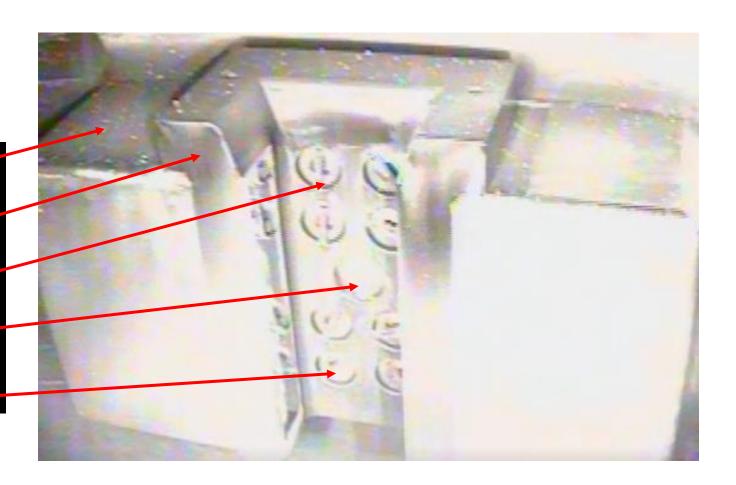
RV Lug

Clevis Insert

Lock Bar

Dowel Pin

Clevis Bolt





# Latest Industry Guidance



The following NEI 03-08 "Needed" guidance is effective at <u>Westinghouse</u> <u>Designed</u> PWR units as of July 1, 2023 or prior to 55 calendar years of plant operation – whichever comes first.



It is recommended that prior to this date the impacted utilities perform a review of this guidance for potential implementation.

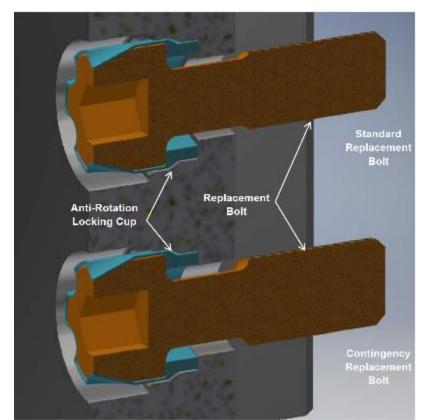


Three different approaches are provided for flexibility in how to address the underlying issue, taking any one of these approaches would be considered as satisfying the guidance.

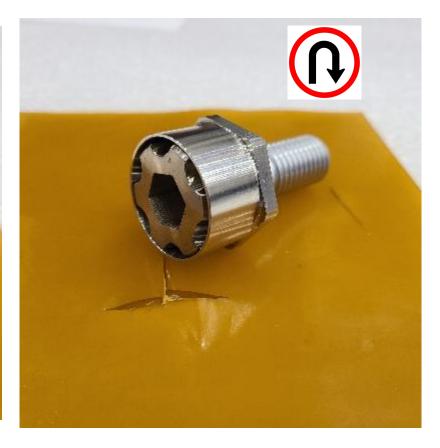
New bolt hardware has been designed that is comprised of a cap screw and anti-rotation locking cup to replace the existing welded lock bar bolt system.

Per a Replacement Bolt Pattern Analysis (RBPA) it was determined that we need to replace 16 of the 32 bolts currently in place. If there is time, we will remove the additional 16 bolts.

A contingency bolt that is 5/8ths of an inch larger was also designed.

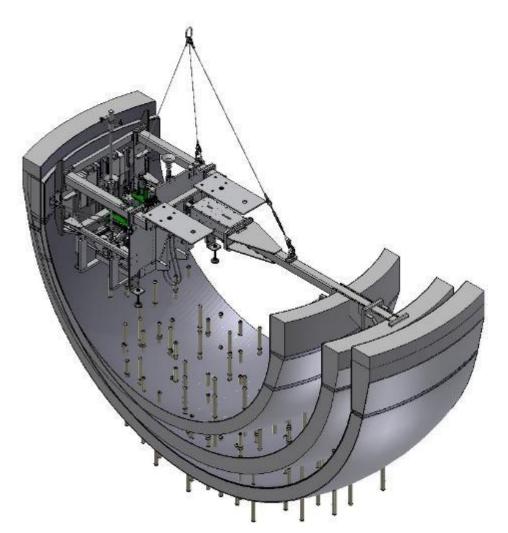






# Replacement Bolt Design

# Docking Station





## EDM Linear Cutting Head



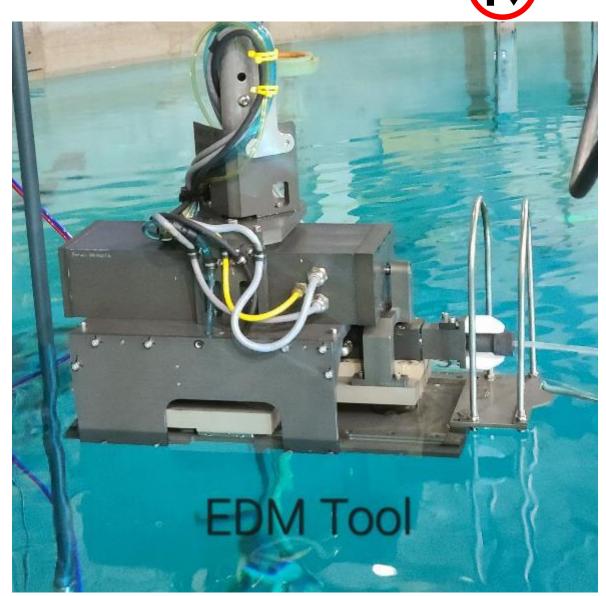
The Electrical Discharge Machining (EDM) tool provides a means to machining various geometries in support of the clevis bolt repair process.

#### Standard Uses:

- ➤ Cut #1 Lock bar severing
- Cuts #2 & #3 Hex counterbore roughing with gimbal, PI design requires an additional extra roughing burn
- Cut #4 Hex counterbore finishing, with gimbal

#### Contingency EDM uses:

- > Bolt head removal, when the bolt cannot be un-torqued
- > 5/16<sup>th</sup> inch internal hex, if there is a broken head or for bolt shank removal
- > Shank coring, to remove bolt shank and original threads
- Oversize bolt diameter, for roughing and finishing cuts
- Oversize bolt hex counterbore, no gimbal



# **(J)**

# Bolt Replacement Process

- The Alignment camera is used to align the main docking station platform to the specific clevis bolt to start work.
- 2. Sever the lock bar weld using EDM tool
- 3. Remove existing bolt
- 4. EDM the clevis insert to accept the replacement bolt and locking cup.
- 5. Verify existing threads are acceptable
- 6. Clean threads with the tap tool (contingency)
- 7. Install alignment mandrel using existing bolt threads
- 8. EDM Counterbore to final size and shape
- 9. Clean out hole with water jet and vacuum
- 10. Perform Visual Inspection to ensure no anomalies that could prevent hardware installation.
- 11. Install replacement bolt and locking cup
- 12. Perform final bolt torque and crimping of the locking cup.



# Radiological Considerations

Dose rates are expected to be 2 - 6 mr/hr on the Manipulator crane and Aux Bridge.

DC Cook replaced their Lower Radial Support Structure bolts 10 years ago, and documented a survey of the individual bolts with a range of 249 mr/hr / 8 mr/hr to 624 mr/hr / 11 mr/hr.

We will perform dose rates surveys of equipment underwater and at a foot above to verify that we do not remove any unwanted high dose rate material from the reactor cavity.

We will maintain control over the contamination, especially discrete radioactive particles that may be brought into work areas.





Dose Performance			
	Dose (rem)	Time (hours)	
Projected (Original)	5000 mr	3,428 man-hr	
Projected (Revised)	8,300 mr	7,500 man-hr	
Actual	6,463 mr	9,177 man-hr	
% of Projection Used	77%	122%	

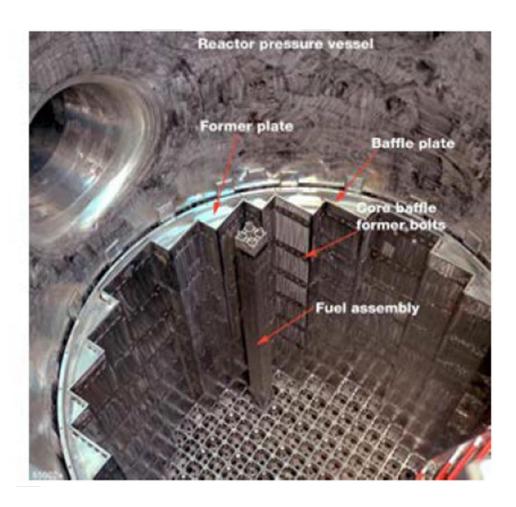
Other Data (as applicable)		
Total (RCA Entries)	3,310	
Effective Dose Rate	0.70 mr/man-hr	
Maximum Dose Rate	170 mr/hr	
Personnel Contaminations	14	
Respirators Used (Y/N)	N	



# Baffle Bolt Replacement Project

The Former Plates are bolted to the Core Barrel

The Baffle Plates are bolted to the Former Plates



During 2R33, we replaced **299** Baffle Bolts



# Mannheim Tool – Carriage and Mast

- The Mast consists of: a metal I-beam, the drive mechanism to move and operate the tool, and the carriage.
- The Carriage is what the Baffle Bolt Tooling is attached to.



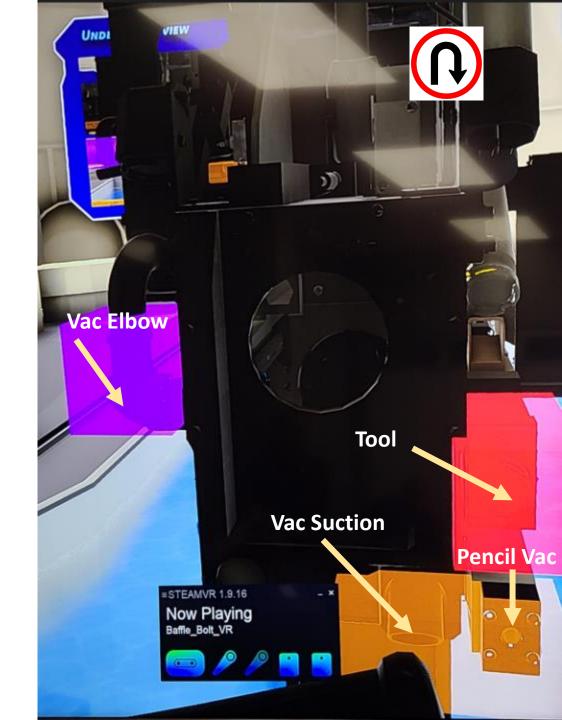
# Mannheim Tool – Survey Points

**Vac Elbow** – on side of the carriage, natural location for fragments to get caught

**Tool** – This is where the End Effectors will be installed/changed out. Potential for there to be small fragments, especially from milling (FS-3) and counterbore cutting tool (FS-1).

**Vac Suction** – Primary source of suction, this will capture the most of the foreign material generated during the project.

**Pencil Vac** – vacuum suction can be diverted to pencil vac which will telescope out of the housing, into the hole to remove debris





# Mechanical Work Bridge (MWB)

The Mast will be mounted on the Mechanical Work Bridge



# Radiological Considerations

Dose rates taken on the core barrel at other plants, in the areas of the baffle bolts, have been measured to exceed 100,000 Rem/hr.

There has been a history of issues with DRP's in and around the work areas, including most of the personnel contaminations associated with Baffle Bolt work.

Several items have been determined to have dose rates that will prohibit them from being removed from the Rx Cavity. These items will be placed in underwater debris canisters and moved to the SFP via the Fuel Transfer System.

# Expected Radiological Conditions:



- ➤ Dose Rate on Bridge 2 6 mr/hr
- ➤ Tooling prior to rinse or hydrolase up to 10 Rem/hr
- ➤ Tooling when removed from the water 40 800 mr/hr general area
- > Tools will be rinsed or hydrolazed under water prior to being surveyed
- > Tools will be placed in a bucket of water to be transferred from the bridge to the tool tent for final decon and maintenance.
- > Surveys in and around the work area, lifejackets or waistbelts, and items removed from the water will be very important for a successful project.

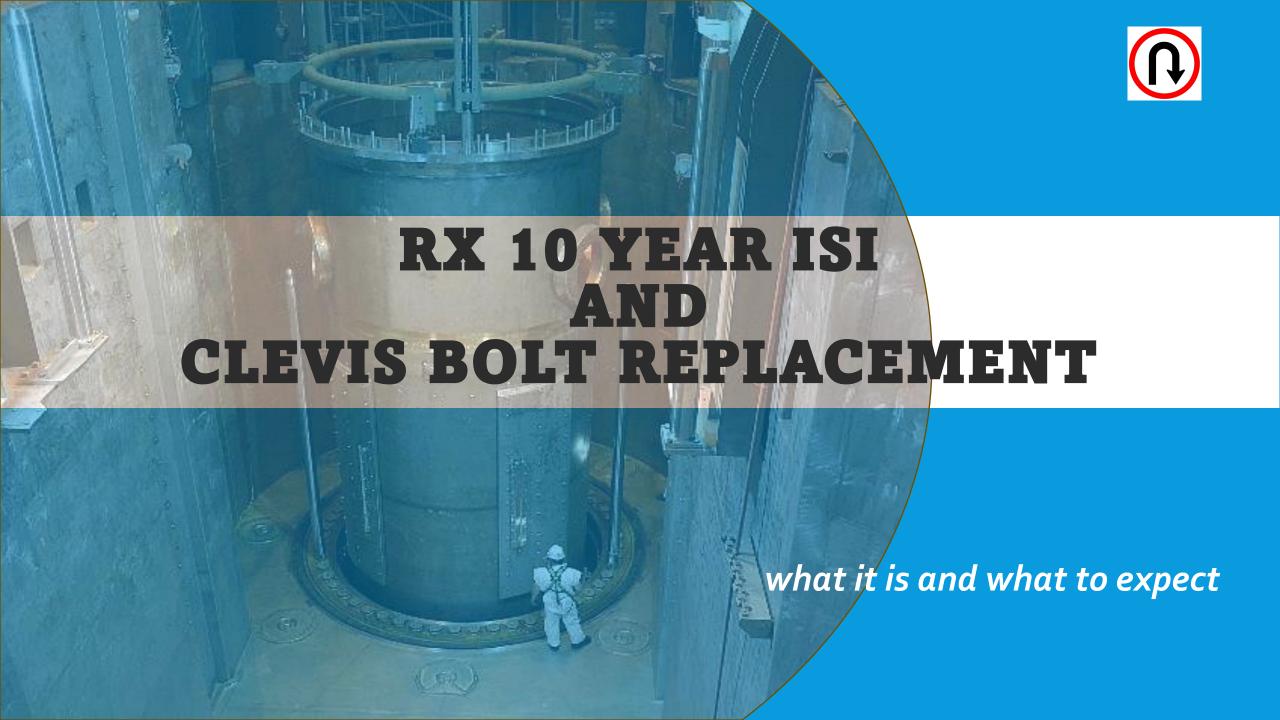




Dose Performance				
	Dose (rem)	Time (hours)		
Projected (Original)	10.000	7,580		
Projected (Revised)	17.500	15,778		
Actual	16,364	18,186		
% of Projection Used	93.5%	115%		
Other Data (as applicable)				
Total (RCA Entries)	5,866			
Effective Dose Rate	0.90 mr/m-hr			
Maximum Dose Rate	846 mr/hr			
Personnel Contaminations	18			
Respirators Used (Y/N)	Y			

# RP ALARA Conference ISI 10YR RV Inspection







#### 10 Year ISI

- Purpose
- Summary of Inspections
- Additional Inspections
- Inspection Process
- Lessons Learned

#### **OBJECTIVES**

#### Clevis Bolt Replacement

- Purpose/Industry Guidance
- Replacement Process and Tooling
- Radiological Considerations
- Lessons Learned



## 10-YEAR ISI Purpose

- Periodic inspection of the Rx Vessel, Lower Internals, and Upper Internals to determine condition of bolts, welds, and wear components.
- Combination of visual and ultrasonic tests
- Owned by site engineering, but typically contracted out to a vendor
  - · Infrequently performed
  - Specialized equipment
- Some inspection requirements within 10-Year ISI program have 20-year periodicity due to program revisions
  - Last inspection may be different from upcoming inspection



#### 10-YEAR ISI Inspections

- Rx Vessel ISI
  - VT exams via mini-sub
  - *UT exams via robot*
  - VT of interior and exterior surface
  - VT of core support structure
  - UT of pressure retaining welds
  - UT of HL and CL nozzle welds
  - VT of interior welded attachments
  - VT of nozzle interior radius
  - VT of welded core support structure
    - includes components of Upper and Lower Internals

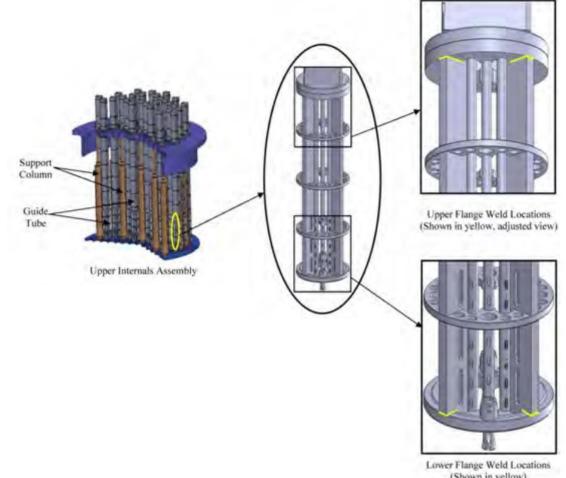
## 10-YEAR ISI Additional Inspections - MRP 227 VT Exams

- Guide Tube upper and lower flange welds
- Core Barrel upper and lower girth welds
- Core Barrel middle and lower axial welds
- Thermal Shield Support Block Bolts (top of core barrel)
- Core Barrel Thermal Shield Flexures (bottom of core barrel)
- Upper Internals core plate
- Clevis insert bolts
- Lower core plate fuel alignment pins
- Baffle assembly and baffle-edge bolts



## 10-YEAR ISI Additional Inspections – MRP 227

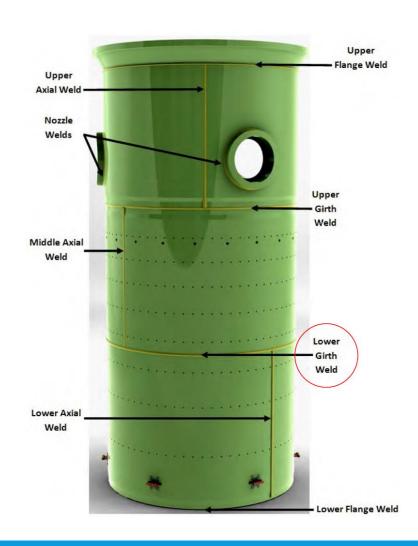
Upper and Lower Flange Welds



(Shown in yellow)



#### 10-YEAR ISI



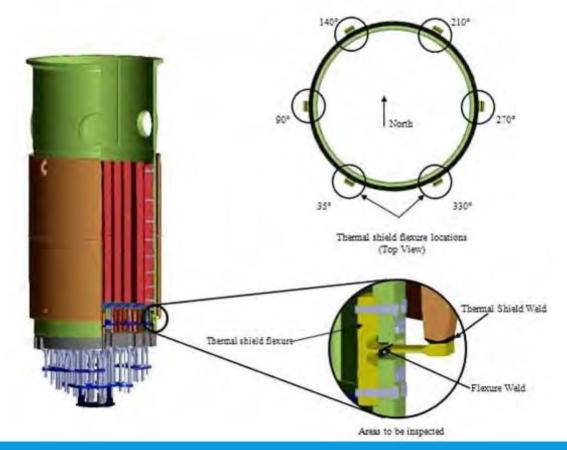
### **Additional Inspections – MRP 227**

- Core Barrel upper and lower girth welds
- Core Barrel middle and lower axial welds



# 10-YEAR ISI Additional Inspections – MRP 227

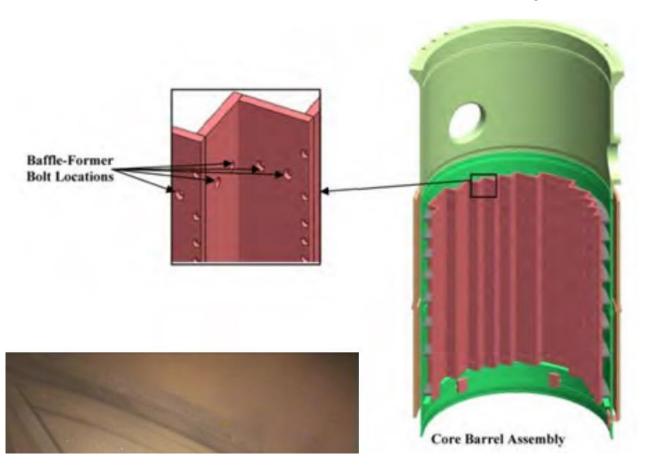
- Thermal Shield Support Block Bolts (top of core barrel)
- Core Barrel Thermal Shield Flexures (bottom of core barrel)





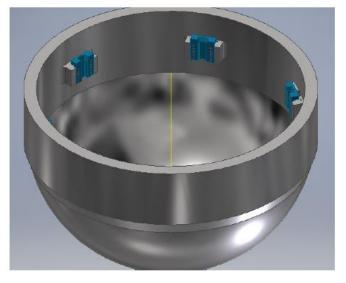
# 10-YEAR ISI Additional Inspections – MRP 227

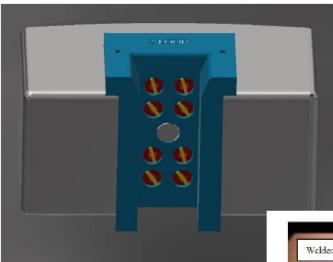
Baffle assembly and baffle-edge bolts





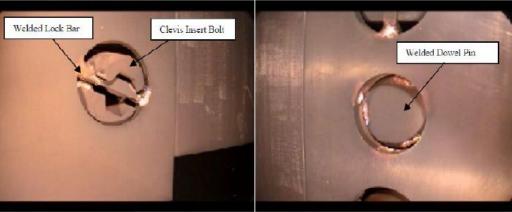
# 10-YEAR ISI





# Additional Inspections – Clevis Bolt UT Exams

- UT Clevis Insert bolts and dowel pin
  - 6 equally spaced supports around the Rx Vessel just above the lower dome
  - Supports/aligns the lower core barrel





# 10-YEAR ISI Inspection Process

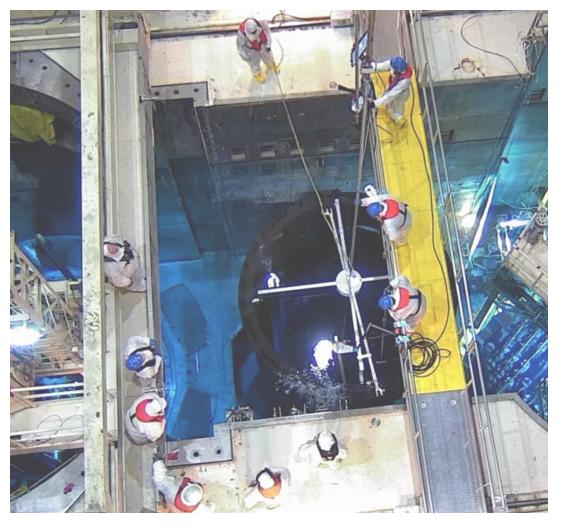
- Rx Vessel inspections performed using Refueling Bridge
- Upper/Lower Internals inspections performed in Equipment Pit using temporary Aux Bridge
- Laydown area established near Rx Cavity for tool and endeffector changes
- Shielding on floor of Aux Bridge
  - Reduced dose rates to 5 mrem/hr (vs unshielded 10-20 mrem/hr)
- RVISI inspections with robot/mini-sub deployed into Rx Cavity water, inspections performed remotely
- Most MRP-227 inspections performed with long-handled tools from Aux Bridge
- Clevis Bolts inspections with long-handled tool to deploy UT probe



# 10-YEAR ISI Radiological Considerations

- Mini-sub inspections of suspended Core Barrel
- Dislodging radioactive material from Rx surfaces
- Removing tools/robots from Rx Cavity water
- Changing robot tools that have been in contact with Rx surfaces
  - 2,000,000 dpm/100cm<sup>2</sup> prior to decon
- RCA hour management above the Rx Cavity

# 10-YEAR ISI



# **Lessons Learned**



• Estimate: 1.300 REM / 843 Hours

Actual: 3.189 REM / 2,539 Hours

Significantly underestimated support personnel

	REM		Hours	
Work Description	Inspection	Support	Inspection	Support
10 Year Rx Vessel ISI – Visual and UT	1.079	0.889	768	961
MRP-227 Inspection	0.862	0.049	490	74
Clevis Bolt Inspection	0.095	0.215	46	200
Totals:	2.036	1.153	1,304	1,235

- Delayed planning input from vendor
- Clevis Bolt as-built discrepancies required troubleshooting and tool modification
- Software difficulties when changing tools
- Poor communication from work group to site (including ALARA) during challenges
- Bubbles from Tri-Nuke collected on cameras and inspection locations

# RP ALARA Conference Meeting Critique



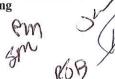


Name:	RMillos	
Utility: _	LGS-constellation	_



Winter 2024 \*\*\* Key West, FL \*\*\* January 22-24, 2024

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 (summer meetings only):
Technical Content: Good = nothing to high level
Vendor Participation: Very good tinformative
Meeting Format (Breakout Session vs. Presentation, etc.): Good
Facilities (Meeting Room, Hotel Facilities, Location, etc.): Cold -> but wally nice
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 session, technology presentation, survey, etc.):  Maybe were hands on start - Showleds other their program
Please provide suggestions for Board activities or actions which would help justify your company's continued participation in the RP-ALARA Association:  Would like to get more tidbils from the after sites
Other Comments: Nery Knewledgeble
Do you anticipate your plant being represented by you or another representative at the Summer 2024 Meeting in Portland, ME? If not, why?
Return completed form to the Committee Secretary prior to the end of the meeting





Optional	
Name: David Hendrick S	
Utility: Dominion Energy	
North Anna	



Winter 2024 \*\*\* Key West, FL \*\*\* January 22-24, 2024

Plant Status Reports (summer meetings only):
Technical Content: Very good information having not been to a meeting before.  All levels of participation from technician to SR. Management but  Conversations were praintained for all to understand.
Vendor Participation: Under perticipation was excellent with a lot of good information. Some vendors about at booths brevery interface time frame
Meeting Format (Breakout Session vs. Presentation, etc.):  Sufficient  Could build in a few more short 10 min, breaks so information is not missed while absent  (Ex. restroom breaks)
Facilities (Meeting Room, Hotel Facilities, Location, etc.):  Satisfactory, kery accomplating  Keys may not allow some aftendence due to cost in but I loved it!  If degrees at home Low  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 session, 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:  We typically send one person every winter meeting - good benchmark  oppuraturity  Costs is probably determining factor
Other Comments:
Do you anticipate your plant being represented by you or another representative at the Summer 2024 Meeting in Portland, ME? If not, why?  Typically only winter meeting - See above  I would love to attend Summer meeting  Return completed form to the Committee Secretary prior to the end of the meeting

Bon /	(1)
RP-ALARA AND AND AND AND AND AND AND AND AND AN	
ASSOCIATION	

Name: Syan Grown .
Utility: Energy Harbor

KZ LO aw em

Winter 2024 \*\*\* Key West, FL \*\*\* January 22-24, 2024

#### **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 (summer meetings only):
Technical Content: Lasallos pressantation = A+
Vendor Participation:
Meeting Format (Breakout Session vs. Presentation, etc.): Consider 32thing vand 5 min prosephythous earlier in week - earlier to 3?meflen after house presentations
Facilities (Meeting Room, Hotel Facilities, Location, etc.): Excellent tord & food 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 session, technology presentation, survey, etc.):  Engineering cooperation seems to be major challenged buccess story presentation?
Please provide suggestions for Board activities or actions which would help justify your company's continued participation in the RP-ALARA Association:
Other Comments: Publish rough timeline early to help w/
Do you anticipate your plant being represented by you or another representative at the Summer 2024 Meeting in Portland, ME?

D gan





Name: Jordh Mooga-Utility: STr

FM

Winter 2024 \*\*\* Key West, FL \*\*\* January 22-24, 2024

**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 Re	eports (summer meetings only): Change to every meeting
Technical Cont	ent: Seen it book datebese presentation
Vendor Particip	pation: book, maybe more vendors with
Meeting Forma	pation: bool, maybe more vendors with  Al power point first  It (Breakout Session vs. Presentation, etc.): 660d no 155 120;  In resturent nut ideal
Facilities (Meet	red large room with 50 may people
specific recomn	topics you would like to see the Board address in the future. Also include nendations relative to the suggested presentation format, where possible session, technology presentation, survey, etc.): EPRI RILLS;
The state of the s	suggestions for Board activities or actions which would help justify your tinued participation in the RP-ALARA Association:
Other Commen	nts: None
Do you anticipa Summer 2024 N	nte your plant being represented by you or another representative at the Meeting in Portland, ME? <u>\frac{\frac{1}{2} \to 1}{2}</u> If not, why?
	S

£/



Optional			
Name:_	ADAM CARTATAIRA		
Utility:	BARAKAH		



Winter 2024 \*\*\* Key West, FL \*\*\* January 22-24, 2024

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 (summer meetings only):
Technical Content: OVERALL DESCUSSION WAS GOOD. IDEAS AND SOLUTIONS WERE USEFUL. VENDOR INTERACTION WAS EXTREMELY ON POONT.
Vendor Participation: THE CURTENT FORMAT IS SEEAT BUT WE SHOUD VIDEO A PROSENTATION FROM EACH VENDOR AND POST A LINK ON RPALARA WEBSTTE Meeting Format (Breakout Session vs. Presentation, etc.):
Facilities (Meeting Room, Hotel Facilities, Location, etc.): 50PECS!
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 session, technology presentation, survey, etc.): TOPES SHOULD BE CATHERED BASED ON FEEDBACK FROM MEMBERS (FELL BUT FORM A FEW MONTHS BEFORE MEETZNG) PREDETEZE AND THEN GATHER TECHNICAL DOCUMENTS AND PERHADS SIME TO DESCUES.  Please provide suggestions for Board activities or actions which would help justify your company's continued participation in the RP-ALARA Association: THERE SHOULD BE A FEMAL REPORT WITH PHORS OF TARRESTANTS.  VENDORS ALL DOCS TECHTED TO DESCUES COMPACED
Other Comments: ONESTIONARE FERMS SHOULD BE EN A COUPLE OF IPADS 50 THE CONTENT CAN BE EASELY MOUED INTO A FENAL REPORT  Do you anticipate your plant being represented by you or another representative at the Summer 2024 Meeting in Portland, ME? NO If not, why?
SEPTEMBER CUTACE  Return completed form to the Committee Secretary prior to the end of the meeting





Optional

Name: 12 Losson

Utility: College Cliffs

Winter 2024 \*\*\* Key West, FL \*\*\* January 22-24, 2024

#### 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 (summer meetings only):
Technical Content: No Chouses
Vendor Participation: IncreDible Vendor Porticpotion.
Meeting Format (Breakout Session vs. Presentation, etc.):
Facilities (Meeting Room, Hotel Facilities, Location, etc.): Meeting romality cold
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 session, 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:  It's that for colvert to affect the winter meet of their on the heels of their outage. So bosed on what outage work is ploud determined out after the other comments:
Do you anticipate your plant being represented by you or another representative at the Summer 2024 Meeting in Portland, ME? If not, why?
Return completed form to the Committee Secretary prior to the end of the meeting

& of	
RP-ALARA ASSOCIATION	1
7.00001711014	V



Name:	Joe Coughho
Utility:	Braid wood

44 \*\*\* Kou Wood El \*\*\* January 22 24 2024

Winter 2024 \*\*\* Key West, FL \*\*\* January 22-24, 2024

## **MEETING CRITIQUE**

The goal is to meet your expectations regard comments and suggestions regarding the following	ling this meeting. Please help us by providing your llowing:	
Plant Status Reports (summer meetings only):		
Technical Content:		
Vendor Participation: great	A Hendunce	
Meeting Format (Breakout Session vs. Presentation, etc.): Night on time		
Facilities (Meeting Room, Hotel Facilities, Location, etc.): <u>Needed more</u>		
specific recommendations relative to the s (e.g. breakout session, technology present	e the Board address in the future. Also include suggested presentation format, where possible tation, survey, etc.):	
Please provide suggestions for Board acticompany's continued participation in the	vities or actions which would help justify your RP-ALARA Association:	
Other Comments: 13199ER +ab	le Name tags	
Do you anticipate your plant being repres Summer 2024 Meeting in Portland, ME?	sented by you or another representative at the If not, why?	

4000)

(3)





		Optional
ame:	ADAM	GILLIAM

Utility: CALLAWAY

10 em

010

Winter 2024 \*\*\* Key West, FL \*\*\* January 22-24, 2024

# MEETING CRITIQUE

comments and suggestions regarding the following:	ous by providing your
Plant Status Reports (summer meetings only):	
Technical Content: Im TAKING SEIGRAL ITEMS BACK PRESENTATION ON DATA IS A TOUGH SURVEY BUT INTO IT BASED	ENDED UP A LITTL
Vendor Participation: 6000 INTERACTIONS VITH VENDO	
Meeting Format (Breakout Session vs. Presentation, etc.): Cooks .	'CE STRUCTURE
Facilities (Meeting Room, Hotel Facilities, Location, etc.): No Is	SSUES; LOCATION 1
Please list any topics you would like to see the Board address in the form specific recommendations relative to the suggested presentation form (e.g. breakout session, technology presentation, survey, etc.):	at, where possible
Please provide suggestions for Board activities or actions which woul company's continued participation in the RP-ALARA Association:  Nore, for he amendames once A Jear 15	
Other Comments:	
Do you anticipate your plant being represented by you or another rep	

Return completed form to the Committee Secretary prior to the end of the meeting

YEAR

WW

A Burn





	0 1	Optional	
Name:_	ECIX	MATTINEZ	
Utility:	OCOP	)	

RSP

Winter 2024 \*\*\* Key West, FL \*\*\* January 22-24, 2024

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 (summer meetings only): NA
Technical Content: Content was engineering well.
Vendor Participation: Vendors were very uncagnic
Meeting Format (Breakout Session vs. Presentation, etc.):
Facilities (Meeting Room, Hotel Facilities, Location, etc.):
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 session, 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:
NO ADDITIONAL SUCCESSIONS. NOW THAT WE'RE RELICENSING, THE STATION WANTS BEACHMANIGUE
Other Comments: None AT THIS TIME
Do you anticipate your plant being represented by you or another representative at the Summer 2024 Meeting in Portland, ME? MAY IF If not, why?  WE HAVE AN ISSE ISSES CAMPRICIO IN 8 (2024, WORLD! BEGINS MAY JUNE 6)  Return completed form to the Committee Secretary prior to the end of the meeting
Return completed form to the Committee Secretary prior to the end of the meeting





Name:_	John Hertz	
Utility:	TVA-Sequeryah	

Winter 2024 \*\*\* Key West, FL \*\*\* January 22-24, 2024

The goal is to meet your expectations regarding this meeting. Please help us by providing you comments and suggestions regarding the following:	ır
Plant Status Reports (summer meetings only):	
Technical Content: Useful	
Vendor Participation: great! Graffel was never there it seemed	/
Meeting Format (Breakout Session vs. Presentation, etc.): <u>need</u> better <u>presentation</u>	ters
Facilities (Meeting Room, Hotel Facilities, Location, etc.):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 session, technology presentation, survey, etc.):  - Cobalt reduction programs	
Please provide suggestions for Board activities or actions which would help justify your company's continued participation in the RP-ALARA Association:  - can NSt get Microsoft Leve?	
Other Comments:	<u> </u>
Do you anticipate your plant being represented by you or another representative at the Summer 2024 Meeting in Portland, ME?	
Detum completed form to the Committee Secretary with the and of the mosting	





Name: Knowda Bewley
Utility: Wolf Creek

Winter 2024 \*\*\* Key West, FL \*\*\* January 22-24, 2024

MEETING CRITIQUE

rso

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 (summer meetings only):
Technical Content: With Feeh nology ever Changing, here may not be on the harding edge of the latest. and greatest that can be brought up in the meeting
Great Way to Su new products
Meeting Format (Breakout Session vs. Presentation, etc.): the leads clip a good Job Keeping wellow he had and Convasation thowing. I weally like the input from different fronk. Bushout Sissions were kind of land distracting affected fronk fronk. Bushout Facilities (Meeting Room, Hotel Facilities, Location, etc.): Location is Fan tastic Rooms and Facilities were asleguate Combottable, temp was Good, food was good, display Could have Been Bioght
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 session, technology presentation, survey, etc.): Lively planning
Please provide suggestions for Board activities or actions which would help justify your company's continued participation in the RP-ALARA Association:  Create Contacts performed in the Line working. I like what musting
Other Comments: Very informative meeting aread way to make Contacts great way to nitwork
Do you anticipate your plant being represented by you or another representative at the Summer 2024 Meeting in Portland, ME? Linkows If not, why?  Budget and autilblity of time of or away from the

Return completed form to the Committee Secretary prior to the end of the meeting

JH.





Optional دعیدلم

Winter 2024 \*\*\* Key West, FL \*\*\* January 22-24, 2024

Name: Scott Utility: Const

## **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 (summer meetings only):
Technical Content: Vary good - World like to see a INFO, NEI, ERI OF WAS FRESO WARY MEETING
Vendor Participation: Great two out and Support
Meeting Format (Breakout Session vs. Presentation, etc.): <u>sleeded more him</u>
Facilities (Meeting Room, Hotel Facilities, Location, etc.):
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 session, technology presentation, survey, etc.):    Vandor   V
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 2024 Meeting in Portland, ME? <u>Yes</u> If not, why?





Name: Poug Van Hoorebeck
Utility: Pominion / Surry

Winter 2024 \*\*\* Key West, FL \*\*\* January 22-24, 2024

#### **MEETING CRITIQUE**

EM

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 (summer meetings only):	
Technical Content:	
Vendor Participation: Enthusiastic Support Great Team	
Meeting Format (Breakout Session vs. Presentation, etc.):	
Facilities (Meeting Room, Hotel Facilities, Location, etc.):  Overall Excellent Conference Room was a lift fight this time but it was a very big two out	
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 session, technology presentation, survey, etc.):  Source Term Reduction options.	
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 2024 Meeting in Portland, ME? No If not, why?  Staffing, Vacations, ontage planning. But it sounds  Return completed form to the Committee Secretary prior to the end of the meeting	

9 m





Maran	Optional	
Name:		
Utility:		

EM

Winter 2024 \*\*\* Key West, FL \*\*\* January 22-24, 2024

## **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 (summer meetings only):
Technical Content: Good
Vendor Participation:
Meeting Format (Breakout Session vs. Presentation, etc.): Good Need to be able to have shareable presentations
There is the able to have shareable presentations
Facilities (Meeting Room, Hotel Facilities, Location, etc.):
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 session, technology presentation, survey, etc.): evaluating dose estimate effectiveness
Please provide suggestions for Board activities or actions which would help justify your company's continued participation in the RP-ALARA Association:  Once savings  and ROI fee implementation of activities
Other Comments:
Do you anticipate your plant being represented by you or another representative at the Summer 2024 Meeting in Portland, ME? <u>YES</u> If not, why?

Return completed form to the Committee Secretary prior to the end of the meeting

J 0583 7