

HIGH INTEREST TOPIC AND QUESTIONNAIRE

PWR ALARA Association Key West, FL January 23-25, 2018

Topic: *Do you Report Estimated DLR Dose to Info Before the DLR Read, or Report monthly ED*

Name: _____ Contact Info: _____

Contact (Name)	Plant	NSSS	Comments
<i>MARK SMITH</i>	<i>ANO 2,1</i>	<i>CE, B&W</i>	<i>ED THEN UPDATE AFTER READ</i>
<i>Jeff Fontaine</i>	<i>Beaver Valley 1,2</i>	<i>3LW</i>	<i>Monthly ED</i>
<i>J Coughlin</i>	<i>Braidwood 1,2</i>	<i>4LW</i>	<i>ED</i>
<i>Scott Leach</i>	<i>Byron 1,2</i>	<i>4LW</i>	<i>ED</i>
<i>VonDerHart</i>	<i>Callaway</i>	<i>4LW</i>	<i>ED monthly</i>
<i>Poy Lopez</i>	<i>Calvert Cliffs</i>	<i>CE</i>	<i>ED at first update once reads are in</i>
<i>John Cooper</i>	<i>Catawba 1,2</i>	<i>4LW</i>	<i>ED</i>
	<i>Davis Besse</i>	<i>B&W</i>	
<i>David W. Miller</i>	<i>DC Cook 1,2</i>	<i>4LW</i>	<i>ED</i>
	<i>Diablo Canyon 1,2</i>	<i>4LW</i>	
<i>Ray Bryant</i>	<i>Farley 1,2</i>	<i>3LW</i>	<i>MONTHLY ED Then UPDATE</i>
	<i>Ft. Calhoun</i>	<i>CE</i>	
<i>Chris Simpley</i>	<i>Ginna</i>	<i>2LW</i>	<i>ED</i>
	<i>Harris</i>	<i>3LW</i>	<i>ED, updates after DLR reads</i>
	<i>Indian Point 2,3</i>	<i>4LW</i>	
	<i>Kewaunee</i>	<i>2LW</i>	
<i>S. Lisi</i>	<i>McGuire 1,2</i>	<i>4LW</i>	<i>estimated DLR, updated when it comes</i>
	<i>Millstone 3,2</i>	<i>4LW, CE</i>	
<i>Chanel A Conroy</i>	<i>North Anna 1,2</i>	<i>3LW</i>	<i>Monthly</i>
<i>Phil Kelley</i>	<i>Oconee 1,2,3</i>	<i>B&W</i>	<i>ED monthly</i>
<i>Henry Miller</i>	<i>Palisades</i>	<i>CE</i>	<i>MONTHLY SRD THEN READJUST LATER</i>
	<i>Palo Verde 1,2,3</i>	<i>CE</i>	

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HIGH INTEREST TOPIC AND QUESTIONNAIRE
PWR ALARA Association Key West, FL January 23-25, 2018

Topic: *Do you Report estimated DLR to InPC Before the DLR Read?*

Name:

Contact Info:

Contact (Name)	Plant	NSSS	Comments
	Point Beach 1,2	2LW	
<i>Don Mark</i>	Prairie Island 1,2	2LW	<i>No</i>
<i>Christy Branham</i>	Robinson	3LW	<i>Monthly est. DLR dose then correct if needed once reads come back</i>
	Salem 1,2	4LW	
	San Onofre 2,3	CE	
<i>Boehl</i>	Seabrook	4LW	<i>Seabrook Reports ETD monthly</i>
<i>Fuller</i>	Sequoyah 1,2	4LW	<i>No. Burned in the past by 6% saving becoming 1% loss!</i>
	Sizewell B	4LW	
	South Texas 1,2	4LW	
	St. Lucie 1,2	CE	
	Surry 1,2	3LW	
<i>Steve Edelman</i>	TMI	B&W	<i>ED ... update with DLR when received</i>
<i>Duane Hutchinson</i>	Turkey Point 1,2	3LW	<i>No, investigating reporting projection prior to TLD correction results are available</i>
<i>Jason RICHART</i>	VC Summer	3LW	<i>MONTHLY ED DOSE</i>
<i>Mwilliams</i>	Vogtle 1,2	4LW	<i>NO</i>
	Waterford	CE	
	Watts Bar	4LW	
	Wolf Creek	4LW	
	EDF		
	AREVA		
	BWXT		

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HIGH INTEREST TOPIC AND QUESTIONNAIRE
PWR ALARA Association Key West, FL January 23-25, 2018

Topic: *See other side.*

Name: *Duane Hutchinson*

Contact Info: *duane.hutchinson@fpl.com
(305) 878-0447*

Contact (Name)	Plant	NSSS	Comments
<i>M. SMITH</i>	ANO 2,1	CE, B&W	<i>THESE HAVE THEIR OWN RWPs THAT ARE CONSIDERED AS "BULK WORK" AND ARE NOT SUBJECT TO AMC REVIEW</i>
<i>Jeffrey Fontaine</i>	Beaver Valley 1,2	3LW	<i>Each is treated as a project and must have JAC review</i>
<i>Joe Coughlin</i>	Braidwood 1,2	4LW	<i>Yes all separate RWPs + ALARA Plans</i>
<i>Scott Leach</i>	Byron 1,2	4LW	<i>Yes, same as Braidwood</i>
<i>Vonderhaar</i>	Callaway	4LW	<i>NOT Insulation, we do scaffold. NO PRC REVIEW</i>
<i>Roy Lopez</i>	Calvert Cliffs	CE	<i>Yes + RWP + ALARA Plan written for I.S.I. or job</i>
<i>John Cooper</i>	Catawba 1,2	4LW	<i>All these are considered Bulk, unless an individual value is over 500 mrem</i>
	Davis Besse	B&W	
<i>David W. Miller</i>	DC Cook 1,2	4LW	<i>Yes, These activities are important to have ALARA Review, on appropriate.</i>
	Diablo Canyon 1,2	4LW	
<i>Ray Bryant</i>	Farley 1,2	3LW	<i>Yes, And we TRACK EACH SEPARATE</i>
	Ft. Calhoun	CE	
	Ginna	2LW	<i>YES - Separate RWPs & ALARA Plans</i>
<i>Seaback</i>	Harris	3LW	<i>NOT considered bulk, but I.S.I. has been challenged AT OUR OTHER SITES - SO ALARA Plans</i>
	Indian Point 2,3	4LW	
	Kewaunee	2LW	
<i>S. Lipsi</i>	McGuire 1,2	4LW	<i>BULK WORK, TRACKED</i>
	Millstone 3,2	4LW, CE	
<i>Chandel A Conway</i>	North Anna 1,2	3LW	<i>Yes, each sep. RWP & ALARA PLAN</i>
<i>Phil Kelly</i>	Oconee 1,2,3	B&W	<i>Bulk work</i>
<i>MILLER</i>	Palisades	CE	<i>THESE JOBS ARE DIFFERENT EVERY OUTAGE SO ARE MADE SPECIFIC RWP - NO BULK/GENERAL</i>
	Palo Verde 1,2,3	CE	

HIGH INTEREST TOPIC AND QUESTIONNAIRE
PWR ALARA Association Key West, FL January 23-25, 2018

Topic: Does your site/Fleet consider scaffold, valves, insulation, ISI as Jobs and are tracked as Major Jobs during outages having ALARA Reviews?
 Name: Duane Hutchinson Contact Info: duane.hutchinson@fpl.com
 (305) 878-0447

Contact (Name)	Plant	NSSS	Comments
	Point Beach 1,2	2LW	
Daniel Mat	Prairie Island 1,2	2LW	Yes,
C. Branham	Robinson	3LW	Yes, all sep. w/ RWP is + plans
	Salem 1,2	4LW	
	San Onofre 2,3	CE	
Boehl	Seabrook	4LW	All items listed have ALARA Reviews.
Fidler	Sequoyah 1,2	4LW	Yes. All have separate ALARA plans.
	Sizewell B	4LW	
	South Texas 1,2	4LW	
	St. Lucie 1,2	CE	
	Surry 1,2	3LW	
Steve Edelman	TMI	B&W	Yes
Duane Hutchinson	Turkey Point 1,2	3LW	Investigating. I believe that they are all jobs/ALARA Reviews
JASON RISEHART	VC Summer	3LW	YES
Williams	Vogtle 1,2	4LW	our procedure does not recognize boiler work we track them and perform Reviews as needed
	Waterford	CE	
	Watts Bar	4LW	
John Guffe	Wolf Creek	4LW	Yes
	EDF		
	AREVA		
	BWXT		

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HIGH INTEREST TOPIC AND QUESTIONNAIRE

PWR ALARA Association

Key West, FL

January 23-25, 2018

Topic: Alpha Airborne Monitoring - Do you use a CAM and if so which one

Name: Jeff Fontaine

Contact Info: Beaver Valley

Contact (Name)	Plant	NSSS	Comments
M. SMITH	ANO 2,1	CE, B&W	NO LABEL A/S FOR DOSE ASSIGNMENT LEVEL 2+3
<u>Jeff Fontaine</u>	Beaver Valley 1,2	3LW	<u>No</u>
<u>J Coughlin</u>	Braidwood 1,2	4LW	<u>AMS-4</u>
<u>S. Leach</u>	Byron 1,2	4LW	<u>AMS-4</u>
<u>Vonderhaar</u>	Callaway	4LW	<u>NO</u>
<u>Roy Lopez</u>	Calvert Cliffs	CE	<u>AMS-4</u>
<u>John Cooper</u>	Catawba 1,2	4LW	<u>No</u>
	Davis Besse	B&W	
<u>DAVID W MILLER</u>	DC Cook 1,2	4LW	<u>AMS-4</u>
	Diablo Canyon 1,2	4LW	
<u>RAY BRYANT</u>	Farley 1,2	3LW	<u>AMS-4</u>
	Ft. Calhoun	CE	
<u>Bingy Seabolt</u>	Ginna	2LW	<u>AMS-4</u>
	Harris	3LW	<u>no, labels in unit 2 or higher</u>
	Indian Point 2,3	4LW	
	Kewaunee	2LW	
<u>S. Lisi</u>	McGuire 1,2	4LW	<u>yes AMS-4</u>
	Millstone 3,2	4LW, CE	
<u>Chandler Alonzo</u>	North Anna 1,2	3LW	<u>yes, no & disconnected</u>
<u>Phil Kelly</u>	Oconee 1,2,3	B&W	<u>yes AMS-4</u>
<u>MILLER</u>	Palisades	CE	<u>BREATHING ZONES (LABELS ONLY!)</u>
	Palo Verde 1,2,3	CE	

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HIGH INTEREST TOPIC AND QUESTIONNAIRE
PWR ALARA Association Key West, FL January 23-25, 2018

Topic: *Alpha Airborne monitoring - Do you use a CAM, if so which one?*

Name: *Jeff Fontaine*

Contact Info: *Beaver Valley*

Contact (Name)	Plant	NSSS	Comments
	Point Beach 1,2	2LW	
<i>David M. A.</i>	Prairie Island 1,2	2LW	<i>No I-CAMS did not for US.</i>
<i>C. Branham</i>	Robinson	3LW	<i>Yes, CAM's → in process of changing to ICAMS</i>
	Salem 1,2	4LW	
	San Onofre 2,3	CE	
<i>Boehl</i>	Seabrook	4LW	<i>We use Cam's, no 2 Discrimination.</i>
<i>Filer</i>	Sequoyah 1,2	4LW	<i>Yes. Monitor</i>
	Sizewell B	4LW	
	South Texas 1,2	4LW	
	St. Lucie 1,2	CE	
	Surry 1,2	3LW	
<i>Steve Edelmar</i>	TMI	B&W	<i>AMS-4</i>
<i>Duane Hutchinson</i>	Turkey Point 1,2	3 3LW	<i>We use CAMS, no 2 discrimination either</i>
<i>JASON R. NEHART</i>	VC Summer	3LW	<i>NO</i>
<i>E. Fulghum</i>	Vogtle 1,2	4LW	<i>County purchased more ABPMs + AMS-4 units, Alpha procedure. Require PA5 level A/S</i>
	Waterford	CE	
	Watts Bar	4LW	
<i>J. Cuffe</i>	Wolf Creek	4LW	<i>No</i>
	EDF		
	AREVA		
	BWXT		

HIGH INTEREST TOPIC AND QUESTIONNAIRE
PWR ALARA Association Key West, FL January 23-25, 2018

Topic: *See other side.*

Name: *Duane Hutchinson*

Contact Info: *duane.hutchinson@Fpl.com
(305) 878-0447*

Contact (Name)	Plant	NSSS	Comments
<i>M. SMITH</i>	ANO 2,1	CE, B&W	<i>NO</i>
<i>JEFF Fontaine</i>	Beaver Valley 1,2	3LW	<i>NO</i>
<i>J. Coughlin</i>	Braidwood 1,2	4LW	<i>NO</i>
<i>S. Leach</i>	Byron 1,2	4LW	<i>NO</i>
<i>Vonderhaar</i>	Callaway	4LW	<i>NO</i>
<i>Roy Lopez</i>	Calvert Cliffs	CE	<i>NO</i>
<i>John Cooper</i>	Catawba 1,2	4LW	<i>wrench</i> <i>wrench crank</i>
	Davis Besse	B&W	
<i>DAVID W. MILLER</i>	DC Cook 1,2	4LW	<i>NO</i>
	Diablo Canyon 1,2	4LW	
<i>RAY BRYANT</i>	Farley 1,2	3LW	<i>NO wrench</i>
<i>-</i>	Ft. Calhoun	CE	
<i>OSingley</i>	Ginna	2LW	<i>NO</i>
<i>Seebek</i>	Harris	3LW	<i>yes, send me email for follow-up</i>
	Indian Point 2,3	4LW	
	Kewaunee	2LW	
<i>S. Hisi</i>	McGuire 1,2	4LW	<i>NO</i>
	Millstone 3,2	4LW, CE	
<i>Chandel A Conway</i>	North Anna 1,2	3LW	<i>OK</i> <i>NO</i>
<i>Phil Kelley</i>	Oconee 1,2,3	B&W	<i>NO</i>
<i>MILLER</i>	Palisades	CE	<i>NO</i>
	Palo Verde 1,2,3	CE	

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HIGH INTEREST TOPIC AND QUESTIONNAIRE
PWR ALARA Association Key West, FL January 23-25, 2018

Topic: *Do you use Steam Generator Primary Manway Lifting & Lowering Elevators? How much dose is it saving you?*

Name: *Duane Hutchinson*

Contact Info: *duane.hutchinson@fpl.com
(305) 878-0447*

Contact (Name)	Plant	NSSS	Comments
	Point Beach 1,2	2LW	
<i>Dave Mast</i>	Prairie Island 1,2	2LW	<i>No</i>
	Robinson	3LW	
	Salem 1,2	4LW	
	San Onofre 2,3	CE	
	Seabrook	4LW	
<i>Fuller</i>	Sequoyah 1,2	4LW	<i>Yes, 2 Rem (last time calculated)</i>
	Sizewell B	4LW	
	South Texas 1,2	4LW	
	St. Lucie 1,2	CE	
	Surry 1,2	3LW	
<i>Steve Edman</i>	TMI	B&W	<i>No</i>
<i>Duane Hutchinson</i>	Turkey Point 1,2	3LW	
<i>Jason Reinhardt</i>	VC Summer	3LW	<i>Yes, NOT SURE OF SAVINGS, WE HAVE ALWAYS HAD THEM.</i>
<i>E. Fulghum</i>	Vogtle 1,2	4LW	<i>No, Wench utilized.</i>
	Waterford	CE	
	Watts Bar	4LW	
<i>J. Luffe</i>	Wolf Creek	4LW	<i>Yes not sure of the savings</i>
	EDF		
	AREVA		
	BWXT		

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HIGH INTEREST TOPIC AND QUESTIONNAIRE

PWR ALARA Association Key West, FL January 23-25, 2018

Topic: How many people do you have working in ALARA Online and during outages?
 Name: Duane Hutchinson Contact Info: duane.hutchinson@fpl.com
305 878 0447

Contact (Name)	Plant	NSSS	Comments
M. SMITH	ANO 2,1	CE, B&W	ONLINE 2 OUTAGE PLANNING 2 OUTAGE 6-8
JEFF Fontaine	Beaver Valley 1,2	3LW	Online - 3 plus one Rad tech Outage - 4 plus two Rad techs
Joe Coughlin	Braidwood 1,2	4LW	online - 2 1 Full-time outage planner outage - 8
Scott Cech	Byron 1,2	4LW	online - 3 outage - 8
VonDer Haar	Callaway	4LW	online 2 plus one tech outage 3 plus one tech per 12 hr shift
Roy Lopez	Calvert Cliffs	CE	online 2 outage PLANNING 1 outage 6-8
John Cooper	Catawba 1,2	4LW	ONLINE = 3 Outage = 4
	Davis Besse	B&W	
Dario W. Miller	DC Cook 1,2	4LW	online - 3 outage - 4-5
	Diablo Canyon 1,2	4LW	
Ray Bryant	Farley 1,2	3LW	online - 2 health physicist - 1 outage outage - 2 4-outage
	Ft. Calhoun	CE	
Clifford Seabolt	Ginna	2LW	3 online 5 outage
	Harris	3LW	online 4, 1 outage planner - 3 online outage outage, maybe 2 per shift but split supporting O&C
	Indian Point 2,3	4LW	
	Kewaunee	2LW	
S. Lisi	McGuire 1,2	4LW	1-online 2-outage - 1 additional during outage
	Millstone 3,2	4LW, CE	
Chantel A Conroy	North Anna 1,2	3LW	online - 3 outage (DAY=2(+Super=3)(Nights=2)
Phil Kerley	Oconee 1,2,3	B&W	4 ALARA TECH - ONLINE & OUTAGE.
MILLER	Palisades	CE	ON-LINE 2 RP TECHS OUTAGE SUPPORT = 10 ALARA OUTAGE PLANNING 1 ALARA PLANNER RAD ENG.
	Palo Verde 1,2,3	CE	

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HIGH INTEREST TOPIC AND QUESTIONNAIRE
PWR ALARA Association Key West, FL January 23-25, 2018

Topic: *See other side -*

Name: *Duane Hutchinson*

Contact Info: *duane.hutchinson@FPL.com
305 878 0447*

Contact (Name)	Plant	NSSS	Comments
	Point Beach 1,2	2LW	
<i>D. Martin</i>	Prairie Island 1,2	2LW	<i>4 online. 2 outage</i>
<i>C. Branham</i>	Robinson	3LW	<i>Online - 3 planners, 1 scientist Outage - 2 planners, 2 contractors</i>
	Salem 1,2	4LW	
	San Onofre 2,3	CE	
	Seabrook	4LW	<i>Online 2, Offline 5 or 6</i>
<i>Fuller</i>	Sequoyah 1,2	4LW	<i>Online 4 TMA / 1 contract DZ. Outage + 1 DZ + 2 (W)</i>
	Sizewell B	4LW	
	South Texas 1,2	4LW	
	St. Lucie 1,2	CE	
	Surry 1,2	3LW	
<i>Steve Edelman</i>	TMI	B&W	<i>3 ALARA online/outage</i>
<i>Duane Hutchinson</i>	Turkey Point 1,2	3LW	<i>2 Online / 45 During Outages</i>
<i>JASON RWEHART</i>	VC Summer	3LW	<i>4 ONLINE/OUTAGE</i>
<i>Williams</i>	Vogle 1,2	4LW	<i>1 online for planning 1 outage for planning 1-2 techs online perform briefings 6 techs outage for briefings</i>
	Waterford	CE	
	Watts Bar	4LW	
<i>John Luffe</i>	Wolf Creek	4LW	<i>on-line 3 people outages 6 people -</i>
	EDF		
	AREVA		
	BWXT		

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HIGH INTEREST TOPIC AND QUESTIONNAIRE
PWR ALARA Association Key West, FL January 23-25, 2018

Topic: Would your site/fleet allow "Bulk Work" up to 25-30 Rem per outage without any real type of ALARA Review?

Name: Duane Hutchinson

Contact Info: duane.hutchinson@fpl.com
(305) 878-0447

Contact (Name)	Plant	NSSS	Comments
M. SMITH	ANO 2,1	CE, B&W	YES - PER OUR NEWLY REVISED FLEET PROCEDURE OUR SPRING OUTAGE IS 59.9 REM w/ ~13 REM TO A.M.C.
Jeff Fontaine	Beaver Valley 1,2	3LW	No. We would make shop due a presentation on top 10 work orders for them in the outage
J Coughlin	Braidwood 1,2	4LW	NO
S. Coon	Byron 1,2	4LW	NO
Vonderhaar	Callaway	4LW	NO we hope to get under 20 rem per Refuel
Roy Lopez	Calvert Cliffs	CE	No
John Cooper	Catawba 1,2	4LW	No,
	Davis Besse	B&W	
David G. Miller	DC Cook 1,2	4LW	No
	Diablo Canyon 1,2	4LW	
Kay Bryant	Farley 1,2	3LW	NO
	Ft. Calhoun	CE	
	Ginna	2LW	NO
Seabuck	Harris	3LW	Does allow bulkwork, usually 2-5 Rem - but tracked
	Indian Point 2,3	4LW	
	Kewaunee	2LW	
S. Lisi	McGuire 1,2	4LW	NO
	Millstone 3,2	4LW, CE	
Charrel A Conway	North Anna 1,2	3LW	NO
Phil Kelley	Oconee 1,2,3	B&W	NO
MILLER	Palisades	CE	WE WOULD DO "BULLDOG" Challenges, SPECIFIC RWP FOR 25-30 REM RWP. TAKE TO ALARA COMMITTEE
	Palo Verde 1,2,3	CE	

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Name: *Duane Hutchinson*

Contact Info: *duane.hutchinson@FPL.com*
305 878 0447

Contact (Name)	Plant	NSSS	Comments
	Point Beach 1,2	2LW	
<i>Dario Martin</i>	Prairie Island 1,2	2LW	<i>NO</i>
<i>C. Branham</i>	Robinson	3LW	<i>NO</i>
	Salem 1,2	4LW	
	San Onofre 2,3	CE	
<i>Boehl</i>	Seabrook	4LW	<i>I would not.</i>
<i>Fuller</i>	Sequoyah 1,2	4LW	<i>NO @ Sequoyah. Browns Ferry does it.</i>
	Sizewell B	4LW	
	South Texas 1,2	4LW	
	St. Lucie 1,2	CE	
	Surry 1,2	3LW	
<i>Steve Belman</i>	TMI	B&W	<i>NO</i>
	Turkey Point 1,2	3LW	
<i>Jason Rinehart</i>	VC Summer	3LW	<i>NO</i>
<i>Williams</i>	Vogle 1,2	4LW	<i>NO</i>
	Waterford	CE	
	Watts Bar	4LW	
<i>Jonluff</i>	Wolf Creek	4LW	<i>NO</i>
	EDF		
	AREVA		
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Topic: *Who is performing fuel cleaning*

Name: *Joe Coughlin* Contact Info: *BRW*

Contact (Name)	Plant	NSSS	Comments
<i>M. SMITH</i>	ANO 2,1	CE, B&W	<i>NOT SINCE 2012</i>
<i>Jeff Fontaine</i>	Beaver Valley 1,2	3LW	<i>No</i>
<i>Coughlin</i>	Braidwood 1,2	4LW	<i>No</i>
<i>S. Leach</i>	Byron 1,2	4LW	<i>NO</i>
<i>Vonderhew</i>	Callaway	4LW	<i>NOT any more</i>
<i>Roy Lopez</i>	Calvert Cliffs	CE	<i>No</i>
<i>John Cooper</i>	Catawba 1,2	4LW	<i>Yes</i>
	Davis Besse	B&W	
<i>David W. Miller</i>	DC Cook 1,2	4LW	<i>No</i> <i>Cook unit 1 & 2 started using PRC-01 in mid 2002</i> <i>Fuel scheduling is very clean. ^{est.} Saved \$2.5 million not doing fuel cleaning</i>
	Diablo Canyon 1,2	4LW	
<i>Ray Bryant</i>	Farley 1,2	3LW	<i>No</i>
	Ft. Calhoun	CE	
	Ginna	2LW	<i>no</i>
<i>Sebold</i>	Harris	3LW	<i>no</i>
	Indian Point 2,3	4LW	
	Kewaunee	2LW	
<i>S. Lisi</i>	McGuire 1,2	4LW	<i>yes, Fleet reactor services</i>
	Millstone 3,2	4LW, CE	
<i>Charjela Conway</i>	North Anna 1,2	3LW	<i>NO</i>
<i>Phic Kelley</i>	Oconee 1,2,3	B&W	<i>YES.</i>
<i>MILLER</i>	Palisades	CE	<i>NO</i>
	Palo Verde 1,2,3	CE	

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Topic:

Name:

Contact Info:

Contact (Name)	Plant	NSSS	Comments
	Point Beach 1,2	2LW	
David Marshall	Prairie Island 1,2	2LW	No
C. Branham	Robinson	3LW	we have in the past, but not every outage
	Salem 1,2	4LW	
	San Onofre 2,3	CE	
Boehl	Seabrook	4LW	We Do.
Fuller	Sequoyah 1,2	4LW	Yes. U1 every outage, U2 every 3 rd - Dominion Eng (via @)
	Sizewell B	4LW	
	South Texas 1,2	4LW	
	St. Lucie 1,2	CE	
	Surry 1,2	3LW	
Steve Edelman	TMI	B&W	No
Diane Hutchinson	Turkey Point 1,2	3LW	Westinghouse performs our fuel cleaning
JASON RIEHART	VC Summer	3LW	WE DO NOT PERFORM FUEL CLEANING.
E. Fulghum	Vogtle 1,2	4LW	Yes. Ultra-sonic Fuel Cleaning every cycle.
	Waterford	CE	
	Watts Bar	4LW	
John Cuffe	Wolf Creek	4LW	No
	EDF		
	AREVA		
	BWXT		

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HIGH INTEREST TOPIC AND QUESTIONNAIRE
PWR ALARA Association Key West, FL January 23-25, 2018

Topic: Does your site have a robot to access High Rad Areas
 Name: Jeff Fontaine Contact Info: Beaver Valley

Contact (Name)	Plant	NSSS	Comments
M. SMITH	ANO 2,1	CE, B&W	NO BUT LOOKING IN TO IT (DRONE PURCHASED)
Jeff Fontaine	Beaver Valley 1,2	3LW	No
J Coughlin	Braidwood 1,2	4LW	No, we Borrowed Byrons
Scott Cech	Byron 1,2	4LW	Yes, Purchased and Operated by Engineering
Vonderhaar	Callaway	4LW	NO
Roy Lopez	Calvert Cliffs	CE	No but fleet owns robot + can get if available
John Cooper	Catawba 1,2	4LW	Yes - used for filters
	Davis Besse	B&W	
Dave W. Miller	DC Cook 1,2	4LW	NO - check with Bruce, Pechung & Penington -
	Diablo Canyon 1,2	4LW	
RAY BRYANT	Farley 1,2	3LW	NO
	Ft. Calhoun	CE	
Chaply	Ginna	2LW	yes borrow DOE's & nine mile
Seabuck	Harris	3LW	7 robots, not used, 2 pack bits, 4 first locks - IRobot but ^{that} _{for engineering work in Butters were inspection}
	Indian Point 2,3	4LW	
	Kewaunee	2LW	
S. Lisi	McGuire 1,2	4LW	yes
	Millstone 3,2	4LW, CE	
Charbel Alconcy	North Anna 1,2	3LW	NO
Phic Kelly	Oconee 1,2,3	B&W	YES 3 Robots
Miller	Palisades	CE	JUST BOUGHT ONE E/ROUS ROICE
	Palo Verde 1,2,3	CE	

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HIGH INTEREST TOPIC AND QUESTIONNAIRE
PWR ALARA Association Key West, FL January 23-25, 2018

Topic: Does your site have a robot to access High Rad Areas?

Name: Jess Fontaine

Contact Info: Beaver Valley

Contact (Name)	Plant	NSSS	Comments
	Point Beach 1,2	2LW	
<u>David Martin</u>	Prairie Island 1,2	2LW	<u>No</u>
<u>C. Brancham</u>	Robinson	3LW	<u>YES, we use them a lot for inspections, filter mover, radwaste, etc.</u>
	Salem 1,2	4LW	
	San Onofre 2,3	CE	
<u>Boehl</u>	Seabrook	4LW	<u>no</u>
<u>Edler</u>	Sequoyah 1,2	4LW	<u>No</u>
	Sizewell B	4LW	
	South Texas 1,2	4LW	
	St. Lucie 1,2	CE	
	Surry 1,2	3LW	
<u>Steve Edelman</u>	TMI	B&W	<u>Yes</u>
<u>Duane Hutchinson</u>	Turkey Point 1,2	3 4/3LW	<u>No.</u>
<u>Jason R. EHART</u>	VC Summer	3LW	<u>Yes</u>
<u>E. Fulghum</u>	Vogtle 1,2	4LW	<u>2 Robots on site, have not been used in years. Looking at newer/smaller robots to replace.</u>
	Waterford	CE	
	Watts Bar	4LW	
<u>John Cuffe</u>	Wolf Creek	4LW	<u>Yes, minimal use. because of radio freq issues</u>
	EDF		
	AREVA		
	BWXT		

HIGH INTEREST TOPIC AND QUESTIONNAIRE

PWR ALARA Association

Key West, FL

January 23-25, 2018

Topic: Do you induce crud bursts in forced outages?
 Does the FO duration have to be greater than a set amount of hours to perform the crud burst?

Name: Duane Hutchinson
 Contact Info: duane.hutchinson@FPL.com
 305 878 0447

Contact (Name)	Plant	NSSS	Comments
Mr. SMITH	ANO 2,1	CE, B&W	BASED ON DURATION & SCOPE
Jeff Korman	Beaver Valley 1,2	3LW	yes if we go to mode 4
Joe Coughlin	Braidwood 1,2	4LW	Just depends on duration / scope, desired
S. Leah	Byron 1,2	4LW	Depends on scope and duration
Vonderhaar	Callaway	4LW	NO
Roy Lopez	Calvert Cliffs	CE	Duration & Scope Dictates if we do
John Cooper	Catawba 1,2	4LW	No, is dependant on duration
	Davis Besse	B&W	
DAVID W. MILLER	DC Cook 1,2	4LW	Yes, decision is based on R* Coolant temp. (< 200-300°C)
	Diablo Canyon 1,2	4LW	
Ray Bryant	Farley 1,2	3LW	NOT NORMALLY depends on duration HAVE NOT HAD A forced outage
	Ft. Calhoun	CE	
Quincy	Ginna	2LW	NO
Seabolt	Harris	3LW	no, dependent of duration & scope
	Indian Point 2,3	4LW	
	Kewaunee	2LW	
S. Lisi	McGuire 1,2	4LW	yes if down time allows
	Millstone 3,2	4LW, CE	
Chantel A Conway	North Anna 1,2	3LW	depends-- mode # if a purely system w/ open
Phil Kelley	Oconee 1,2,3	B&W	NO
Miller	Palisades	CE	IF ≥ 5 DAYS YES IF < 5 DAYS NO
	Palo Verde 1,2,3	CE	

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HIGH INTEREST TOPIC AND QUESTIONNAIRE
PWR ALARA Association Key West, FL January 23-25, 2018

Topic:

See other side

Name: *Duane Hutchinson*

Contact Info: *Duane.hutchinson@fpl.com*
305 878 0447

Contact (Name)	Plant	NSSS	Comments
	Point Beach 1,2	2LW	
<i>Duane Hutchinson</i>	Prairie Island 1,2	2LW	<i>No</i>
	Robinson	3LW	
	Salem 1,2	4LW	
	San Onofre 2,3	CE	
<i>Boehl</i>	Seabrook	4LW	<i>Usually</i>
<i>Fuller</i>	Sequoyah 1,2	4LW	<i>No. See Sequoyah Success sheet</i>
	Sizewell B	4LW	
	South Texas 1,2	4LW	
	St. Lucie 1,2	CE	
	Surry 1,2	3LW	
<i>Steve Edelman</i>	TMI	B&W	<i>Depends</i>
<i>Duane Hutchinson</i>	Turkey Point 1,2	3LW	<i>investigating / We are currently paying price for net.</i>
<i>JASON RUEHART</i>	VC Summer	3LW	<i>DEPENDS ON DURATION AND MODE</i>
<i>Williams</i>	Vogtle 1,2	4LW	<i>Have not had a forced outage since I've been there</i>
	Waterford	CE	
	Watts Bar	4LW	
<i>John Luffe</i>	Wolf Creek	4LW	<i>If would depend on the duration</i>
	EDF		
	AREVA		
	BWXT		

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HIGH INTEREST TOPIC AND QUESTIONNAIRE
PWR ALARA Association Key West, FL January 23-25, 2018

Topic: *What was your refueling outage dose (ED or LDR) for 2017 outages?*
 Please provide the unit number.

Name: *D. W. Miller* Cook-AED Contact Info: *DWMiller2@aep.com*

Contact (Name)	Plant	NSSS	Unit 1	Person	Comments	ED or LDR
<i>M. SMITH</i>	ANO 2,1	CE, B&W	<i>U-2</i>	<i>73</i>	<i>REM (101 DAY)</i>	<i>SRD</i>
	Beaver Valley 1,2	3LW				
<i>Coughlin</i>	Braidwood 1,2	4LW	<i>AZR19</i>	<i>74.933</i>	<i>Rem -</i>	<i>Person was 26.595 Rem</i>
<i>S. Leach</i>	Byron 1,2	4LW	<i>U-1</i>	<i>40.741</i>	<i>P-Rem</i>	<i>U-2 42.528 P-Rem</i>
<i>Vonderhaar</i>	Callaway	4LW		<i>24.071</i>	<i>ED</i>	
<i>Roy Lopez</i>	Calvert Cliffs	CE	<i>CCAR22</i>	<i>52.4</i>	<i>Rem ED</i>	<i>50.549 Rem DLR</i>
<i>John Cooper</i>	Catawba 1,2	4LW	<i>U1-33.787</i>		<i>ED</i>	
	Davis Besse	B&W				
<i>David W. Miller</i>	DC Cook 1,2	4LW	<i>U1-63.310</i>		<i>Person Rem</i>	
<i>John Corey</i>	Diablo Canyon 1,2	4LW	<i>IR 20</i>	<i>44.9</i>	<i>Rem</i>	<i>ED</i>
			<i>unit 1</i>			
<i>RAY BRYANT</i>	Farley 1,2	3LW	<i>U-2 R 25</i>	<i>ED</i>	<i>22.855</i>	<i>Rem</i>
	Ft. Calhoun	CE				
<i>Griffin</i>	Ginna	2LW		<i>46</i>	<i>Rem ED</i>	<i>unit 1</i>
<i>Mike Seabolt</i>	Harris	3LW	<i>2017 no outage, 2016 - 42.551 Rem - Head Repair was 21.471 Rem of this dose</i>			
	Indian Point 2,3	4LW				
	Kewaunee	2LW				
	McGuire 1,2	4LW				
	Millstone 3,2	4LW, CE				
<i>Chandel A Conroy</i>	North Anna 1,2	3LW	<i>Unit 2</i>	<i>NR24</i>	<i>40.995</i>	<i>ED</i>
<i>Phil Kelley</i>	Oconee 1,2,3	B&W		<i>31</i>	<i>Rem</i>	<i>UNIT 2.</i>
<i>A. MILLER</i>	Palisades	CE		<i>146</i>	<i>Rem DLR</i>	<i>/ 172 Rem EST.</i>
	Palo Verde 1,2,3	CE				

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HIGH INTEREST TOPIC AND QUESTIONNAIRE
PWR ALARA Association Key West, FL January 23-25, 2018

Topic:

Name:

Contact Info:

Contact (Name)	Plant	NSSS	Comments
	Point Beach 1,2	2LW	
	Prairie Island 1,2	2LW	
	Robinson	3LW	
	Salem 1,2	4LW	
	San Onofre 2,3	CE	
Boell	Seabrook	4LW	33.6 rem ED
Fuller	Sequoyah 1,2	4LW	U2-38 Rem DLR U1-78 Rem DLR
	Sizewell B	4LW	
	South Texas 1,2	4LW	
	St. Lucie 1,2	CE	
	Surry 1,2	3LW	
Steve Edelman	TMI	B&W	U-1 72.48
Duane Hutchinson	Turkey Point 1,2	3LW	U3-64.8 Rem DLR U4-37.8 Rem ED /SRD
JASON RISEHART	VC Summer	3LW	47.2 Rem DLR
Williams	Vogtle 1,2	4LW	U1 ED 56.8 ^{Rem} DLR 49.7 Rem U/2 ED 30.9 Rem ^{Rem} DLR 29.7 Rem
	Waterford	CE	
	Watts Bar	4LW	
John Cuffe	Wolf Creek	4LW	% 78 Rem (2016 Fall outage)
	EDF		
	AREVA		
	BWXT		

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HIGH INTEREST TOPIC AND QUESTIONNAIRE
PWR ALARA Association Key West, FL January 23-25, 2018

Topic: Does your site use steam generator shielding for secondary steam generator sludge lanceing? What do you believe your dose savings are? Dose to install?
 Name: Duane Hutchinson Contact Info: 305 878 0447
 duane.hutchinson@fpl.com

Contact (Name)	Plant	NSSS	Comments
M. SMITH	ANO 2,1	CE, B&W	NO
	Beaver Valley 1,2	3LW	
Joe Carshlin	Braidwood 1,2	4LW	Yes use around hand holes
S. Leach	Byron 1,2	4LW	Same as Braidwood
Vonder Haar	Callaway	4LW	NO
Ray Lopez	Calvert Cliffs	CE	@ the Handholes Email me for #'s
John Cooper	Catawba 1,2	4LW	Yes, around inspection ports & 200 micron
	Davis Besse	B&W	
	DC Cook 1,2	4LW	
	Diablo Canyon 1,2	4LW	
Ray BRYANT	Farley 1,2	3LW	Will have to EMAIL YOU INFO ALMIXON@sarthanna.com
	Ft. Calhoun	CE	
Seidley	Ginna	2LW	NO - did in the past used more Dose
Seidley	Harris	3LW	NO
	Indian Point 2,3	4LW	
	Kewaunee	2LW	
S. Lisi	McGuire 1,2	4LW	YES
	Millstone 3,2	4LW, CE	
Charlton A Conway	North Anna 1,2	3LW	Yes - Kevin.Licklider@dominionenergy.com
Phil Kelly	Oconee 1,2,3	B&W	NO
MILLER	Palisades	CE	NO.
	Palo Verde 1,2,3	CE	

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HIGH INTEREST TOPIC AND QUESTIONNAIRE
PWR ALARA Association Key West, FL January 23-25, 2018

Topic:

See other side,

Name: *Duane Hutchinson*

Contact Info:

*duane.hutchinson@fpl.com
305 878 0447*

Contact (Name)	Plant	NSSS	Comments
	Point Beach 1,2	2LW	
<i>David Murt</i>	Prairie Island 1,2	2LW	<i>Yes, Hand hole cover shielded with Siflux magnetic.</i>
	Robinson	3LW	
	Salem 1,2	4LW	
	San Onofre 2,3	CE	
<i>Boehl</i>	Seabrook	4LW	<i>yes. "Belly Bands". I can give you Breakdown</i>
<i>Fuller</i>	Sequoyah 1,2	4LW	
	Sizewell B	4LW	<i>NO. Not much dose from sludge lancing - 2 Rem total</i>
	South Texas 1,2	4LW	
	St. Lucie 1,2	CE	
	Surry 1,2	3LW	
<i>Steve Edelma</i>	TMI	B&W	<i>NOT SURE</i>
<i>Duane Hutchinson</i>	Turkey Point 1,2	3LW	<i>Need to resume / 2.2-2.5 Rem Savings / 0.125 Rem to install</i>
<i>JASON RICHARD</i>	VC Summer	3LW	<i>NO</i>
<i>E. Fulghum</i>	Vogtle 1,2	4LW	<i>Yes, 40 ct 1'x5' Pb shielding per generator (Email for Savings) Installation x 40-70mrem dependent on experience</i>
	Waterford	CE	
	Watts Bar	4LW	
<i>Tomaluk</i>	Wolf Creek	4LW	<i>Yes, send us an email for the details</i>
	EDF		
	AREVA		
	BWXT		

HIGH INTEREST TOPIC AND QUESTIONNAIRE
PWR ALARA Association Key West, FL January 23-25, 2018

Topic: What is your site's \$ per Person Rem Saved Value.
 IF you use INPO Rating X's \$ 20,000, please state INPO Rating

Name: DAVID W. Miller

Contact Info: DWMiller2@aep.com

Contact (Name)	Plant	NSSS	Comments
M. SMITH	ANO 2,1	CE, B&W	\$25,000/REM
	Beaver Valley 1,2	3LW	
Joe Coughlin	Braidwood 1,2	4LW	20K/INPO
S. Leach	Byron 1,2	4LW	20K per quartile
VanderHaw	Callaway	4LW	20,000
Dr. Roy Lopez	Calvert Cliffs	CE	20K
	Catawba 1,2	4LW	
	Davis Besse	B&W	
DAVID W MILLER	DC Cook 1,2	4LW	\$32,238 per person rem saved for Major Engineer Part Mals only
	Diablo Canyon 1,2	4LW	
Ray Bryant	Farley 1,2	3LW	\$20K per Person Rem INPO
	Ft. Calhoun	CE	
Seifert	Ginna	2LW	20K per quartile
Sebach	Harris	3LW	\$20K per rem per quartile
	Indian Point 2,3	4LW	
	Kewaunee	2LW	
S. Lisi	McGuire 1,2	4LW	\$20K per rem x quartile
	Millstone 3,2	4LW, CE	
	North Anna 1,2	3LW	
Phil Keeley	Oconee 1,2,3	B&W	\$20K/REM
H. Miller	Palisades	CE	\$100K/REM
	Palo Verde 1,2,3	CE	

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HIGH INTEREST TOPIC AND QUESTIONNAIRE
PWR ALARA Association Key West, FL January 23-25, 2018

Topic:			
Name:		Contact Info:	
Contact (Name)	Plant	NSSS	Comments
	Point Beach 1,2	2LW	
<i>David Martin</i>	Prairie Island 1,2	2LW	<i>Yes</i>
<i>C. Bvanham</i>	Robinson	3LW	<i>\$20,000 x INPO Index</i>
	Salem 1,2	4LW	
	San Onofre 2,3	CE	
<i>Buehl</i>	Seabrook	4LW	<i>\$20,000 x Inpo Index</i>
<i>Fuller</i>	Sequoyah 1,2	4LW	<i>Not in procedure. Have used \$25K x INPO index.</i>
	Sizewell B	4LW	
	South Texas 1,2	4LW	
	St. Lucie 1,2	CE	
	Surry 1,2	3LW	
<i>Steve Edelma</i>	TMI	B&W	<i>\$20K / Inpo per yr</i>
<i>Duane Hutchinson</i>	Turkey Point 1,2 ^{3/4}	3LW	<i>\$20,000 * INPO Index</i>
<i>JASON BUCHART</i>	VC Summer	3LW	<i>25K / REM</i>
<i>E. Fulghum</i>	Vogtle 1,2	4LW	<i>\$20K per mun Rem INPO</i>
	Waterford	CE	
	Watts Bar	4LW	
<i>J Cuffe</i>	Wolf Creek	4LW	<i>40K per Rem</i>
	EDF		
	AREVA		
	BWXT		

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HIGH INTEREST TOPIC AND QUESTIONNAIRE
PWR ALARA Association Key West, FL January 23-25, 2018

Topic: Do you have a 2017 Refueling Outage ALARA Report completed? ^{cannot}
 Can you email it to Cook ALARA Group. We need your lessons learned
 for Unit 2 outage starting March 1. We will send the Cook ALARA Report in exchange (attached)
 Name: DAVID W. MILLER Contact Info: DWM1102@aep.com

Contact (Name)	Plant	NSSS	Comments
M. SMITH	ANO 2,1	CE, B&W	YES
	Beaver Valley 1,2	3LW	
Coughlin	Braidwood 1,2	4LW	yes
S. Lebeck	Byron 1,2	4LW	yes
VonderHaar	Callaway	4LW	yes
Roy Lopez	Calvert Cliffs	CE	Yes Please email me to remind me
John Cooper	Catawba 1,2	4LW	Yes
	Davis Besse	B&W	
DAVID W. MILLER	DC Cook 1,2	4LW	Unit 1 ALARA Report from fall 2017 is completed.
	Diablo Canyon 1,2	4LW	
RAY BRYANT	Farley 1,2	3LW	Complete NOT Approved I WILL EMAIL ALMIXON@earthlink.net, CA
	Ft. Calhoun	CE	
CHRIS SINGLEY	Ginna	2LW	yes email me to remind me
MIKE SEEBECK	Harris	3LW	yes, sent to you earlier
	Indian Point 2,3	4LW	
	Kewaunee	2LW	
S. Lisi	McGuire 1,2	4LW	will send it
	Millstone 3,2	4LW, CE	
Chanel A Conroy	North Anna 1,2	3LW	Kevin.Lickignter@dominionenergy.com
Phil Kella	Oconee 1,2,3	B&W	NOT completed yet. Phillip.kella@dukeenergy.com
H. MILLER	Palisades	CE	hmiller4@entergy.com
	Palo Verde 1,2,3	CE	

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