

2015 Summer Meeting Key West, FL January 20-22, 2015



2015 Board of Directors

Chairman:

2013-2015 Term

Steve Edelman (717-948-8516) steven.edelman@exeloncorp.com - Three Mile Island

Vice-Chairman

2013-2015 Term

2015-2017 Term as Chairman

Dana Page (803-701-3596) dana.page@duke-energy.com - Catawba Nuclear Station

Secretary 2014-2016 Term

Crystal Couey (410-495-2681) crystal.couey@exeloncorp.com - Calvert Cliffs

Treasurer

2013-2015 Term

Steve Lisi (704-875-5124) stephen.lisi@duke-energy.com – McGuire Nuclear Station

Steering Committee "At Large" Members 2014-2016 Term

Kinsey Boehl (603-773-7638) kinsey.boehl@fpl.com — Seabrook Shari Mosty (254-897-5204) shari.mosty@luminant.com — Comanche Peak

Steering Committee "At Large" Members 2014-2015 Term

Harry Miller (815-417-2713) harryl.miller@exeloncorp.com – Braidwood Rick Rogers (805-545-3246) rwr2@pge.com – Diablo Canyon

** Terms begin/end after the Summer Meeting of the year indicated **



Key West, FL January 20-22, 2015

MEETING BOOK INDEX

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	Meeting Critique form

PWR RP/ALARA Association Meeting Agenda Key West, Florida - January 2015



Monday, Jan 19

16:00 - 18:00

Steering Board Meeting & Appetizers

Tuesday, Jan 20



14:00 – 15:00 Meeting Registration – Salon Foyer

15:00 – 16:30 Opening Ceremonies & Introduction in Salon C:

- Welcome Opening Remarks (Steve Edelman)
- Safety Review Building escape routes (Dana Page)
- Introductions of Board Members (Steve Edelman)
- Introductions of "First Time" Representatives (Dana Page)
- Introduction of Association Members
- Establish Meeting Expectations (Steve Edelman)
- Bench Mark question solicitation (Harry Miller)
- High Interest Topic Sheets/Program (Shari Mosty)
- Steering Board Directors Report (Crystal Couey)
- Treasury Report (Stephen Lisi)

16:45 – 17:00 Steering Committee Meeting

17:00 – 18:30 Opening Reception & Vendor Displays in Salon A & B

Wednesday, Jan 21



07:00 – 08:00 Breakfast with Vendors in Salon A & B

08:00 – 08:15 Meeting Overview (Steve Edelman) ALARA Association Group Picture

08:15 – 09:30 Breakout Session by Plant Type (Document Successes & Challenges and a Golden Nugget)

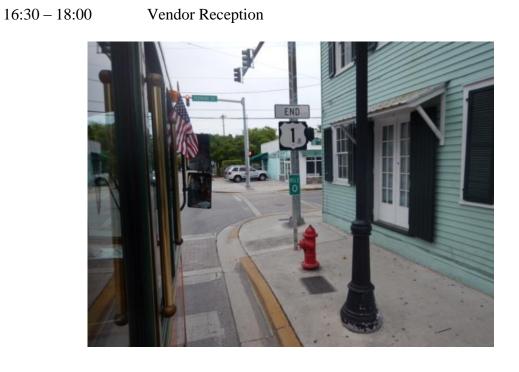
- 2 Loop Westinghouse
- 3 Loop Westinghouse
- 4 Loop Westinghouse
- 4 Loop ICE
- B & W, CE and Decommissioning Units

09:30 – 10:00 Break / Vendor Interface (Report to Break out Rooms after break)

10:00 – 11:30 Breakout Session by Plant Type (Document Successes & Challenges and a Golden Nugget)

- 2 Loop Westinghouse
- 3 Loop Westinghouse
- 4 Loop Westinghouse
- 4 Loop ICE
- B & W, CE and Decommissioning Units

11:30 - 11:40	10 Minute Break (Report to Salon C after break)
11:40 – 12:30	Vendor Presentations
12:30 - 13:30	Lunch
13:30 – 14:30	NATC CZT / H3D User Group Measurements at US PWRs and Results in 2014: A New ALARA Tool for Temporary Shielding Effectiveness Verification (David Miller)
14:30 – 14:40	10 Minute Break
14:40 – 15:30	Vendor Presentations (Remaining vendors)
15:30 – 15:35	End of Day Comments / Adjourn Day 2
15:45 – 16:15	Steering Committee Meeting



Thursday, Jan 22



08:00 − 09:00 Breakfast with Vendors in Salon A & B

09:00 − 10:00 Breakout Session Review (Successes, Challenges and Golden Nuggets)

• B & W, CE and Decommissioning Units

10:00 − 10:30 Break / Vendor Interface

10:30 − 12:00 Breakout Session Review (Successes, Challenges and Golden Nuggets)

• 2 Loop Westinghouse

11:30 – 12:45 Lunch / Passport Drawing

12:45 – 13:45 Breakout Session Review (Successes, Challenges and Golden Nuggets)

3 Loop Westinghouse

- 4 Loop Westinghouse
- 4 Loop ICE

13:45 – 15:00 Round Table Discussions N-16 measurements at US PWRs and BWRs

15:00 – 15:15 Closing Remarks and Update on the 2015 Meetings (Seattle, Washington; June 22-24, 2015)



15:30 – 16:30 Steering Committee Meeting

- Opening Remarks
- Review Meeting Critique Sheets
- New Business



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PWR RP/ALARA Committee Meeting January 20-22, 2015 Key West, FL Attendee List by Plant

Beaver Valley Power Station

Jeffrey Fontaine First Energy PO Box 4

Shippingport, PA, 15077

724-462-3423

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Braidwood

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Braceville, IL 60416 815-417-2713

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Byron

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Exelon

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Crystal Couey

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Lusby, MD 20657 410-495-2681

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Roy Lopez

Exelon

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rouell.lopez@exeloncorp.com

Catawba

Darcy Campbell
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4800 Concord Road York, SC 29745 803-701-3241

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Dana Page

Duke Energy

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Comanche Peak

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Corporate

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D.C. Cook **North Anna Power Station David Miller** Robert McNutt **AEP Dominion One Cook Place** 1022 Haley Drive Mineral, VA 23117 Bridgman, MI 49016 217-855-3238 540-894-2610 dwmiller2@aep.com robert.mcnutt@dom.com **Davis Besse** Oconee **Marc Sidoti Phil Kelley FENOC Duke Energy** 5501 North State Route 2, DB-1029 7800 Rochester Highway Oak Harbor, OH 43449 Seneca, SC 29672 419-265-1053 864-873-3212 msidoti@firstenergycorp.com Philip.kelley@duke-energy.com **Diablo Canyon Palisades Rick Rogers Jeff Smith** PG&E **Entergy** P.O. Box 56, 104/2/216 27880 Blue Star Memorial Highway Avila Beach, CA 93424 **Covert, MI 49043** 805-545-3246 269-764-2502 rwr2@pge.com jsmit56@entergy.com Ginna Palo Verde **Kim Holmes Jeffery Gyger Exelon APS** 1503 Lake Road **5801 South Wintersburg Road** Ontario. NY 14519 Tonopah, AZ 85354 585-315-3449 623-393-3186 kim.holmes@exeloncorp.com jeffery.gyger@aps.com Palo Verde Jack McGrath **Exelon Seth Williams** 1503 Lake Road **APS Ontario, NY 14519 5801 South Wintersburg Road** 585-771-3076 Tonopah, AZ 85354 jack.mcgrath@exeloncorp.com 623-393-2549 seth.williams@aps.com McGuire **Stephen Lisi Prairie Island Doug Warren Duke Energy** 7800 Hagers Ferry Road **Xcel energy Huntersville, NC 28078** 3339 Cory Lane 980-878-5124 Hastings, MN 55033 stephen.lisi@duke-energy.com 651-267-6065

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Salem

Glenn Toft PSEG

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Three Mile Island

Steve Edelman

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Vogtle

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Watts Bar

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Gethomas1@tva.gov

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John Cuffe

WCNOC

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PWR RP/ALARA Committee Meeting January 20-22, 2015 Key West, FL Attendee Professional Association

AREVA

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PWR RP/ALARA Committee Meeting January 20-22, 2015 Key West, FL Vendor List by Company

ACT / Silflex Shielding

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adrian@silflexshielding.com

BHI Energy | Power Services

Jimmy Orr Bill Peoples

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508-591-1149 lauren.buckman@ bhienergy.com

Bladewerx

Jeff Anspaugh Don Hanna

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Canberra

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John Ellison
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David Wilkins
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Diakont

Keith Reeser Daviel Stankovich 3853 Calle Fortunada San Diego, CA 92123

858-551-5551

ahuber@diakont.us.com

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adockweiler@eichrom.com

Fluke Biomedical

Mark Marlowe Mike Thompson 86 South St., Ste A Hopkinton, MA 01748 508-435-5600 ext 520

Monica.whitehead@raysafe.com

Frham Safety Products

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Innovative Industrial Solutions

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shane.robinson@i-i-s.net

ISEC Industrial Security AB

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Lancs Industries

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312-945-6185
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Mick Truitt
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RPS (Radiation Protection Systems)

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pwest@reefindustries.com

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S&W Technologies

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Jim Wierowski
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Rochester, NY 14625
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Tom Bernacki
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Transco Products

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UniTech Services Group

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Dave Welcher
Jeff Wilson
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Presentation Information to come

Dose Ownership Site Excellence

CRE WEEKLY

Announcing 2015
Unit 1 Online CRE Goals

Issue 1



What is 'CRE'

'CRE' stands for Collective Radiation Exposure.

CRE at TMI is the sum of the individual dose received by everyone working at the site.

Why do we measure and manage CRE?

We measure and manage CRE to keep personal exposure As Low As Reasonably Achievable (ALARA). Keeping exposure ALARA minimizes the health risk to our workers.

Also, our goal is to be recognized as the top performing nuclear station in the country. One of the measures used to gauge performance is CRE. Improving CRE performance is a focus area at the station, because we want to be recognized as a leader in all areas. We have become an industry leader in industrial and nuclear safety due to a strong commitment from everyone at TMI. We can make progress towards our CRE goals with that same commitment

Still unsure about CRE or what you can do to help? Just ask your department Dose Zealot or any of the ALARA Specialists.

2015 U1 Dose Stats	
as of 01/11/15	mRem
Actual Exposure	164
January SAC Goal	870

2015 U1 Online PCE Goal	5
Actual To Date	0

Have an Idea To Lower CRE?

Please Share It With Us

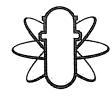
Submit an ALARA Suggestion IR Today



2015 Unit 1 Online CRE Goals

≤ 6.839 Rem Dose Goal

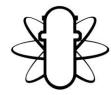
≤ 5 Personnel Contamination Events



ALARA Association

Plant Status Report Questionnaire - (Circle one) Winter - Year [2015]

1	(WINTER MEETIN	G – PROVIDE PREVIOUS Y	EAR'S I	OOSE D	DATA; SUN	MER MEET	ING-YTD I	DATA)	
2010 MEMBERSHIP	Station:	Beaver Valley	Ī		NSSS	MWe	Cycle #	Core duty (H/L)	
Arkansas Nuc One					33.7	000	22	Н	1
Beaver Valley				_1	W	993	23		1
Braidwood	Utility: Firs	t Energy		2	W	979	18	H	
Byron	Ctility. 1115	t 121101 BJ			<u> </u>			<u> </u>	
Callaway Calvert Cliffs									
Catawba	Unit 1	Exposure (Rem)]						
Comanche Peak	Power Ops:	1.427	YTD						
Crystal River	Forced Outage:		Reas	on:					
Davis Besse	Refuel Outage:		EST.		Durat	tion:		EST.	
DC Cook			ACT.					ACT.	
Diablo Canyon	Lead Installed:		Lbs.		PCEs:				
EDF (France)									
Farley	Unit 2	Exposure (Rem)	7						
Fort Calhoun	Power Ops:	1.091	YTD						
Ginna	Forced Outage:		Reas	on:					
Harris Indian Point	Refuel Outage:	60.774	EST.		Durat	tion:		EST.	
Kewaunee	Meruer Gutuge.		ACT.		150000			ACT.	
McGuire	Lead Installed:	38,000	Lbs.		PCEs:		, ,		
Millstone	Lead motanea.	1 30,000							
North Anna	Unit 3	Exposure (Rem)							
Oconee	Power Ops:		YTD						
Palisades	Forced Outage:		Reas	son:					
Palo Verde	Refuel Outage:		EST.		Dura	tion:		EST.	
Point Beach Prairie Island			ACT					ACT.	•
Ringhalls (Sweden)	Lead Installed:		Lbs.		PCEs				
Robinson	L			_					17 TAT
Saint Lucie	Yes N		C1)	Yes No	Dodwood I	nron Chut	down Chem:	Yes N □X □
Salem	Zinc Add: X [Ultrasonic Fuel (Clean:	L		Reduceu 1	nven. Shub	Jown Chem.	
San Onofre	Specialty Resin:	Macroporous	PRC-	01	Other:		Use C	n-Line?	Yes 🔼
Seabrook	Constant modifie		f ves. r	ange:	6.9 - 7.1	5 7.1			
Sequoyah	Perm Scaffol			If yes	, location	s: Primary D	egassifier T	anks at both u	nits
Sizewell B (UK)	Perm Shie	lding: No	If ye	s, loca	tions:				
South Texas Proj	2	PCEs (Winter meetin	a nv	wione	voor's de	ota: Summer	· meeting _	VTD)	
Surry		Level 1		Level		Level		Total	
Three Mile Island	On-Line	2		<u> </u>		130101			
Turkey Point VC Summer	Unit 1 Outage								
Vogtle	Unit 2 Outage	15			2				
Waterford	Unit 3 Outage								
Watts Bar	All PCEs	19							
Wolf Creek	Prepare	d By: Jeff	Fon	tain	e		Date:	1/16/	15
		- J							

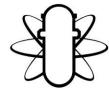


ALARA Association

<u>Plant Status Report Questionnaire – (Circle one)</u> <u>Winter/Summer – Year [2015]</u>

(WINTER MEETING – PROVIDE PREVIOUS YEAR'S DOSE DATA; SUMMER MEETING – YTD DATA)

2010 MEMBERSHIP	Station:	Bryon			NSSS	MWe	Cycle #	•	
Arkansas Nuc One								(H/L)	
Beaver Valley				1	West	1270	19	Н	
Braidwood <mark>Byron</mark>	Utility: Ex	elon		2	West	1240	18	Н	
Callaway	•					I			1
Calvert Cliffs			_						
Catawba	Unit 1	Exposure (Rem)			_				
Comanche Peak	Power Ops:	3.683	YTD						
Crystal River	Forced Outage:	0	Reasc	n:					
Davis Besse	Refuel Outage:	29.000	EST.		Duration	:	18	EST.	
DC Cook	_	22.106	ACT.				18	ACT.	
Diablo Canyon	Lead Installed:	47,704	Lbs.		PCEs:		3		
EDF (France)		, -							
Farley	Unit 2	Exposure (Rem)	1						
Fort Calhoun Ginna	Power Ops:	3.346	YTD						
Harris	Forced Outage:	0	Reaso	n:					
Indian Point	Refuel Outage:	64.732	EST.		Duration	:	25	EST.	
Kewaunee	_	52.605	ACT.				25	ACT.	
McGuire	Lead Installed:	71,390	Lbs.		PCEs:		1		
Millstone		,			I				
North Anna	Unit 3	Exposure (Rem)			_				
Oconee	Power Ops:		YTD						
Palisades Palo Verde	Forced Outage:		Reaso	n:					
Point Beach	Refuel Outage:		EST.		Duration	:		EST.	
Prairie Island			ACT.					ACT.	
Ringhalls (Sweden)	Lead Installed:		Lbs.		PCEs:				
Robinson			_1						
Saint Lucie Salem	Yes ☐ Zinc Add:	No □ Ultrasonic Fuel	Clean:	Y	'es <mark>No</mark> □ □ I	Reduced I	nven. Shut	Ye down Chem: ☐	es No
San Onofre	Specialty Resin:	Macro porous	l pp.c.	n1 🗀	041		TI (> T.\$	oc ∏No
Seabrook	Constant modifie		PRC-		Other: se: 6.9 - 7.1	5	Use C	On-Line? Ye	s To
Sequoyah	Perm Scaffo	olding: Yes No			tions: 377, 4		OMR		
Sizewell B (UK)	Perm Shie	elding: Yes No			tions: Auxil			es	
South Texas Proj	_								
Surry		PCEs (Winter meetin							
Three Mile Island	On I in	Level 1	L	evel II	_	Level I	Ш	Total	
Turkey Point	On-Line	0							
VC Summer	Unit 1 Outage Unit 2 Outage	3							
Vogtle	Unit 3 Outage	1							
Waterford Watts Bar	All PCEs								
Walls Bar Wolf Creek		1 D E	I D	-1.	.1_•		D : 4	1 10 1	
Areva	Prepare	a By: Fra	nk Pa	sias	SKI		Date:	1-13-1	1 5



ALARA Association

<u>Plant Status Report Questionnaire – (Circle one) Winter/ – Year [2015]</u>

(WINTER MEETING – PROVIDE PREVIOUS YEAR'S DOSE DATA; SUMMER MEETING – YTD DATA)

2010 MEMBERSHIP	Station:	Comanche Pe	eak	NSSS	MWe	Cycle #	Core duty (H/L)	
Arkansas Nuc One			— 	WEC	1070	+		
Beaver Valley				***	1273	17	Н	
Braidwood	Utility: Lui	minant		WEC	1270	14	Н	
Byron Callaway	<u> </u>				<u> </u>			j
Calvert Cliffs								
Catawba	Unit 1	Exposure (Rem)	7					
Comanche Peak	Power Ops:	3.38	YTD	7				
Crystal River	Forced Outage:	0.03	Reason:					
Davis Besse	Refuel Outage:	45.6	EST.	Duration	. 1	24 Days	EST.	
DC Cook	Title of Catalogs	13.0	ACT.	2 41 41 51 51		53 Days	ACT.	
Diablo Canyon	Lead Installed:	7000	Lbs.	PCEs:		23	ACT.	
EDF (France)	Lead Instanca.	7000	LD3.	I CLS.			1	
Farley	Unit 2	Exposure (Rem)	٦					
Fort Calhoun		• • • • • • • • • • • • • • • • • • • •	VTD	٦				
Ginna	Power Ops:	3.38	YTD					
Harris	Forced Outage:	22.46	Reason:	T			T = 6 =	
Indian Point	Refuel Outage:	92.46	EST.			25 Days 29 Days	EST.	
Kewaunee McGuire			ACT.				ACT.	
Millstone	Lead Installed:	5500	Lbs.	PCEs: 26		<u>2</u> 6		
North Anna	Unit 3	Unit 3 Exposure (Rem)						
Oconee	Power Ops:	LAPOSUIC (INCIII)	YTD	7				
Palisades	Forced Outage:		Reason:					
Palo Verde			EST.	Duration	.		EST.	
Point Beach	Refuel Outage:			Duration:				
Prairie Island			ACT.	5.05			ACT.	
Ringhalls (Sweden)	Lead Installed:		Lbs.	PCEs:				
Robinson	,	No		No			Ye	96
Saint Lucie		Ultrasonic Fuel	Clean:		Reduced Ir	ıven. Shutd	lown Chem:	,
Salem			_					
San Onofre	Specialty Resin:	Macroporous	PRC-01	Other:		Use Or	n-Line? Ye	es No
Seabrook	Constant modifie	ed pH: Yes x No	If yes, rang	e: 7.4				
Sequoyah Sizewell B (UK)	Perm Scaffo	olding: Yes x No	If yes, locat	tions: RB/S0			-	
South Texas Proj	Perm Shie	elding: Yes x No	If yes, locat	tions: RB SC	G AB			
Surry		PCEs (Winter meetin	og – previous v	ear's data:	Summer r	 meeting _ Y		
Three Mile Island	<u> </u>	Level 1	Level II		Level II		Total	
Turkey Point	On-Line	13	20.01		110,011		13	
VC Summer	Unit 1 Outage	23					23	
Vogtle	Unit 2 Outage	26					26	
Waterford	Unit 3 Outage							
Watts Bar	All PCEs						62	
Wolf Creek	Prepare	d Rv: Shar	ri Mostv			Date:	1/13/2	015

PWR ALARA/Radiation Protection Association

	ſ	Plant Status	Report Que	estionaire			
			Unit	NSSS	Mwe	Cycle	Core Duty
Station:	Calvert Cliffs		U1			22	
		_	U2			21	
			U3		N/A	N/A	N/A
Utility:	Exelon Generation			•	•	•	•
Unit 1	Exposure	Rem					
	Power Operations	2.735	YTD	1			
	Forced Outages	0.19	Reason: Investigate & isloate RCS leak				1
	Refuel Outaes	55.465	Estimate	Duration	2	26 days	
			Estimate	Actuals	3	31 days	
	Lead Installed	Yes	Lbs.3,520				
Unit 2	Exposure	Rem					
,	Power Operations	2.735	YTD				
	Forced Outages	0.063	Reason: R	epair a valv	e in CTM	Т	
	Refuel Outaes	N/A	Estimate	Duration		N/A	
			Estimate	Actuals		N/A	
		_		-	_		

Unit 3	Exposure	Rem		_	
<u>.</u>	Power Operations	N/A	YTD		
	Forced Outages	N/A	Reason: N	/A	
	Refuel Outaes	N/A	Estimate	Duration	N/A
			Estimate	Actuals	N/A
	Lead Installed	N/A	Lbs. N/A		

N/A **Lbs.**

Lead Installed

Zinc Injection	Yes					
Ultrasonic Fule Cleaning	No					
Reduced Inventory Shutdown	Yes					
Specialty Resin	No	PRC	No	Other	No	
Constant modified pH:	Yes	If yes, ra	If yes, range			
Perm Scaffolding:	Yes	If yes locations:		TB/AB/so	TB/AB/some in CTMT	
Perm. Shielding:	Yes	If yes loo	If yes locations:		me in CTMT	

	Lev	Level I		Level II		Level III		Total	
	Online	Outage	Online	Outage	Online	Outage	Online	Outage	
Unit 1	3	6	0	0	0	0	3	6	
Unit 2	included	N/A	0	0	0	0	included	N/A	
Unit 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

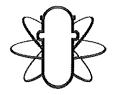
Prepared By:	Crystal Couey	Date:	1/14/2015

Unit 1 Outage

VC Summer

Westinghouse

Vogtle Waterford Watts Bar Wolf Creek Areva 26



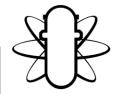
ALARA Association

28

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Plant Status Report Questionnaire - Winter 2015

(WINTER MEETING - PROVIDE PREVIOUS YEAR'S DOSE DATA; SUMMER MEETING - YTD DATA) 2010 MEMBERSHIP **NSSS** MWe Core duty Cycle# Davis-Besse Station: (H/L) Arkansas Nuc One Beaver Valley B&W/GE 963 19 Η Braidwood **Utility:** First Energy Byron Callaway Calvert Cliffs Exposure (Rem) Unit 1 Catawba 1.327 Power Ops: Comanche Peak Crystal River Forced Outage: None N/A Reason: Davis Besse Refuel Outage: EST. 203 Rem SGRP/18R **Duration:** EST. 76 days DC Cook ACT. 199.5 Rem ACT.96.5 days Diablo Canyon Lead Installed: Lbs. 28 218,726 PCEs: EDF (France) Farley Ultrasonic Fuel Clean: 16R ☑ ☐ Yes/No Fort Calhoun Zinc Add: 🗹 🔲 Reduced Inven. Shutdown Chem: Ginna Harris Use On-Line? 📝 Yes PRC-01 Other: Specialty Resin: Macroporous **Indian Point** Constant modified pH: Yes If yes, range: 7.2 Kewannee Perm Scaffolding: Yes If yes, locations: Inside Containment **McGuire** If yes, locations; MPR 1 & 2 Perm Shielding: Yes Millstone North Anna Oconee **Palisades** Palo Verde Point Beach Prairie Island Ringhalls (Sweden) Robinson Prepared By: Marc Sidoti Date: 1/14/15 Saint Lucie Salem This information will be placed in the Committee Meeting Book and made available to all of San Onofre the PWR RP/ALARA ASSOCIATION members. Seabrook Sequoyah Sizewell B (UK) South Texas Proj PCEs (Winter meeting - previous year's data; Summer meeting - YTD) Surry Three Mile Island Level 1 Level II Level III Total On-Line 0 0 Turkey Point 0 0



ALARA Association

Plant Status Report Questionnaire – (Circle one) Winter/Summer – Year [2015]

(WINTER MEETING – PROVIDE PREVIOUS YEAR'S DOSE DATA; SUMMER MEETING – YTD DATA) 2015 MEMBERSHIP **NSSS** MWe Cycle # Core duty **Station: Diablo Canyon** (H/L)Arkansas Nuc One Beaver Valley 19 U1W 1182 L Braidwood U2 \mathbf{W} 1178 19 L **Utility: Pacific Gas & Elec. Byron** Callaway U3Calvert Cliffs Catawba Unit 1 **Exposure** (rem) Comanche Peak Power Ops: 3.713 YTD Crystal River **Davis Besse** 1.002 Forced Outage: Reason: RCP seal DC Cook Refuel Outage: 30.912 Est. Duration: 33d Est. **Diablo Canvon** 35.627 Act. 32d 23h Act. EDF (France) 56,000 PCEs: Lead Installed: Lbs. 13 Farley Fort Calhoun Unit 2 **Exposure** (rem) Ginna YTD Power Ops: 2.721 Harris Forced Outage: 0.155 Reason: **Indian Point** Kewaunee Refuel Outage: 30.370 33d Est. Duration: Est. **McGuire** 33.246 Act. 32d 10h Act. Millstone Lead Installed: 88.000 Lbs. PCEs: 15 North Anna Oconee Unit 3 (rem) **Exposure** Palisades Power Ops: YTD Palo Verde Forced Outage: Reason: Point Beach Prairie Island Refuel Outage: Est. **Duration:** Ringhalls (Sweden) Act. Act. Robinson Lead Installed: Lbs. PCEs: Saint Lucie Salem Yes Yes Zinc Add: 🖂 Reduced Inven. Shutdown Chem: **Ultrasonic Fuel Clean:** San Onofre Specialty Resin: ☐ Macroporous ☐ PRC-01 ☐ Other: DOW IRN-78 Use On-Line? ☒ Yes ☐ Seabrook Constant modified pH: Xes No If yes, range: 7.2 Sequoyah Perm Scaffolding: Yes 🖂 No If yes, locations: Sizewell B (UK) No If yes, locations: RHR, RCDT Perm Shielding: X Yes South Texas Proj Surry Three Mile Island **Turkey Point**

PCEs (Winter meeting – previous year's data; Summer meeting – YTD)					
	Level 1	Level II	Level III	Total	
On-Line	7			7	
Unit 1 Outage	13			13	
Unit 2 Outage	15			15	
Unit 3 Outage	-				
All PCEs	35			35	

Prepared By: Rick Rogers Date: 1/15/15

This information will be placed in the Committee Meeting Book and made available to all of the PWR RP/ALARA ASSOCIATION members.

VC Summer Vogtle Waterford

> Wolf Creek Areva Westinghouse

Watts Bar

Kewaunee

McGuire

Millstone
North Anna
Oconee
Palisades
Palo Verde
Point Beach
Prairie Island
Ringhalls (Sweden)

Robinson Saint Lucie Salem San Onofre Seabrook Sequoyah

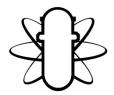
Surry

Areva

Westinghouse

Sizewell B (UK) South Texas Proj

Three Mile Island
Turkey Point
VC Summer
Vogtle
Waterford
Watts Bar
Wolf Creek



ALARA Association

Plant Status Report Questionnaire – (Circle one) Winter/Summer – Year [2015]

(WINTER MEETING – PROVIDE PREVIOUS YEAR'S DOSE DATA; SUMMER MEETING – YTD DATA) 2010 MEMBERSHIP **NSSS** MWe Cycle # Core duty **Station: McGuire** (H/L)Arkansas Nuc One Beaver Valley **U1** West. 120 21 H Braidwood U2West. 120 20 H **Utility: Duke Energy Byron** Callaway U3Calvert Cliffs Catawba Unit 1 **Exposure** (rem) Comanche Peak Power Ops: 6.791 YTD Crystal River **Davis Besse** 0 Forced Outage: Reason: DC Cook Refuel Outage: 71.589 Est. Duration: 41 Est. Diablo Canyon 82.150 Act. 61.2 Act. EDF (France) Lead Installed: 61,995 Lbs. PCEs: 16 Farley Fort Calhoun Unit 2 **Exposure** (rem) Ginna YTD Power Ops: 5.923 Harris **Indian Point** Forced Outage: 0 Reason:

	Lead Installed:	60.355	Lbs.	PCEs:	29	
	Unit 3	Exposure	(rem)			,
	Power Ops:		YTD			
	Forced Outage:		Reason	n:		
	Refuel Outage:		Est.	Duration:		Est.
			Act.			Act.
	Lead Installed:		Lbs.	PCEs:		
Yes	No			Yes No		,
7ine Add. M	Liltrocon	io Fuel Clear	[\checkmark 1	Doducod Invon	Chutde

51.6

47.946

Est.

Act.

Duration:

27

33.51

Est.

Act.

Refuel Outage:

Yes No		Yes No		Yes	No
Zinc Add: 🖂 🗌	Ultrasonic Fuel Clean:	\boxtimes	Reduced Inven	. Shutdown Chem:	\boxtimes
Specialty Resin: M	acroporous PRC-01	Other:	U	se On-Line? 🛛 Yes 🗌	No
Constant modified pH:	Yes No If yes, r	ange: 6.9 - 7.1	15		
Perm Scaffolding:	∑ Yes □ No If yes, leading the second seco	ocations: Scaff	fold stored in Inc	core Sump Room	
Perm Shielding:	☐ Yes ⊠ No If yes, le	ocations:			
<u>-</u>					

PCEs (Winter meeting – previous year's data; Summer meeting – YTD)					
	Level 1	Level II	Level III	Total	
On-Line	8			8	
Unit 1 Outage	25	4		29	
Unit 2 Outage	13	3		16	
Unit 3 Outage					
All PCEs				53	

Prepared By: Stephen Lisi Date: 1/11/15

Saint Lucie

San Onofre

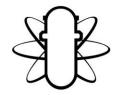
Sizewell B (UK) South Texas Proj

Three Mile Island **Turkey Point**

Seabrook Sequoyah

Salem

Surry



ALARA Association

Plant Status Report Questionnaire – (Circle one) Winter/Summer – Year [2015]

(WINTER MEETING – PROVIDE PREVIOUS YEAR'S DOSE DATA; SUMMER MEETING – YTD DATA) 2010 MEMBERSHIP **NSSS MWe** Cycle # Core duty Arkansas Nuc One **Station:** Oconee (H/L)Beaver Valley U-1 B&W 880 28 N Braidwood **Byron** U-2 B&W 880 26 N **Utility:** Duke Energy Callaway Calvert Cliffs U-3 B&W 880 27 N Catawba Comanche Peak Exposure (Rem) Unit 1 Crystal River 8.005 Power Ops: YTD Davis Besse Forced Outage: 0 Reason: DC Cook Refuel Outage: 52 EST. **Duration:** 35 EST. Diablo Canyon 35 ACT. 34 ACT. EDF (France) 16440 7 Lead Installed: PCEs: Lbs. Farley Fort Calhoun Exposure (Rem) Ginna Unit 2 Harris Power Ops: 7.136 YTD **Indian Point** Forced Outage: Reason: Kewaunee Refuel Outage: EST. **Duration:** EST. **McGuire** ACT. ACT. Millstone Lead Installed: N/A Lbs. PCEs: 0 North Anna Oconee Exposure (Rem) Unit 3 **Palisades** 8.753 Power Ops: YTD Palo Verde Forced Outage: 0 Point Beach Reason: Prairie Island Refuel Outage: 65.5 EST. **Duration:** 32 EST. Ringhalls (Sweden) 51.2 ACT. 29 ACT. Robinson

14280 Lead Installed: Lbs. PCEs: 6 Yes No Yes No Yes No \boxtimes ☐ Reduced Inven. Shutdown Chem: ☐ Zinc Add: 冈 **Ultrasonic Fuel Clean:** Specialty Resin: Macro porous PRC-01 Other Click here to enter text. Use On-Line? Yes No

Constant modified pH: Yes ⊠ No □ If yes, range: 6.9 - 7.15

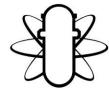
Yes No D **Perm Scaffolding:** If yes, locations: Scaffold stored in Incore Sump Room

Yes 🏻 No 🗆 **Perm Shielding:** If yes, locations: Seal supply filter housings

VC Summer PCEs (Winter meeting – previous year's data; Summer meeting – YTD) Vogtle Level 1 Level II Level III Total Waterford **On-Line** 16 18 1 Watts Bar Unit 1 Outage 5 1 1 Wolf Creek Unit 2 Outage 0 0 0 0 Areva Unit 3 Outage 5 1 0 6 Westinghouse All PCEs 31 26 3 2

Prepared By: Phillip Kelley

Date: 1/14/15



ALARA Association

Plant Status Report Questionnaire – (Circle one) Winter/Summer – Year 2014

(WINTER MEETING – PROVIDE PREVIOUS YEAR'S DOSE DATA; SUMMER MEETING – YTD DATA) 2010 MEMBERSHIP **NSSS** MWe Cycle# Core duty **Palisades** Station: (H/L)Arkansas Nuc One Beaver Valley CE 1 853 24 Braidwood **Utility:** Entergy **Byron** Callaway Calvert Cliffs Exposure (Rem) Unit 1 Catawba Power Ops: 7.183 Comanche Peak YTD Primary Coolant Crystal River Forced Outage: 4.176 Reason: Pump Seal **Davis Besse** Changeout DC Cook Refuel Outage: 216.000 EST. **Duration:** EST. 38d 13h Diablo Canyon ACT. 55 d 19 h 44 m 359.440 ACT. EDF (France) Lead Installed: 100.000 Lbs. PCEs: 118 Farley Fort Calhoun Ginna Unit 2 Exposure (Rem) Harris Power Ops: YTD Indian Point Forced Outage: Reason: Kewaunee Refuel Outage: EST. **Duration:** EST. **McGuire** ACT. ACT. Millstone Lead Installed: Lbs. PCEs: North Anna Oconee Exposure (Rem) **Palisades** Unit 3 Palo Verde Power Ops: YTD Point Beach Forced Outage: Reason: Prairie Island Refuel Outage: EST. **Duration:** EST. Ringhalls (Sweden) ACT. ACT. Robinson Lead Installed: Lbs. PCEs: Saint Lucie Salem Yes No No San Onofre Zinc Add: X Ultrasonic Fuel Clean: Reduced Inven. Shutdown Chem: Seabrook PRC-01 Other: **Specialty Resin:** Use On-Line? Yes No Sequoyah Macroporous Constant modified pH: No If yes, range: 6.9 - 7.15 Sizewell B (UK) Perm Scaffolding: No If yes, locations: Scaffold stored in Incore Sump Room South Texas Proj If yes, locations: Aux Bldg & CTMT Perm Shielding: Surry PCEs (Winter meeting – previous year's data; Summer meeting – YTD) Three Mile Island Level 1 Level II Level III Total **Turkey Point** On-Line VC Summer Unit 1 Outage Vogtle Unit 2 Outage Waterford Unit 3 Outage Watts Bar All PCEs Wolf Creek Areva

> This information will be placed in the Committee Meeting Book and made available to all of the PWR RP/ALARA ASSOCIATION members.

Date: 1/16/15

Jeff Smith

Prepared By:

Westinghouse |

South Texas Proj

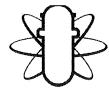
Three Mile Island
Turkey Point
VC Summer
Vogtle
Waterford
Watts Bar

Wolf Creek

Westinghouse |

Areva

Surry



ALARA Association

Plant Status Report Questionnaire – (Circle one) Winter Summer – Year [2015] (WINTER MEETING - PROVIDE PREVIOUS YEAR'S DOSE DATA; SUMMER MEETING - YTD DATA) 2010 MEMBERSHIP NSSS MWe Cycle # Core duty **Station:** Prairie Island (H/L)Arkansas Nuc One 29 Beaver Valley 1 522 Braidwood 2 522 28 Utility: Xcel Energy **Byron** Callaway Calvert Cliffs Exposure (Rem) Catawba Unit 1 Power Ops: 3.597 **YTD** Comanche Peak Crystal River Forced Outage: 8.228 Reason: Replace Flow Serve Seal for 12 RCP Davis Besse Refuel Outage: 60.000 Duration: 30 Davs EST. EST. DC Cook ACT. 64.624 44 Days ACT. Diablo Canyon Lead Installed: 25,032 PCEs: 13 Lbs. EDF (France) Farley Unit 2 Exposure (Rem) Fort Calhoun Power Ops: 4.934 YTD Ginna Forced Outage: 0.497 Trouble shoot leaking Flowserve for 21 RCP Seal Reason: Harris Refuel Outage: **Duration: Indian Point** N/A EST. N/A EST. Kewaunee N/A ACT. ACT. **McGuire** Lead Installed: N/A Lbs. PCEs: 0 Millstone North Anna Exposure (Rem) Unit 3 Oconee Power Ops: N/A YTD **Palisades** Forced Outage: N/A Reason: N/A Palo Verde Refuel Outage: N/A EST. **Duration:** N/A EST. Point Beach N/A ACT. N/A ACT. Prairie Island Lead Installed: PCEs: N/A N/A Lbs. Ringhalls (Sweden) Robinson Saint Lucie Reduced Inven. Shutdown Chem: Zinc Add: Ultrasonic Fuel Clean: Salem San Onofre PRC-01 N Other: Specialty Resin: Macroporous Use On-Line? Yes No Seabrook Constant modified pH: Yes No If yes, range: 6.9 - 7.15 Sequoyah Perm Scaffolding: (Vo) If yes, locations: Scaffold stored in Incore Sump Room Sizewell B (UK) If yes, locations: Perm Shielding: Yes (No)

PCEs (Winter meeting – previous year's data; Summer meeting – YTD)					
	Level 1	Level II	Level III	Total	
On-Line		0	\mathcal{O}	0	
Unit 1 Outage	13	0		13	
Unit 2 Outage	· 6 .	0	, ()	0.1	
Unit 3 Outage	NIA	NIA	NA	NIA	
All PCEs	13"	0"		131	
	7			.1	

Prepared By: Douglas O. Willen

Date: 1/14/15

Waterford

Watts Bar

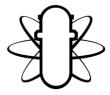
Areva

Wolf Creek

Westinghouse

Unit 3 Outage

All PCEs



ALARA Association

Plant Status Report Questionnaire – (Circle one) Winter/Summer – Year [2015] (WINTER MEETING – PROVIDE PREVIOUS YEAR'S DOSE DATA; SUMMER MEETING – YTD DATA) 2015 MEMBERSHIP **NSSS** MWe Cycle # Core duty **Station:** Seabrook (H/L)Arkansas Nuc One Beaver Valley U1W 1247 17 H Braidwood U2**Utility:** NextEra Energy **Byron** Callaway U3Calvert Cliffs Catawba Unit 1 **Exposure** (rem) Comanche Peak Power Ops: 2.445 YTD Crystal River **Davis Besse** 0.000 Forced Outage: Reason: DC Cook Refuel Outage: 44.211 Est. Duration: 22 Est. Diablo Canyon 46.656 Act. 23.5 Act. EDF (France) Lead Installed: 60,000 Lbs. PCEs: 23 Farley Fort Calhoun Unit 2 **Exposure** (rem) Ginna YTD Power Ops: Harris **Indian Point** Forced Outage: Reason: Kewaunee Refuel Outage: Est. Duration: Est. McGuire Act. Act. Millstone North Anna Lead Installed: Lbs. PCEs: Oconee Unit 3 (rem) **Exposure Palisades** Power Ops: YTD Palo Verde Point Beach Forced Outage: Reason: Prairie Island Refuel Outage: Est. Est. **Duration:** Ringhalls (Sweden) Act. Act. Robinson Saint Lucie Lead Installed: Lbs. PCEs: Salem Yes Yes San Onofre Zinc Add: Reduced Inven. Shutdown Chem: \boxtimes **Ultrasonic Fuel Clean:** M Specialty Resin: Macroporous PRC-01 Other: Use On-Line? ⊠ Yes 🗆 Seabrook Sequoyah Constant modified pH: Yes No If yes, range: 7.2 Yes 🖂 No If yes, locations: **Perm Scaffolding:** Sizewell B (UK) No If ves, locations: Perm Shielding: Yes 🖂 South Texas Proj Surry PCEs (Winter meeting – previous year's data; Summer meeting – YTD) Three Mile Island Level 1 Level II Level III **Total Turkey Point** On-Line 2 VC Summer Unit 1 Outage 23 Vogtle **Unit 2 Outage**

Prepared By: Kinsey Boehl Date:1/13/15

25

Comanche Peak
Crystal River
Davis Besse
DC Cook
Diablo Canyon
EDF (France)

Farley Fort Calhoun

Ginna
Harris
Indian Point
Kewaunee
McGuire
Millstone
North Anna
Oconee
Palisades
Palo Verde
Point Beach
Prairie Island
Ringhalls (Sweden)

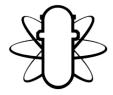
Robinson
Saint Lucie
Salem
San Onofre
Seabrook
Sequoyah
Sizewell B (UK)
South Texas Proj

Surry

Areva

Westinghouse

Three Mile Island
Turkey Point
VC Summer
Vogtle
Waterford
Watts Bar
Wolf Creek



ALARA Association

Plant Status Report Questionnaire – (Circle one) Winter/Summer – Year [2015]

(WINTER MEETING – PROVIDE PREVIOUS YEAR'S DOSE DATA; SUMMER MEETING – YTD DATA) 2015 MEMBERSHIP **NSSS** MWe Cycle # Core duty Three Mile island **Station:** (H/L)Arkansas Nuc One Beaver Valley B&W 852 20 **U1** L Braidwood **Byron** Callaway Calvert Cliffs Catawba

Utility:	Exelo	<u>n</u>	U2					
			U3					
	Unit 1	Exposure	(rem)					
	Power Ops:	13.422	YTD				_	
	Forced Outage:	na	Reason	n:				
	Refuel Outage:	na	Est.	Duration:	na	Est.		
			Act.			Act.		
	Lead Installed:	na	Lbs.	PCEs:	na			
	Unit 2	Exposure	(rem)					
	Power Ops:	na	YTD				-	
	Forced Outage:	na	Reason	n:				
	Refuel Outage:	na	Est.	Duration:	na	Est.		
			Act.			Act.		
	Lead Installed:	na	Lbs.	PCEs:	na		'	
	Unit 3	Exposure	(rem)					
	Power Ops:	na	YTD					
	Forced Outage:	na	Reason	n:				
	Refuel Outage:	na	Est.	Duration:	na	Est.		
			Act.			Act.		
	Lead Installed:	na	Lbs.	PCEs:	na			
Yes Zinc Add: ⊠ Specialty Resir Constant modi Perm Sca	Ultrason Macroporo fied pH: Yes ffolding: Yes	No If yeNo If ye	a: [01] es, range es, locati	Other:			Yes own Chem: ☐ Line? ⊠ Yes ☐	No ⊠ No
Perm Sh	ielding: Yes	⊠ No If ye	es, locati	ions:				

PCEs (Winter meeting – previous year's data; Summer meeting – YTD)					
	Level 1	Level II	Level III	Total	
On-Line	5	0	0	5	
Unit 1 Outage	5	0	0	5	
Unit 2 Outage	na	0	0	na	
Unit 3 Outage	na	0	0	na	
All PCEs	5	0	0	5	

Prepared By: Steve Edelman Date:1/13/15

HIGH INTEREST TOPIC AND QUESTIONNAIRE PWR ALARA Association Key West, FL January 20-22, 2015

Topic: Contact (Name) Plant NSSS Comments 2LW Ginna 2LW Kewaunee Point 2LW Beach 1,2 Prairie 2LW Island 1,2 Ringhals 2LW 2,3,4 3LW Beaver 3LW Valley 1,2 Farley 1,2 3LW Harris 3LW North 3LW Anna 1,2 Robinson 3LW Surry 1,2 3LW Turkey 3LW Point 1,2 VC 3LW Summer Braidwood 4LW 1,2 Byron 1,2 4LW Callaway 4LW Catawba 4LW 1,2 Comanche 4LW Peak 1,2 Cook 1,2 4LW Diablo 4LW Canyon 1,2 Indian 4LW Point 2,3 McGuire 4LW 1,2 4LW Salem 1,2

HIGH INTEREST TOPIC AND QUESTIONNAIRE

PWR ALARA Association Key West, FL January 20-22, 2015

Topic:			
Contact (Name)	Plant	NSSS	Comments
	Seabrook	4LW	
	Sequoyah 1,2	4LW	
	Sizewell B	4LW	
	South Texas 1,2	4LW	
	Vogtle 1,2	4LW	
	Watts Bar	4LW	
	Wolf Creek	4LW	
	Millstone 3,2	4LW, CE	
	Calvert Cliffs	CE	
	Ft. Calhoun	CE	
	Palisades	CE	
	Palo Verde 1,2,3	CE	
	San Onofre 2,3	CE	
	St.Lucie 1,2	CE	
	Waterford	CE	
	ANO 2,1	CE, B&W	
	Crystal River	B&W	
	Davis Besse	B&W	
	Oconee 1,2,3	B&W	
	TMI	B&W	
	Areva		
	EDF		
	Westing- house		



	Optional
Name:	
Utility:	

Winter 2015 Key West, FL January 20-22, 2015 **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 Report:_____ Technical Content:_____ Vendor Participation: 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 PWR/ALARA Association: Other Comments: Do you anticipate your plant being represented by you or another representative at the Summer 2015 Meeting in Seattle, WA? _____ If not, why?