

HIGH INTEREST TOPIC AND QUESTIONNAIRE
PWR ALARA Association Providence, RI June 23-25, 2014

Topic: Are your Annual and outage dose goals set on estimated exposure or official? If on est., do you sometimes read TLDs to make a goal? Comments			
Contact (Name)	Plant	NSSS	
	Ginna	2LW	
	Kewaunee	2LW	
Krystyn Kono	Point Beach 1,2	2LW	Estimate
	Prairie Island 1,2	2LW	
	Ringhals 2,3,4	2LW 3LW	
	Beaver Valley 1,2	3LW	
	Farley 1,2	3LW	
	Harris	3LW	
	North Anna 1,2	3LW	
WADE MILLER	Robinson	3LW	primarily based on historical data (TLD) then current conditions where available (needed D's.)
	Surry 1,2	3LW	
	Turkey Point 1,2	3LW	
Tom Corbett	VC Summer	3LW	ED DOSE/TLD IF AVAILABLE
Harry Miller	Braidwood 1,2	4LW	Secondary dose for outages. Annual goals will use primary as final results.
	Byron 1,2	4LW	
	Callaway	4LW	
Dana Page	Catawba 1,2	4LW	for the site we set annual & outage dose on estimated ED dose, we have to correlate to TLD for KPIs.
Sifan Mosty	Comanche Peak 1,2	4LW	Estimate - NO
David Miller	Cook 1,2	4LW	official TLD outage dose
	Diablo Canyon 1,2	4LW	
	Indian Point 2,3	4LW	
S. Lisi	McGuire 1,2	4LW	TLD results
	Salem 1,2	4LW	

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Topic:			
Contact (Name)	Plant	NSSS	Comments
Boehl	Seabrook	4LW	ED Dose, we Calibrate EDs to TLDs %2
Dobby	Sequoyah 1,2	4LW	Est. then correct after TLDs are read (sometimes) read TLD for special jobs
	Sizewell B	4LW	
	South Texas 1,2	4LW	
Andy Fields	Vogtle 1,2	4LW	Goals are set based on estimates + dose savings initiatives; tracked by ED dose
	Watts Bar	4LW	
	Wolf Creek	4LW	
	Millstone 3,2	4LW, CE	
Crystal Coney 410 495 2681	Calvert Cliffs	CE	Annual and outage exposure estimates are set based on the previous years performance. Goals are set based on quartile performance expectations.
	Ft. Calhoun	CE	
	Palisades	CE	
	Palo Verde 1,2,3	CE	
	San Onofre 2,3	CE	
	St. Lucie 1,2	CE	
	Waterford	CE	
Don Stoltz	ANO 2,1	CE, B&W	DLR
	Crystal River	B&W	
	Davis Besse	B&W	
B. H. Meldrum	Oconee 1,2,3	B&W	Based on TLD now, moving toward est. dose
Steve Edelmar	TMI	B&W	DLR reads
	Areva		
	EDF		
	Westinghouse		

McGuire

HIGH INTEREST TOPIC AND QUESTIONNAIRE

PWR ALARA Association

Providence, RI

June 23-25, 2014

Topic: ARE YOU HAVING ANY DOSE RATE ISSUES ON YOUR KHR SYSTEM, WHEN YOU BUMP RCP'S AT THE END OF AN OUTAGE?			
Contact (Name)	Plant	SSSS	Comments
	Ginna	2LW	
	Kewaunee	2LW	
	Point Beach 1,2	2LW	
Krystyn Kono	Prairie Island 1,2	2LW	Yes, CMT Spray & RHR areas increased & takes about a 9-12 mo to come back down
	Ringhals 2,3,4	2LW 3LW	
	Beaver Valley 1,2	3LW	
	Farley 1,2	3LW	
	Harris	3LW	
	North Anna 1,2	3LW	
	Robinson	3LW	
	Surry 1,2	3LW	
	Turkey Point 1,2	3LW	
TOM CORSETTI	VC Summer	3LW	NO
Harry Miller	Braidwood 1,2	4LW	AFTER HYDRAZINE ADDITION AND RCP (3RD) IS STARTED DOSE RATES INCREASE
	Byron 1,2	4LW	
	Callaway	4LW	
Dana Page	Catawba 1,2	4LW	no-not based on RCP bumps alone.
SHARI MOSTY	Comanche Peak 1,2	4LW	Yes - Particulates that have settled in piping
David Miller	Cook 1,2	4LW	No increase in dose rate observed on E.R.H.R. H.R. or Pump contact dose rates - Documented on 5 telemetry ED on GEDS will send data
Rick Rogers	Diablo Canyon 1,2	4LW	Not from RCP runs; Yes from thermal crud bust.
	Indian Point 2,3	4LW	
	McGuire 1,2	4LW	
	Salem 1,2	4LW	

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Topic:			
Contact (Name)	Plant	NSSS	Comments
Boehl	Seabrook	4LW	no Dose Rate increase
Deblay	Sequoyah 1,2	4LW	NO
	Sizewell B	4LW	
	South Texas 1,2	4LW	
	Vogtle 1,2	4LW	
	Watts Bar	4LW	
	Wolf Creek	4LW	
	Millstone 3,2	4LW, CE	
Crystal Covey 410 495 2681	Calvert Cliffs	CE	localized hot spot → Not really any GA increased dose rates
	Ft. Calhoun	CE	
	Palisades	CE	
	Palo Verde 1,2,3	CE	
	San Onofre 2,3	CE	
	St. Lucie 1,2	CE	
	Waterford	CE	
Nan Stoltz	ANO 2,1	CE, B&W	U1-(B&W) - No, special startup sequence only available for B&W plants or plants with vacuum fill capability. U2-(CE) - Yes, my opinion is debris in vessel originating from fuel handling.
	Crystal River	B&W	
	Davis Besse	B&W	
Bill Meldrum	Oconee 1,2,3	B&W	No
Steve Welton	TMI	B&W	localized hot spots
	Areva		
	EDF		
	Westing-house		

HIGH INTEREST TOPIC AND QUESTIONNAIRE

PWR ALARA Association Providence, RI June 23-25, 2014

Topic: Use of robotics, how are sites utilizing ~~the~~ robotics online & outage

Contact (Name)	Plant	NSSS	Comments
	Ginna	2LW	
	Kewaunee	2LW	
	Point Beach 1,2	2LW	
	Prairie Island 1,2	2LW	
	Ringhals 2,3,4	2LW 3LW	
	Beaver Valley 1,2	3LW	
	Farley 1,2	3LW	
	Harris	3LW	
	North Anna 1,2	3LW	
	Robinson	3LW	3 robots / (Rover) monitor waste tanks, filter change out first look, PatchBot, Warrior / Warrior modified w/ holding cage
	Surry 1,2	3LW	
	Turkey Point 1,2	3LW	
TOM CARBETT	VC Summer	3LW	WE HAVE A ROBOT BUT USE IN VERY INFREQUENTLY
Harry Miller	Braidwood 1,2	4LW	very little. if needed we borrow. maybe start @ Power f/ leaks.
	Byron 1,2	4LW	
	Callaway	4LW	
Dana Page	Catawba 1,2	4LW	Not to good - we don't have any robots - looking to purchase this year
Shane Moser	Comanche Peak 1,2	4LW	At Power 1's bioshield / HIC Surveys
David Miller	Cook 1,2	4LW	None
Rick Rogers	Diablo Canyon 1,2	4LW	Robots for ISI & underwater sub. RF doesn't own robots at this time
	Indian Point 2,3	4LW	
S. Lisi	McGuire 1,2	4LW	Filter changing, cavity work, HRA Inspections
	Salem 1,2	4LW	

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HIGH INTEREST TOPIC AND QUESTIONNAIRE
PWR ALARA Association Providence, RI June 23-25, 2014

Topic: Use of robotics - how are sites utilizing robotics for online & outage

Contact (Name)	Plant	NSSS	Comments
Boehl	Seabrook	4LW	Hot Log internal ISI, SG Primary, ^{Head} Volumetrics
Debbey	Sequoyah 1,2	4LW	NOT using
	Sizewell B	4LW	
	South Texas 1,2	4LW	
Abby Feldas	Vogtle 1,2	4LW	Very little use and not sure why
	Watts Bar	4LW	
	Wolf Creek	4LW	
	Millstone 3,2	4LW, CE	
Crystal Covey 410 495 2181	Calvert Cliffs	CE	Just borrowed one and have started to find areas/jobs to have the robot perform tasks.
	Ft. Calhoun	CE	only for online so far.
	Palisades	CE	
	Palo Verde 1,2,3	CE	
	San Onofre 2,3	CE	
	St. Lucie 1,2	CE	
	Waterford	CE	
Dan Stoltz	ANO 2,1	CE, B&W	Not available at this time.
	Crystal River	B&W	
	Davis Besse	B&W	
Bill Meldrum	Oconee 1,2,3	B&W	Own 1 PackBot 510 - use for power entry leak hunts, VT-2 insps, LARA entries, pressure washed RCS Demin. Next year will expand fleet.
Steve Edelman	TMI	B&W	As much as possible
	Areva		
	EDF		
	Westinghouse		

HIGH INTEREST TOPIC AND QUESTIONNAIRE

PWR ALARA Association Providence, RI June 23-25, 2014

Topic: Are you performing MSIP Before October 2015

Contact (Name)	Plant	NSSS	Comments
	Ginna	2LW	
	Kewaunee	2LW	
	Point Beach 1,2	2LW	
Knystyn Kono	Prairie Island 1,2	2LW	not sure
	Ringhals 2,3,4	2LW 3LW	
	Beaver Valley 1,2	3LW	
	Farley 1,2	3LW	
	Harris	3LW	
	North Anna 1,2	3LW	
	Robinson	3LW	
	Surry 1,2	3LW	
	Turkey Point 1,2	3LW	
	VC Summer	3LW	unsure
Henry Miller	Braidwood 1,2	4LW	41 - 2006 SPRING 42 - 2006 FALL
	Byron 1,2	4LW	
	Callaway	4LW	
Dana Page	Catawba 1,2	4LW	NO
Sharri Mosy	Comanche Peak 1,2	4LW	Contact for info on what not to do
David Miller	Cook 1,2	4LW	Already completed in 2010-2011.
Rick Rogers	Diablo Canyon 1,2	4LW	NO
	Indian Point 2,3	4LW	
Steve Lisi	McGuire 1,2	4LW	NO
	Salem 1,2	4LW	

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HIGH INTEREST TOPIC AND QUESTIONNAIRE PWR ALARA Association Providence, RI June 23-25, 2014

Topic:

Do you Plan on MSIP Before October 2015

Contact (Name)	Plant	NSSS	Comments
Boehl	Seabrook	4LW	7 nozzles planned October 2015
JEFF	Sequoyah 1,2	4LW	No
	Sizewell B	4LW	
	South Texas 1,2	4LW	
ADAM FIELDS	Vogtle 1,2	4LW	YES, completed March 2014+ will in Sept. 2014
	Watts Bar	4LW	
	Wolf Creek	4LW	
	Millstone 3,2	4LW, CE	
Crystal Covey 410 495 2681	Calvert Cliffs	CE	NO
	Ft. Calhoun	CE	
	Palisades	CE	
	Palo Verde 1,2,3	CE	
	San Onofre 2,3	CE	
	St. Lucie 1,2	CE	
	Waterford	CE	
Dan Stoltz	ANO 2,1	CE, B&W	No
	Crystal River	B&W	
	Davis Besse	B&W	
	Oconee 1,2,3	B&W	
Steve Edelman	TMI	B&W	Same time
	Areva		
	EDF		
	Westinghouse		

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HIGH INTEREST TOPIC AND QUESTIONNAIRE
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Topic: TVA SEQUOYAH: CRUD BURST VS FUEL CLEANING. DOES ANYONE FOREGO
 CRUD BURST and JUST CLEAN the fuel?

Contact (Name)	Plant	NSSS	Comments
	Ginna	2LW	
	Kewaunee	2LW	
	Point Beach 1,2	2LW	
Kwstyn Kono	Prairie Island 1,2	2LW	We do crudburst, have not heard about fuel cleaning. interested in fuel cleaning.
	Ringhals 2,3,4	2LW 3LW	
	Beaver Valley 1,2	3LW	
	Farley 1,2	3LW	
	Harris	3LW	
	North Anna 1,2	3LW	
	Robinson	3LW	CRUD BURST
	Surry 1,2	3LW	
	Turkey Point 1,2	3LW	
TOM CORBETT	VC Summer	3LW	CRUD BURST
Henry Miller	Braidwood 1,2	4LW	Forced Oxidation, No Fuel Cleaning
	Byron 1,2	4LW	
	Callaway	4LW	
Dana Page	Catawba 1,2	4LW	No, we had do crud burst and then clean fuel later in outage.
Shari Mosby	Comanche Peak 1,2	4LW	Crud Burst
David Miller	Cook 1,2	4LW	No, Cook uses CRUD Burst & speciality resin. Saved \$2 million in Fuel Cleaning Costs.
Rick Rogers	Diablo Canyon 1,2	4LW	NO. FOZ but no fuel cleaning
	Indian Point 2,3	4LW	
Steve Lisi	McGuire 1,2	4LW	Yes, clean fuel in SFA
	Salem 1,2	4LW	

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Topic:			
Contact (Name)	Plant	NSSS	Comments
	Seabrook	4LW	we Do crud burst + ultra Sonic Rel cleaning
	Sequoyah 1,2	4LW	
	Sizewell B	4LW	
	South Texas 1,2	4LW	
ADDY FIELDS	Vogtle 1,2	4LW	crud burst
	Watts Bar	4LW	
	Wolf Creek	4LW	
	Millstone 3,2	4LW, CE	
Crystal Coney 410 495 2681	Calvert Cliffs	CE	Crud Burst
	Ft. Calhoun	CE	
	Palisades	CE	
	Palo Verde 1,2,3	CE	
	San Onofre 2,3	CE	
	St. Lucie 1,2	CE	
	Waterford	CE	
Dan Stoltz	ANO 2,1	CE, B&W	No, but would be interesting exp experiment. However, due to improved chemistry, our crud burst cleanup is < 8 hrs, which is minimal impact, so omitting forced oxidation has less and less value as time goes on.
	Crystal River	B&W	
	Davis Besse	B&W	
Bill Meldrum	Oconee 1,2,3	B&W	We still do both just completed 1st round of fuel cleaning on all 3 units.
Steve Edelman	TMI	B&W	No fuel cleaning
	Areva		
	EDF		
	Westing-house		

HIGH INTEREST TOPIC AND QUESTIONNAIRE

PWR ALARA Association Providence, RI June 23-25, 2014

Topic: *Has your plant used Lok Ring connections on pipe in lieu of welding? If so, what issues did you have?*

Contact (Name)	Plant	NSSS	Comments
	GINNA	2LW	
	Kewaunee	2LW	
	Point Beach 1,2	2LW	
Kystyn Kono	Prairie Island 1,2	2LW	No, interested in info
	Ringhals 2,3,4	2LW 3LW	
	Beaver Valley 1,2	3LW	
	Farley 1,2	3LW	
	Harris	3LW	
	North Anna 1,2	3LW	
	Robinson	3LW	
	Surry 1,2	3LW	
	Turkey Point 1,2	3LW	
TOM CORBETT	VC Summer	3LW	NO
Harry Miller	Braidwood 1,2	4LW	NO
	Byron 1,2	4LW	
	Callaway	4LW	
Dana Page	Catawba 1,2	4LW	NOT that I aware of.
Shari Mastly	Comanche Peak 1,2	4LW	NO
	Cook 1,2	4LW	
Rick Rogers	Diablo Canyon 1,2	4LW	NO
	Indian Point 2,3	4LW	
Steve Lisi	McGuire 1,2	4LW	not sure what that is
	Salem 1,2	4LW	

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Topic:			
Contact (Name)	Plant	NSSS	Comments
Beehl	Seabrook	4LW	NO
JEFF N.	Sequoyah 1,2	4LW	No
	Sizewell B	4LW	
	South Texas 1,2	4LW	
Alday C Fields	Vogtle 1,2	4LW	NO, but interested in any info
	Watts Bar	4LW	
	Wolf Creek	4LW	
	Millstone 3,2	4LW, CE	
Crystal Covey 410 495-2681	Calvert Cliffs	CE	Not currently, but would also be interested in the feedback received
	Ft. Calhoun	CE	
	Palisades	CE	
	Palo Verde 1,2,3	CE	
	San Onofre 2,3	CE	
	St. Lucie 1,2	CE	
	Waterford	CE	
Dan Stoltz	ANO 2,1	CE, B&W	No, but please share info you gather. Thanks,
	Crystal River	B&W	
	Davis Besse	B&W	
	Oconee 1,2,3	B&W	Currently bench marking, hope to adopt soon.
Shane Edman	TMI	B&W	No
	Areva		
	EDF		
	Westing- house		

HIGH INTEREST TOPIC AND QUESTIONNAIRE

PWR ALARA Association Providence, RI June 23-25, 2014

Topic: *Is your outage estimate based on work and dose rates or management desires related to KPI's?*

Contact (Name)	Plant	SSS	Comments
	Ginna	2LW	
	Kewaunee	2LW	
	Point Beach 1,2	2LW	
Krystyn Kono	Prairie Island 1,2	2LW	Initial estimates made by management then adjusted after work based estimates are completed.
	Ringhals 2,3,4	2LW 3LW	
	Beaver Valley 1,2	3LW	
	Farley 1,2	3LW	
	Harris	3LW	
	North Anna 1,2	3LW	
	Robinson	3LW	Starts out of work & D's from past work then mgmt "suggests" lower estimates. Then scope gets cut, etc.
	Surry 1,2	3LW	
	Turkey Point 1,2	3LW	
Tom Corbett	VC Summer	3LW	INITIAL ESTIMATES ARE BASED ON WORK AND DOSE RATES THEN REVISIONS ARE MADE BY MGMT.
Harry Miller	Braidwood 1,2	4LW	DOSE ESTIMATE IS BASED ON SCOPE. FROM THAT DOSE GOAL IS ESTABLISHED TO DRIVE TOWARDS TOP QUARTILE
	Byron 1,2	4LW	
	Callaway	4LW	
Dana Page	Catawba 1,2	4LW	Work scope and dose rates
	Comanche Peak 1,2	4LW	KPI previous outage for INPO pts
David Miller	Cook 1,2	4LW	Normally work maintenance & dose rates from past 5-7 outages on same plant component, etc.
Rick Rogers	Diablo Canyon 1,2	4LW	Estimate based on work scope Goals driven by mgmt (KPI, INPO pts, top Quartile, etc.)
	Indian Point 2,3	4LW	
Steve Lisi	McGuire 1,2	4LW	yes, Challenge Goals are influenced by KPI's
	Salem 1,2	4LW	

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Topic:			
Contact (Name)	Plant	NSSS	Comments
	Seabrook	4LW	work scope, typical 10% Challenge Goal
Jeff N.	Sequoyah 1,2	4LW	Recently shifted more toward mgmt desires, top 1/4 Numbers.
	Sizewell B	4LW	
	South Texas 1,2	4LW	
Ally Fields	Vogtle 1,2	4LW	Initial estimates based on RWP estimates & scope; outage goal based on known dose reductions, and set as to not lose INPO index / KPI points
	Watts Bar	4LW	
	Wolf Creek	4LW	
	Millstone 3,2	4LW, CE	
Crystal Coney	Calvert Cliffs	CE	Based on previous work scope and man hours and the Area dose rates. However, our new focus is to gear toward top numbers and challenge work.
	Ft. Calhoun	CE	Projects to benchmark ways to bring the previous dose to the top numbers goals.
	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	Outage Goal is based on outage scope, with a 10-15% challenge. RWP estimates are based on scope only.
	Crystal River	B&W	
	Davis Besse	B&W	
B. H. Meldrum	Oconee 1,2,3	B&W	Roughly based on history + scope, heavily influenced by mgmt desires for quartile standing.
Steve Goldman	TMI	B&W	changing from goals to estimate based.
	Areva		
	EDF		
	Westing-house		

HIGH INTEREST TOPIC AND QUESTIONNAIRE

PWR ALARA Association Providence, RI June 23-25, 2014

Topic: *Your Site's 2014 Dollars per Person Rem Saved.*
Please provide any revision to your site value. David Miller - Cook

Contact (Name)	Plant	NSSS	Comments
	Ginna	2LW	
	Kewaunee	2LW	
	Point Beach 1,2	2LW	
<i>Kristyn Kono</i>	Prairie Island 1,2	2LW	<i>Same</i>
	Ringhals 2,3,4	2LW 3LW	
	Beaver Valley 1,2	3LW	
	Farley 1,2	3LW	
	Harris	3LW	
	North Anna 1,2	3LW	
	Robinson	3LW	
	Surry 1,2	3LW	
	Turkey Point 1,2	3LW	
	VC Summer	3LW	
<i>Harry Miller</i>	Braidwood 1,2	4LW	<i>U1 = 20K U2 = 20K</i>
	Byron 1,2	4LW	
	Callaway	4LW	
<i>Dana Page</i>	Catawba 1,2	4LW	<i>\$20,000 X INPO Quarterly Standing U-1 = \$20,000 (may be changing) U-2 = \$60,000.~</i>
	Comanche Peak 1,2	4LW	
	Cook 1,2	4LW	<i>same as 2013 \$32,632</i>
<i>Rick Rogers</i>	Diablo Canyon 1,2	4LW	<i>no change \$42,000 / Rem</i>
	Indian Point 2,3	4LW	
	McGuire 1,2	4LW	
	Salem 1,2	4LW	

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Contact (Name)	Plant	NSSS	Comments
Boehl	Seabrook	4LW	20K Times Into Quartile
	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	
Crystal Cove	Calvert Cliffs	CE	\$25000 per year
	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	
Bill Meldrum	Oconee 1,2,3	B&W	\$20,000 x INPO quartile standing, U-1 - \$20K U-2 - \$60K U-3 - \$40K
Steve Goldman	TMI	B&W	\$20K / quartile
	Areva		
	EDF		
	Westinghouse		

2013⁴ ISOE Information Sheet on U.S. \$/Person-Rem Saved Values by NPP Site

2014

Peach Bottom		\$80,000
Braidwood	20,000 X QUARTILE (20K X 1) = \$20,000	\$60,000
Dresden		\$60,000
LaSalle		\$60,000
Limerick		\$40,000
Wolf Creek		\$40,000
Byron		\$32,632
D. C. Cook	32,632	\$30,000
Crystal River		\$30,000
South Texas Project		\$25,000
Calvert Cliffs		\$25,000
WNP-2		\$25,000
Sequoyah		\$25,000
Watts Bar		\$25,000
Ginna		\$25,000
Farley		\$25,000
Browns Ferry		\$25,000
Surry		\$25,000
Callaway		\$20,000
Conn. Yankee (Haddam Neck)		\$20,000
Nine Mile Point		\$20,000
Vogtle		\$20,000
Palo Verde		\$20,000
Hatch		\$20,000
Susquehanna		\$20,000
Kewaunee		\$20,000
Clinton		\$20,000
Oyster Creek		\$20,000
San Onofre		✓ \$15,000 2014
Prarie Island		\$15,000
Vermont Yankee		\$14,000
Fort Calhoun		\$12,500
Millstone		\$12,500
Catawba		\$12,500
McGuire		\$12,500
North Anna		\$12,500
Oconee		\$12,500
Shearon Harris		\$12,000
Monticello		\$12,000
Cooper		\$10,000
Brunswick		\$10,000
Comanche Peak		\$10,000
Diablo Canyon		\$10,000
Duane Arnold		\$10,000
Fermi 2		\$10,000
H. B. Robinson		\$10,000
Hope Creek		\$10,000

2013 ISOE Information Sheet on U.S. \$/Person-Rem Saved Values by NPP Site

	\$10,000
Maine Yankee	\$10,000
Point Beach	\$10,000
PSE&G	\$10,000
Salem	\$10,000

2013 ISOE Information Sheet on U.S. \$/Person-Rem Saved Values by NPP Site

updated November 22, 2013	\$11,778	\$12,662	\$13,012	\$14,038	\$14,473	\$23,976
dollarem.xls	\$10,000	\$10,000	\$12,000	\$12,500	\$12,500	\$20,000
Plant	1995	2000	2001	2002	2005	2010
	Dollars /	Dollars /	Dollars /	Dollars /	Dollars /	Dollars /
	Man-Rem	Man-Rem	Man-Rem	Man-Rem	Man-Rem	Man-Rem
Wolf Creek	\$10,500	\$10,500	\$10,500	\$40,000	\$40,000	\$40,000
Perry	\$28,100	\$31,625	\$31,625	\$31,625	\$31,625	
Palisades	\$9,000	\$9,000	\$30,000	\$30,000	\$30,000	
Crystal River	\$10,000	\$10,000	\$10,000	\$30,000	\$30,000	\$30,000
Calvert Cliffs	\$10,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
WNP-2	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
Sequoyah	\$15,000	\$15,000	\$15,000	\$15,000	\$25,000	\$25,000
Watts Bar	\$15,000	\$15,000	\$15,000	\$15,000	\$25,000	\$25,000
Ginna	\$10,000	\$10,000	\$10,000	\$10,000	\$25,000	\$25,000
Conn. Yankee (Haddam Neck)	\$10,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
Farley	\$10,000	\$20,000	\$20,000	\$20,000	\$20,000	\$25,000
Nine Mile Point	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
Vogtle	\$10,000	\$20,000	\$20,000	\$20,000	\$20,000	\$20,000
Palo Verde	\$15,700	\$15,700	\$15,700	\$20,000	\$20,000	\$20,000
Hatch	\$10,000	\$10,000	\$10,000	\$20,000	\$20,000	\$20,000
Susquehanna	\$10,000	\$10,000	\$10,000	\$20,000	\$20,000	\$20,000
Kewaunee	\$9,000	\$8,000	\$8,000	\$8,000	\$20,000	\$20,000
D. C. Cook	\$18,000	\$18,000	\$18,000	\$18,000	\$18,000	\$32,632
South Texas Project	\$25,000	\$25,000	\$25,000	\$25,000	\$15,000	\$30,000
Browns Ferry	\$10,000	\$15,000	\$15,000	\$15,000	\$15,000	\$25,000
Prarie Island	\$20,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
River Bend	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	
Vermont Yankee				\$15,000	\$15,000	\$15,000
Fort Calhoun	\$10,000	\$12,000	\$12,000	\$12,000	\$14,000	\$14,000
Braidwood	\$10,341	\$13,000	\$13,000	\$13,500	\$13,500	\$60,000
Byron	\$10,341	\$13,000	\$13,000	\$13,500	\$13,500	\$40,000
Clinton	\$10,000	\$13,000	\$13,000	\$13,500	\$13,500	\$20,000
Dresden	\$9,500	\$13,000	\$13,000	\$13,500	\$13,500	\$60,000
LaSalle	\$26,282	\$13,000	\$13,000	\$13,500	\$13,500	\$60,000
Quad Cities	\$10,341	\$13,000	\$13,000	\$13,500	\$13,500	\$80,000
Zion	\$9,500	\$13,000	\$13,000	\$13,500	\$13,500	
TMI					\$13,000	\$80,000
Millstone	\$20,000	\$20,000	\$20,000	\$20,000	\$12,500	\$12,500
Oyster Creek	\$20,000	\$20,000	\$20,000	\$12,500	\$12,500	\$20,000
Catawba	\$12,500	\$12,500	\$12,500	\$12,500	\$12,500	\$12,500
McGuire	\$12,500	\$12,500	\$12,500	\$12,500	\$12,500	\$12,500
North Anna	\$12,500	\$12,500	\$12,500	\$12,500	\$12,500	\$12,500
Oconee	\$12,500	\$12,500	\$12,500	\$12,500	\$12,500	\$25,000
Surry	\$12,500	\$12,500	\$12,500	\$12,500	\$12,500	\$12,500
Shearon Harris	\$10,000	\$10,000	\$12,500	\$12,500	\$12,500	
Beaver Valley	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	
Monticello	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000
Cooper				\$12,000	\$12,000	\$12,000
Arkansas Nuclear One	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	10,000
Brunswick	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
Comanche Peak	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	
Davis Besse	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
Diablo Canyon	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
Duane Arnold	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
Fermi 2	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	
Grand Gulf	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
H. B. Robinson	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
Hope Creek	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000

2013 ISOE Information Sheet on U.S. \$/Person-Rem Saved Values by NPP Site

Turkey Point	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
V. C. Summer	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000
Callaway	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$25,000
Fitzpatrick	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
Indian Point 3	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	
Waterford	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	
Average	\$11,778	\$12,662	\$13,012	\$14,038	\$14,473	\$23,976
Median	10000	10000	12000	12500	12500	20000