

2017 Winter Meeting Key West, FL January 24-26, 2017



### **2017 Board of Directors**

### Chairman

2015-2017 Term

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

### Vice-Chairman

2015-2017 Term

2017-2019 Term as Chairman

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

### **Secretary**

2017-2019 Term

To be filled at Winter 2017 meeting

### **Treasurer**

2015-2017 Term

Kinsey Boehl (603-773-7638) kinsey.boehl@fpl.com – Seabrook

### **Steering Committee "At Large" Members**

2015-2017 Term

Jeff Fontaine (724-462-3423) fontainej@firstenergycorp.com – Beaver Valley John Cuffe (620-364-8831 x8080 jocuffe@wcnoc.com – Wolf Creek Rick Rogers (805-545-3246) rwr2@pge.com – Diablo Canyon

### **Steering Committee "At Large" Members**

2017-2019 Term One Position open

### Past-Chairman / Advisor

2015-2017 Term

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

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



# Key West June 24-26, 2017

### MEETING BOOK INDEX

TAB	TOPIC			
1	Meeting Agenda & Note Pages			
2	Meeting Critique form			
3	List of PWR Attendees by Plant Name			
	List of Vendors Attendees by Company Name			
4	Meeting Presentations			
5	High Interest Topic			

# PWR RP/ALARA Association Meeting Agenda Key West, FL - January 2017



### Monday, January 23

4:00 – 6:00 pm Steering Board Members - Pre-Meeting & Appetizers



### Note To all the PWR RP ALARA Association Representatives:

This is to inform you that PWR RP/ALARA Association Meeting has been granted 1 Continuing Education Credit (CEC) per contact hour to a maximum of 20 CEC and assigned ID 2015-00-038. This credit applies to calendar years 2015-2018.

Please be advised that contact hours do not include meals or business meetings without technical content.

As credit was requested for all participants, this assignment will be posted to the AAHP website.

### Tuesday, January 24



2:00 – 3:00 pm Meeting Registration – Salon Foyer

3:00 – 4:00 pm Opening Ceremonies & Introduction in Salon C:

- Welcome Opening Remarks (Dana Page)
- Safety Review Building Escape Routes (Steve Lisi)
- Safety Message (Steve Lisi)
- Introduction of NSA Representative (Rick McCormick)
- Introduction of "Host" Nuclear Plant Representative (John Cuffe Wolf Creek)
- Introductions of Board Members (Dana Page)
- Introduction of Association Members (All)
- Association Secretary Report (Jeff Fontaine)
- Association Treasury Report (Kinsey Boehl)
- Establish Meeting Expectations/Review Agenda & Meeting Book Contents (Dana Page)
- Bench Mark Question Solicitation & High Interest Topic Sheets (Rick Rogers)
- Nominations for Secretary & "At Large" Board Member (2 Positions) (Steve Lisi)
- Adjourn Day 1 (Dana Page)

4:15 – 4:45 pm Steering Committee Meeting

5:00 – 6:30 pm Opening Reception & Vendor Displays in Salon A & B

# Wednesday, January 25



07:00 - 08:00	Breakfast with Vendors in Salon A & B
08:00 - 08:05	Meeting Overview (Dana Page)
08:05 - 08:10	Safety Message (Rick Rogers)
08:10 - 08:20	ALARA Association Group Picture
08:20 – 09:40	Breakout Sessions by Plant Type (Document Successes & Challenges and a Golden Nugget)  • 2 Loop & 3 Loop Westinghouse (Jeff Fontaine)  • 4 Loop Westinghouse - will break out into 2 groups (Kinsey Boehl & Rick Rogers)  • 4 Loop ICE (Steve Lisi & Dana Page)  • B & W, CE and Decommissioning Units (Steve Edelman)
09:40 – 10:00	Break / Vendor Interface (Report to Break out Rooms after break)
09:40 – 10:00 10:00 – 11:30	· · ·
	<ul> <li>break)</li> <li>Breakout Session by Plant Type (Document Successes &amp; Challenges and a Golden Nugget)</li> <li>2 Loop &amp; 3 Loop Westinghouse (Jeff Fontaine)</li> <li>4 Loop Westinghouse - will break out into 2 groups (Kinsey Boehl &amp; Rick Rogers)</li> <li>4 Loop ICE (Steve Lisi &amp; Dana Page)</li> </ul>

12:30 – 1:30	Lunch
1:30 – 2:30	Presentation - Water jet Peening (John Cuffe - Wolf Creek)
2:30 – 2:40	10 Minute Break
2:40 – 3:30	Vendor Presentations (Remaining vendors)
3:30 – 3:40	Vote for New Board Members
3:40 – 3:50	End of Day Comments / Adjourn Day 2
4:00 – 4:30	Steering Committee Meeting
5:00 - 6:30	Vendor Reception on the Beach

# Thursday, January 26



08:00 - 09:00	Breakfast with Vendors in Salon A & B
09:00 - 09:03	Safety Message (Kinsey Bohel)
09:03 - 09:05	Voting Results for New Board Members (Kinsey Bohel)
09:05 – 10:35	Breakout Session Review (Successes, Challenges and Golden Nuggets)  • 4 Loop Westinghouse (Kinsey Boehl & Rick Rogers)
10:35 – 11:00	Break / Vendor Interface
11:00 – 12:00	Breakout Session Review (Successes, Challenges and Golden Nuggets)  • 2 Loop & 3 Loop Westinghouse (Jeff Fontaine)

### 12:00 – 1:10 Lunch / Passport Drawing

- 1:10 2:10 Breakout Session Review (Successes, Challenges and Golden Nuggets)
  - 4 Loop ICE (Steve Lisi & Dana Page)
  - B & W, CE and Decommissioning Units (Steve Edelman)
- 2:10 2:20 **Break**
- 2:20 3:00 Round Table Discussions
- 3:00 3:15 Closing Remarks and Update on 2017 Summer Meeting (Charleston, SC)



June 21-23, 2017

### 3:30 – 4:30 Steering Committee Post-Meeting

- Opening Remarks
- Welcome New Members
- Review Meeting Critique Sheets
- New Business



## Key West, FL January 24-26, 2017 MEETING NOTES

-	
1	



	Optional	
Name:		
Utility:		
•		

Winter 2017 Key West, FL January 24-26, 2017 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: Only collected at the Summer meetings
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 2017 Meeting in Charleston, SC? If not, why?

### PWR RP/ALARA Committee Meeting January 24-26, 2017 Key West, FL Attendee List by Plant

**ANO** 

**Melody Gibson** 

Entergy

1448 State Route 333 Russellville, AR 72802

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**Beaver Valley Power Station** 

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**Braidwood** 

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**Byron** 

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**DC Cook** 

**David Miller** 

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217-855-3238

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**Diablo Canyon** 

**Rick Rogers** 

PG&E

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805-545-3246 rwr2@pge.com

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Three Mile Island

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**VC Summer** 

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Vogtle

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**Wolf Creek** 

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Wolf Creek
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jaervin@wcnoc.com

**Wolf Creek** 

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### PWR RP/ALARA Committee Meeting January 24-26, 2017 Key West, FL Vendor List by Company

### **ACT / Silflex Shielding**

Dan Schultz

1317 Simpson Way Escondio, CA 92029

619-913-6205

adrian@silflexshielding.com

### **AREVA**

Ron Jaworowski Lew McKeague John Thomas

3315A Old Forest Road Lynchburg, VA 24501

704-877-8450

ronald.jaworowski@areva.com

### **BHI Energy**

Rick Peck Bill Peoples

97 Libbey Industrial Pkwy Weymouth, MA 02189

508-591-1149 stephanie.fox@ bhienergy.com

### Day & Zimmermann

Luther Jones

5426 Robin Hood Road Norfolk, VA 23513

540-205-5802

luther.jones@dayzim.com

### **Eastern Technologies/OREX**

Doug Kay 215 2<sup>nd</sup> Avenue Ashford, AL 36312 334-798-1687 bmcwaters@orex.com

### **EnergySolutions**

David Wry

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Oak Ridge, TN 37830

865-481-6309

klmcreynolds@energysolutions.com

### **Frham Safety Products**

Bobby Harper Robbie Millen 171 Grayson Road Rock Hill, SC 29732 803-366-5131

trip@frhamsafety.com

### H<sub>3</sub>D

Y. Andy Boucher 3250 Plymouth Road, Ste 303 Ann Arbor, MI 48105 734-661-6416 andy@h3dhamma.com

### **Innovative Industrial Solutions**

Stan Robinson 2830 Skyline Drive Russellville, AR 72802 479-857-6204 stan.robinson@i-i-s.net

### **ISEC Industrial Security AB**

Anthony Spadaro Sporthallsvagen 2B Hoganas Sweden ansp@isec.se

### **Lancs Industries**

Ray Suarez

12704 NE 124th Street Kirkland, WA 98034

623-363-7687

rsuarez@lancsindustries.com

### **Ludium Measurements**

Jeff Anspaugh Allan Hartfield Mike Shepherd 501 Oak Street

Sweetwater, TX 79556

325-235-5494

ctruitt@ludlums.com

### Master-Lee Decon Services

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609-953-3200

mccormick-ml@comcast.net

### **Mirion Technologies**

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Smyrna, GA 30082 203-639-2148

tpattison@mirion.com

### **Newport News Industrial**

Tiffany Boyle Kristin Smith 11850 Jefferson Ave Newport News, VA 23606 757-619-2578

Tiffany.m.boyle@hii-nns.com

### **NPO / Eichrom Technologies**

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Rebecca Pazos

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rpazos@eichrom.com

### **NU-Energy Technologies**

David Cruise Mark Milewski PO Box 809

Quinton, VA 23141 804-337-9331

David.cruise@

nu-energytechnologies.com

### Pajarito Scientific (formerly RPS)

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tpapso@pscnda.com

### **Radium Inc**

Cam Abernethy 463 Dinwiddle Avenue Waynesboro, VA 22980 540-942-5734

cabernethy@radiuminc.com

### **Reef Industries**

Britney Marburger Joe Oppenheimer 9209 Almeda Genoa Road Houston, TX 77075 713-507-4270

pwest@reefindustries.com

### **Rolls Royce**

Tom Kennedy 6546 Pond Road Williamson, NY 14519 800-836-0285 Thomas.kennedy@ rolls-roycenuclear.com

### **S&W Technologies**

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23 Scarborough Park Rochester, NY 14625

585-787-9799

rservati@swtechnologies.com

### Scientech/Curtiss-Wright

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jhedtke@curtisswright.com

### **UniTech Services Group**

Denise Arlen

Shannon Fitzgerald 295 Parker Street

Springfield, MA 01151

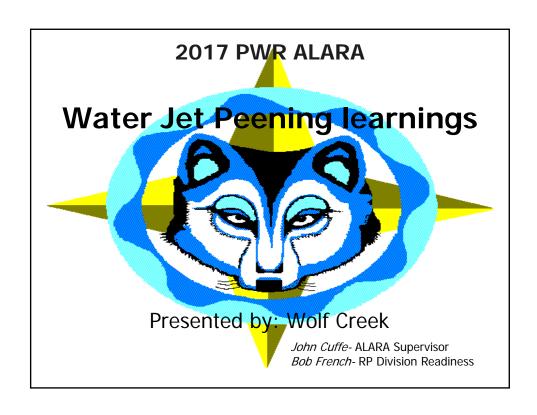
413-543-6911

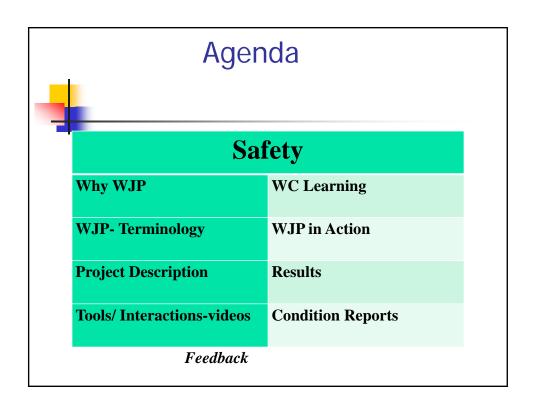
lperez@unitechus.com

### **Victoreen - Fluke Biomedical**

Mark Marlowe Mike Thompson 6045 Cochran Road Solon, OH 44139 440-248-9300 Deanne.wodecki@

flukebiomedical.com







# Safety

Radiation Protection had 3 contract first aids with **NO** 

Recordable or loss time injuries!!!

&

No posting or regulatory infractions!!

# Why WJP instead of MSIP?



Water Jet Peening vs. MSIP (Mechanical Stress Improvement Process)

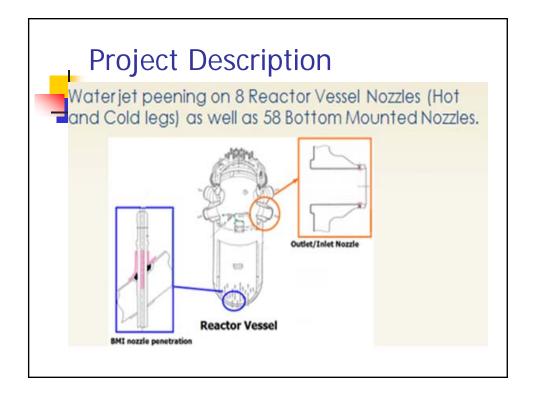
Dose, Duration, Dollars

- ~ 10 Rem vs. ~80 Rem
- ~17 days vs. ~40 days
- $\sim$  \$\$ VS. \$\$\$\$ (Wolf creek would have to remove/replace the permanent cavity seal ring)
- Doing Nothing was not an option. Currently Wolf Creek operates with a high hot leg temperature (3rd highest T-hot in the US) compounding the risk of primary water stress corrosion cracking.

\*\*WJP was controlled as a "Special Process" under 10CFR50 Appendix B criteria

# WJP- (what and why) Terminology

- RVN-WJP tool is known as RVN tool
- BMN-NDE tool is known as NDE tool
- BMN-WJP tool is known as BMN tool
- The NDE tool is taller than the BMN tool.
- The RVN tool also does eddy current to find the boundaries of the dissimilar metal portion of the piping.
- The BMN tool has a couple of modes. Standard does the WJP and J weld. A bracket change is required to do
  the extended J-weld for the EJ mode.
- The BMN tool will also do eddy current of inside of BMN tubes. This is looking for any defects, but is not the
  typical EC with all its certs, just see something/say something.
- NDE will be performed on tubes 43-58.
- BMN is done on tubes 29-58.
- HPPS skid has three relief valves, 16,000, 18,000, 20,000. The 16,000 relieves back into the system.
- The Tri-Nuc discharges into tank 101, the large tank.
- There is a separate cooling system on the skid, down below, has own pump, closed loop, cools the PDP.
- The circles on the back of the RVN tool are counterweights
- Have to change nozzles after two loops on the RVN tool due to potential erosion of nozzle. The tool rotates
  upside down to make the change; they do not have to work underneath the tool.
- Have to change nozzles every 10 BMNs. Each time there is a change on both tools, they have to do a pre and
  post measurement of the nozzle. The tools are small feeler go/no-go probes. Have to insert them into the hole.



# Project Description, cont.



- Rigging equipment into and out of the cavity
- Nozzle change out and functional checks (Wet tool)
- Filter change out (Master Lee assistance)
- Personnel handling multiple cables (Wet cabling)
- Cleaning equipment when activities are complete
- Packaging equipment for shipping (In Containment)
- Removing containers from Containment to RCA Yard
- Removing containers from RCA Yard and shipping back to Alaron

Keep in mind there are two bridge working platforms so multiple tasks will be taking place at the same time.

# **Tools / Interactions - video**



\*RVN-WJP -Tool Mechanism

\*RVN-WJP -Tool Installation

\*RVN-WJP –Tool Implementation

# **Tools / Interactions - video cont.**



- \*BMI-NDI Mechanism
- \*BMI-NDI Implementation
- \*BMI-WJP Mechanism
- BMI-WJP Implementation

# WC Learning, Pre outage



Pre-outage mock-up training — Wampum, PA



### Wockup Facility III wampum, PA

- Mobilization and setup including bridge erection
- BMN NDE to establish weld boundaries
- BMN WJP 58 bottom mounted nozzles
- $\bullet \ \ BMN\ WJP\ extended\ j-welds-11\ BMNs\ on\ outer\ perimeter\ of\ bottom\ head$
- RVN UT to determine if pre-existing cracks were present
- RVN WJP welds on 4 hot leg and 4 cold leg nozzles
- Demobilization
  - All were attended by Wolf Creek teams



# WC Learning, Training

### ALARON Radiation Protection facility visit

This visit in support of Water Jet Peening consisted of Two teams on two separate visits. Week one 2 RP supervisors visited and provided template feedback to both our WJP and Wolf creek teams. This template was utilized as a follow up tool for our second team.

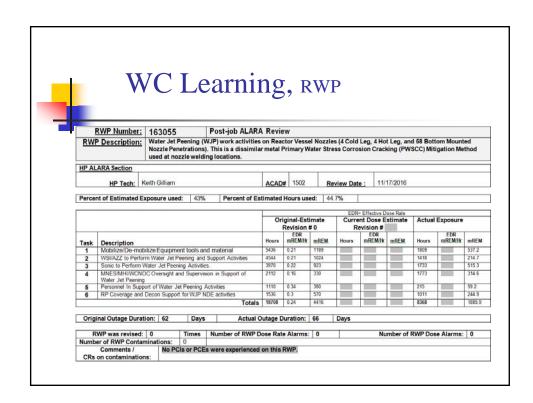
Week two team Two consisted of Two RP technicians and two different supervisors. WJP project at Alaron was receptive to feedback/coaching as the team learned more about the interactive portions of the project and provided hands on participation in the project evolutions. This was both shifts with dress out practices occurring on Wed and Thurs.

An alignment conference call was made to site on Tuesday and carried forward into performances the following days. All project members were very receptive and helpful in assisting in data gathering and knowledge sharing.

The wolf creek RP team was provided opportunities to speak during each crew brief.

The overall conclusion of the team is that the main goal was to ensure/establish open lines of communication and a teaming atmosphere. This was accomplished. Wolf Creeks Radiation Protection Expectations were conveyed in every dialog utilizing the above format.

Operations, Quality Control, Security also had similar training visits to Alaron facility in support of Water jet Peening project.



# WC Learning, ALARA Package

- Work Group Supervisor/HIT Leader Section

  Comments on Exposure Estimate:
  [Explain why exposure is \$40% or \$120% of original estimate. Explain revisions made to estimate. Information shall be detailed]

  Actual dose on this RWP was significantly below the estimate. This was a first time task in a US Commercial Nuclear Plant. The main reason dose was lower than expected was that fewer hours were expended than expected. Because this was a first time evolution, the hours were based on performance in the Alazon mochap and on a review of the procedures. The mockup and procedures indicated a higher amount of hours, but the workers were able to work more efficiently as they gained actual field experience.
  In addition, the dose reats used for the dose estimates assumed similar dose rates to hose seen during preclaining, operations. However, dose rates were elower due to several factors:

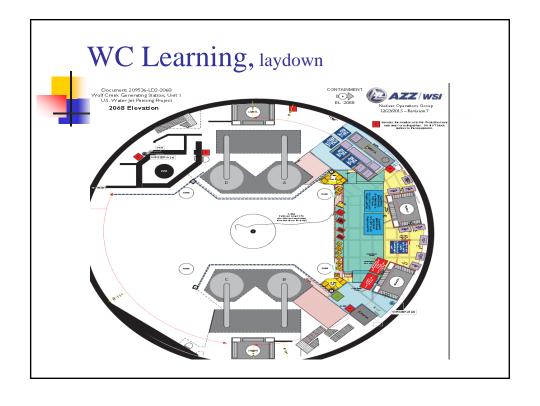
   Time since shutdown. Due to a canopy seal weld leak on the Reactor Vessel Head, the plant shut down three weeks earlier than planned. This provided decay time and extra Reactor Coolant System cleanup time.

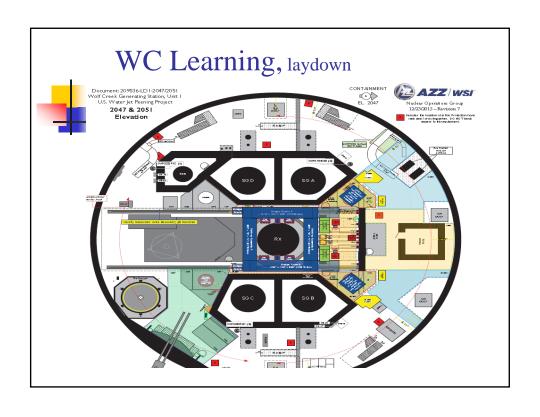
   Activity created by the process. For reasons documented in the ALARA Plan, no dose or dose rates information was a valiable from the projects performed in Japan.

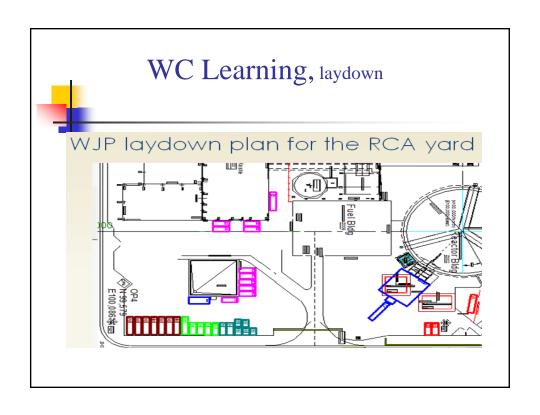
  Astumptions were made that the activity created by the process would increase dose rates on the surface of the Refuel Pool, increasing the dose rates on the walkways. However, dose rates on the walker are reason than the pool were 1.1 to 1.3 mem hour throughout the project.

   Dose rates and contamination levels on the Warte Jer Percolain Tools. The same on the tools were less shan 100 mem hour contact. Contamination levels were less than 50 not beginned to not highly contaminated. The highest dose rate was on the RVN Tool after penning all the RVNs. Pre-Decon dose rates were 230 mrem hour contact. 30 mrem hour and the process on the highest dose rate was on the RVN Tool after penning all the RVNs. Pre-Decon dose rates were 230 mrem hour contact. 30 mrem hour and the sur

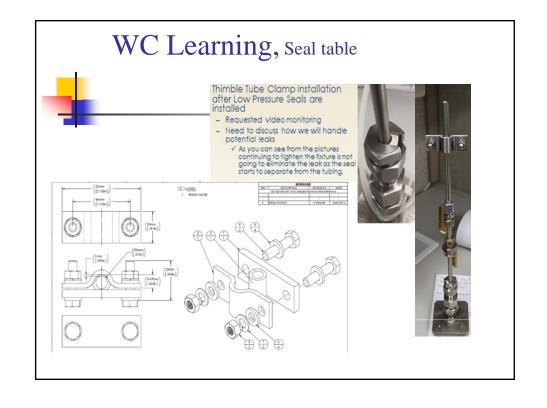
# CR(s) on RWP exposure: Problems Encountered and dose issues: Procedure issues and equipment problems occurred, but this did not impact dose. The problems impacted schedule performance, but when delays occurred, the workers followed their brief and moved of the walkness, and the substance of the walkness of the walkness. Strengths: The workers had good work practices, changing gloves and wiping the area down. RP coverage was excellent, providing prompt survey information. Additional information (Suggested Enhancements for future work / RWP Issues): Post Job Comments by Work Group Supervisor / HIT Leader: The WSI SONIC personnel shandling the WIP teoling were very experienced at moving equipment in and out of the refueling canal water. This also provided dividends to keeping contamination and PEE very low.

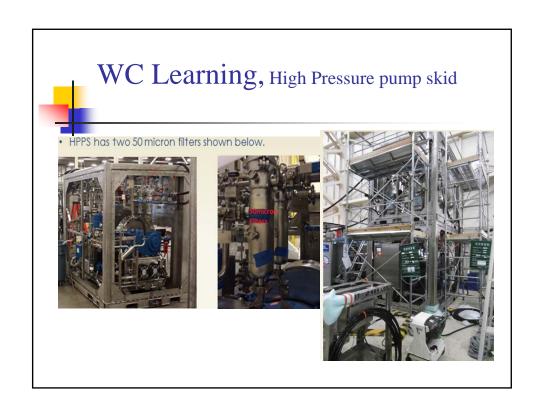


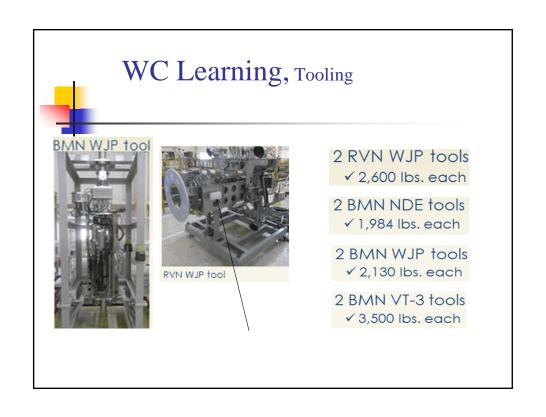












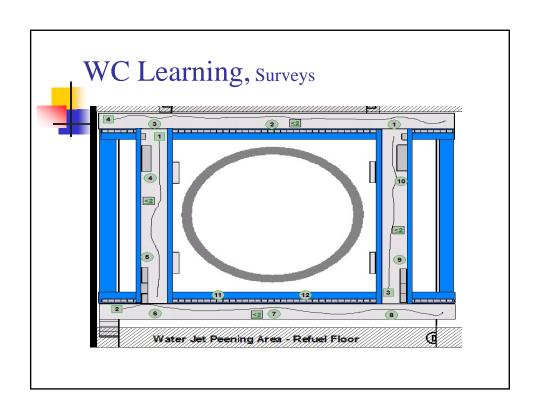


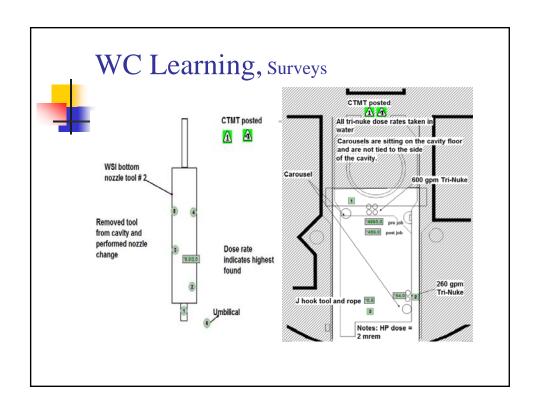
• Boxes can be rigged with the tops on or off

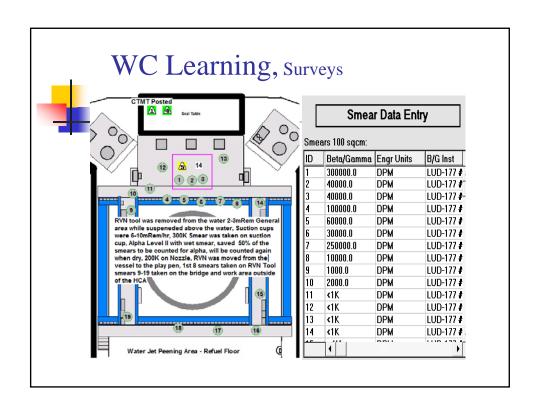


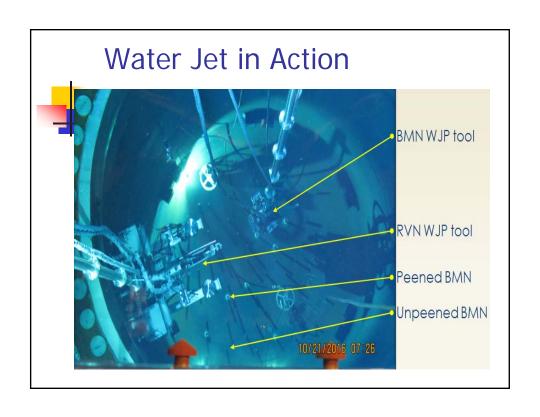


# WCC Learning, Filters | FILTER | MICRORN | REASON FOR CHANGE | (Unterflower) | (Unterflower)

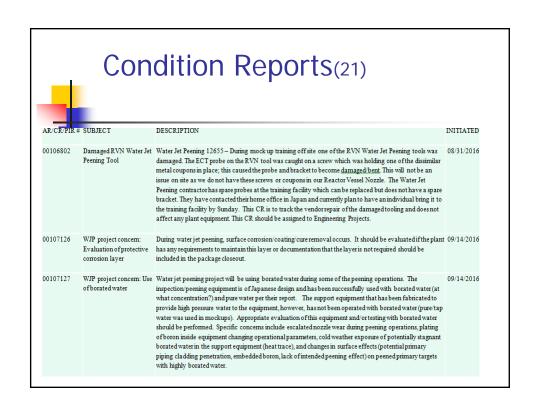




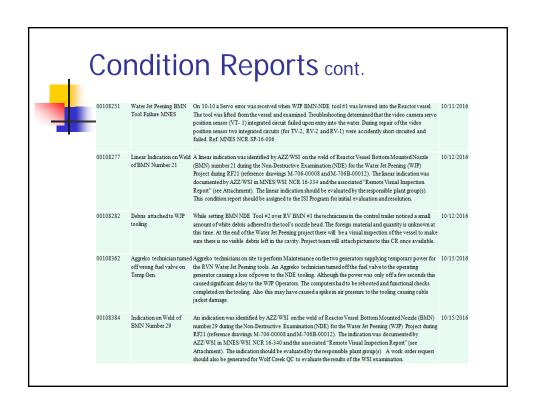




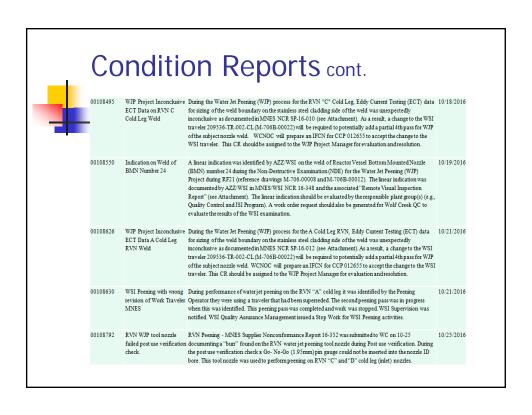


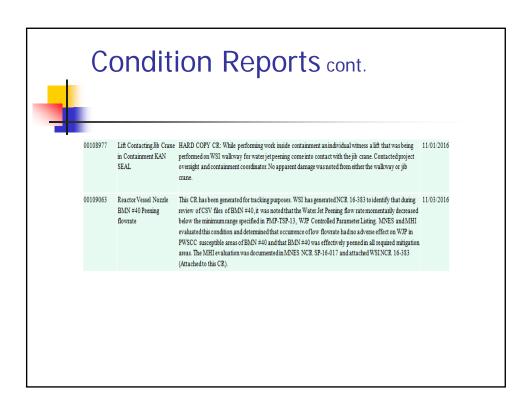


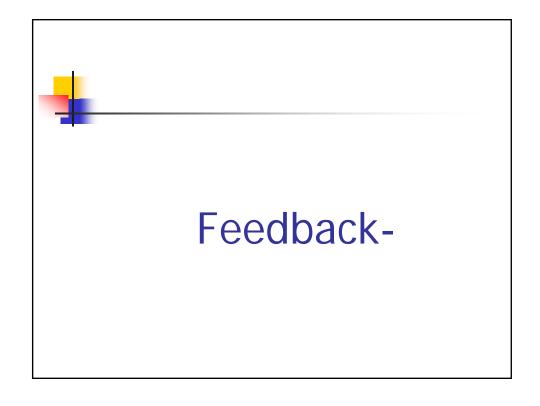
•	00107742	Ondit	This CR is being generated to document the potential of foreign material in the reactor coolant system as a result of the failure of the normal charging pump (PBG04). It has been discussed that that since the normal charging pump (NCP) internals seized from full rotational speed in an expeditious manner, there is a possibility that material was removed from the internals of the NCP and has been deposited in the discharge piping. This discharge piping is also common with the safety related centifugal charging pumps which have been operated since the damage occurred to the NCP which could have deposited debris throughout the RCS. At the time of the damage, flow was established to the RCP seals; however any debris in this line would have been captured in the seal injection filters and is not a concern. The inspection of the lower or plate was completed after core off load with no foreign material found. There are currently plans to remove the lower internals to support water jet peening at which time further inspections for foreign material will occur. When the normal charging pump internals are replaced under WO series 16-417884, the pump internals should be inspected to determine if any material is missing to decide if further piping inspections for foreign material are warranted.	09/30/2016
	00107792	RVN Water Jet Peening Delay by Contractor WSI	RVN Peening delay by Contractor. WC was notified by WSI (Puzan) on 9-28 that all the WSI/Sonic personnel will need 4 hours of Traveler training as required by the WSI QA program. This training is required due to all of the Traveler changes that were made at Alaron during crew training. This training is being performed on Critical Pathtime.	10/01/2016
	00107806	Containment 2068 Elev Temporary Work Platforms	The two (2) 2068' elevation work platforms erected for the Water Jet Peening (WJP) Project during RF21 were inadvertently erected and subsequently accepted by Project Engineering without having the deck support beams secured from below by clamping runners of scaffold poles to the bottom flanges as required by Note 8 of Attachment 2 of the TCC BED for SWOs 15-402898-035,-036, and-039. These scaffold runners serve to maintain the alignment of the beams necessary to secure the deck plates as well as to stabilize the assembly for deck installation. The scaffold poles were also to serve as connection points for an edge handrail fabricated from scaffold poles. Each deck beamis currently secured by wire to the 2068' elevation floor grating and the platform deck plate and beams are banded together as required; consequently, the platform is stable and secure, is not an immediate safety concern, and can be used as erected. Nevertheless, Project Engineering recommends that the scaffold runners be installed to add structural stability and as a complement to the wire tie- offs, as intended. This condition report should be assigned to the Water Jet Peening Project Manager for resolution.	10/02/2016



C	ondit	ion Reports cont.	
00108415	Water Jet Peening - WSI missed signing Master Work Traveler	WSI Operators were working thru the Traveler steps for placing RVN tool $\#1$ into the water when it was identified that Master traveler did not have QC hold point signature for the peening spray nozzle torque. QC did verify torqueing but failed to complete administrative sign of fin work document	10/16/2010
00108455	Clanfy WJP Contractor Procedure QAP 9 3R Exam Criteria	During the Water Jet Peening (WJP) Contractor's implementation of Contractor's procedure QAP 9.3R, Rev. 0, Remote Visual Examination of Bottom Mounted Nozzles (BMNs), there have been several visual examination to the Contractor's visual examination and examination of Bottom Mounted Nozzles (BMNs), there have been several visual examination to the examination document the need for improved guidance/clarification on implementing the current Revision 0 and for a procedure revision to QAP 9.3R to incorporate such guidance/clarification on the examination and reporting citieria for these visual examinations. Most of the reported indications have been construction-type indications, which are not in accordance with the stated procedure purpose. That purpose as stated in QAP 9.3R (step 1.3.1), is to "assume there is no evidence of pre-WJP primary water stress corosion cracking," Stated differently, the purpose is tolerably service-induced indications in the prescribed examination areas that are pertinent to pre-WJP exams. The indications being reported are not service-induced indications or are outside the prescribed examination areas and do not need to be identified or reported to WCNOC. This is because the construction of the Reactor Vessel and the BMNs (including most of the indications being identified) were previously examined and accepted by appropriate Code required construction and preservice examinations prior to Wolf Creek initial operation and no internal work to the Reactor BMNs has been performed since construction. It is recommended that its WJP Contractor Team (MNES and WSI) to assure the Contractor's visual examiners understand the WCNOC requested and approved visual examination and report criteria as stated in contractor's procedure QAP 9.3R, Rev. 0. It is also recommended that the Contractor incorporate WCNOC recommended changes to the procedure criteria in the upcoming revision planned for QAP 9.3R.	10/17/2016
00108456	WJP Project Work Instruction Change and	During Water Jet Peening (WJP) Project activities, WSI issued a change to work instruction (WI) WJP-WI- 10, Pre-RVN-WJP-Functional Checks, Revision 2 via NCR 16-342 before the WI revision had been transmitted to and accepted by WCNOC. The change to the WI via NRC 16-342 was accepted by	10/17/201







# HIGH INTEREST TOPIC AND QUESTIONNAIRE

PWR ALARA Association Key West, FL January 24-26, 2017

Topic:			
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	
	Surry 1,2	3LW	
	Turkey Point 1,2	3LW	
	VC Summer	3LW	
	Braidwood 1,2	4LW	
	Byron 1,2	4LW	
	Callaway	4LW	
	Catawba 1,2	4LW	
	Comanche Peak 1,2	4LW	
	Cook 1,2	4LW	
	Diablo Canyon 1,2	4LW	
	Indian Point 2,3	4LW	
	McGuire 1,2	4LW	
	Salem 1,2	4LW	

# HIGH INTEREST TOPIC AND QUESTIONNAIRE

PWR ALARA Association Key West, FL January 24-26, 2017

Topic:			
	1	1	
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		