

ZGroup- (I/C Westinghouse) Facilitator – Dana Page

ALARA Successes / Lessons Learned – what has worked?

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Plant- Byron Contact: Scott Leach	First success: PRC-01-M 15cu/ft. bed overlay and shutdown protocol reduced outage shutdown dose rates 80% - 22.1 rem outage Second success: Wi-Fi installation throughout the plant, starting using Wi-Fi cameras. World record Sizewell 2008 - 21.5 rem - Braidwood 2015 - 16.8 rem US record Palo Verde 2012 - 19.2 rem - Byron 2015 22.1 rem
Plant- Cook Contact: Dave Miller	First success: U-2 outage lowest CO-60 in 10-6 in US. Seeing other isotopes that were masked by the cobalt. Second success: Monthly conference calls to all CZT users to discuss the findings of analysis helps everyone on how to use this new ALARA tool.
Plant- Catawba Contact: Dana Page	First success: Started on CZT analysis. Second success: Inroads being made to remove delay coils (primary sampling) which is a source of dose during outage. (bypass being installed to insure no issues) may chemical decon and abandon in place
Plant- McGuire Contact: Steve Lisi	First success: Use of FLTRSTOR to load SFP stored filters. Reduced packaging from 300 mrem to 69 mrem. Second success: Strong teamwork in forced outage and dose reduction for PZR manway leak, Reduced dose estimated from 2.4 rem to 1.2 rem

ALARA Challenges / Lessons Learned – what has not worked?

Plant- **Byron**
Contact: Scott Leach

- First Challenge: Neutron capturing (assignment) for ISFSI is not accurate.
- Second Challenge: Filtering water from Rx head CRDM peening.

Plant- **Catawba**
Contact: Dana Page

- First Challenge: Loss of PASCE system for 3D mapping. This program is primary used by ALARA for planning.
- Second Challenge: Processes are increasing as we get Fleet organized. The ALARA group has become accountants and procedural driven. Little time for ALARA initiatives and discovery of dose reduction ideas.

Plant- **McGuire**
Contact: Steve Lisi

- First Challenge: On-line Emergent dose, 2400 mrem received due to PZR manway leak. Additional 1000 mrem dose for leakage investigation.
- Second Challenge: Low ALARA staff (2 + Supervisor) is challenged to maintain change of processes. (see Catawba)

Plant- **Cook**
Contact Dave Miller

- First Challenge: Reduce Dry cask load to under 100 mrem/cask
 - Second Challenge: Applying CZT images to survey maps for pre-job briefs.
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Golden Nuggets:

Plant: Cook – Use of Students (7) for CZT studies and providing 40 per unit RWP comparison of man-hours/dose

Plant: Byron– Provided money from project capitol for equipment (GoPro camera, etc.)

Plant: Catawba – Use of Summer Intern for CZT studies and work with EPRI

Plant: McGuire – Project Capitol pays for ALARA staff for their work.