Group - 2/3 Loop Facilitator: Jeff Fontaine Successes – What has gone right

(Prairie Island) (Dave Martin)	➢ First success – Source term reduction led to Unit 2 Outage success 20.670 rem. Station installed an RCS purification modification. Prairie Island is anticipating a sub 15 rem for Unit 1's next outage ➢ Second success – Implement a six-year cycle for Steam Generator inspections.
(North Anna) (Brad Pleasants)	➢ First success – After Several cycles of zinc injection at Unit 1 there has been a 50% dose rate reduction at their EPRI points ➢ Second success – Insulators and Engineering working together to reduce the amount of insulation that has to be removed for inspections has reduced insulator exposure.

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(Robinson) (Christy Branham/Ashley Lawrence)	➢ First success – Virtual reality laser scan tour with ocular glasses. Use of this system has eliminated a number of work task walkdowns. Also the system aids job planning, shielding installation and mock-ups. System is precise enough to allow modifications to be planned without an entry. ➢ Second success – GEDs software tied to the tour program displays the location and dose rates.
(Surry) (Doug VanHoorebeck)	➢ First success – Web based software that when given a functional location brings up all the previous work orders and dose accumulated. An additional innovation allows the RP work control center to see the exposure history during job performance which allows RP to track expected historical versus current exposure accumulated. ➢ Second success – Utilize a communication system which allows various groups to either have separate communication or they can be tied all together.

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(Beaver Valley) (Jeff Fontaine)	➢ First success – Worker commitment to reducing their exposure resulted in Unit 2 completing their online year activities for a total of 158 mrem. ➢ Second success – Outage Management's commitment to reducing dose. Support has led to source term reduction through improved RCS filtration (e.g.,online and shutdown use of PRC-01m, use of nanofiber filter technology) and permanent scaffold installations.

Group - 2/3 Loop Facilitator: Jeff Fontaine Challenges – What has gone wrong

(Prairie Island) (Dave Martin)	➢ First challenge: SAP process for work orders has been difficult to implement ➢ Second challenge: SAP process is causing dose reporting issues
(North Anna) (Brad Pleasants)	➢ First challenge: Reactor head set exposure results in 800 to 1600 mrem due to the number of personnel in reactor cavity. ➢ Second challenge: Inexperienced staff can at times result in additional exposure.
(Robinson) (Christy Branham/Ashley Lawrence)	➢ First challenge: Maintenance department exposure is averaging 10 to 12 rem which is above industry average. Working on maintenance frequency in order to reduce exposure. ➢ Second challenge: Fourth quartile CRE due to maintenance and emergent exposure.

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(Surry) (Doug VanHoorebeck)	➢ First challenge: RP is not on the front end of project planning. Projects do not involve RP in early planning stage. ➢ Second challenge: Transfer Canal contamination and dose rates are a challenge. Drain is mispositioned leading to crud build up on floor. Vacuuming with small pore size filter led to issues which resulted in the spread of contamination throughout the cavity.
(Beaver Valley) (Jeff Fontaine)	➢ First challenge: Beaver Valley Radiation Protection is significantly behind the industry in the use of technology. ➢ Second challenge: Continuing repairs to the Unit 2 reactor head leads to significant exposure. Typically 9 to 18 rem per outage.

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Golden Nuggets:

- **Dave Martin: keep your focus on source term reduction initiatives.**
- **Christy/Ashley: Power BI which is a free software that when tied to Sentinel makes a bar graph for each project/craft providing live time exposure results.**
- **Brad: keeping looking for source term reduction**
- **Doug: Integrate your outage history into a data base that makes outage planning easier.**
- **Jeff: Work crew pre-job briefs include micro ALARA briefs on dose significant jobs.**
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