PWROG
PWR Owners Group

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PWROG Lessons Learned from Derecho ASP

NRC Public Meeting – May 27th, 2021

PWROG Presentation Agenda

- Specific items in PRA space
- Specific Items in Place by the Station that Helped Mitigate the Situation
- Additional Follow Up to Support Realism

Specific Items in PRA Space

Offsite Power Non-Recovery

- Different methodologies available for crediting offsite power recovery
- Important to recognize when power COULD and IS restored

FLEX HRA

- Clear decision criteria for declaration of ELAP
- IDHEAS-ECA would be expected to provide more realistic HRAs
- PWROG-20008-P “Pilot Application of FLEX HRA Methods”

Component Failure Rates

- Realistic EDG Failure rates - PWROG-18026-P “Component Reliability Data Issues and Strategies”
- FLEX failure rates compared to a draft PWROG report and numbers looked similar. 3x nominal failure rates chosen by NRC based on PWROG analysis.

Specific Items in Place by the Station that Helped Mitigate the Situation

Credit for FLEX

- Clear timeframe for declaration of ELAP
- Procedural credit for FLEX

Clear procedural guidance for changing the strainers for the DGs

- Proceduralizing simple recovery action
- Risk Beneficial Procedure Changes PWROG Program

Additional Follow Up to Support Realism

Investigation for recovery for failed equipment

- Ongoing PWROG program

FLEX Data

- Issue final report PWROG-18042-P in the summer of 2021
- Update to capture additional data and Common CauseBD

Risk Beneficial Procedure Change PWROG Program

Products Utilized

- PWROG-18026-P, Revision 1, “Component Reliability Data Issues and Strategies,” August 2020.
- PWROG-18042-P, Revision 1-A, “FLEX Equipment Data Collection and Analysis.”
- PWROG-20008-P, Revision 0, “Pilot Application of FLEX HRA Methods,” November 2020.
- EPRI LOOP and Convolution Reports
- EPRI 3002018232 “High Wind Loss of Offsite Power Durations and Recovery”
- NRC IDEHAS-ECA Reports

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