

① Standard Design Process

- Southern Nuclear performed more training to focus on critical characteristics
- Testing was not matching design inputs
 - only adding design required testing requirements
 - some plants have a general maintenance testing procedure (TVA, Southern Nuclear, Columbia, Comanche Peak)
 - Dominion uses Test Engineers
 - TVA has criteria for when to get formal test instructions
 - DC Cook has test Directors
 - Nuclear Fuel Services Erwin Tennessee uses Joint Test Group (multidiscipline)
 - TVA has a challenge w/ operations through Sargent + Lundy
 - DC Cook uses Test Engineer to develop

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(Digital Designs may be different and require more review)

Owner's Acceptance Review Level of Detail

- STP follow IP-Eng-001 more of DV review for Design Change + risk. Smaller mods based on vendor quality
- TVA has separate procedure. More of a high level review. Look at process use critical characteristics. Let risk ranking drive a third party review
 - all OAR reviewers are involved in Review Meetings
- Columbia has a guideline on how to perform the OAR. With yes/no questions
 - Engineers involved
- Comanche Peak more of a DV review (Not formal)
 - Engineers are not involved depending on scale of the mod
- Dominion has separate procedure. Review is the RF's discretion
 - Lead RF involved in meetings but not always other discipline
- Susquehanna - Engineers are involved in meeting are not multidiscipline based on risks. Struggling with level of review
- Southern Nuclear has a procedure and a guide
 - Engineers are involved throughout the design and perform more of a DV

③ Stakeholder

- Vostle 1 & 2 has a list of primary + backup stakeholders
- Most utilities have a dedicated primary list
 - list is maintained by engineering
 - contact made at pre-job brief to confirm list can be validated at that time
- Some have preference for in-person meeting
- Ensure phased projects have right engagement to review whole project.
- Southern Nuclear requires management at the meetings for accountability
- Don't accept No Comment anymore. Require a basis for why No Comment provided
- Southern Nuclear created an FCR code for stakeholder engagement / inadequate walkdown
- ~~Each~~ utilities use rev. block to show 50.59 was reviewed

AWA

- utilities use them but equipment must be removable

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Common Design

- Southern Nuclear CDP can be performed at Corporate or Sites. When done by
- Corporate the site implementing designs
- TVA similar to Southern Nuclear