

Design and safety case





- Adequate nuclear safety justification to support the planned activities
- Confidence that design changes not foreclosed where evidence not yet available
- Demonstration risk reduced ALARP









- Focus on non-foreclosure
 - New or changed circumstances from GDA PCSR
 - Basis for plot layout
 - Adequacy of design of civil structures (where design complete)
 - Confidence in approach for other civil structures
 - Adequacy of ongoing safety studies relative to reference configuration
 - System sizing and cabling sufficient space?
 - Design stability, and understanding and control of design risks?





- Adequacy of RC2 safety studies, including hazard verification studies
- Adequacy of commissioning arrangements
- Adequacy of commissioning activities
 - As built plant meets the intent of the safety case
 - Operating documentation and maintenance procedures are demonstrated as valid
 - Operations & maintenance personnel have sufficient knowledge, training and experience to safely operate the plant
- Adequacy of limits and conditions of operation
 - Protect SSCs prior to inactive commissioning
 - Maintain safe limits of operation once fuel introduced



Design configuration



- Permissioning of significant modifications
 - HVAC, ISFS, RCA & FTT, PS architecture, RMI
- Oversight of other modifications
- NNB control of design configuration and management of modifications
- Design stability



Other areas of focus





How determine adequacy?





Implications for SZC

- HPC design stability and replication
 - RC0 for SZC likely to be based on HPC RC2
- PCSR for SZC likely to based on HPC PCmSR
- ONR focus on the site specific differences
 - Ground conditions, external hazards, cooling chain, grid, site size etc
 - Resolution of many GDA assessment findings by HPC should be valid for SZC