



RIC 2011  
**Regulatory Challenges in Reviewing  
Unique Cask Loading Facility Design**

Raul Hernandez  
NRO/DSRA/SBP  
Wednesday, March 9, 2011

1

---

---

---

---

---

---

---

---



### **Presentation Outline**

- Design Uniqueness
- Regulatory Challenges
- Resolution of Challenges

2

---

---

---

---

---

---

---

---



### **Design Uniqueness**

- The EPR cask loading pit design has a large opening at the bottom that provides a pathway for removal of spent fuel.
- This type of design has not been previously evaluated or used in nuclear power plants in the USA.

3

---

---

---

---

---

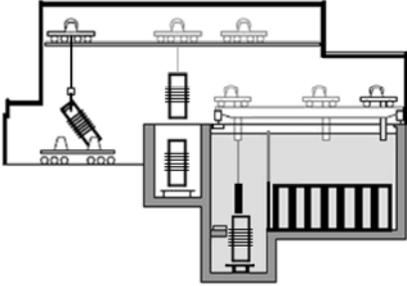
---

---

---



Typical Cask Loading Facility Design in U.S.



4

---

---

---

---

---

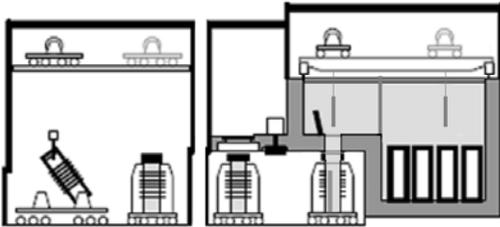
---

---

---



Proposed EPR Cask Loading Facility Design



5

---

---

---

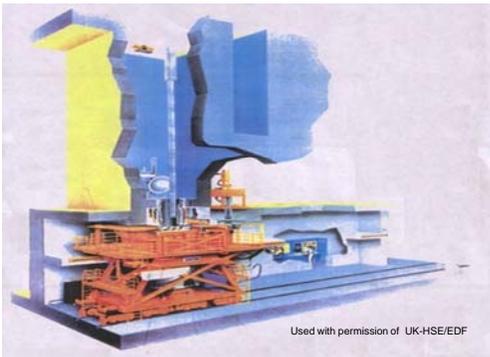
---

---

---

---

---



Used with permission of UK-HSE/EDF

6

---

---

---

---

---

---

---

---



## Regulatory Challenge

- Applicant has not yet provided sufficient design details of the cask loading facility.
- In response to RAIs related to the cask loading facility, the applicant stated that SSCs to be used for cask loading operations should be out of the scope of the design review phase (but instead in scope of Part 72 license review).

7

---

---

---

---

---

---

---

---



## Regulatory Challenge (cont.)

- The applicant's current position means that the facility would have no approved means to remove fuel from the spent fuel pool.

8

---

---

---

---

---

---

---

---



## Resolution of Regulatory Challenge

- The staff is considering applicant's position as well as the regulatory requirements pertaining to the removal of fuel assemblies.
- The staff will communicate its position to the applicant once a decision is reached.
- The staff will continue to discuss the issue with the applicant to establish the scope of design information needed to reach a safety conclusion on the design of the cask loading facility.

9

---

---

---

---

---

---

---

---



## Conclusion

- When a new and unique SSC design is proposed, sufficient design information is need to complete the staff review.
- Any questions about regulatory review scope needs to be identified and addressed early in the review process; otherwise, the review schedule could be challenged.

---

---

---

---

---

---

---

---