

HRA and FLEX

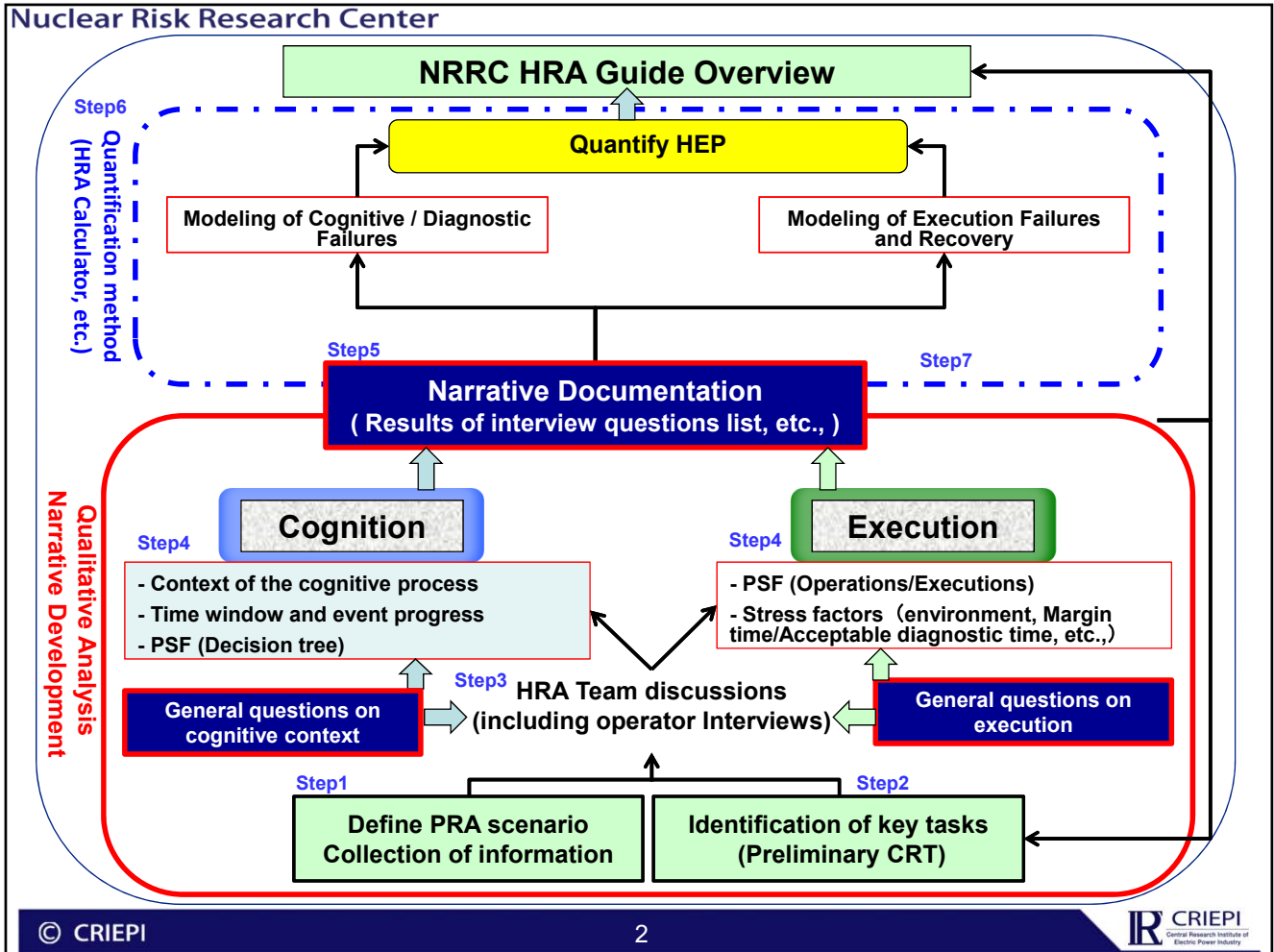
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Session W27: Recent Developments in
Realistically Modeling FLEX Equipment in
PRA and Incorporating FLEX Insights into
Decision-making
March 13, 2019**

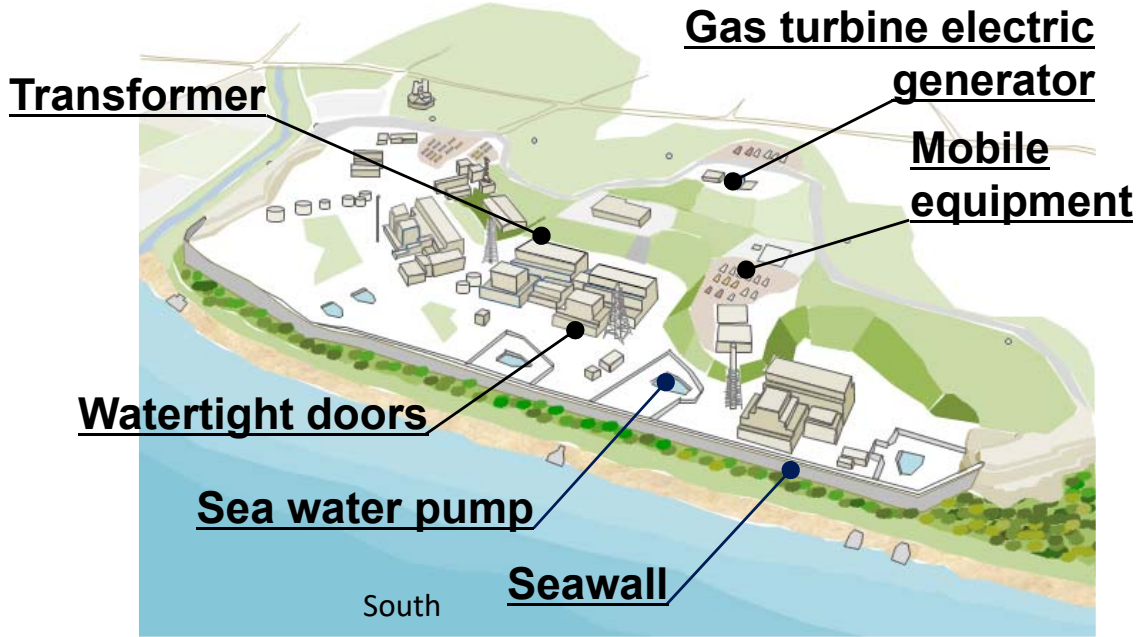


Utilization of Interview Results

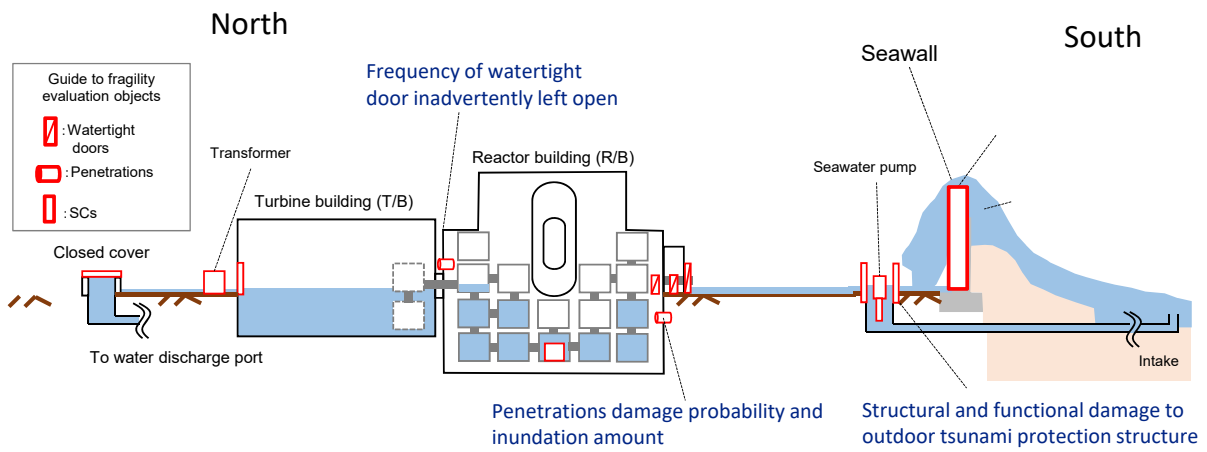
Narrative

No.	Hearing items (Input items related to HRA Calculator)	1. Information from the procedures	2. Observations of the control room simulator training	3. Interview with operators
13	When the cue necessary for implementing the applicable operation is given to the operators, is the workload on the operators high or is there confusion? (High workload or confusion decreases the operator attentiveness (oversight in verifying necessary information))	-	-	Roles are clearly specified, so there is no confusion. There is no confusion even during the first accident alarm.
14	Is it enough to verify the parameters necessary for implementing the applicable operations once, or must the parameters be monitored continuously?	-	In a prior simulator training, it was confirmed that one procedure is needed.	* When taking into account the entry the procedures - Once * As well as the operation steps until just before F&B implementation - Continuous monitoring
15	Can the operators verify the parameters required for implementing the applicable operations from the front of the control panel, and need not leave the area in front of the control panel?	-	In a prior simulator training exercise, it was confirmed that the necessary parameters were verified from the front panel	-
16	(Question necessary if the response to any of the following questions is YES - work load is high or there is confusion when the cue is given out in No.13, continuous monitoring is required in No.14, and the operator needs to move away from the panel for verifying the parameters in No.15) Is the cue necessary for implementing the applicable operation an alarm or the monitoring of instruments?	-	-	•When taking into account the procedures, The cue is the alarm •Alarm sounds before the operation, but it is not just before.

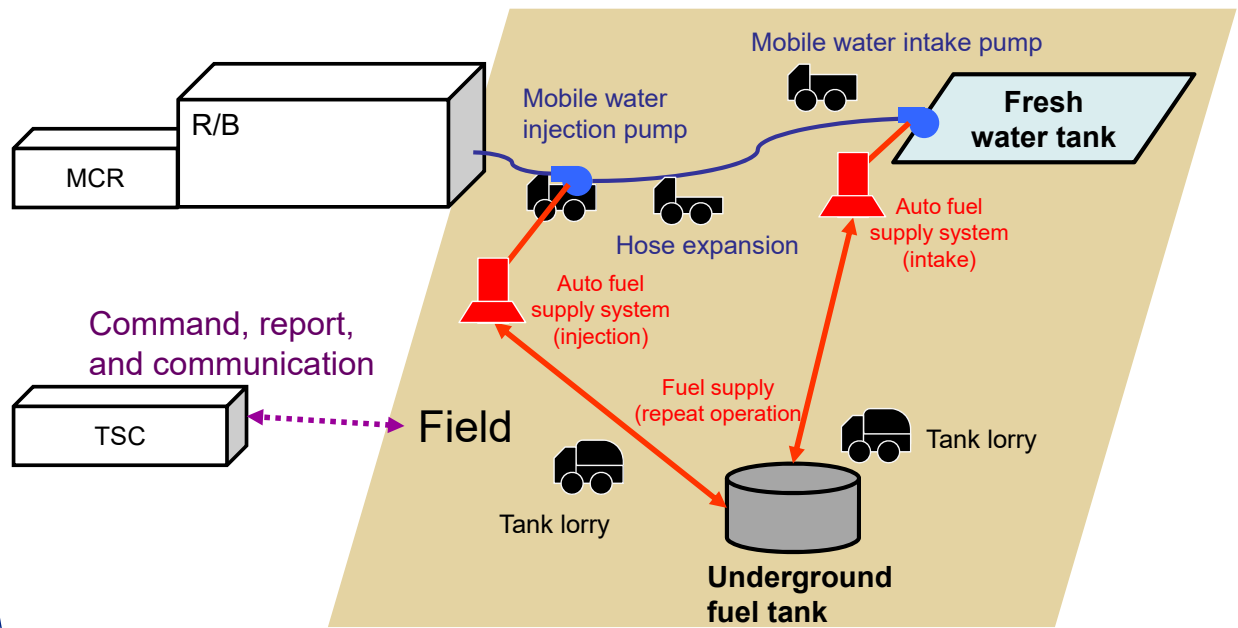
Tsunami Hazard



Tsunami Project



Picture of Portable Water Supply Equipment

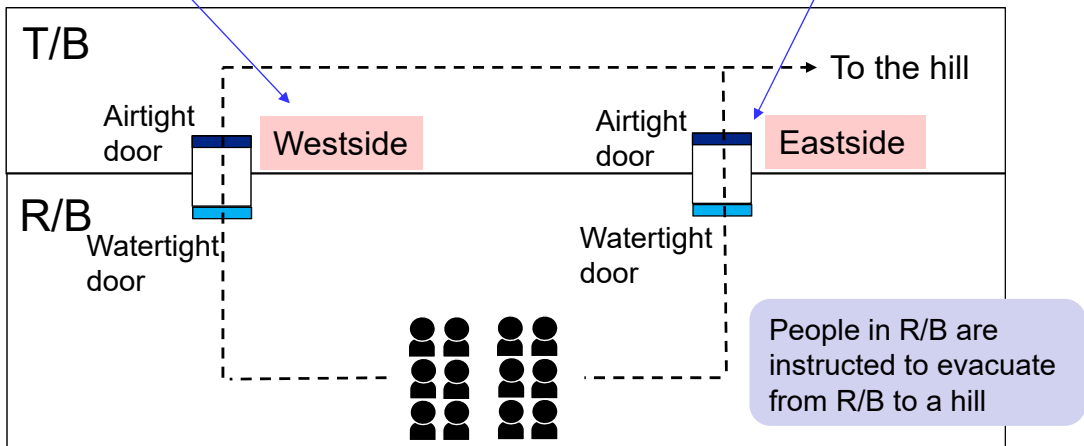


Door inadvertently left open

Possible HFE occurrence

Emergency power available: Interlock enabled

Normal power only. Requires manual lock



With thanks to

- **Yukihiro Kirimoto, NRRC**