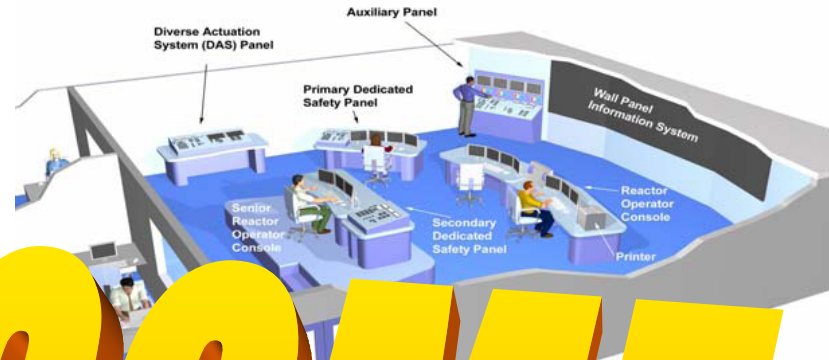


NEW REACTOR CONTROL ROOM



WELCOME



EXAMINER/INSPECTOR WORKSHOP

PURPOSE AND SCOPE



The new reactor control room environment will change the way that examiners and inspectors assess plant status and evaluate operator performance.

Today's presentations will describe the operators' role in the new control room.

GENERAL AGENDA

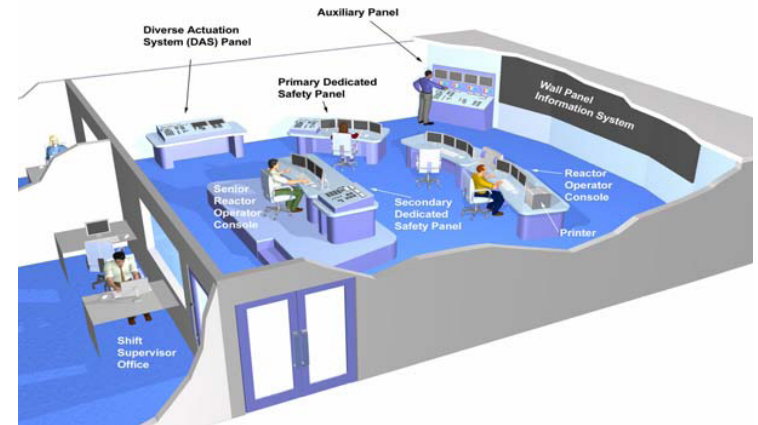


- DAY 1
 - 0800 Mitsubishi Simulator
 - 1200 Lunch
 - 1300 Welcome
 - 1330 Human-Machine Interface Presentations

- DAY 2
 - 0800 Examiner/Inspector Breakout Session
 - 1200 Lunch
 - 1300 Summary of Breakout Session Data
 - 1400 Potential Solutions Brainstorming

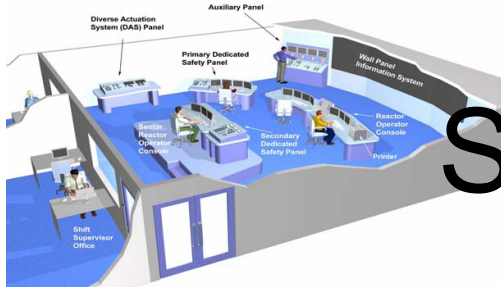
RI/SRI SURVEY RESULTS

- Survey Respondents.
- What's the Physical Fidelity of TTC Simulators?
- Does Physical Fidelity Impact Job Performance?
- Does Physical Fidelity Impact Simulator Training?



RI/SRI SURVEY RESULTS

Survey Respondents

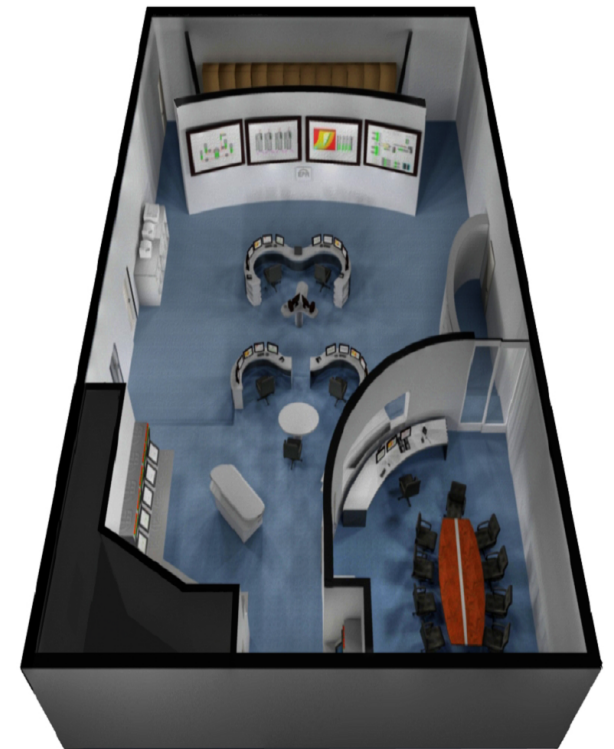


Position	N	Years in NRC Position (Avg)	<= 3 years in NRC Position	Years Nuclear Power Experience (Avg)	<= 3 years in Nuclear Power
License Examiner	19	7.9	15.8%	25.9	0.0%
Resident Inspector	64	6.5	35.9%	17.4	6.0%
All	83	6.8	31.3%	19.4	6.0%

RI/SRI SURVEY RESULTS

What's the Physical Fidelity of TTC Simulators?

TTC Control Room Simulator Attributes	How different? (Avg)	Particular to any simulator?
Alarms/Annunciators	2.7	
Control Room Environment	2.8	B&W (4.5)
Instrumentation	3.0	
Controllers/Switches	3.0	
Procedures	3.2	
Computer Displays	3.5	
Panels	3.6	B&W (4.8)
All	3.1	B&W (4.0)



RI/SRI SURVEY RESULTS

Does Physical Fidelity Impact Job Performance?

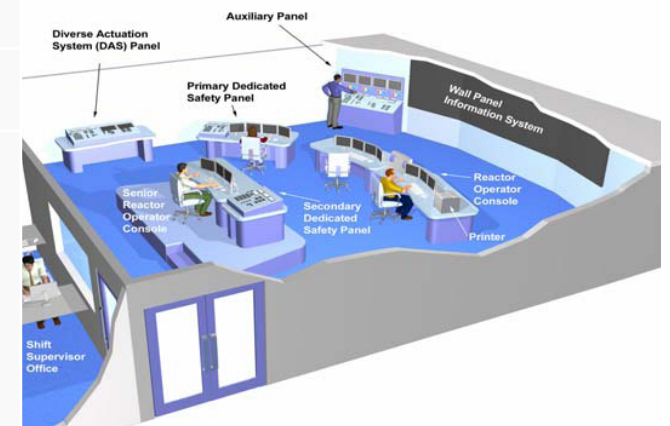
TTC Control Room Simulator Attributes	Impact on Job (Avg)
Alarms/Annunciators	1.7
Control Room Environment	1.5
Instrumentation	1.9
Controllers/Switches	1.9
Procedures	2.2
Computer Displays	1.9
Panels	2.1
All	1.9



RI/SRI SURVEY RESULTS

Does Physical Fidelity Impact Simulator Training?

TTC Control Room Simulator Attributes	Impact on Simulator Training (Avg)
Alarms/Annunciators	1.6
Control Room Environment	1.4
Instrumentation	1.7
Controllers/Switches	1.6
Procedures	2.0
Computer Displays	1.7
Panels	1.6
All	1.6



RI/SRI SURVEY RESULTS

Familiarity with the HMI technology to be used in the New Reactor Control Rooms



WHAT WE NEED FROM YOU



Consider the information received today with respect to your current job responsibilities.

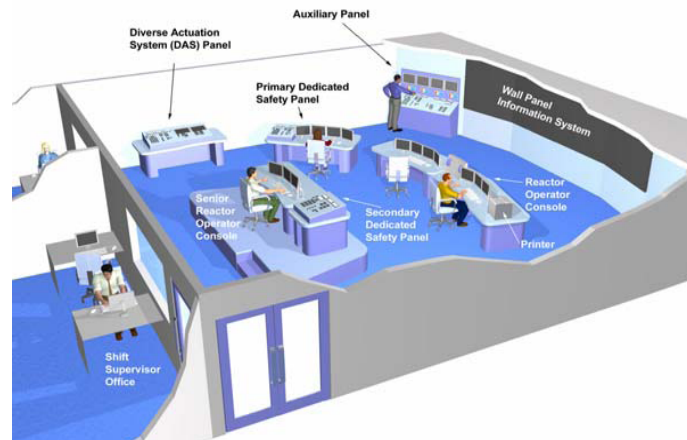
Evaluate how you may have to do things differently if you are performing these responsibilities in a new reactor control room

Use the attached RI/OLE Task and KSA Inventory to help

OUTCOMES

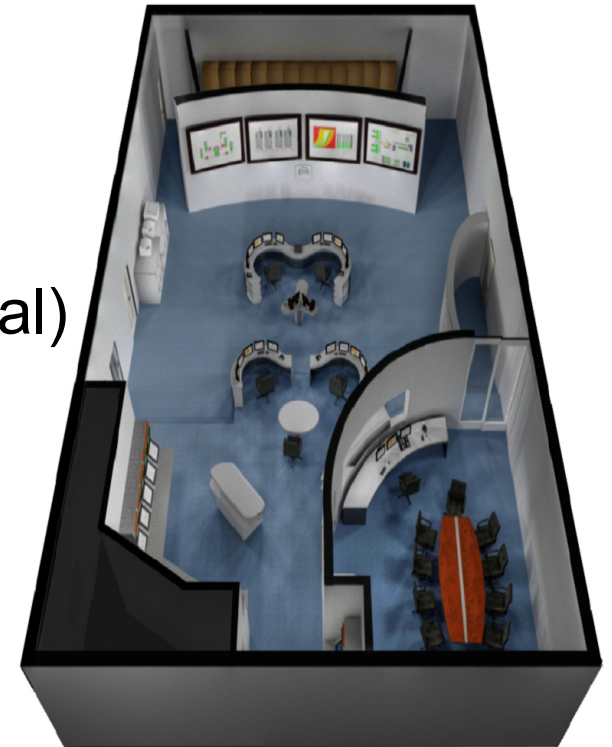
The information we get from you will:

- Affect TTC decisions on new reactor simulator purchases and the development of training material to be used in cross qualification as new reactor examiners and inspectors.
- Inform the Program Offices on potential challenges to the NRC's current approach to operator licensing and inspection.



POTENTIALLY AFFECTED EXAMINER/INSPECTOR ACTIVITIES

- Control Room Decorum/Soft Skills
 - Teamwork
 - Command and Control (Normal and Abnormal)
 - Annunciator Response
 - Peer and Self Checking
 - Procedure Use and Adherence
 - Communications (Verbal and Non-verbal)
 - System Status Monitoring
 - Panel Walk downs
 - Shift Turnover



INSPECTOR FOCUS AREAS

- Crew Performance
- Plant/System Status Evaluation
- Parameter Monitoring
- Procedure Use and Compliance
- Inspector Emergency Response Responsibilities
- Other



EXAMINER FOCUS AREAS

- Crew/Individual Competency Evaluation
- JPM Administration and Evaluation
- Scenario Administration and Evaluation
- Simulator Fidelity Evaluation
- Data Collection to Support
 - Licensing Decisions
 - Findings
 - Issues
- Other



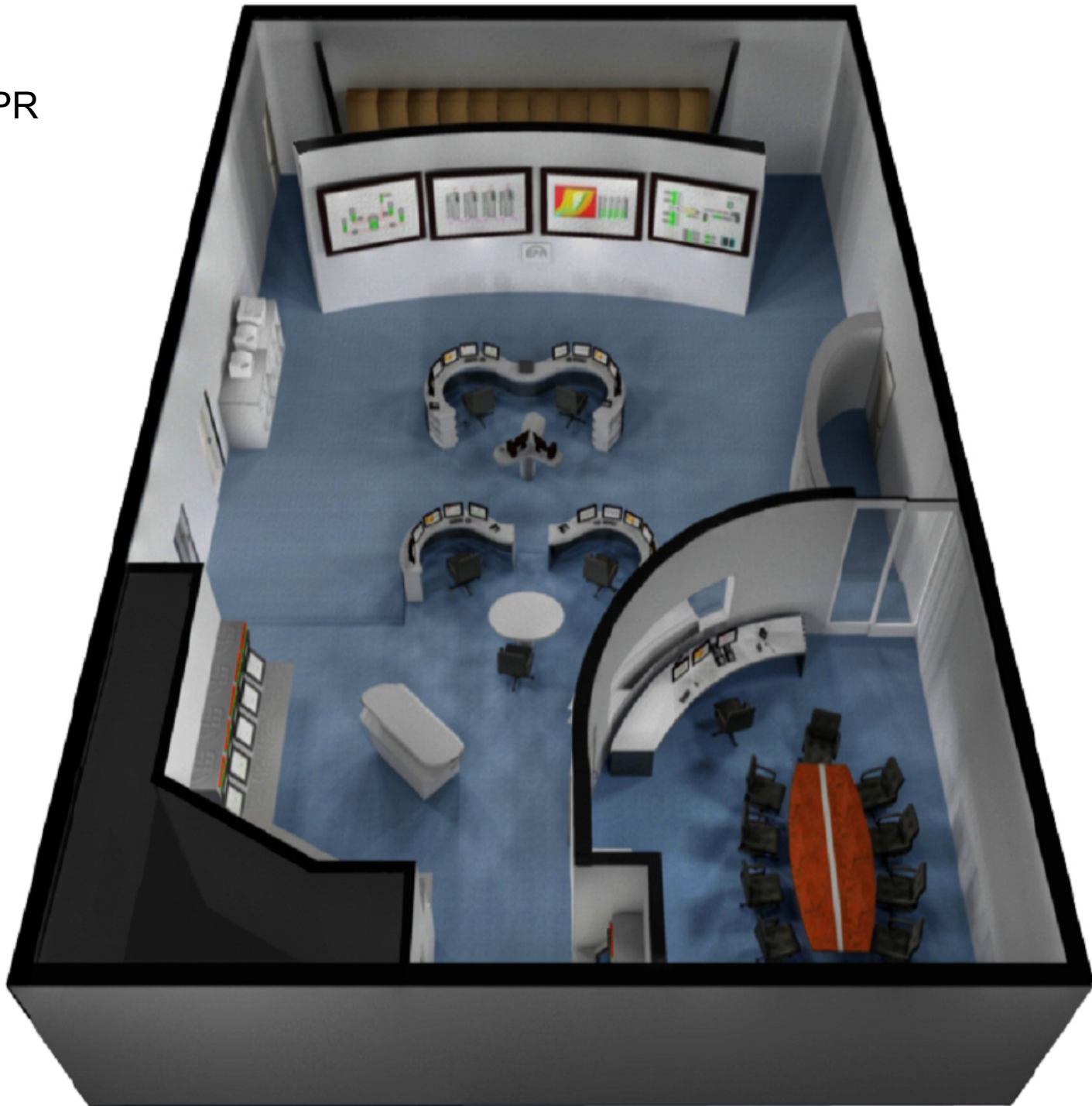
KASHIWASAKI KARIWA



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