

Form 3.2-2 Control Room/In-Plant Systems Outline

Facility: <u>DC Cook</u>		Date of Examination: <u>7/2022</u>
Exam Level: <input checked="" type="checkbox"/> RO <input type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U		Operating Test Number: <u>Cook 2022</u>
System/JPM Title	Type Code	Safety Function
Control Room Systems		
a. Full Length Operability test on Control Bank A KA: SYS 001 A4.17 (4.0)	D-S	1
b. Establishing Letdown In Accordance With 2-OHP-4023-SUP-015 KA: SYS 004 A4.06 (3.8)	D-A-L-S	2
c. Pressurizer Heater Capacity Check KA: SYS 010 A4.02 (3.6)	P-D-S	3
d. Switch HDP alignment KA SYS 056 A1.06 (2.7)	N-S	4S
e. Establish Cooling Flow to a Reactor Coolant Pump KA: SYS 003 A4.08 (3.5)	D-S	4P
f. Perform actions in 4023-FR-Z.1 KA: SYS 103 A2.06 (4.5)	M-EN-A-L-S	5
g. Remove a Failed PR Nuclear Instrument from Service KA: SYS 015 A4.02 (3.6)	D-A-S	7
h. Switch CW Pumps using 4021-057-001 KA: SYS 075 A4.02 (3.1)	N-S	8
In-Plant Systems		
i. Local Actions for ATWS KA: SYS 001 A2.13 (4.3)	D-E	1
j. Locally control RHR Air Operated valves KA: SYS 005 A2.04 (3.9)	D-A-E-L-R	4

Form 3.2-2 Control Room/In-Plant Systems Outline

k. Verify Control Room Pressurization alignment using OHP-4021-028-014 Att. 1 KA: 2.1.30 (4.4)	P-D	9
---	-----	---

Form 3.2-2 Control Room/In-Plant Systems Outline

Facility: <u>DC Cook</u>		Date of Examination: <u>7/2022</u>
Exam Level: <input type="checkbox"/> RO <input checked="" type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U		Operating Test Number: <u>Cook 2022</u>
System/JPM Title	Type Code	Safety Function
Control Room Systems		
a. Full Length Operability test on Control Bank A KA: SYS 001 A4.17 (4.0)	D-S	1
b. Establishing Letdown In Accordance With 2-OHP-4023-SUP-015 (ALT) KA: SYS 004 A4.06 (3.8)	D-A-L-S	2
c. Pressurizer Heater Capacity Check using OHP-4030-102-040 KA: SYS 010 A4.02 (3.6)	P-D-S	3
d. Switch HDP alignment KA SYS 056 A1.06 (2.7)	N-S	4S
f. Perform actions in 4023-FR-Z.1 KA: SYS 103 A2.06 (4.1)	M-EN-A-L-S	5
g. Remove a Failed PR Nuclear Instrument from Service KA: SYS 015 A4.02 (3.6)	D-A-S	7
h. Switch CW Pumps using 4021-057-001 KA: SYS 075 A4.02 (3.1)	N-S	8
In-Plant Systems		
i. Local Actions for ATWS KA: SYS 001 A2.13 (4.3)	D-E	1
j. Locally control RHR Air Operated valves KA: SYS 005 A2.04 (3.7)	D-A-E-L-R	4

Form 3.2-2 Control Room/In-Plant Systems Outline

k. Verify Control Room Pressurization alignment using OHP-4021-028-014 Att. 1 KA: 2.1.30 (4.0)	P-D	9
---	-----	---

Form 3.2-2 Control Room/In-Plant Systems Outline

Facility: <u>DC Cook</u>		Date of Examination: <u>7/2022</u>
Exam Level: <input type="checkbox"/> RO <input type="checkbox"/> SRO-I <input checked="" type="checkbox"/> SRO-U		Operating Test Number: <u>Cook 2022</u>
System/JPM Title	Type Code	Safety Function
Control Room Systems		
a.		
b.		
c. Pressurizer Heater Capacity Check KA: SYS 010 A4.02 (3.6)	P-D-S	3
d.		
e.		
f. Perform actions in 4023-FR-Z.1 KA: SYS 103 A2.06 (4.1)	M-EN-A-L-S	5
g. Remove a Failed PR Nuclear Instrument from Service KA: SYS 015 A4.02 (3.6)	D-A-S	7
h.		
In-Plant Systems		
i.		
j. Locally control RHR Air Operated valves KA: SYS 005 A2.04 (3.7)	D-A-E-L-R	4
k. Verify Control Room Pressurization alignment using OHP-4021-028-014 Att. 1 KA: 2.1.30 (4.0)	P-D	9

Form 3.2-2 Instructions for Control Room/In-Plant Systems Outline (continued)

1. Determine the number of control room system and in-plant systems job performance measures (JPMs) to develop using the following table:

License Level	Control Room	In-Plant	Total
Reactor Operator (RO)	8	3	11
Senior Reactor Operator-Instant (SRO-I)	7	3	10
Senior Reactor Operator-Upgrade (SRO-U)	2 or 3	3 or 2	5

2. Select safety functions and systems for each JPM as follows:

Refer to Section 1.9 of the applicable knowledge and abilities (K/A) catalog for the plant systems organized by safety function. For pressurized-water reactor operating tests, the primary and secondary systems listed under Safety Function 4, "Heat Removal from Reactor Core," in Section 1.9 of NUREG-1122 or NUREG-2103 may be treated as separate safety functions (i.e., two systems, one primary and one secondary, may be selected from Safety Function 4).

From the safety function groupings identified in the K/A catalog, select the appropriate number of plant systems by safety functions to be evaluated based on the applicant's license level (see the table in step 1).

The emergency and abnormal plant evolutions listed in Section 1.10 of the applicable K/A catalog may also be used to evaluate the applicable safety function (as specified for each emergency and abnormal plant evolution in the first tier of the written examination outlines in ES-4.1, "Preparing Written Examination Outlines").

For RO/SRO-I applicants: Each of the control room systems JPMs and, separately, each of the in-plant systems JPMs must evaluate a different safety function, and the same system or evolution cannot be used to evaluate more than one safety function in each location. One of the control room systems JPMs must be an engineered safety feature.

For SRO-U applicants: Evaluate SRO-U applicants on five different safety functions. One of the control room systems JPMs must be an engineered safety feature, and the same system or evolution cannot be used to evaluate more than one safety function.

3. Select a task for each JPM that supports, either directly or indirectly and in a meaningful way, the successful fulfillment of the associated safety function. Select the task from the applicable K/A catalog or the facility licensee's site-specific task list. If this task has an associated K/A, the K/A should have importance rating of at least 2.5 in the RO column. K/As that have importance ratings of less than 2.5 may be used if justified based on plant priorities; inform the NRC chief examiner if selecting K/As with an importance rating less than 2.5.

The selected tasks must be different from the events and evolutions conducted during the simulator operating test and tasks tested on the written examination. A task that is similar to a simulator scenario event may be acceptable if the actions required to complete the task are significantly different from those required in response to the scenario event.

Apply the following specific task selection criteria:

- At least one of the tasks shall be related to a shutdown or low-power condition.
- Four to six of the tasks for RO and SRO-I applicants shall require execution of alternative paths within the facility licensee's operating procedures. Two to three of the tasks for SRO-U applicants shall require the execution of alternative paths within the facility licensee's operating procedures.
- At least one alternate path JPM must be new or modified from the bank. • At least one of the tasks conducted in the plant shall evaluate the applicant's ability to implement actions required during an emergency or abnormal condition.
- At least one of the tasks conducted in the plant shall require the applicant to enter the radiologically controlled area. This provides an excellent opportunity for the applicant to discuss or demonstrate radiation control administrative subjects.

If it is not possible to develop or locate a suitable task for a selected system, return to step 2 and select a different system.

4. For each JPM, specify the codes for type, source, and location:

Code	License Level Criteria		
	RO	SRO-I	SRO-U
(A)lternate path	4 - 6	4 - 6	2-3
(C)ontrol room			
(D)irect from bank	≤ 9	≤ 8	≤ 4
(E)mergency or abnormal in-plant	≥ 1	≥ 1	≥ 1
(EN)gineered safety feature (for control room system)	≥ 1	≥ 1	≥ 1
(L)ow power/shutdown	≥ 1	≥ 1	≥ 1
(N)ew or (M)odified from bank (must apply to at least one alternate path JPM)	≥ 2	≥ 2	≥ 1
(P)revious two exams (randomly selected)	≤ 3	≤ 3	≤ 2
(R)adiologically Controlled Area	≥ 1	≥ 1	≥ 1
(S)imulator			