

Facility: Perry  
 Examination Level: RO

Date of Examination: Feb 2019  
 Operating Test Number: 2019-01

Administrative Topic (see Note)	Type Code*	Describe activity to be performed
Conduct of Operations OT-3701-ADM_001_RO	R, D	2.1.7 Ability to evaluate plant performance and make operational judgments based on operating characteristics, reactor behavior, and instrument interpretation.  Importance: RO 4.4 Determine the method for placing the instrument in trip.
Conduct of Operations OT-3701-ADM_005_RO	R, D	2.1.25 Ability to interpret reference materials, such as graphs, curves, tables, etc.  Importance: RO 3.9 Determine time to boil.
Equipment Control OT-3701-ADM_033_RO	R, N	2.2.41 Ability to obtain and interpret station electrical and mechanical drawings.  Importance: RO 3.5 Identify isolation boundary for Instrument Air leak.
Radiation Control OT-3701-ADM_019_RO	R, D	2.3.7 Ability to comply with radiation work permit requirements during normal or abnormal conditions.  Importance: RO 3.5 Determine radiological conditions and calculate dose.
Emergency Procedures/Plan		

NOTE: All items (five total) are required for SROs. RO applicants require only four items unless they are retaking only the administrative topics (which would require all five items).

\* Type Codes & Criteria:

- (C)ontrol room, (S)imulator, or Class(R)oom
- (D)irect from bank ( $\leq 3$  for ROs;  $\leq 4$  for SROs & RO retakes)
- (N)ew or (M)odified from bank ( $\geq 1$ )
- (P)revious 2 exams ( $\leq 1$ ; randomly selected)

Facility: <u>    Perry    </u> Examination Level: <u>    SRO    </u>	Date of Examination: <u>    Feb 2019    </u> Operating Test Number: <u>    2019-01    </u>	
Administrative Topic (see Note)	Type Code*	Describe activity to be performed
Conduct of Operations OT-3701-ADM_028SRO	R, D	2.1. 4 Knowledge of individual licensed operator responsibilities related to shift staffing, such as medical requirements, "no-solo" operation, maintenance of active license status, 10CFR55, etc.  Importance: SRO 3.8  Evaluate work schedules to reactivate SRO license.
Conduct of Operations OT-3701- ADM_006_SRO	R, D	2.1.20 Ability to interpret and execute procedure steps.  Importance: SRO 4.6  Perform SVI-R10-T5227 for off-site power availability
Equipment Control OT-3701- ADM_026SRO	R, S, D	2.2.41 Ability to obtain and interpret station electrical and mechanical drawings.  Importance SRO 3.9  Identify boundary for leaking fire protection system component and determine Required Actions for an Unplanned Fire Impairment.
Radiation Control OT-3701- ADM_019SRO	R, D, P	2.3.4 Knowledge of radiation exposure limits under normal or emergency conditions.  Importance: SRO 3.7  Determine if an Operator can perform an emergency evolution
Emergency Procedures/Plan OT-3701- ADM_322SRO	R, N	2.4.38 Ability to take actions called for in the facility emergency plan, including supporting or acting as emergency coordinator if required.  Importance: SRO 4.4  Declare the emergency action level.
NOTE: All items (five total) are required for SROs. RO applicants require only four items unless they are retaking only the administrative topics (which would require all five items).		
* Type Codes & Criteria:      (C)ontrol room, (S)imulator, or Class(R)oom (D)irect from bank (≤ 3 for ROs; ≤ 4 for SROs & RO retakes) (N)ew or (M)odified from bank (≥ 1) (P)revious 2 exams (≤ 1; randomly selected)		

Facility: <u>Perry</u>	Date of Examination: <u>Feb 2019</u>
Exam Level: <u>RO</u>	Operating Test No.: <u>2019-01</u>

  

Control Room Systems:* 8 for RO; 7 for SRO-I; 2 or 3 for SRO-U		
System / JPM Title	Type Code*	Safety Function
a. Reactor Protection System C71_501_RO Perform RPS manual scram functional	A, S, D, P	1
b. Reactor Core Isolation Cooling System E51_501_RO Initiate RCIC	D, S, L, A, E	2
c. Automatic Depressurization System B21_003_RO Reset ADS	S, D, L	3
d. Reactor Water Cleanup System G33_001_RO Establish alternate decay heat removal	S, N	4
e. Primary Containment Isolation System/NSSSS B21_507_RO Perform Manual NS4 BOP Inboard Isolation	A, S, D, L, EN	5
f. Station Electrical Distribution R10_001_RO Transfer station 13Kv buses	S, D	6
g. APRM System C51_005_RO Adjust APRM gains	S, D	7
h. Containment Vessel and Drywell Purge System M14_501_RO Startup CVDWP to Intermittent Mode	N, A, S	9

  

In-Plant Systems:* (3 for RO); (3 for SRO-I); (3 or 2 for SRO-U)		
i. Diesel Generator System R43_017_RO Perform Local manual DG start	N	6
j. Fire Protection System P54_003_RO Initiate Main Transformer Deluge	D, E, R, P	8
k. Smoke Venting System M49_001_RO Perform ONI-SPI E-2 for cooling	N, R	9

  

* All RO and SRO-I control room (and in-plant) systems must be different and serve different safety functions; all five SRO-U systems must serve different safety functions; in-plant systems and functions may overlap those tested in the control room.	
* Type Codes	Criteria for RO / SRO-I / SRO-U
(A)lternate path (C)ontrol room (D)irect from bank (E)mergency or abnormal in-plant (EN)gineered safety feature (L)ow-Power / Shutdown (N)ew or (M)odified from bank including 1(A) (P)revious 2 exams (R)CA (S)imulator	<b>4-6 / 4-6 / 2-3</b>  $\leq 9 / \leq 8 / \leq 4$ $\geq 1 / \geq 1 / \geq 1$ $\geq 1 / \geq 1 / \geq 1$ (control room system) $\geq 1 / \geq 1 / \geq 1$ $\geq 2 / \geq 2 / \geq 1$ $\leq 3 / \leq 3 / \leq 2$ (randomly selected) $\geq 1 / \geq 1 / \geq 1$

Facility: <u>Perry</u>	Date of Examination: <u>Feb 2019</u>
Exam Level: <u>SRO-I</u>	Operating Test No.: <u>2019-01</u>

  

Control Room Systems:* 8 for RO; 7 for SRO-I; 2 or 3 for SRO-U		
System / JPM Title	Type Code*	Safety Function
a. Reactor Protection System C71_501_RO Perform RPS manual scram functional	A, S, D, P	1
b. Reactor Core Isolation Cooling System E51_501_RO Initiate RCIC	D, S, L, A, E	2
c. Automatic Depressurization System B21_003_RO Reset ADS	S, D, L	3
d. Reactor Water Cleanup System G33_001_RO Establish alternate decay heat removal	S, N	4
e. Primary Containment Isolation System/NSSSS B21_507_RO Perform Manual NS4 BOP Inboard Isolation	A, S, D, L, EN	5
f.		
g. APRM System C51_005_RO Adjust APRM gains	S, D	7
h. Containment Vessel and Drywell Purge System M14_501_RO Startup CVDWP to Intermittent Mode	N, A, S	9

  

In-Plant Systems:* (3 for RO); (3 for SRO-I); (3 or 2 for SRO-U)		
i. Diesel Generator System R43_017_RO Perform Local manual DG start	N	6
j. Fire Protection System P54_003_RO Initiate Main Transformer Deluge	D, E, R, P	8
k. Smoke Venting System M49_001_RO Perform ONI-SPI E-2 for cooling	N, R	9

  

* All RO and SRO-I control room (and in-plant) systems must be different and serve different safety functions; all five SRO-U systems must serve different safety functions; in-plant systems and functions may overlap those tested in the control room.	
* Type Codes	Criteria for RO / SRO-I / SRO-U
(A)lternate path (C)ontrol room (D)irect from bank (E)mergency or abnormal in-plant (EN)gineered safety feature (L)ow-Power / Shutdown (N)ew or (M)odified from bank including 1(A) (P)revious 2 exams (R)CA (S)imulator	4-6 / <b>4-6</b> / 2-3  $\leq 9 / \leq 8 / \leq 4$ $\geq 1 / \geq 1 / \geq 1$ $\geq 1 / \geq 1 / \geq 1$ (control room system) $\geq 1 / \geq 1 / \geq 1$ $\geq 2 / \geq 2 / \geq 1$ $\leq 3 / \leq 3 / \leq 2$ (randomly selected) $\geq 1 / \geq 1 / \geq 1$

Facility: <u>Perry</u>	Date of Examination: <u>Feb 2019</u>
Exam Level: <u>SRO-U</u>	Operating Test No.: <u>2019-01</u>

  

Control Room Systems:* 8 for RO; 7 for SRO-I; 2 or 3 for SRO-U		
System / JPM Title	Type Code*	Safety Function
a.		
b. Reactor Core Isolation Cooling System E51_501_RO Initiate RCIC	D, S, L, A, E	2
c. Automatic Depressurization System B21_003_RO Reset ADS	S, D, L	3
d.		
e. Primary Containment Isolation System/NSSSS B21_507_RO Perform Manual NS4 BOP Inboard Isolation	A, S, D, L, EN	5
f.		
g.		
h.		

  

In-Plant Systems:* (3 for RO); (3 for SRO-I); (3 or 2 for SRO-U)		
i. Diesel Generator System R43_017_RO Perform Local manual DG start	N	6
j.		
k. Smoke Venting System M49_001_RO Perform ONI-SPI E-2 for cooling	N, R	9

  

* All RO and SRO-I control room (and in-plant) systems must be different and serve different safety functions; all five SRO-U systems must serve different safety functions; in-plant systems and functions may overlap those tested in the control room.	
* Type Codes	Criteria for RO / SRO-I / SRO-U
(A)lternate path	4-6 / 4-6 / <b>2-3</b>
(C)ontrol room	
(D)irect from bank	$\leq 9 / \leq 8 / \leq 4$
(E)mergency or abnormal in-plant	$\geq 1 / \geq 1 / \geq 1$
(EN)gineered safety feature	$\geq 1 / \geq 1 / \geq 1$ (control room system)
(L)ow-Power / Shutdown	$\geq 1 / \geq 1 / \geq 1$
(N)ew or (M)odified from bank including 1(A)	$\geq 2 / \geq 2 / \geq 1$
(P)revious 2 exams	$\leq 3 / \leq 3 / \leq 2$ (randomly selected)
(R)CA	
(S)imulator	$\geq 1 / \geq 1 / \geq 1$