

Facility: <u>Fermi 2</u>	Date of Examination: <u>6/17/2019</u>
Examination Level: RO <input checked="" type="checkbox"/> SRO <input type="checkbox"/>	Operating Test Number: <u>2019-1</u>

Administrative Topic (see Note)	Type Code*	Describe activity to be performed
Conduct of Operations	S/R, D, P	Thermal Limit Verification (MAPRAT) with Tech Specs (SRO Only) [K/A 2.1.7] 4.4/4.7 802-4101-431
Conduct of Operations	S/R, N	Calculate Secondary Containment Vacuum [K/A 2.1.45] 4.3/4.3 802-4101-191
Equipment Control	S/R, N	Determine the Isolation Valves for a Leak [K/A 2.2.41] 3.5/3.9 802-4101-192
Radiation Control	R, M	Calculate Estimated Dose and Determine if Extension is Required. [K/A 2.3.4] 3.2/3.7 802-4101-193
Emergency Plan	N/A	N/A N/A N/A

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 and Criteria: (C)ontrol room, (S)imulator, or Class(R)oom
 (D)irect from bank (≤ 3 for ROs; ≤ 4 for SROs and RO retakes)
 (N)ew or (M)odified from bank (≥ 1)
 (P)revious 2 exams (≤ 1, randomly selected)

Facility: <u>Fermi 2</u>	Date of Examination: <u>6/17/2019</u>	
Examination Level: RO <input type="checkbox"/> SRO <input checked="" type="checkbox"/>	Operating Test Number: <u>2019-1</u>	
Administrative Topic (see Note)	Type Code*	Describe activity to be performed
Conduct of Operations	S/R, D, P	Thermal Limit Verification (MAPRAT) with Tech Specs (SRO Only) [K/A 2.1.7] 4.4/4.7 802-4101-431
Conduct of Operations	S, N	Perform Plant-Wide Announcement for Probable Aircraft Threat. [K/A 2.1.14] 3.1/3.1 802-4101-195
Equipment Control	R, N	Determine HPCI OPERABILITY and apply Technical Specifications. [K/A 2.2.40] 3.4/4.7 804-0001-191
Radiation Control	R, N	Calculate Estimated Dose, Determine if Extension is Required and Initiate Dose Extension Request [K/A 2.3.4] 3.2/3.7 802-4101-194
Emergency Plan	S/R, D	Determine Immediate Notification Requirements for Reportable Events [K/A 2.4.30] 2.7/4.1 173-1002-181
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 and Criteria: (C)ontrol room, (S)imulator, or Class(R)oom (D)irect from bank (≤ 3 for ROs; ≤ 4 for SROs and RO retakes) (N)ew or (M)odified from bank (≥ 1) (P)revious 2 exams (≤ 1 , randomly selected)		

Facility: <u>Fermi 2</u>	Date of Examination: <u>6/17/2019</u>
Exam Level: RO <input checked="" type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U <input type="checkbox"/>	Operating Test Number: <u>2019-1</u>

Control Room Systems:* 8 for RO, 7 for SRO-I, and 2 or 3 for SRO-U

System/JPM Title	Type Code*	Safety Function
a. Shift running RRMG Lube Oil Pumps - Noisy Pump Alt Path. [K/A 202001 A4.06] 2.7/2.7 315-0104-184	A, N, S	SF-1
b. Transfer RCIC Suction - Alternate Path. [K/A 217000 A4.03] 3.4 / 3.3 315-0143-181	A, N, S	SF-2
c. Manually Initiate Low-Low Set – Alternate Path. [K/A 239002 A4.01] 4.4 / 4.4 315-0105-181	A, L, M, S	SF-3
d. Manually Place RHR in LPCI Mode – Alternate Path. [K/A 203000 A4.02] 4.1/4.1 315-0141-181	A, EN, L, M, S	SF-4
e. Shutdown EDG 11 from MCR following a LOCA. [K/A 264000 A4.04] 3.7/3.7 315-0165-181	EN, L, N, S	SF-6
f. Reset Reactor Scram. [K/A 212000 A4.14] 3.8/3.8 315-0127-191	L, N, S	SF-7
g. Jockey Fire Pump failure, start of Electric Fire Pump. [K/A 286000 A2.06] 3.1 / 3.2 315-0172-001	D, S	SF-8
h. Align CCHVAC Emergency Intake to the Lowest Indicated Radiation Level. [K/A 290003 A4.03] 2.8/2.8 802-2001-191	EN, L, N, S	SF-9

In-Plant Systems:* 3 for RO, 3 for SRO-I, and 3 or 2 for SRO-U

i. Fire Zone 9 – Subsequent Action AB, Impact 1 / Strategy 3. [K/A 217000 A2.03] 3.4/3.3 315-0172-207	D, E, R	SF-4
j. Defeat All Primary Containment Vent Valve Isolations. [K/A 223001 A2.07] 4.2/4.3 802-3006-181	E, N, R	SF-5
k. Realign for Control from the Dedicated Shutdown Panel (APE 16/SF 7) [K/A 295016 AA 1.07] 4.2 / 4.3 802-2001-192	E, N, R	SF-7

* 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, and in-plant systems and functions may overlap those tested in the control room.

* Type Codes	Criteria for R /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	≥ 1/≥ 1/≥ 1 (control room system)
(L)ow-Power/Shutdown	≥ 1/≥ 1/≥ 1
(N)ew or (M)odified from bank including 1(A)	≥ 2/≥ 2/≥ 1
(P)revious 2 exams	≤ 3/≤ 3/≤ 2 (randomly selected)
(R)CA	≥ 1/≥ 1/≥ 1
(S)imulator	

Facility: <u>Fermi 2</u>	Date of Examination: <u>6/17/2019</u>
Exam Level: RO <input type="checkbox"/> SRO-I <input checked="" type="checkbox"/> SRO-U <input type="checkbox"/>	Operating Test Number: <u>2019-1</u>

Control Room Systems:* 8 for RO, 7 for SRO-I, and 2 or 3 for SRO-U

System/JPM Title	Type Code*	Safety Function
a. Shift running RRMG Lube Oil Pumps - Noisy Pump Alt Path. [K/A 202001 A4.06] 2.7/2.7 315-0104-184	A, N, S	SF-1
b. Transfer RCIC Suction - Alternate Path. [K/A 217000 A4.03] 3.4 / 3.3 315-0143-181	A, N, S	SF-2
c. Manually Initiate Low-Low Set – Alternate Path. [K/A 239002 A4.01] 4.4 / 4.4 315-0105-181	A, L, M, S	SF-3
d. Manually Place RHR in LPCI Mode - Alternate Path [K/A 203000 A4.02] 4.1/4.1 315-0141-181	A, EN, L, M, S	SF-4
e. Shutdown EDG 11 from MCR following a LOCA. [K/A 264000 A4.04] 3.7/3.7 315-0165-181	EN, L, N, S	SF-6
f. N/A	N/A	N/A
g. Jockey Fire Pump failure, start of Electric Fire Pump. [K/A 286000 A2.06] 3.1 / 3.2 315-0172-001	D, S	SF-8
h. Align CCHVAC Emergency Intake to the Lowest Indicated Radiation Level. [K/A 290003 A4.03] 2.8/2.8 802-2001-191	EN, L, N, S	SF-9

In-Plant Systems:* 3 for RO, 3 for SRO-I, and 3 or 2 for SRO-U

i. Fire Zone 9 – Subsequent Action AB, Impact 1 / Strategy 3. [K/A 217000 A2.03] 3.4/3.3 315-0172-207	D, E, R	SF-4
j. Defeat All Primary Containment Vent Valve Isolations. [K/A 223001 A2.07] 4.2/4.3 802-3006-181	E, N, R	SF-5
k. Realign for Control from the Dedicated Shutdown Panel (APE 16/SF 7) [K/A 295016 AA 1.07] 4.2 / 4.3 802-2001-192	E, N, R	SF-7

* 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, and in-plant systems and functions may overlap those tested in the control room.

* Type Codes	Criteria for R /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	≥ 1/≥ 1/≥ 1 (control room system)
(L)ow-Power/Shutdown	≥ 1/≥ 1/≥ 1
(N)ew or (M)odified from bank including 1(A)	≥ 2/≥ 2/≥ 1
(P)revious 2 exams	≤ 3/≤ 3/≤ 2 (randomly selected)
(R)CA	≥ 1/≥ 1/≥ 1
(S)imulator	

Facility: <u>Fermi 2</u>	Date of Examination: <u>6/17/2019</u>
Exam Level: RO <input type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U <input checked="" type="checkbox"/>	Operating Test Number: <u>2019-1</u>

Control Room Systems:* 8 for RO, 7 for SRO-I, and 2 or 3 for SRO-U

System/JPM Title	Type Code*	Safety Function
a. Shift running RRMG Lube Oil Pumps - Noisy Pump Alt Path. [K/A 202001 A4.06] 2.7/2.7 315-0104-184	A, N, S	SF-1
b. Transfer RCIC Suction - Alternate Path. [K/A 217000 A4.03] 3.4 / 3.3 315-0143-181	A, N, S	SF-2
d. Manually Place RHR in LPCI Mode - Alternate Path. [K/A 203000 A4.02] 4.1/4.1 315-0141-181	A, EN, L, M, S	SF-4

In-Plant Systems:* 3 for RO, 3 for SRO-I, and 3 or 2 for SRO-U

j. Defeat All Primary Containment Vent Valve Isolations. [K/A 223001 A2.07] 4.2/4.3 802-3006-181	E, N, R	SF-5
k. Realign for Control from the Dedicated Shutdown Panel (APE 16/SF 7) [K/A 295016 AA 1.07] 4.2 / 4.3 802-2001-192	E, N, R	SF-7

* 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, and in-plant systems and functions may overlap those tested in the control room.

* Type Codes	Criteria for R /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	≥ 1/≥ 1/≥ 1 (control room system)
(L)ow-Power/Shutdown	≥ 1/≥ 1/≥ 1
(N)ew or (M)odified from bank including 1(A)	≥ 2/≥ 2/≥ 1
(P)revious 2 exams	≤ 3/≤ 3/≤ 2 (randomly selected)
(R)CA	≥ 1/≥ 1/≥ 1
(S)imulator	