Administrative Topics Outline

Form ES-301-1

Facility: Fermi 2		Date of Examination:	6/17/2019	
Examination Level: RO 🗵 SRO		Operating Test Number:	2019-1	
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	Calculate Secondary Containment Vacuum		ntainment	
		[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	
		N/A		
Emergency Plan	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: Fermi 2		Date of Examination:	6/17/2019	
Examination Level: RO SRC		Operating Test Number:	2019-1	
Administrative Topic (see Note)	Type Code*	Describe activity to be per	formed	
Conduct of Operations	S/R, D, P	Thermal Limit Verification (MAPRAT) with Tec 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)				

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Control Room/In-Plant Systems Outline

Form ES-301-2

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Facility: Fermi 2	Date of Examination: 6/17/20		6/17/2019
Exam Level: RO 🗵 SRO-I 🔲 SRO-U	J D Operating Test Number: 2019-1		2019-1
	— Орогош.	g reservanise	2010 1
Control Boom Systems: 8 for BO 7 for SBO L an	d 2 or 3 for SPO II		
Control Room Systems:* 8 for RO, 7 for SRO-I, an	<u> </u>	· · · · · · · · · · · · · · · · · · ·	
System/JPM Title		Type Code*	Safety Function
Olife BRMO Luba Oil Busses Naive F	All Dalla		1 unodon
a. Shift running RRMG Lube Oil Pumps - Noisy F [K/A 202001 A4.06] 2.7/2.7	oump Alt Path. 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		A, L, M, S	SF-3
d. Manually Place RHR in LPCI Mode – Alternate		A, EN, L, M,	
[K/A 203000 A4.02] 4.1/4.1	315-0141-181	S S	SF-4
e. Shutdown EDG 11 from MCR following a LOC.		EN, L, N, S	SF-6
[K/A 264000 A4.04] 3.7/3.7	315-0165-181	L14, L, 14, O	
f. Reset Reactor Scram.	245 0427 101	L, N, S	SF-7
[K/A 212000 A4.14] 3.8/3.8 g. Jockey Fire Pump failure, start of Electric Fire	315-0127-191		
g. Jockey Fire Pump failure, start of Electric Fire I [K/A 286000 A2.06] 3.1 / 3.2	315-0172-001	D, S	SF-8
h. Align CCHVAC Emergency Intake to the Lower			
Radiation Level.		EN, L, N, S	SF-9
[K/A 290003 A4.03] 2.8/2.8	802-2001-191		
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.	DEB	SF-4
[K/A 217000 A2.03] 3.4/3.3	315-0172-207	D, E, R	<u>۵۲-4</u>
j. Defeat All Primary Containment Vent Valve Iso [K/A 223001 A2.07] 4.2/4.3	olations. 802-3006-181	E, N, R	SF-5
k. Realign for Control from the Dedicated Shutdov			
16/SF 7)	·	E, N, R	SF-7
[K/A 295016 AA 1.07] 4.2 / 4.3	802-2001-192		
* 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 fo	or R /SRO-I/SRO-U	J
(A)Iternate path	4-6/4-6 /2-3		
(C)ontrol room (D)irect from bank	- OK 9K A		
(D)irect from bank (E)mergency or abnormal in-plant	≤ 9/≤ 8/≤ 4 ≥ 1/≥ 1/≥ 1		
(EN)gineered safety feature	≥ 1/≥ 1/≥ 1 ≥ 1/≥ 1/≥ 1 (control room system)		
(L)ow-Power/Shutdown	≥ 1/≥ 1/≥ 1 (Control 100111 system) ≥ 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			

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Control Room/In-Plant Systems Outline

Form ES-301-2

Facility: Fermi 2	Date of Examination: 6/17/201		6/17/2019
Exam Level: RO SRO-I SRO-U	Operatin	g Test Number:	2019-1
Control Room Systems:* 8 for RO, 7 for SRO-I, an	id 2 or 3 for SRO-U	_	
System/JPM Title		Type Code*	Safety Function
a. Shift running RRMG Lube Oil Pumps - Noisy F [K/A 202001 A4.06] 2.7/2.7	Pump Alt Path. 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 Patr [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 [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 LOC [K/A 264000 A4.04] 3.7/3.7	A. 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 [K/A 286000 A2.06] 3.1 / 3.2	315-0172-001	D, S	SF-8
h. Align CCHVAC Emergency Intake to the Lowe Radiation Level. [K/A 290003 A4.03] 2.8/2.8	st Indicated 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 [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 Shutdo 16/SF 7) [K/A 295016 AA 1.07] 4.2 / 4.3	wn Panel (APE 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 fo	or R /SRO-I/SRO-U	
(A)Iternate 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	$4-6/4-6/2-3$ ≤ $9/\le 8/\le 4$ ≥ $1/\ge 1/\ge 1$ ≥ $1/\ge 1/\ge 1$ (control room system) ≥ $1/\ge 1/\ge 1$ ≥ $2/\ge 1/\ge 1$ ≤ $3/\le 3/\le 2$ (randomly selected) ≥ $1/\ge 1/\ge 1$		

ES-301 Control Room/In-F	االا lant Systems O	<u>ıtline</u>	Form ES-301-2
Facility: Fermi 2	Date of Examination:		6/17/2019
Exam Level: RO 🔲 SRO-I 🔲 SRO-U	Operatir	ng Test Number	2019-1
Control Room Systems:* 8 for RO, 7 for SRO-I, ar	nd 2 or 3 for SRO-U		
System/JPM Title		Type Code*	Safety Function
a. Shift running RRMG Lube Oil Pumps - Noisy I [K/A 202001 A4.06] 2.7/2.7	Pump Alt Path. 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 [K/A 203000 A4.02] 4.1/4.1	Path. 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 Iso [K/A 223001 A2.07] 4.2/4.3	olations. 802-3006-181	E, N, R	SF-5
k. Realign for Control from the Dedicated Shutdo 16/SF 7) [K/A 295016 AA 1.07] 4.2 / 4.3	own Panel (APE 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)Iternate 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	$4-6/4-6/2-3$ ≤ $9/\le 8/\le 4$ ≥ $1/\ge 1/\ge 1$ ≥ $1/\ge 1/\ge 1$ (control room system) ≥ $1/\ge 1/\ge 1$ ≥ $2/\ge 1/\ge 1$ ≤ $3/\le 3/\le 2$ (randomly selected) ≥ $1/\ge 1/\ge 1$		
(S)imulator			