ES-3	01 Control Room Systems and Facility Walk-Through	Fest Outline F	orm ES-301-2	
Faci	lity: Callaway Date of Exam	ination: Augu	st 2002	
Exa	m Level: <u>RO</u> Operating Te	est No.:		
B.1	Control Room Systems	unduð á nörðilm dur enn vil - Í ál - enn e		
	System / JPM Title	Type Code *	Safety Function	
a.	Recover a Dropped Control Rod001A4.06(2.9 / 3.2)S1	D, S	1	
b.	Manually Operate MSIVs Which Fail to Actuate 013A4.01 (4.5 / 4.8) C1	M, A, C, L	2	
с.	Depressurize and Block Safety Injection010A4.01(3.7 / 3.5)S4	D, S, L	3	
d.	Perform 'B' RHR Pump Non-Surveillance Run 005A4.01 (3.6 / 3.4) S2	N, S	4 (Pri)	
e.	Main Turbine Mechanical O/S Trip Test045A2.17(2.7 / 2.9)S3	D, S, A	4 (Sec)	
f.	Respond to a Failed Power Range Instrument015A2.02(3.1 / 3.5)S5	D, S, L	7	
g.	Restoration of CCW From Inadvertent CIS B008A4.01(3.3 / 3.1)S6	N, S, L	8	
B/U	Start 'A' CTMT Cooler Fan 022A4.01 (3.6 / 3.6) Backup	D, S, A	5	
B.2	Facility Walk-Through	METADA/SPOLAR		
a.	Emergency Boration Per FR-S.1           004A2.14         (3.8 / 3.9)         P1	D, A, R, P	1	
b.	Locally Close Valves for CIS A 103A2.03 (3.5 / 3.8) P2	D, R, P	5	
C.	Locally Start NE01 Emergency DG (IPE / PRA) 064A4.01 (4.0 / 4.3) P3	D, A, P	6	
* Type Codes: (D)irect from bank, (M)odified from bank, (N)ew, (A)Iternate path, (C)ontrol room, (S)imulator, (L)ow-Power, (R)CA, (P)Iant				
FACILITY REPRESENTATIVE: MARAMMA DATE: 2002011				
CHI	EF EXAMINER:	DATE: <u> </u>	110/02	
N	<i>γ ′</i> UREG-1021	R	evision 8	

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ES-3	01 Cor	ntrol Room	Systems and Fac	cility Walk-Through	n Test Outline F	orm ES-301-2
Faci	lity:	Callawa	Ŋ	_ Date of Exa	mination: Augu	st 2002
Exa	m Level:	SRO (I)	. <u></u>	_ Operating	Test No.:	
B.1	Contro	Room Sys	stems	· · · · · · · · · · · · · · · · · · ·		
		Sys	tem / JPM Title		Type Code *	Safety Function
a.	Recover 001A4.00	a Dropped	Control Rod (2.9 / 3.2)	S1	D, S	1
b.	Manually 013A4.0	Operate N	/ISIVs Which Fa (4.5 / 4.8)	il to Actuate C1	M, A, C, L	2
c.	Depress 010A4.0	urize and E 1	lock Safety Inje (3.7 / 3.5)	ction S4	D, S, L	3
d.	Perform 005A4.0	'B' RHR Pւ 1	ımp Non-Surveil (3.6 / 3.4)	llance Run S2	N, S	4 (Pri)
е.	Main Tur 045A2.1	bine Mech 7	anical O/S Trip <sup>-</sup> (2.7 / 2.9)	Test S3	D, S, A	4 (Sec)
f.	Respond 015A2.02	l to a Faileo 2	d Power Range (3.1 / 3.5)	Instrument S5	D, S, L	7
g.	Restorat 008A4.0	ion of CCW 1	/ From Inadverte (3.3 / 3.1)	ent CIS B S6	N, S, L	8
B/U	Start 'A' 022A4.0	CTMT Coo 1	ler Fan (3.6 / 3.6)	Backup	D, S, A	5
B.2	Facility	Walk-Thro	bugh			
a.	Emerger 004A2.14	ncy Boration 4	n Per FR-S.1 (3.8 / 3.9)	P1	D, A, R, P	1
b.	Locally C 103A2.03	Close Valve	es for CIS A (3.5 / 3.8)	P2	D, R, P	5
C.	Locally S 064A4.0	Start NE01 1	Emergency DG (4.0 / 4.3)	(IPE / PRA) P3	D, A, P	6
<ul> <li>* Type Codes: (D)irect from bank, (M)odified from bank, (N)ew, (A)Iternate path, (C)ontrol room, (S)imulator, (L)ow-Power, (R)CA, (P)Iant</li> </ul>						
FACILITY REPRESENTATIVE: SIM HOUSE DATE: 20120710						
CHI	EF EXAMII	NER:	A.W. p	bits	DATE:	7/10/8-2
N	UREG-10	21	Y C		R	evision 8

ES-30	01 Cor	trol Room Systems and Fa	acility Walk-Through Test C	Dutline For	m ES-301-2
Faci	lity:	Callaway	Date of Examinatio	n: <u>August</u>	2002
Exai	m Level:	SRO (U)	Operating Test No	0.:	
B.1	Control	Room Systems	n		· · · · · · · · · · · · · · · · · · ·
		System / JPM Tit	le	Type Code *	Safety Function
a.	Manually 013A4.0 <sup>-</sup>	Operate MSIVs Which Fa (4.5 / 4.8)	ail to Actuate C1	M, A, C, L	2
b.	Perform 005A4.0	B' RHR Pump Non-Surve 1 (3.6 / 3.4)	illance Run S2	N, S	4 (Pri)
C.	Restorati 008A4.0	on of CCW From Inadvert (3.3 / 3.1)	ent CIS B S6	N, S, L	8
d.					
e.					
f.					
g.	· ·, .		· · · · · · · · · · · · · · · · · · ·		
B/U	Start 'A' ( 022A4.0 <sup>-</sup>	CTMT Cooler Fan I (3. 6 / 3.6)	Backup	D, S, A	5
B.2	Facility	Walk-Through			
a.	Emergen 004A2.14	cy Boration Per FR-S.1 4 (3.8 / 3.9)	P1	D, A, R, P	1
b.	Locally S 064A4.0 <sup>-</sup>	tart NE01 Emergency DG I (4.0 / 4.3)	(IPE / PRA) P3	D, A, P	6
C.					
* Ty (C	vpe Codes C)ontrol ro	: (D)irect from bank, (M)c om, (S)imulator, (L)ow-Po	odified from bank, (N)ew, wer, (R)CA, (P)lant	(A)lternate pa	ath,
FAC	FACILITY REPRESENTATIVE: SMARLAN DATE: 20020710				
CHIE	EF EXAMIN	IER:	ht	DATE: _7/	10/02
N	UREG-102	21		Rev	ision 8

	~ 4	Callaway Rev. 1	, Jun. 24, 2002
ES-3	01	Administrative Topics Outline	Form ES-301-1
Facility: Cal Examination Level: RO		Illaway       Date of Examination:       Aug         O       Operating Test Number:	gust 2002
	Administrative Topic/Subject Description	Describe method of evaluation: 1. ONE Administrative JPM, OR 2. TWO Administrative Questions	
A.1	Conduct Of Operations / Evaluate Plant Performance	Determine If Rod Insertion Limit Has Been Exceede G 2.1.7 (3.7) A1 RO	əd /SRO
	Conduct Of Operations / Interpret Reference Material	Determine Dilution Requirements G 2.1.25 (2.8) A2 RO	/SRO
A.2	Equipment Control / Refueling Process	Calculate RHR Pump Run Time For Flood Up G 2.2.27 (2.6) A3 RO	
A.3	Radiation Control / Stay Times	Calculate Stay Time G 2.3.10 (2.9) A4 RO	
A.4	Emergency Procedures / Plan Knowledge Of RERP	Determine Status Of Control Room Annunciators G 2.4.48 (3.5) A5 RO	
FACILITY REPRESENTATIVE: DUIL DATE: 7/10/02			
NUREG-1021 Revision 8			

		Callaway Rev	v. 0, Feb. 27, 2002	
ES-3	01	Administrative Topics Outline	Form ES-301-1	
Facility: <u>Cal</u> Examination Level: <u>SR</u>		Ilaway  Date of Examination:    O  Operating Test Number:	August 2002	
	Administrative Topic/Subject Description	Describe method of evaluation: 1. ONE Administrative JPM, OR 2. TWO Administrative Questions		
A.1	Conduct Of Operations / Evaluate Plant Performance	Determine If Rod Insertion Limit Has Been Exce G 2.1.7 (4.4) A1 I	eded RO/SRO	
	Conduct Of Operations / Interpret Reference Material	Determine Dilution Requirements G 2.1.25 (3.1) A2 I	RO/SRO	
A.2	Equipment Control / Surveillance Procedures	Determine Actions For Valve Stroke Test G 2.2.12 (3.4) A3 S	SRO	
A.3	Radiation Control / Exposure Limits	Reportability For Exceeding Exposure Limits G 2.3.4 (3.1) A4	SRO	
A.4	Emergency Procedures / Plan RERP Notifications	Emergency Event Classification G 2.4.41 (4.1) A5	SRO	
FACILITY REPRESENTATIVE: CHIEF EXAMINER: NUREG-1021 DATE: 7/10/02 Revision				

Appendix D

Scenario Outline

Form ES-D-1

	Callaway Plant Initial License Exam – August 2002
	SCENARIO # ILE2002DS1
EXAMINERS:	APPLICANTS:
INITIAL CONDITIONS:	100% Reactor Power, 'B' RHR Pump OOS
TURNOVER:	See Turnover Sheet

Event No.	Event Type *	Event Description	KA Number
$\mathbf{A} \\ \mathbf{t} = 0$	N (RO, SRO)	Increase Letdown Flow From 75 GPM to 120 GPM	004A4.06 (3.6 / 3.1)
B	I	'B' S/G Level Channel 529 Fails High	016K3.12
t = 10	(BOP, SRO)		(3.4 / 3.6)
C	I	VCT Level Channel 149 Fails High	004A2.18
t = 20	(RO, SRO)		(3.1 / 3.1)
D	C	'B' Circulating Water Pump Trip	075A2.02
t = 25	(ALL)		(2.5 / 2.7)
E	R	Turbine Setback to 75% Power	045K4.12
t = 25	(RO)		(3.3 / 3.6)
F	M	Hotwell Instrumentation Leak - Loss of Feed	054AA2.01
t = 35	(ALL)		(4.3 / 4.4)
G	C	Turbine Automatic Trip Failure	007EA1.07
PRE	(BOP, SRO)		(4.3 / 4.3)
H	M	Large Break LOCA	011EK3.12
PRE	(ALL)		(4.4 / 4.6)
I	C	ESF Bus NB01 Lockout (IPE / PRA)	062A2.04
PRE	(ALL)		(3.1 / 3.4)

\* (N) Normal (R) Reactivity (I) Instrument (C) Component (M) Major

FACILITY REPRESE	NTATIVE: Devill	DATE: 7/(0/82
CHIEF EXAMINER:	M.W. Alt	DATE: 7/0/02
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Appendix D

Scenario Outline

Form ES-D-1

	Callaway Plant Initial License Exam – August 2002
	SCENARIO # ILE2002DS2
EXAMINERS:	APPLICANTS:
INITIAL CONDITIONS:	30% Reactor Power, 'B' RHR Pump OOS
TURNOVER:	See Turnover Sheet

Event No.	Event Type *	Event Description	KA Number
$\mathbf{A} \\ \mathbf{t} = 0$	N (RO, SRO)	Swap Charging From NCP To CCP	004A4.08 (3.8 / 3.4)
B	I	Pressurizer Pressure Channel 455 Fails High	027AA2.15
t = 10	(RO, SRO)		(3.7 / 4.0)
C	I	Steam Flow Channel 542 Fails High On 'D' S/G	059A2.11
t = 20	(BOP, SRO)		(3.0 / 3.3)
D	C	Steam Generator Tube Leak On 'D' S/G	037AK3.05
t = 25	(ALL)		(3.7 / 4.0)
E	R	Plant Shutdown Due To S/G Tube Leak	004A4.01
t = 25	(RO)		(3.8 / 3.9)
F	M	Steam Generator Tube Rupture On 'D' S/G (IPE / PRA)	038EA2.02
t = 40	(ALL)		(4.5 / 4.8)
G	C	Failure Of 'D' FWIV To Automatically Close	013A4.01
PRE	(ALL)		(4.5 / 4.8)
H	M	S/G Safety Stuck Open On 'D' S/G	035A2.01
t = 42	(ALL)		(4.5 / 4.6)

\* (N) Normal (R) Reactivity (I) Instrument (C) Component (M) Major

W. John \_\_\_\_ DATE: 7/1×102\_\_\_\_ \_\_\_\_ DATE: 7/16/0-\_\_\_\_ FACILITY REPRESENTATIVE: CHIEF EXAMINER:

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Appendix D

Scenario Outline

Form ES-D-1

	Callaway Plant Initial License Exam – August 2002
	SCENARIO # ILE2002DS B/U
EXAMINERS:	APPLICANTS:
· · · · · · · · · · · · · · · · · · ·	
INITIAL CONDITIONS:	80% Reactor Power, 'B' RHR Pump OOS
TURNOVER:	See Turnover Sheet

Event No.	Event Type *	Event Description	KA Number
$\mathbf{A} \\ \mathbf{t} = 0$	I (RO, SRO)	Pressurizer Level Channel 459 Fails Low	011A2.11 (3.4 / 3.6)
$\mathbf{B} \\ \mathbf{t} = 0$	C (RO, SRO)	Letdown Isolation Valve Fails Closed	004A2.07 (3.4 / 3.7)
C	N	Place Excess Letdown In Service	028AA1.05
N/A	(RO, SRO)		(2.8 / 2.9)
D	C	'A' RCP High Vibration	015AA1.23
t = 20	(ALL)		(3.1 / 3.2)
E	R	Plant Shutdown Due To RCP High Vibration	004A4.01
t = 20	(RO)		(3.8 / 3.9)
F	I	'A' S/G PORV Failure	041A4.06
t = 35	(BOP, SRO)		(2.9 / 3.1)
G	M	Loss of Off-Site Power and NB02	056AA2.44
t = 40	(ALL)		(4.3 / 4.5)
H	C	Auto Reactor Trip Failure	029EA1.12
PRE	(ALL)		(4.1 / 4.0)
I	C	TDAFP Fails To Auto Start	061A2.04
PRE	(ALL)		(3.4 / 3.8)
J	C	Loss of All AC due to NE01 Failure (IPE / PRA)	055EA2.02
PRE	(ALL)		(4.4 / 4.6)

\* (N) Normal (R) Reactivity (I) Instrument (C) Component (M) Major

FACILITY REPRESENTATIVE:

DATE: 7/10/02

CHIEF EXAMINER:

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