

Proposed Schedule

Hope Creek NRC Examination

Start: May 30, 2000
Finish: June 7, 2000

Task Name	Duration	Start	Finish	Resource Names
Tue May 30				
NRC Entrance	0.5 hrs	7:00 AM	7:30 AM	NRC1
Scenario #1	2 hrs	7:30 AM	9:30 AM	NRC1,NRC2,RO1,SR01,SUR
Scenario #1	2 hrs	9:30 AM	11:30 AM	SRO3,SUR,RO2,NRC3,NRC1
Scenario #1	2 hrs	12:00 PM	2:00 PM	NRC2,RO4,SRO4,SUR,NRC3
Wed May 31				
Scenario #2	2 hrs	7:00 AM	9:00 AM	NRC3,NRC1,SRO2,SR01,SUR
Scenario #2	2 hrs	9:00 AM	11:00 AM	NRC2,R03,RO2,SUR,NRC1
Scenario #2	2 hrs	11:30 AM	1:30 PM	SUR,SRO5,RO5,NRC1,NRC2
Job Performance Measures B.1.a	15 mins	1:30 PM	1:45 PM	NRC3,R04
Job Performance Measures B.1.a	15 mins	1:45 PM	2:00 PM	RO1,NRC2
Job Performance Measures B.1.a	15 mins	2:00 PM	2:15 PM	RO2,NRC1
Job Performance Measures B.1.a	15 mins	2:15 PM	2:30 PM	SRO3,NRC3
Job Performance Measures B.1.a	15 mins	2:30 PM	2:45 PM	NRC2,RO3
Job Performance Measures B.1.a	15 mins	2:45 PM	3:00 PM	NRC1,SR01
Job Performance Measures B.1.a	15 mins	3:00 PM	3:15 PM	NRC3,SRO2
Job Performance Measures B.1.a	15 mins	3:15 PM	3:30 PM	R05,NRC2
Job Performance Measures B.1.a	15 mins	3:30 PM	3:45 PM	SRO5,NRC1
Job Performance Measures B.1.a	15 mins	3:45 PM	4:00 PM	SRO4,NRC2
Thu Jun 01				
Scenario #3	2 hrs	7:00 AM	9:00 AM	NRC3,NRC2,SRO2,RO1,SUR
Scenario #3	2 hrs	9:00 AM	11:00 AM	NRC3,SRO3,R03,SUR,NRC2
Scenario #3	2 hrs	12:00 PM	2:00 PM	NRC2,SRO4,RO4,SUR,NRC3
Scenario #3	2 hrs	2:00 PM	4:00 PM	NRC1,SRO5,RO5,SUR,NRC2
Fri Jun 02				
Job Performance Measures B.1.b	15 mins	7:00 AM	7:15 AM	NRC1,RO2
Job Performance Measures B.1.b	15 mins	7:15 AM	7:30 AM	NRC3,R04
Job Performance Measures B.1.b	15 mins	7:30 AM	7:45 AM	NRC2,RO3
Job Performance Measures B.1.b	15 mins	7:45 AM	8:00 AM	NRC1,SR01
Job Performance Measures B.1.b	15 mins	8:00 AM	8:15 AM	R05,NRC2
Job Performance Measures B.1.b	15 mins	8:15 AM	8:30 AM	SRO3,NRC3
Job Performance Measures B.1.b	15 mins	8:30 AM	8:45 AM	NRC2,RO1
Job Performance Measures B.1.b	15 mins	8:45 AM	9:00 AM	NRC1,SRO5
Job Performance Measures B.1.b	15 mins	9:00 AM	9:15 AM	NRC2,SRO4
Job Performance Measures B.1.b	15 mins	9:15 AM	9:30 AM	NRC3,SRO2
Job Performance Measures B.1.c	15 mins	9:30 AM	9:45 AM	NRC1,RO2
Job Performance Measures B.1.c	15 mins	9:45 AM	10:00 AM	NRC3,R04
Job Performance Measures B.1.c	15 mins	10:00 AM	10:15 AM	NRC2,RO3
Job Performance Measures B.1.c	15 mins	10:15 AM	10:30 AM	NRC1,SR01
Job Performance Measures B.1.c	15 mins	10:30 AM	10:45 AM	NRC2,RO1

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Hope Creek NRC Examination

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Task Name	Duration	Start	Finish	Resource Names
Fri Jun 02, continued				
Job Performance Measures B.1.c	15 mins	10:45 AM	11:00 AM	SRO3,NRC3
Job Performance Measures B.1.c	15 mins	11:00 AM	11:15 AM	R05,NRC2
Job Performance Measures B.1.c	15 mins	11:15 AM	11:30 AM	NRC1,SRO5
Job Performance Measures B.1.c	15 mins	11:30 AM	11:45 AM	NRC3,SRO2
Job Performance Measures B.1.c	15 mins	11:45 AM	12:00 PM	NRC2,SRO4
Job Performance Measures B.1.d	15 mins	12:00 PM	12:15 PM	NRC1,RO2
Job Performance Measures B.1.d	15 mins	12:15 PM	12:30 PM	NRC3,R04
Job Performance Measures B.1.d	15 mins	12:30 PM	12:45 PM	NRC2,RO3
Job Performance Measures B.1.d	15 mins	12:45 PM	1:00 PM	NRC1,SR01
Job Performance Measures B.1.d	15 mins	1:00 PM	1:15 PM	SRO3,NRC3
Job Performance Measures B.1.d	15 mins	1:15 PM	1:30 PM	NRC2,RO1
Job Performance Measures B.1.d	15 mins	1:30 PM	1:45 PM	NRC1,SRO5
Job Performance Measures B.1.d	15 mins	1:45 PM	2:00 PM	R05,NRC2
Job Performance Measures B.1.d	15 mins	2:00 PM	2:15 PM	NRC3,SRO2
Job Performance Measures B.1.d	15 mins	2:15 PM	2:30 PM	NRC2,SR04
Job Performance Measures B.1.e	15 mins	2:30 PM	2:45 PM	NRC1,RO2
Job Performance Measures B.1.e	15 mins	2:45 PM	3:00 PM	NRC3,R04
Job Performance Measures B.1.e	15 mins	3:00 PM	3:15 PM	NRC2,RO3
Job Performance Measures B.1.e	15 mins	3:15 PM	3:30 PM	NRC1,SR01
Job Performance Measures B.1.e	15 mins	3:30 PM	3:45 PM	SRO3,NRC3
Job Performance Measures B.1.e	15 mins	3:45 PM	4:00 PM	NRC2,RO1
Job Performance Measures B.1.e	15 mins	4:00 PM	4:15 PM	NRC1,SRO5
Job Performance Measures B.1.e	15 mins	4:15 PM	4:30 PM	R05,NRC2
Job Performance Measures B.1.e	15 mins	4:30 PM	4:45 PM	NRC3,SRO2
Job Performance Measures B.1.e	15 mins	4:45 PM	5:00 PM	NRC2,SRO4
Mon Jun 05				
Job Performance Measures B.1.f	15 mins	7:00 AM	7:15 AM	NRC1,RO2
Job Performance Measures B.1.f	15 mins	7:15 AM	7:30 AM	NRC3,R04
Job Performance Measures B.1.f	15 mins	7:30 AM	7:45 AM	NRC2,RO3
Job Performance Measures B.1.f	15 mins	7:45 AM	8:00 AM	NRC1,SR01
Job Performance Measures B.1.f	15 mins	8:00 AM	8:15 AM	SRO3,NRC3
Job Performance Measures B.1.f	15 mins	8:15 AM	8:30 AM	NRC2,RO1
Job Performance Measures B.1.f	15 mins	8:30 AM	8:45 AM	NRC1,SRO5
Job Performance Measures B.1.f	15 mins	8:45 AM	9:00 AM	R05,NRC2
Job Performance Measures B.1.f	15 mins	9:00 AM	9:15 AM	NRC3,SRO2
Job Performance Measures B.1.f	15 mins	9:15 AM	9:30 AM	NRC2,SRO4
Job Performance Measures B.1.g	15 mins	9:30 AM	9:45 AM	NRC1,RO2
Job Performance Measures B.1.g	15 mins	9:45 AM	10:00 AM	NRC3,R04
Job Performance Measures B.1.g	15 mins	10:00 AM	10:15 AM	NRC2,RO3
Job Performance Measures B.1.g	15 mins	10:15 AM	10:30 AM	NRC1,SR01

Proposed Schedule

Hope Creek NRC Examination

Start: May 30, 2000

Finish: June 7, 2000

Task Name	Duration	Start	Finish	Resource Names
Mon Jun 05, continued				
Job Performance Measures B.1.g	15 mins	10:30 AM	10:45 AM	SRO3,NRC3
Job Performance Measures B.1.g	15 mins	10:45 AM	11:00 AM	R05,NRC2
Job Performance Measures B.1.g	15 mins	11:00 AM	11:15 AM	NRC1,SRO5
Job Performance Measures B.1.g	15 mins	11:15 AM	11:30 AM	NRC2,RO1
Job Performance Measures B.1.g	15 mins	11:30 AM	11:45 AM	NRC3,SRO2
Job Performance Measures B.1.g	15 mins	11:45 AM	12:00 PM	NRC2,SRO4
RO A.1.2	15 mins	12:00 PM	12:15 PM	NRC2,RO1
RO A.1.2	15 mins	12:15 PM	12:30 PM	NRC1,RO2
RO A.1.2	15 mins	12:30 PM	12:45 PM	NRC3,R04
RO A.1.2	15 mins	12:45 PM	1:00 PM	NRC2,RO3
RO A.1.2	15 mins	1:00 PM	1:15 PM	RO5,NRC2
RO A.2	15 mins	1:15 PM	1:30 PM	NRC2,RO1
RO A.2	15 mins	1:30 PM	1:45 PM	NRC1,RO2
RO A.2	15 mins	1:45 PM	2:00 PM	NRC3,R04
RO A.2	15 mins	2:00 PM	2:15 PM	NRC2,RO3
RO A.2	15 mins	2:15 PM	2:30 PM	RO5,NRC2
RO A.4	15 mins	2:30 PM	2:45 PM	NRC2,RO1
RO A.4	15 mins	2:45 PM	3:00 PM	NRC1,RO2
RO A.4	15 mins	3:00 PM	3:15 PM	NRC3,R04
RO A.4	15 mins	3:15 PM	3:30 PM	NRC2,RO3
RO A.4	15 mins	3:30 PM	3:45 PM	RO5,NRC2
Tue Jun 06				
SRO A.1.1, A.1.2, A.2, A.3, A.4	90 mins	7:00 AM	8:30 AM	NRC1,SR01
SRO A.1.1, A.1.2, A.2, A.3, A.4	90 mins	7:00 AM	8:30 AM	NRC2,SRO4
SRO A.1.1, A.1.2, A.2, A.3, A.4	90 mins	7:00 AM	8:30 AM	SRO3,NRC3
SRO A.1.1, A.1.2, A.2, A.3, A.4	90 mins	8:30 AM	10:00 AM	NRC3,SRO2
SRO A.1.1, A.1.2, A.2, A.3, A.4	90 mins	8:30 AM	10:00 AM	NRC1,SRO5
RO A.1.1, A.3	30 mins	8:30 AM	9:00 AM	NRC2,RO1
RO A.1.1, A.3	30 mins	9:00 AM	9:30 AM	NRC2,RO3
RO A.1.1, A.3	30 mins	9:30 AM	10:00 AM	RO5,NRC2
RO A.1.1, A.3	30 mins	10:00 AM	10:30 AM	NRC1,RO2
RO A.1.1, A.3	30 mins	10:00 AM	10:30 AM	NRC3,R04
Job Performance Measures B.2.a, B.2.b, B.2.c	60 mins	10:00 AM	11:00 AM	R05,NRC2
Job Performance Measures B.2.a, B.2.b, B.2.c	60 mins	10:30 AM	11:30 AM	NRC1,RO2
Job Performance Measures B.2.a, B.2.b, B.2.c	60 mins	10:30 AM	11:30 AM	NRC3,R04
Job Performance Measures B.2.a, B.2.b, B.2.c	60 mins	11:00 AM	12:00 PM	NRC2,RO3
Job Performance Measures B.2.a, B.2.b, B.2.c	60 mins	11:30 AM	12:30 PM	NRC3,SRO2
Job Performance Measures B.2.a, B.2.b, B.2.c	60 mins	11:30 AM	12:30 PM	NRC1,SRO5
Job Performance Measures B.2.a, B.2.b, B.2.c	60 mins	12:00 PM	1:00 PM	NRC2,RO1
Job Performance Measures B.2.a, B.2.b, B.2.c	60 mins	12:30 PM	1:30 PM	NRC1,SR01

Proposed Schedule

Hope Creek NRC Examination

Start: May 30, 2000
Finish: June 7, 2000

Task Name	Duration	Start	Finish	Resource Names
Tue Jun 06, continued				
Job Performance Measures B.2.a, B.2.b, B.2.c	60 mins	12:30 PM	1:30 PM	SRO3,NRC3
Job Performance Measures B.2.a, B.2.b, B.2.c	60 mins	1:00 PM	2:00 PM	NRC2,SRO4
Wed Jun 07				
Written Examination	5 hrs	7:30 AM	12:30 PM	RO1,RO2,R03,RO4,RO5,SR01,SRO2,SRO3,SRO4,SRO5

ES-301

Administrative Topics Outline
Page 1 of 1

FORM ES-301-1

Facility: <u>HOPE CREEK</u>		Date of Examination: <u>5/30/00</u>
Examination Level: <input checked="" type="checkbox"/> RO <input type="checkbox"/> SRO		Operating Test Number: _____
Administrative Topic/Subject Description		Describe method of evaluation: 1. ONE Administrative JPM, OR 2. TWO Administrative Questions
A.1	Plant Parameter Verification	2.1.19 Ability to use plant computer to obtain and evaluate parametric information on system or component status.(3.0) JPM-Obtain and evaluate Periodic Core Edit, P-1, information.
	Shift Turnover	2.1.3 Knowledge of shift turnover practices.(3.0) JPM-Complete shift turnover Attachment as off-going RO. (Simulator perform)
A.2	Surveillance Procedures	2.2.12 Knowledge of surveillance procedures.(3.0) JPM-Perform Single Loop Recirculation System Daily Surveillance procedure and evaluate the results. (Simulator perform)
A.3	Radiation Exposure Control	2.3.4 Knowledge of radiation exposure limits and contamination control/including permissible levels in excess of those authorized.(2.5) Given an emergency condition, determine allowable stay times.
		2.3.4 Knowledge of radiation exposure limits and contamination control/including permissible levels in excess of those authorized.(2.5) Specify the limitations on personnel entering a High Radiation Area without RP escort.
A.4	Emergency Action Levels and Classifications	2.4.39 Knowledge of the RO's responsibilities in emergency plan implementation. JPM-Complete a Major Equipment and Electrical Status Form (Simulator perform)

Facility: <u>HOPE CREEK</u>		Date of Examination: <u>5/30/00</u>
Examination Level: <input type="checkbox"/> RO <input checked="" type="checkbox"/> SRO		Operating Test Number: _____
Administrative Topic/Subject Description		Describe method of evaluation: 1. ONE Administrative JPM, OR 2. TWO Administrative Questions
A.1	Reactor Startup Requirements	2.1.11 Knowledge of less than one hour technical specification action statements for systems.(3.8) JPM-Review and evaluate a Reactor Coolant System heat-up rate Attachment, and initiate necessary actions.
	Plant Parameter Verification	2.1.7 Ability to evaluate plant performance and make operational judgments based on operating characteristics/reactor behavior/and instrument interpretation.(4.4) Given plant conditions, determine if the Natural Circulation Decay Heat Removal method may be established. 2.1.25 Ability to obtain and interpret station reference materials such as graphs/monographs/and tables which contain performance data.(3.1) Given plant conditions, determine the expected condenser backpressure expected following CW pump removal.
A.2	Surveillance Testing	2.2.12 Knowledge of surveillance procedures.(3.4) JPM-Review and evaluate a completed Surveillance Procedure and initiate necessary actions.
A.3	Radiation Exposure Limits	2.3.4 Knowledge of radiation exposure limits and contamination control, including permissible levels in excess of those authorized.(3.1) Given an emergency condition, determine allowable stay times.
		2.3.1 Knowledge of 10CFR20 and related facility radiation control requirements.(3.0) Apply the NBU radiation exposure limits for a Declared Pregnant Worker with existing exposure.
A.4	Emergency Action Levels and Classifications	2.4.41 Knowledge of the Emergency Action Level thresholds and classifications. JPM-Given a set of conditions, classify an event and complete the Initial Contact Message Form.

ES-301

Control Room Systems and Facility Walk-Through Test Outline FORM ES-301-2
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Facility: HOPE CREEK Date of Examination: 5/30/00
 Examinations Developed by: ☒ Facility ☐ NRC
 Examination Level: ☒ RO ☒ SRO Operating Test Number: _____

B.1 Control Room Systems

System / JPM Title	Type Code*	Safety Function
a. RCIC-Return RCIC to Full Flow Recirc	N, S	4
b. HPCI-Manual Initiation Failure	D, A, S	2
c. EHC-Failure of Turbine Speed Circuit during Startup	N, L, A, S	3
d. CRD Hydraulic System-Pump trip, RPV Pressure <900 psig	N, L, A, S	1
e. H2/O2-Place in service post LOCA	D, S	5
f. RPS-Reset Full Scram, Rod at Over Travel	M, A, S	7
g. FRVS-Remove FRVS from service	M, S	9

B.2 Facility Walk-Through

a. CRD-Swap Stabilizing Valves	D, P, R	6
b. RMCS-Bypass a control rod	D, P	1
c. HPCI-Bypass Core Spray Injection Valve During ATWS	D, P	2

* Type Codes: (D)irect from bank, (M)odified from bank, (N)ew, (A)lternate path, (C)ontrol room, (S)imulator, (L)ow-Power, (P)lant, (R)CA

Appendix D

Scenario Outline
Page 1 of 1

Form ES-D-1

Facility: <u>Hope Creek</u>	Scenario Number: <u>1</u>	Operating Test Number: <u> </u>	
Examinees: <u> </u>	Evaluators: <u> </u>		
<u> </u>	<u> </u>		
<u> </u>	<u> </u>		
<p>Objectives:</p> <p>Initial Conditions: Plant is at approximately 35% power during Reactor startup.</p> <p>Turnover: Continue the startup, raise power, and place necessary equipment in service.</p>			
Event Number	Malf. Number	Event Type*	Event Description
1.		R(RO) N(SRO)	Raise reactor power with rods
2.	CD03	C(RO) (SRO)	Stuck Control Rod, recoverable
3.		N(SRO)	Place RFP in service
4.	NM11	I(RO) (SRO)	APRM Failure
5.	HV02	C(SRO)	Loss of Control Room Supply Fan
6.	TC03/ RP06(7)/ TC01(4-9)	M(RO) (SRO)	Turbine Trip/ATWS/Failure of Turbine Bypass Valves to Open
7.	RC09	C(SRO)	RCIC steam line break and automatic isolation failure

* (N)ormal, (R)eactivity, (I)nstrument, (C)omponent, (M)ajor

Facility: Hope Creek Scenario Number: 2 Operating Test Number: _____

Examinees: _____ Evaluators: _____

Objectives:

Initial Conditions: Plant is operating at 93% power following a Minimum Generation Alert.
Preparations are complete for a Core Spray In-Service Test.

Turnover: Raise Reactor power to 100%. Complete Core Spray In-Service Test.

Event Number	Malf. Number	Event Type*	Event Description
1.		R(RO) N(SRO)	Raise Reactor power with Recirculation flow
2.	CS01	N(PO) (SRO)	Perform Core Spray In Service Test with pump trip
3.	RR08	I(RO) (SRO)	Recirculation Pump Runaway
4.	MC13	I(PO) (SRO)	Condenser level transmitter failure
5.	RR11	C(RO) (SRO)	Recirculation pump trip
6.	RR31B2	M(ALL)	Recirculation loop leak/Loss of power to A and B vital busses
7.	RH05	C(PO) (SRO)	C RHR Pump suction strainer clogging
8.			

* (N)ormal, (R)eactivity, (I)nstrument, (C)omponent, (M)ajor

Facility: <u>Hope Creek</u>	Scenario Number: <u>3</u> Operating Test Number: _____
Examiners: _____ _____ _____	Evaluators: _____ _____ _____

Objectives:

Initial Conditions: Plant is operating at 10 MWE less than 100% power. Preparations are complete for HPCI In-Service Test.

Turnover: Complete HPCI In-Service Test. Return power to 100%.

Event Number	Malfunction Number	Event Type*	Event Description
1.		N(PO)	HPCI In-service Test
2.	HP06M	C(PO)	HPCI oil leak
3.	CD10	C(RO)	CRD pump trip
4.	RR19	I(RO)	Recirculation Flow transmitter failure
5.	RR01	R(RO)	Recirculation Pump Speed signal error requiring power reduction
6.	ED09C2	C(PO)	Loss of 1CD482/TACS recovery
7.	MS15	M(RO) (PO)	MSIV closure/Reactor scram/stuck control rods
8.	RC03	I(PO)	RCIC flow controller failure in Auto

* (N)ormal, (R)eactivity, (I)nstrument, (C)omponent, (M)ajor

Facility: <u>Hope Creek</u>	Scenario Number: <u>4</u>	Operating Test Number: _____	
Examinees: _____ _____	Evaluators: _____ _____		
<p>Objectives: SPARE SCENARIO</p> <p>Initial Conditions: Plant is operating at 22% power. A Reactor startup is in progress. Preparations are complete to synchronize the Main Generator.</p> <p>Turnover: Synchronize the Main Generator. Continue with the startup. Raise Reactor power with control rods.</p>			
Event Number	Malf. Number	Event Type*	Event Description
1.		N(PO)	Synchronize Main Generator
2.		R(RO)	Raise Reactor power with control rods
3.	RS01	I(RO)	RWM Failure
4.	CD02	C(RO)	Control Rod Drift Out
5.	EG02	I(PO)	False Main Generator Core Monitor alarm
6.		C(PO)	Loss of Reactor Building Ventilation
7.	CU03/ CU11A(B)	C(RO)	RWCU System leak/Failure to isolate
8.	MS01/ PC04/AD02 B(D)C	M(RO) (PO)	Steam leak inside the drywell/Downcomer failure/ Emergency Depressurization/2 ADS SRVs fail to open

* (N)ormal, (R)eactivity, (I)nstrument, (C)omponent, (M)ajor

