

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation	
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Back-ward	Q=K/A	SRO Only			
1	F	2													S	
2	H	2													S	
3	H	3													S	
4	H	2													E	STATE DBA LOC?
5	H	2													S	
6	H	2													S	VERIFY TECHNICAL?
7	H	2													S	
8	F	2											X		U	K/A MM CAUSE/EFFECT?

Instructions

[Refer to Section D of ES-401 and Appendix B for additional information regarding each of the following concepts.]

- Enter the level of knowledge (LOK) of each question as either (F)undamental or (H)igher cognitive level.
- Enter the level of difficulty (LOD) of each question using a 1 – 5 (easy – difficult) rating scale (questions in the 2 – 4 range are acceptable).
- Check the appropriate box if a psychometric flaw is identified:
 - The stem lacks sufficient focus to elicit the correct answer (e.g., unclear intent, more information is needed, or too much needless information).
 - The stem or distractors contain cues (i.e., clues, specific determiners, phrasing, length, etc.).
 - The answer choices are a collection of unrelated true/false statements.
 - The distractors are not credible; single implausible distractors should be repaired, more than one is unacceptable.
 - One or more distractors is (are) partially correct (e.g., if the applicant can make unstated assumptions that are not contradicted by stem).
- Check the appropriate box if a job content error is identified:
 - The question is not linked to the job requirements (i.e., the question has a valid K/A but, as written, is not operational in content).
 - The question requires the recall of knowledge that is too specific for the closed reference test mode (i.e., it is not required to be known from memory).
 - The question contains data with an unrealistic level of accuracy or inconsistent units (e.g., panel meter in percent with question in gallons).
 - The question requires reverse logic or application compared to the job requirements.
- Check questions that are sampled for conformance with the approved K/A and those that are *designated SRO-only* (K/A and license level mismatches are unacceptable).
- Based on the reviewer's judgment, is the question as written (U)nsatisfactory (requiring repair or replacement), in need of (E)ditorial enhancement, or (S)atisfactory?
- At a minimum, explain any "U" ratings (e.g., how the Appendix B psychometric attributes are not being met).

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only			
86	H	2													S	
87	H	2													S	
88	H	2													S	
89	H	2													S	
90	F	2													S	
91	H	2													S	
92	H	2													E	IS THIS A SIFT #?
93	H	2													U	A, B, D ARE DLO
94	H	2													S	
95	H	2													U	C, D IMPLAUSIBLE
96	F	2													S	
97	F	2													E	B NOT PLAUSIBLE
98	F	2	X												U	GIVES AWAY TOO MUCH / 000 NIT
99	F	2													U	TEST BE GTS DLO
100	H	2													S	

OP TEST
COMMANDS

NMP2 Exam Outline Differences Between the 45 day and 75 Day Submittal

1. Written Exam – ES 401-6 reflects the additional reselected KAs
2. Admin JPM 1 has been changed to “Perform administrative actions for single loop operation”. The previous selection, “Determination of equipment operability/reportability for a DER” has been subject to numerous recent procedure changes which eliminated the DER process.

SMA JPM 5-7
= LOD 1, REPLACE

RADCON ADMIN = LOD 1, MODIFY

Facility: Nine Mile Point 2		Scenario No.: NRC-01		Op-Test No.: March 2008	
Examiners: _____		Operators: _____			
Initial Conditions: Simulator IC-241					
1. Reactor Power 90%					
Turnover:					
1. All equipment operable.					
2. Swap Service Water Pumps from the 2SWP*P1B to the 2SWP*P1F for normal equipment rotation. Pre-start checks have been completed and an AO is standing by at the "F" pump					
Event No.	Malf. No.	Event Type*	Event Description		
1	N/A	N (BOP) N (SRO)	Swap operating Service Water Pumps N2-OP-11 Service Water		
2	CW02B CW16C	C (BOP) C (SRO)	RBCLCW Pump trips. Standby Pump fails to auto-start and must be started manually. N2-SOP-13 Loss or Degraded CCP System		
3	PC10B Overrides	C (BOP) R (RO) C (SRO) TS (SRO)	ADS/SRV fails opens. Valve closes when fuses are pulled. Drywell Vacuum Breaker fails open. Power decrease to 85%. N2-SOP-34 Stuck Open SRV		
4	FW03A RR30,31	C (ALL) TS (SRO)	Feedwater Pump Trip (Partial Recirc Runback) N2-SOP-6, Feedwater Failures <i>24A</i> N2-SOP-29, Sudden Reduction in Core Flow		
5	RD05- 18-31	R(RO) R (SRO)	One Control rod drifts out requiring a power decrease. N2-SOP-08 Unplanned Power Changes		
6	RD05- 42-39	C (RO) C (SRO)	Another control rod drifts out requiring a reactor scram		
7	MS04	M	Steam Leak in Drywell. (EOP-RPV, EOP-PC)		
8	RH01B RH14A	I (BOP) I (RO)	DIV1 EDG, LPCS and RHR A fail to initiate and RHR B trips when Drywell pressure exceeds 1.68 psig; Both LPCS and RHR A can be started manually.		
9	N/A		PSP exceeded, RPV blowdown required (CT) EOP-C2		

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

MEJOR
TYPPOS,

CLARIFICACIONES,

Facility: Nine Mile Point 2		Scenario No.: NRC-01	Op-Test No.: March 2008
TARGET QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.5.d)		ACTUAL ATTRIBUTES	
1. Total malfunctions (5-8) Events 2,3,4,5,6,8		6	
2. Malfunctions after EOP entry (1-2) Events 8		1	
3. Abnormal events (2-4) Event 2 SOP-13 Event 3 SOP-34, Event 4 SOP-6,29 Event 5 SOP-8		4	
4. Major transients (1-2) Event 7		1	
5. EOPs entered/requiring substantive actions (1-2) Events 7, 8 EOP-RPV, EOP-PC		2	
6. EOP contingencies requiring substantive actions (0-2) Event 9 EOP-C2		1	
7. <i>Critical tasks</i> (2-3)		2	
CRITICAL TASK DESCRIPTIONS: CT-1.0 Initiate DW spray to control containment pressure CT-2.0 Initiate RPV Blowdown when PSP is exceeded and DW spray established			

Facility: **Nine Mile Point 2** Scenario No.: **NRC-02** Op-Test No.: **March 2008**

Examiners: _____ Operators: _____

Initial Conditions: Simulator IC-17 or equivalent Reactor Power 100%

Turnover:

1. All equipment operable.
2. Perform RHR Pump Operability Test IAW N2-OSP-RHS-Q006

Event No.	Malf. No.	Event Type*	Event Description
1	RH20	N (BOP) N (SRO) TS (SRO)	Perform RHR Pump Operability Test IAW N2-OSP-RHS-Q006 RHS B/C Water Leg Pump breaker trip (TS)
2	IA02A,B IA04A,B	C (BOP) C (SRO)	Instrument Air Compressor "A" Trips, "B" will not start, "C" must be placed in service manually. N2-SOP-19, Loss of Instrument Air
3	TC03A	R (RO) R (SRO)	Power decrease to 85% due to EHC oscillation problem N2-SOP-23, EHC Press Reg Failure N2-SOP-101D, Rapid Power Reduction
4	CS01B	C(BOP) C (SRO) TS (SRO)	HPCS spurious start. (TS)
5	FW15	I (RO) I (SRO)	Feedwater master controller fails as-is requiring manual control. N2-SOP-6, Feedwater Failures
6	RR10A,B	C (RO) C (SRO)	Recirculation FCV failure causes FCV to open. N2-SOP-8, Unplanned Power Changes
7	TC02 FW03A B RP02 RP14AB	M (ALL)	EHC Regulator failure cause Reactor High Pressure, ATWS, Loss of Feedwater EOP-RPV, EOP-Failure to Scram EOP-6, Att.14
8	RC07	C (BOP) C (SRO)	RCIC controller failure. Requires manual actions to inject.

no response
RHR ⇒ TS

3.0.3
some

TYPOS CLARIFY
CAREFULLY
ATT 14

Handwritten: ADDN FEKES - PLUMBING loss of level

Facility: Nine Mile Point 2	Scenario No.: NRC-03	Op-Test No.: March 2008	
Examiners: _____	Operators: _____		
Initial Conditions: Simulator IC-244			
<ol style="list-style-type: none"> 1. Plant startup is in progress IAW N2-OP101A @ Step 2.45. 2. RWM @ Step 16. Rod 34-11 3. Reactor Pressure is at approximately 900 psig. 4. One Bypass Valve is approximately 15% 5. Other operators will be performing SJAE startup later today. 			
Turnover:			
<ol style="list-style-type: none"> 1. Continue Power Increase to get one bypass valve open approximately 25% 2. Transfer Reboiler Steam Supply to Main Steam IAW N2-OP-25, Section 5.0, then continue startup 			
Event No.	Malf. No.	Event Type*	Event Description
1	N/A	R (RO) R (SRO)	Continue startup N2-OP-101A
2	N/A	N (BOP) N (SRO)	Transfer Reboiler Steam Supply to Main Steam N2-OP-25
3	NM09A	I (RO) I (SRO)	IRM "A" Inop Trip N2-OP-92 Neutron Monitoring, N2-OP-97 RPS
4	ED04F	C (BOP) TS (SRO)	Loss of power to Div I switchgear. (TS) Restore non-essential Service Water, Drywell Cooling. N2-SOP-3 Loss of AC Power
5	NM06G	TS (SRO)	IRM "G" Fails Upscale (TS)
6	MT01 FW01B CW01F	C (ALL) TS (SRO)	Small Seismic Event, Condensate pump trip, Service Water Pump trip (TS) N2-SOP-90 Seismic Event, N2-SOP-3 Loss of AC Power
7	MT01 RR20	M (ALL)	Large Seismic Event, Recirc Loop suction line break N2-SOP-90 Seismic Event, EOP-RPV, EOP-PC
8	RH14B	C (BOP) C (SRO)	Division II fails to auto initiate
9	D08E AD08G	C (BOP) C (SRO)	Level indication lost, RPV Blowdown Required, only 5 ADS valves open. RPV Flooding is required. EOP-C4

Facility: **Nine Mile Point 2**
2008

Scenario No.: **NRC-01**

Op-Test No.: **March**

TARGET QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.5.d)	ACTUAL ATTRIBUTES	
1. Total malfunctions (5-8) Events 3,4,5,6,8,9	6	
2. Malfunctions after EOP entry (1-2) Events 8,9	2	
3. Abnormal events (2-4) Event 3 -SOP-97, Event 4 SOP-3, Event 4-SOP-90	3	
4. Major transients (1-2) Event 7	1	
5. EOPs entered/requiring substantive actions (1-2) Events 7,9 EOP-RPV, EOP-PC,	2	
6. EOP contingencies requiring substantive actions (0-2) Event 10 EOP-C4	1	
7. Critical tasks (2-3)	2	
CRITICAL TASK DESCRIPTIONS: CT-1.0 initiate an RPV blowdown when level indication is lost or if the PSP is exceeded. CT-2.0 flood the RPV to the elevation of the main steam lines IAW RPV flooding.		

3 of 4

FIXES
FOR SBO

Facility: Nine Mile Point 2		Scenario No.: NRC-04		Op-Test No.: March 2008	
Examiners: _____			Operators: _____		
Initial Conditions: Simulator IC-17 Reactor Power 100%					
Turnover:					
1. Reduce power to 90% per LD for a rod line adjustment which will take place on the next shift.					
2. Perform N2-OSP-RMC-S@001 Control Rod Movement and Position Verification Surveillance Test					
Event No.	Malf. No.	Event Type*	Event Description		
1	N/A	R (RO) R (SRO)	Reduce power to 90% at approximately 2% per minute.		
2	N/A	N (RO) N (SRO)	c		
3	RD18	C (RO) C (SRO)	CRD P1A suction filter clog causes pump trip. N2-SOP-30, CRD Failures		
4	RD11	TS (SRO)	Rod Position Indication Lost <i>at SRO 46</i>		
5	overrides	C (BOP) TS (SRO)	Control room AC unit trips (TS 3.7.2.A – 7 days, TS 3.7.3.A – 30 days.		
6	EG06A	C (BOP) C (SRO)	Stator water pump trip, failure of standby to auto start, Generator RB. Power reduction may be required. N2-SOP-68, Loss of Stator Cooling		
7	overrides	C (BOP) C (SRO)	Loss of Switchgear 15, loss of one division of RPS solenoids N2-SOP-3, Loss of AC Power, N2-SOP-97 RPS Failures N2-SOP-13, Degraded CCP System, N2-SOP-60, Loss of DW Cooling		
8	RP03 MS03	C (RO) C (SRO)	Small containment leak, Mode Switch and RPS Manual PB fail, ARI successful. EOP-RPV, EOP-C5 Failure-To-Scram		
9	ED02A, B DG04A, B	M (ALL)	Loss of Offsite Power with EDG auto-start failures N2-SOP-3, N2-SOP-11, EOP-RPV, EOP-PC		

EXTRA SBO
RECOVERY

10	RH01A	C (BOP) C (SRO)	EDGs available, RHR Pump "A" trip, spray must be swapped to "B" loop.
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Facility: Nine Mile Point 2		Scenario No.: NRC-04		Op-Test No.: March 2008	
TARGET QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.5.d)			ACTUAL ATTRIBUTES		
1. Total malfunctions (5-8) Events 3,5,6,7,8,10			6		
2. Malfunctions after EOP entry (1-2) Events 10			1		
3. Abnormal events (2-4) Event 3- SOP-30, Event 6-SOP-68, Event 7-3,13,60,97,			3		
4. Major transients (1-2) Event 9			1		
5. EOPs entered/requiring substantive actions (1-2) EOP-RPV, EOP-PC			2		
6. EOP contingencies requiring substantive actions (0-2) EOP-Failure to Scram,			1		
7. Critical tasks (2-3)			3		
CRITICAL TASK DESCRIPTIONS:					
CT 1.0 – Upon Mode Switch and RPS PB Failure, Scram is accomplished with RRCS .					
CT 2.0 – On EDG Auto-start failure, start the EDGs from the control room IAW SOP-03.					
CT 3.0 – drywell spray is initiated prior to exceeding the PSP.					