Notes:1. **Bolded** question numbers have had a technical review
2. ***Bold italics*** are changes made by the licensee to address examiner comments

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6.	7.
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/ units	Back-ward	Q= K/A	SRO Only	U/E/S	Explanation
1	H	2										Y	N	S	
2	L	4										Y	N	S	
3	L	3										Y	N	S	
4	H	2										Y	N	S	
5	H	2										Y	N	S	
6	H	3										Y	N	S	
7	L	2										Y	N	S	
8	L	2										Y	N	E	Change C and D to provide some time frame (5 minutes) or temperature to make more plausible. ***Added temperature criteria to distractors C and D***

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		

Instructions

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

1. Enter the level of knowledge (LOK) of each question as either (F)undamental or (H)igher cognitive level.

2. 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).

3. 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).

4. 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.

5. 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).

6. 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?

7. At a minimum, explain any "U" ratings (e.g., how the Appendix B psychometric attributes are not being met).

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6.	7.
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/ units	Back-ward	Q= K/A	SRO Only	U/E/S	Explanation
9	H	2										Y	N	E	Distractor "A"; level constant not plausible with valve at 0%. ***Made this 100%; level increasing, above normal***
10	H	2										Y	N	S	
11	L	3										Y	N	S	
12	L	3										N	N	S	
13	H	2										Y	N	S	
14	H	1		X				X				Y	N	U	With the provided references (TS and EOPs) this question is non-discriminatory at the RO level. ***Agreed to fix***
15	H	3										Y	N	S	
16	H	3										Y	N	E	Need to make changes to stem to make C & D more plausible. Recommend specifying a SCRAM was manually initiated but all rods not full in (some at 02). Also make first sentence past tense. ***Comments incorporated as described***
17	L	2										Y	N	E	Add bullet "pressure 800 to 1000 psig" to ensure it is clear ED was not initiated ***Comments incorporated as described***
18	H	3										Y	N	S	

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6.	7.
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/ units	Back-ward	Q= K/A	SRO Only	U/E/S	Explanation
19	L	3										Y	N	S	
20	H	2										Y	N	S	
21	H	3										Y	N	E	...describes *the* effect...in stem ***Comments incorporated as described***
22	L	2										Y	N	E	The plant is... ***Comments incorporated as described***
23	L	3										Y	N	S	
24	H	2										Y	N	S	
25	H	2										Y	N	S	
26	H	2										Y	N	E	Delete floor plan from references provided to make more discriminatory. ***Comments incorporated as described***
27	H	2										Y	N	E	Add bullet to stem "all rods full in" (preclude "A" from being correct) ***Comments incorporated as described***
28	H	3										Y	N	S	

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6.	7.
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/ units	Back-ward	Q= K/A	SRO Only	U/E/S	Explanation
29	H	2										Y	N	E	Not clear that "A" is correct. Would expect stratification and differential temperature problems but not immediate pressurization. ***Added "subsequent" to stem***
30	H	2										Y	N	S	
31	H	3										Y	N	E	Third bullet in stem seems unrealistically low for a -60" RPV level ***Changed to 7.0 psig***
32	H	3										Y	N	S	
33	H	3										Y	N	S	
34	L	2										Y	N	S	
35	L	2										Y	N	E	Although, basically, a power supply question it is acceptable. Add "trips" to distractor "C". ***Comments incorporated as described***
36	H	3										Y	N	E	add "and the reason" to last sentence of stem since all distractors include the reason for the action. ***Comments incorporated as described***
37	H	3										Y	N	S	
38	L	2										Y	N	S	

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6.	7.
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/ units	Back-ward	Q= K/A	SRO Only	U/E/S	Explanation
39	H	2										Y	N	S	
40	H	3										Y	N	S	
41	L	3										Y	N	S	
42	H	2										Y	N	S	
43	H	3										Y	N	S	
44	H	2										Y	N	S	
45	H	2										Y	N	S	
46	L	3										Y	N	E	Use of procedures (in K/A) not addressed, but most important part is matched. Could match K/A completely by including "as specified in N2-SOP-3 to stem. Also add "for Division 1" to last sentence in stem. ***Comments incorporated as described***
47	L	2										Y	N	S	
48	L	3										Y	N	S	

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		
49	L	3										Y	N	S	
50	H	2										Y	N	E	C does not appear credible with malfunctioning lube oil system. ***Added "annunciator 406-3-7 extinguished"***
51	H	3										Y	N	E	Provide time frame for action to occur. ***Added "10 minutes later"***
52	L	2										Y	N	S	
53	H	2										Y	N	S	
54	H	3										Y	N	S	Major part of K/A covered even though use of procedures (in K/A) not addressed by question.
55	H	2										Y	N	E	Second bullet add "the" before Withdraw ***Comments incorporated as described***
56	L	2										Y	N	S	Although basically a setpoint question, it was determined to be acceptable.
57	H	3										Y	N	E	Provide a time span for action to occur. i.e. "After one minute". ***Comments incorporated as described***
58	L	3										Y	N	E	"B" implausible; shear valve is manual action. Recommend "TIP continues at slow speed to CORE TOP LIMIT. Then it retracts at fast speed and when stowed the ball valve closes" ***Comments incorporated as described***
59	L	2										Y	N	S	

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6.	7.
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/ units	Back-ward	Q= K/A	SRO Only	U/E/S	Explanation
60	H	2										Y	N	S	
61	H	3										Y	N	S	
62	H	2										Y	N	S	
63	L	3										Y	N	S	
64	L	2										Y	N	S	
65	H	2										Y	N	S	
66	H	2										Y	N	S	
67	L	2										Y	N	S	
68	H	2										Y	N	E	Last bullet add "to the bus" after MVARs ***Comments incorporated as described***

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6.	7.
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/ units	Back-ward	Q= K/A	SRO Only	U/E/S	Explanation
69	L	2										Y	N	S	
70	L	3										Y	N	S	
71	L	2										Y	N	E	"B" should be hours, not hour. Ensure TS Section 2.0 **NOT** given to applicants. ***Comments incorporated as described***
72	H	2										Y	N	S	
73	H	3										Y	N	S	
74	L	2										Y	N	S	
75	L	3										Y	N	S	
S-1	H	2										Y	Y	S	
S-2	L	3										Y	Y	S	
S-3	H	2										Y	Y	E	Provide a better explanation for why distractor "B" is correct. ***Comments incorporated as described***
S-4	H	3										Y	Y	S	
S-5	H	2										Y	Y	S	
S-6	H	3										Y	Y	S	
S-7	L	2										Y	Y	S	
S-8	H	2										Y	Y	S	

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6.	7.
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/ units	Back-ward	Q= K/A	SRO Only	U/E/S	Explanation
S-9	L	2										N	Y	U	K/A mismatch; "explain" part of K/A not addressed. Also, "B" is implausible for any SRO applicant. "D" may also be an acceptable answer. Can eliminate "D" if we add "per SOP-39" ***Agree to fix***
S-10	H	2										Y	Y	S	
S-11	H	2										Y	Y	E	delete "currently" from last sentence; change to "is controlled at". Provide a value for level lowers "to 95 inches. Delete "and injects" from first bullet to ensure this is discriminatory at SRO level . ***Comments incorporated as described***
S-12	H	2										Y	Y	S	
S-13	H	2										Y	Y	S	Although with TS (for another question) and core map provided this is not a particularly challenging question we found it acceptable.

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6.	7.
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/ units	Back-ward	Q= K/A	SRO Only	U/E/S	Explanation
S-14	H	2										Y	Y	E	Ensure TS 3.3.6.1 not available (DLU) ***Comments incorporated as described***
S-15	L	3										Y	Y	S	Although question does not address "predict impact" part of K/A it does address major part of K/A and is acceptable.
S-16	H	3										Y	Y	E	Address "predict impact" part of K/A (major part already addressed) ***Comments incorporated as described.***
S-17	H	2										Y	Y	S	
S-18	H	2										Y	N	S	
S-19	H	3										Y	Y	E	Ensure TS 3.0.3 not available.(DLU) ***Comments incorporated as described***
S-20	H	2										Y	Y	E	add "conductivity 0.8" to first bullet to establish satisfactory conditions at 0900 on May 1 ***Comments incorporated as described***
S-21	H	3										Y	Y	E	55.43.b(2) not 55.43.b(3) ***Comments incorporated as described***
S-22	H	2										Y	Y	S	

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6.	7.
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/ units	Back-ward	Q= K/A	SRO Only	U/E/S	Explanation
S-23	L	3										N	Y	U	K/A mismatch. Does not address"perform procedure" or "guard against personnel exposure" parts of K/A. If this question is modified and retained then delete first paragraph in stem and change "D" to "No additional managers". ***Agreed to replace***
S-24	H	2										Y	Y	S	
S-25	H	3										Y	Y	E	Change SITE AREA EMERGENCY to "an ALERT" in "D". Makes distractors more homogenous. ***Comments incorporated as described***

TO: Todd Fish DATE: April 22, 2005
FROM: Jerry Bobka

Subject: Nine Mile Point Unit 2 NRC Operating Examination Changes

The following changes were made to the operating test materials and associated outlines.

Admin JPMs

No major changes were made to the Administrative JPMs. Additional cues were added and critical steps were modified for some JPMs at the request of the NRC examiners.

Simulator and Plant JPMs

JPM 6 PERFORM TURBINE CONTROL VALVE (CV2 and 3) SURVEILLANCE.

Original JPM was changed from testing only Control Valve CV1 to testing Control Valves CV2 and CV3. By incorporating testing of 2 CVs, additional significant actions are accomplished by the candidates, such as resetting an RPS trip channel before testing the 2nd CV.

JPM 11 LOCAL START OF DIVISION I DIESEL GENERATOR WITH EMERGENCY STOP.

Original JPM was changed from performing control room evacuation actions for local starting and loading an Emergency Diesel Generator to performing a normal local start that requires an emergency shutdown of the engine, to improve the alternate path aspect of the JPM.

Simulator Scenarios

Scenario 1

Initial conditions for starting scenario were changed to 96% power instead of 100% power. This minimizes the potential for an early reactor scram, since altering the sequence of events was not desirable.

Post scram ATWS rod position was changed from all rods inserting only to position 17 to some rods inserting to position 04 and 06. This was done to run

the scenario closer to the originally intended post scram power level. The scenario was intended to run at a power level that would support all bypass valves opening to control pressure without excessive cycling of SRVs. The original rod pattern resulted in a large difference between APRM power and actual core thermal power (AGAF). By altering the post scram rod pattern, APRM indicated power more closely approximates thermal power and the intended plant response occurs.

Changed malfunction used to result in loss of feedwater from Loss of Condensate Booster Pumps (FW02A,B, C) to loss of Condensate Pumps (FW01A, B, C). This will ensure loss of feedwater occurs and that RHS pumps will be required to restore water level. With original Booster pump loss, the Condensate system could still be available to provide makeup to the RPV, which is not the path the scenario was originally developed and validated to.

References to inoperable Oscillation Power Range Monitors (OPRM) at scenario start have been removed. These added no evaluation value because only additional monitoring of APRMs is required by the operators. This also eliminates a potential early manual scram possibility, based on being above the 100% rodline with inoperable OPRMs.

Scenario 3

The sequence of events was altered from original outline submittal, to minimize the potential effects of an early reactor scram. The current sequence has the event most likely to result in an unintended scram occurring as Event 6.

Please withhold this information from public disclosure until after the examinations are complete. If you have any questions, please contact Jerry Bobka, Facility Contact at 315-349-2569.

Jerry Bobka
Facility Contact