

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	Backward	Q=K/A	SRO Only		
1	h	2												s	
2	h	2												s	
3	h	2												s	
4	h	2												s	
5	h	2										?		s	PRT malf - OK
6	f	2												s	
7	h	2												e/s	solid plant? - per procedure
8	h	2				x								u	b,c implausible - fixed

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).

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	h	2												s	
50	h	2												s	
51	h	2												s	
52	f	2												s	
53	f	2												s	
54	f	2												s	
55	h	2												s	
56	f	2												e	b implausible - fixed
57	h	2												s	
58	h	2				?								u	rising efficiency not credible - fixed
59	f	1												u	low LOD - replaced
60	f	2												s	
61	h	2												s	
62	f	2												s	
63	f	2												s	
64	h	2												s	
65	h	2												s	
66	f	2												s	
67		1												u	replaced question
68	h	2				?								u	fixed implausible distractors

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	Backward	Q=K/A	SRO Only		
69	h	2												s	
70														u/s	swapped with SRO 98
71	h	2												s	
72	f	2												s	
73	h	2												s	
74	f	2												s	
75	f	2												s	
76	h	2												s	
77	h	2												s	
78			x											u	replaced due to oversampling of RCP questions
79	h	2												s	
80	h	2												s	
81	h	2												s	
82	f	2												s	
83	h	2												s	
84	f	2												s	
85	f	2												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	Backward	Q=K/A	SRO Only		
86	h	2												s	
87													?	u	Not SRO level - replaced
88	h	2												s	
89	h	2												s	
90	f	2												s	
91	h	2												s	
92	h	2												s	
93	h	2												s	
94	h	2												s	
95	h	2												s	
96	h	2												s	
97	f	2												s	
98													?	u/s	not SRO level, swap with RO 70 which is
99	h	2												s	
100	h	2												s	

Attachment 15
 "Sample" Exam Comment Sheet
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DATE: 9/29/2007 SUBMITTED BY: G. HOEK NRC RO/SRO RO/SRO Sheet 1 of
 EXAM: WRITTEN / WALK-THROUGH / SIMULATOR SCENARIO (circle one)

Test Item (Question/JPM/Scenario, etc.)	Concern or Problem	Recommended Resolution	Reference	Remarks
Q#5	K/A MISMATCH	EXPLAINED PRTS ISOLATION CAUSING MANOMETER AFFECTING RB ATM. BY OVERFLOW		ACCEPTED
Q#7	IS AOP-043 REALLY CORRECT PROCEDURE? SOLID OPS COOLDOWN?	AOP-043 ENTRY > 200°F LVL > 370" & RESING	OP-TM-AOP-043	
Q#8	ENHANCE STEM	CHANGED C&D (ADDED) (DUE TO ACTUAL PRESS) D) PUT GASS HAS... INC)		

Additional comments: _____

Exam Analyzer comments: _____

Final Resolution: _____

Reviewed by: G. Hoek 4/11/07
 Facility Author / Date

Approved by: _____
 Facility Representative / Date

Attachment 15
"Sample" Exam Comment Sheet
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DATE: 3/29/2007 SUBMITTED BY: G. HOEK / NRC RO/SRO RO/SRO Sheet 3 of

EXAM: WRITTEN / WALK-THROUGH / SIMULATOR SCENARIO (circle one)

Test Item (Question/JPM/Scenario, etc.)	Concern or Problem	Recommended Resolution	Reference	Remarks
Q#18	(C) DISTRACTER MAY NOT BE PLAUSIBLE WHEN WOULD MANUAL CONTROL BE ON LOTSG ONLY,	CHANGED TO MANUAL CONTROL ON BOTH		
Q#19	KIA MISMATCH	EXPLAINED - LOSS OF 2 PUMPS (KIA) CAUSES ACTION TO BE TAKEN TO ASSURE COOLING W/O RUNOUT OF PUMP		RATIONAL ACCEPTED BY NRC,
Q#22	WOULD STUDENTS UNDERSTAND REACTOR LOADING? STATION LEARNING OBJECTIVE?			COVERED IN GFCS ADDITION COVERAGE IN MAEN GEN LP UNDER THE - GLOB

Additional comments: _____

Exam Analyzer comments: _____

Final Resolution: _____

Reviewed by: G. Hoek 4/17/07
Facility Author / Date

Approved by: _____
Facility Representative / Date

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"Sample" Exam Comment Sheet
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DATE: 3/29/2007 SUBMITTED BY: G. HOEK / NRC RO/SRO RO/SRO Sheet 4 of

EXAM: WRITTEN / WALK-THROUGH / SIMULATOR SCENARIO (circle one)

Test Item (Question/JPM/Scenario, etc.)	Concern or Problem	Recommended Resolution	Reference	Remarks
Q# 23	K/A MISMATCH	EITHER RM-A-9 STEADY OR PREFER RE-SELECT K/A W.T. WROTE NEW	NEW Q	
Q# 29	2 PART CONTRADICT	HIGHLIGHT OVER NEXT 24 HOURS & SEE JOE'S RECOMMEND CHANGE		
Q# 36 35	QUESTION GRAMMER	REPLACE (,) WITH (.) THIS STEP CAUSES _____ TO OPEN.		

Additional comments: _____

Exam Analyzer comments: _____

Final Resolution: _____

Reviewed by: G. Hoek 4/11/07 Facility Author / Date
Approved by: _____ Facility Representative / Date

Attachment 15
"Sample" Exam Comment Sheet
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DATE: 3/29/2007

SUBMITTED BY: _____

RO/SRO RO/SRO

Sheet 5 of _____

EXAM: WRITTEN / WALK-THROUGH / SIMULATOR SCENARIO (circle one)

Test Item (Question/JPM/Scenario, etc.)	Concern or Problem	Recommended Resolution	Reference	Remarks
Q#36	LEVEL # 1 QUESTION OR POSSIBLY NOT WHAT WE WOULD EXPECT OPERATOR TO MEMORIZE	2 OFG MISSED ON VALIDATION TOM & I THINK IT WILL TEST ABOUT THE SAME.		
Q#39	QUESTION ON PURPOSE OF 10 & 11 BKRS & SHUNT SYSTEMS ON RPS/DSS	EXPLAINED SEPARATE SYSTEMS, BOTH HAVE SHUNT TRIPS.		NRC SATISFIED
Q#47	WHY ARE A&B PLAUSIBLE?	EOP-005 STEP 3.8 "REQUEST STEAM LINE SAMPLES"	OP-TM-EOP-005 STEP 3.8	

Additional comments: _____

Exam Analyzer comments: _____

Final Resolution: _____

Reviewed by: Wesley R. Good
 Facility Author / Date

Approved by: _____
 Facility Representative / Date

Attachment 15
"Sample" Exam Comment Sheet
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DATE: 3/24/2007 SUBMITTED BY: C. HOEK / NRC RO/SRO RO/SRO Sheet 6 of
 EXAM: WRITTEN / WALK-THROUGH / SIMULATOR SCENARIO (circle one)

Test Item (Question/JPM/Scenario, etc.)	Concern or Problem	Recommended Resolution	Reference	Remarks
Q# 56	WHY IS "B" PLAUSIBLE STABLE DOES NOT SEEM TO MAKE IT PLAUSIBLE.	CREATED MORE PLAUSIBLE DISTRACTER		
Q# 58	IMPLAUSIBLE B & D, RISE IN RFF NOT PLAUSIBLE	CHANGED TO X-LIMIT		
Q# 59	MAY RE-PECK K/A. CONCERN ON "B" DISTRACTER & HIGH MESS VALIDATED	NEW QUESTION		

Additional comments: _____

Exam Analyzer comments: _____

Final Resolution: _____

Reviewed by: [Signature] 4/11/2007
 Facility Author / Date

Approved by: _____
 Facility Representative / Date

Attachment 15
"Sample" Exam Comment Sheet
 Page 1 of 1

DATE: _____ SUBMITTED BY: _____ RO/SRO RO/SRO Sheet 7 of _____

EXAM: WRITTEN / WALK-THROUGH / SIMULATOR SCENARIO (circle one)

Test Item (Question/JPM/Scenario, etc.)	Concern or Problem	Recommended Resolution	Reference	Remarks
Q67	OVER SAMPLED G 2.1.27	PICK NEW K/A NEW QUESTION WRITTEN		
Q68	2 IMPLAUSIBLES A&D REVERSALS NOT PLNS.	NEW QUESTION WRITTEN Q & DISTRACTERS MODIFIED.		
Q70	HIGHLIGHT (PROTECT VALUABLE PROPERTY = SWAP @ 98?)	QUOTE UNDERLINED SWAP MADE		

Additional comments: _____

Exam Analyzer comments: _____

Final Resolution: _____

Reviewed by: Joseph R. Wood 4/11/2007
 Facility Author / Date

Approved by: _____
 Facility Representative / Date

Attachment 15
"Sample" Exam Comment Sheet
Page 1 of 1

DATE: 3/29/2007

SUBMITTED BY: G. HOCK

RO/SRO RO/SRO

Sheet 8 of

EXAM: WRITTEN / WALK-THROUGH / SIMULATOR SCENARIO (circle one)

Test Item (Question/JPM/Scenario, etc.)	Concern or Problem	Recommended Resolution	Reference	Remarks
Q 76	WHEN WOULD WE HAVE TO TRIP FOR THIS SNEARED SHAFT	> 90% PWR OR ICS IN HAND AOP-0401		
Q 78	TOO MANY RCP Q/A USE ANOTHER PARAMETER OR RE-PICK K/A	NEW QUESTION		
Q 85	EOP-010	RESOLVED		COMPLETE JCEP AN ONTO LOOK AT FIG 1

Additional comments: _____

Exam Analyzer comments: _____

Final Resolution: _____

Reviewed by: *G. Hock* 4/1/07
 Facility Author / Date

Approved by: _____
 Facility Representative / Date

**Attachment 15
"Sample" Exam Comment Sheet
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DATE: 3/29/2007

SUBMITTED BY: G. KOEK

RO/SRO RO/SRO

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EXAM: WRITTEN / WALK-THROUGH / SIMULATOR SCENARIO (circle one)

Test Item (Question/JPM/Scenario, etc.)	Concern or Problem	Recommended Resolution	Reference	Remarks
Q87	SRO P TIMES AS A SYSTEM EVOLUTION NEED SRO LEVEL	NEW KIA USE 2.1.33		
Q98	ASK WHICH IS LOWEST DOSE SWAP (W) 70			

Additional comments: _____

Exam Analyzer comments: _____

Final Resolution: _____

Reviewed by: *[Signature]* R. Hoek 4/11/07
Facility Author / Date

Approved by: _____
Facility Representative / Date

Scenario 1

- Removed excessive steps
- Added Booth operator directions for "tripping" EF-P-1 if required in event 2.
- Added steps for letdown restoration (optional)
- Added steps for MU-P-1B/1A swap.
- Added words to delay report of steam leak.
- Corrected event 3 header.
- Corrected typos.
- Added steps to transition from HPI/PORV cooling to Primary Secondary and draw pressurizer bubble (optional).
- Added follow-up question on highest event.

Scenario 2

- Removed NI-11 failure, also affects ES-D-1.
- Added reactor premature critical by lowering Boron concentration to 1495 actual.
- Removed T.S. call associated with NI-11 failure
- Removed excessive steps.
- Corrected event 9,10,11 header to read MS-V-13A
-

Scenario 3

- Added PORV leak to replace report of PORV breaker trip. This also affected ES-D-1, and bean counts as URO now has 1 more component, blocking PORV is required to stop RCS (losses) to RCDT. Scenario Event description modified to match.
- Updated T.S. call on above, added T.S. 3.1.6 Leakage as a possible referral though leakage will be for such a short time as to NOT be quantifiable.
- Added steps for transferring rods to aux supply to exercise (event 2). Added note to booth operator to remove malfunction to allow rod to be exercised.
- Repaired spelling errors.
- Removed excessive steps.
- Added follow-up question on highest event.

Scenario 4

- Deleted note on clearing AMBER lights prior to reset of 27/86 lockouts, does not apply to this scenario/condition.
- Deleted excessive steps
- Corrected typographical errors.
- Added phase 2 OTSG isolation steps, including note on MS-V-2A may fail to close.
- Added follow-up question on highest event.

Updated ES-301-6 to reflect change from event 2 to 5 T.S. call

Updated ES-301-5's to reflect use of surrogates, T.S. call change above, addition of Component event 1 to CRS / URO for PORV leak. Remove 2nd CRS from SROI-1 & SROI-2.

Note the use of surrogates places RO2 & RO3 at minimum in all categories.

MODIFY HP JPM ↑ LDD
PLR JPM - 105 ALL PA14
12B JPM - NO. ALL PA14