OPERATING EXAM COMMENTS

- SRO Admin, JPM use "SRO Shift Turnover" as a spare JPM.
- Revise SRO Admin JPM, "Shift Staffing Requirements" to determine which operators to call based on watchbill information provided.
- Revise SRO Admin JPM, "SRO Review and Apporve a Radiaoactive Liquid Waste Release Permit" to add additional error.
- Revise RO JPM "RO Shift Turnover" initiating cue to make more focused as to what logs are to be reviewed.
- JPM, B.1.c, "A" EDG operability Test", all steps up to step #12 cue are completed these are call out items anyway little evauation value.
- JPM, B.1.f, "Respond to RCP seal rpoblems" revise initating cue to make less leading eg respond to panel
 indications.
- General Comment Scenario Guides need to be revised to provide all required actions scripted out.
- Sim Guide, ES02Ll1, revise scenario to force applicant into once through cooling.
- Make guide #3 the spare.
- Revise guide #4 to add a malfunction that causes the computer displays PPC to lockup.

Note: Resolutions to comments in bold and italics

Review Worksheet

Initial Review completed 9/26/02

	1.	2.	. 3	3. Psyc	hometr	ic Flaws	3	4.	Job Con	tent Fi	aws	5. C	ther	6.	7.
Q#	LOK (F/H)		Stem Focus		T/F	Cred. Dist.	Partial	Job- Link	Minutia		Back- ward	Q# KVA	SRO Only	U/E/S	Explanation
1B	F	2												E	Modified. Error on answ. Justification shows "A" as incorrect. (How was question Mod) corrected jsutification
2B	Н	3												S	Bank
ЗВ	Н	3			,									s	New
4B	н	3												S	New
5B	Н	3												s	New
6B	Н	3												S	New
7R	н	3	х			Х								U	Modified. Stem cue. "A" correct also. "C" not crediible Remove RCS P/T Curve from the stem unnecessary cue. Revised stem and 2 distractors.
8B	F	2												s	Modified
9B	F	3												s	New
10R	Н	3												S	Bank

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. 1.
- 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). 2.
- 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.

 - More than one distractor is not credible.
 - 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 the appropriate box if the sampled question does not match the approved K/A or an SRO-only question is not at the SRO level.
- 6. Based on the reviewer's judgment, is the question as written (U)nacceptable (requiring repair or replacement), in need of (E)ditorial enhancement, or (S)atisfactory?
- For any "U" ratings, at a minimum, explain how the Appendix B psychometric attributes are not being met.

ES-401 Millstone 2 Form ES-401-9

Q#	1. LOK	2. LOD	3.	Psych	ometri	ic Flaws	5	4.	Job Cont	ent Fla	aws	5. O	ther	6.	7.
Q#	(F/H)		Stem Focus	Cues	T/F	Cred. Dist.		Job- Link	Minutia	#/ units	Back- ward	Q# K/A	SRO Only	U/E/S	Explanation
11B	F	3												s	Modified
12B	F	2												s	New
13B	Н	3												S	New
14B	F	2												S	Bank
15R	F	2												S	New
16R	F	2										х		U	New. How is "explain covered? Also the reference provided is all sect 3 of TS? <i>Modified stem and distractor to fit K/A.</i>
17R	Н	3												S	Modified
18B	F	2												S	New
19B	F	2												S	Bank
20B	Н	3												S	New
21B	Н	3												S	New
22B	Н	3												s	New
23B	Н	2												S	New
24B	н	2												s	New
25B	F	2												s	New
26B	F	2												s	New
27B	F	2												s	New
28B	Н	3												s	New
29B	F	3												s	New
30B	Н	3												S	New

Millstone 2

6 #	1.	2.	3	. Psycl	hometi	ric Flaw	's	4.	Job Cont	ent Fla	aws	5. 0	Other	6.	7.
Q#	LOK (F/H)	LOD (1-5)	Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q# K/A	SRO Onty	U/E/S	Explanation
31B	Н	3				Х								U	New. Given small steady rise, how can rapid rise be credible "A&D"? Revised distractor to avoid cuing
32B	F	1-2				Х								U	New distractors not plausible and LOD low not idscriminating Replaced question and used same K/A
33B	Н	3												S	New
34B	Н	3												S	Modified? This question not significantly modified per guidance in ES401 treat as a bank
35B	Н	3												s	New
36B	F	3												s	Modified
37R	Н	2												S	New
38B	н	4												S	Modified
39R	н	3												S	New
40B	F	2												s	Modified
41B	Н	3												S	New
42R	Н	3												S	New
43R	Н	3												S	New
44R	F	2												s	Bank
45R	н	3												s	New
46B	н	3												s	Modified
47B	Н	3												S	New
48R	Н	3												s	New
49B	н	3												s	New
50R	F	2												s	Modified

	1.	2.	3	. Psyc	homet	ric Flaw	's	4.	Job Cont	ent Fl	aws	5, C	ther	6.	7.
Q#	LOK (F/H)	LOD (1-5)	Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward		SRO Only	U/E/S	Explanation
51R	Н	3												S	New
52B	F	3												S	New
53B	Н	3												E	New. Change "a" to "c" in justification.
54R	Н	3												S	New
55B	F	3												S	Modified
56R	F	2												S	Modified
57R	F	2												S	New
58B	F	2												S	New
59B	F	2												s	New
60R	Н	2												s	New
61B	F	2												E	New how are safety inj. Valve interlocks tested with this question - throttling a valve is not an interlock Revised answer choice to fit K/A and balance choices to avoid cuing
62R	Н	з												E.	New. Minor revisi9ons
63B	Н	თ										Х		U	Modified. No malfunction of the Pzr LCS. Revised stem to add malfunction to match K/A
64B	Н	3												S	New
65B	F	2												S	New
66B	Н	3												S	New
67R	F	2												s	New Elect supply question okay in limited number
68B	F	2										х		U	New How is this question testing containment purge system? Replaced question same system different K/A
69B	F	2												E	Bank. In justification, change "c" to "d" Corrected Typo
70B	Н	3				х								U	New "A,B,C" distractors not plausible TDS, pH, and power lose to rad monitor <i>Replaced "A&B" distactors</i>

Q#	1. LOK	2. LOD	3	. Psycl	nometi	ric Flaw	s	4.	Job Conf	tent Fla	aws	5. C	Other	6.	7.
Q#	(F/H)	(1-5)	Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q# K/A	SRO Only	U/E/S	Explanation
71B	F	2												s	Bank
72B	Н	2												E	New How would the operator tell that condenser air in leakage/air removal flow doubled in the CR? If this can not be determined then how is this a valid question and not minutia? Revised stem to make more operationally oriented.
73B	F	2												S	New
74B	н	3												S	New
75B	н	3												S	Bank
76B	F	1-2				Х								U	Bank "A&B" distractors not plausible also LOD low does not discriminate Revised distractor
77B	F	3												s	Modified
78B	F	1- 2				Х								U	New distractors not plausible also LOD low does not discriminate Replaced question
79B	F	2												s	New. Could "c" be correct? Reverified not correct
80B	н	3												S	Modified
81B	F	2			_									S	New
82R	F	2												Ø	New
83B	F	2												E	New revise one distractor to be simular to "D" correct answer stands out also edit stem <i>Revised "C" distractor</i>
84R	F	3		х										S	New
85B	F	3												S	New
86R	н	3												S	Bank
87R	Н	3												S	New
88B	F	2												E	New. "Changing" should be "increasing" to fit theanswer <i>Edit completed</i>
89B	н	3										х		U/E	New. K/A does not cover "ability" to obtain Accepted as an approved deviation per recent guidance

- "	1.	2.	3	. Psyc	homet	ric Flaw	s	4.	Job Con	tent Fl	aws	5, 0	ther	6.	7.
Q#	LOK (F/H)	LOD (1-5)	Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q≠ K/A	SRO Only	U/E/S	Explanation
90B	F	2							х					U	New This appears to be minutia. Is this required knowledge fromemory Replaced question using same K/A.
91B	F	2												s	New
92B	Н	2												S	New
93B	F	1-2												U	New LOD is low does not discriminate. This is get level not lic specific <i>Replaced question using same K/A</i>
94B	Н	2					•							s	New
95B	F	2												s	New
96B	F	3												s	New
97B	F	1-2												s	Bank
98B	F	1-2												s	Modified
99B	F	2										×		U	Bank the k/a tests knowledge of fire prot. Procedures. To ansaquestion all I need to remember is the titles of the procedures i really demonstrate any knowledge of the actual procedure. Qureplaced using same K/A.
100В	н	3												S	Bank
	SRO ONLY														
78	Н	2												s	New
108	F	3										х		U	New. Ability to determine not covered. Stem revised "What is t discussed in TS bases" Question revised to match K/A
158	Н	3												S	New
168	Н	3												s	New
178	Н	3												E?	New Is it necessary to tell them in the stem what reference to u Removed procedural reference from stem
218	Н	3												s	Bank
37S	Н	1-2		х								х		U	New LOD=1 with reference provided For a TS question give the situation and let them find the correct answer better tested in a JPM or scenario. Revised stem and distractors

	1.	2.	3	. Psycl	nomet	ric Flaw	s	4.	Job Conf	ent Fla	aws	5. C	ther	6.	7.
Q#	LOK (F/H)	LOD (1-5)	Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q≠ K/A	SRO Only	U/E/S	Explanation
398	Н	3		х						:				S	New Revise one of the distractors to also include containment purge. The correct answer stands out and is the only choice also splitand make separate bullets for "Containment Purge and radmonitors" Revised distractos
428	Н	2												S	New
438	Н	2												S	New
448	Н	2												s	New with the curve provided as part of TS as a reference TS bases not provided
45 S	Н	2												s	New
488	Η	3												S	New
508	F	2												S	New Will sect 3 of TS be provided as a refence for the exam? Did you indicate which questions require a reference to answer?
518	Н	1-2					х							U	New It could be argued that "D" is not an incorrect answer. Charign pumps are providing SI flow and even though it is extra information it is also at least partially correct. <i>Revised distractor</i>
548	Н	3												S	New
568	Н	3												S	New
578	F	1-2											х	U	New This is really a <u>basic</u> system question and not SRO only and does not discriminate it is a LOD=1. <i>Replaced question using same K/A</i>
608	F	3												s	New
62S	Н	2		х										U	Bank This is LOD=1 with reference provided. For a TS question give them the situation and let them find the correct answer better tested in an admin JPM or scenario. <i>Rewrote question</i>
67S	Н	3												s	New
828	Н	3												s	New
848	Н	3										Х		U	New. Question deals with knowledge rather than ability. Retained question and sited proper K/A treated as site specific lesson learned question.
868	Н	2												E	New One distractor revised
878	Н	3												S	New