Fitzpatrick Written Examination 5/05 Written Examination Review Worksheet

NOTE: 1. BOLD reflect resolution of comments

2. Reviewed by S. Dennis and H.Williams

_	1. 2. LOK LOD		3.	B. Psyc	hometr	ric Flaws	3	4.	Job Con	aws	5. C	5. Other		7.	
Q#	LOK (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
1	Н	2						-						s	
2	F	2												S	
3	Н	2												Ε	Edited Stem for clarity
4	F	2												E	EDIT STEM TO READ".AS Reactor Powerflow," Edited
7	F	3												S	
8	Н	3												S	
9	F	2				X								J	1000 psig may be to high to be credible. Also if 1000 psig were correct then 800 psig would also be correct. Major Edit
10	Н	2												S	
11	Н	3												S	
12	Н	2				Х								-	Distractors not credible Changed Question
13	F	2												S	
14	Н	4												S	
15	Н	3												S	
16	F	3								:				S	
17	Н	3												S	
18	F	2										Х		E	Was ok on last exam as a SRO only. K/A mismatch. Edited
19	F	2				X								U	Use of condenser air removal pumps at power not credible Changing stem from 100 to 10% power to make distractors more credible
20	F	2												S	
21	Н	3												S	
24	F	3												S	
25	F	2												S	

	1.		3. Psychometric Flaws						Job Cont	aws	5. C	5. Other		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
26	Н	3												S	SRO only? - there is an RO learning objective
27	Н	3												S	
28	Н	3												S	
29	F	2												S	
32	Н	3												S	
34	Н	3												S	
35	Н	3												S	
37	Н	3												S	
38	н	2										<u> </u>	<u>L</u>	S	
39	Н	3										L_	<u> </u>	S	
XX	xxx	xxx	xxx	xxx	xxxx	xxx	xxx	xx	xx	xx	хх	xx	xx	xx	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
41	F	2										<u> </u>	<u> </u>	S	
42	F	2								L			<u> </u>	s	
43	F	3								Ĺ		<u> </u>	<u> </u>	s	
44	F	3								<u> </u>			<u> </u>	S	
45	Н	3								ļ				S	For KA - Not sure where "level" comes in? Pressure increase, Collapsing of voids in downcomer, causes level to go down
46	F	3												S	
48	F	2				X								U	How does NPSH come into play? Will replace distractors regarding NPSH
49	Н	3												s	
50	Н	3												S	
54	F	3												s	
55	F	2												S	
56	Н	3												s	
58	Н	3												s	
61	F	2								<u></u>				s	
63	Н	2								<u> </u>			<u> </u>	s	
65	Н	3												S	
66	н	3											<u> </u>	S	
67	Н	2								L				s	
68	Н	2				<u></u>	L			<u> </u>		L		s	

	1.	2. LOD	3	B. Psyc	hometr	ic Flaws	5	4.	Job Cont	tent Fla	aws	5. C	ther	6.	7.
Q#	LOK (F/H)	(1-5)	Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia		Back- ward	Q= K/A	SRO Only	U/E/S	Explanation
71	Н	3							-					S	
72	F	2												S	
73	F	2												S	
74	H	2												S	
75	Н	3												S	
76	F	2												S	
77	Ξ	2												Е	Stem needs AOP-28 reference or "a" & "b" may be correct Stem changed
79	H	3												S	
80	F	2												S	
82	Η	3				Х								U	"c" does not appear credible (ATWS) - C being replaced
84	F	2												S	
85	Н	3												S	
87	Н	3												S	
88	Н	3												S	
89	H	3												S	
90	F	3												S	
91	Н	3												S	
92	F	2												S	
93	Н	3												S	
94	Н	2												Ē	Will edit stem - can actions be tied to procedure? Yes.
95	F	3				Х								C	could "c" be correct also? Will change C distractor
96	F	2												S	
97	F	2												S	
99	Н	3												S	
100	Н	3												S	
SRO															
5	F	2												S	
6	Н	2												S	
22	Н	3												S	
23	H	2												Ε	Use "Required" instead of "appropriate" in stem Changed to required

	1.	2.	3	3. Psyc	hometr	ic Flaws	5	4.	Job Cont	tent 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
30	Н	4												S	
31	Н	3												E	"d"- both not needed. To get to safety limit you must exceed op. Limit Removed Both and the MCPR Operating
33	н	2												S	
36	Н	2												S	
40	Н	3						-						s	
47	Н	3												E	Changed to fundamental. Typo in explanation. Should be 10312 not 10012.
51	Н	3												s	
52	Н	2												S	
53	Н	3												S	
57	Н	3												S	
59	Н	3												s	
60	Н	3												s	
62	Н	2												s	
64	Ħ	3												E	Stem does not provide enough information to assume that an EOP-2 entry would not occur. Therefore answer B could be correct The answer must be based on procedural guidance for the given conditions. Barry - Steve, I used EOP-2 and walked through the procedure and it led me to EP-2 (copy of high-lighted procedure attached) Weak distractors will replace "immediate" with "required procedurally driven" in question
69	F	2												S	Borderline SRO ONLY - based on correct answer interface with TS How is this ALARA? - provides communication to staff to minimize dose
70	F	1												U	Barry - seems too basic, not SRO only level question process for preparing RWP vs. requirement for RWP - Replaced
78	Н	2												S	
81	Н	3												S	
83	Н	3												S	
86	F	2												S	
98	Н	2	Х											E	Is there enough stem focus to assure that an emergency doesn't exist, thereby making B also correct? stem edited for focus

	1.	2. LOD	3. P	sychometr	4. Job Content Flaws					5. Other		7.			
Q#	LOK (F/H)	(1-5)	Stem Cu Focus	ies T/F	Cred. Dist.	Partial	Job- Link	Minutia		Back- ward			U/E/S	Explanation	
	Instructions														
Bofor	Refer to Section D of ES-401 and Appendix B for additional information regarding each of the following concepts.]														
The let	neter 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.														
	Ft.	ممائد سم		auta (LOD)	\			1 - 5	10000	diffic.	da) waat		la /ausa	stions in the Q. A range are acceptable)	
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:														
ll .	The stem lacks sufficient focus to elicit the correct answer (e.g., unclear intent, more information is needed, or too much needless information).														
l	The stem or distractors contain cues (i.e., clues, specific determiners, phrasing, length, etc).														
1	· The answer choices are a collection of unrelated true/false statements.														
	•		One or mor												
	•	(or mor	e distracto	rs is (are	e) partia	ily cori	ect (e.g.	, if the	applica	nt can	таке	unstate	d assumptions that are not contradicted by stem).	
4.	Che	ck the	appropriate	e box if a jo	b conte	nt error	is iden	tified:							
l	•	1	The questio	on is not lin	ked to th	he job re	quirer	nents (i.e	e., the	questio	n has	a valid	K/A but	t, as written, is not operational in content).	
	•	1	The question	on requires	the reca	all of kn	pbelwo	e that is	too sp	ecific fo	or the o	closed	referenc	ce test mode (i.e., it is not required to be known from memory).	
11	•	1	The question	on contains	data wi	th an ur	realist	ic level c	f accu	racy or	incons	sistent	units (e.	.g., panel meter in percent with question in gallons).	
l	•	٦	The questio	on requires	reverse	logic o	applic	ation co	mpare	d to the	job re	quirem	ents.		
5.	Che	ck que	stions that	are sample	ed for co	onforma	nce wi	th the ap	prove	d K/A ar	nd thos	se that	are <u>des</u>	signated SRO-only (K/A and license level mismatches are unacceptable).	
6.	Bas	ed on t	he reviewe	er's judgme	ent, is the	e questi	on as v	written (L	l)nacc	eptable	(requi	ring re _l	oair or re	eplacement), in need of (E)ditorial enhancement, or (S)atisfactory?	

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NOTES:

Exam discussed with licensee on April 11 and 12, 2005. Out of 33 comments, 17 were resolved with no changes required. Unsats and Enhancements (3 noted below) will be resolved during validation week of April 18, 2005.

Total Unsat = 7, SRO Unsat = 1, Total Enhancements = 8, Total SRO Enhancements = 5

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

All comments were resolved and reviewed as noted during the validation week. All replacement questions were found to be sat per the ES 401-9 guidance and were revalidated by the licensee.