

Millstone Unit 2 Post Examination Review w/Students Remarks on Questions

<u>Question #</u>	<u>Remarks on Questions by Student As To Why It Was Missed</u>
#9	Marc thought that an ATWS would cause AFW to start to maintain a heat sink. Somewhat thrown off by "automatic actions" in question stem.
#14	Marc didn't think about INV-6.
#16	Initially picked 'C' changed to 'D'. Not certain on where volts and amps are read. With a battery isolated, battery voltage should lower (below 134 volts). Discounted -5 amps. Did not see any acceptable answer.
#17	Marc assumed TCV would open to lower RBCCW temperature. Didn't account for the stable RM.
#18	Unfamiliarity with procedure. Defaulted to most conservative answer.
#20	Missed "Wide" range as "power" range.
#25	Assumed a CTMT RM would see evidence of fuel failure.
#33	Assumed PZR pressure would be above RCS saturation pressure while drawing a bubble.
#35	Wasn't sure of switch position in this condition.
#41	Couldn't remember value. Either 'C' or 'D'.
#44	Didn't know there were two suction pressure instruments.
#55	Just didn't know.

*Although exam question wording issues were uncovered, no questions are being challenged.*

*Robert L. Cimmino, Jr.  
Exam Developer & Grader 3/22/06*

**Millstone Unit 2 Examination Student Questions and Proctor Answers**  
**Questions listed in the order that they were asked**

<u>Question #</u>	<u>Student Question</u>	<u>Proctor Answer</u>
#56	Is SP-2601D current?	Yes.
#12	Choice D – Is manual control of #2 Regulator Valve as RO on CO5 or Direct PEO to take local control?	Unless otherwise stated actions are taken in the Control Room.
#12	Are these the only actions to be taken or just a part of the actions to be taken?	The actions stated are those actions for that system.
#21	What is the time frame that “SUSPENDED” encompasses? Is it Temporary or Long Term?	Temporary.
#30	Is chemist still doing what he is doing?	Assume all conditions still exist as stated.
#69	Gramatically, choice ‘C’ does not make sense. Can the word “on” be removed without changing the intent?	Yes.
#3	What is “moments ago” mean? How long ago? Quantify the time span?	Assume a couple of minutes ago.
#5	<p>In choice ‘B’, what does “loss of” mean? I believe there is no correct question to this question.</p> <p>I’m choosing ‘B’ because it is closet to the correct answer. However, with the words “loss of” RCS flow, it is not correct because 3 RCPs are still running and you have not totally lost flow, it is only degraded.</p>	<p>Loss of pertains specifically to the actions taken in the stem.</p> <p>The only response given to the student was to hold, skip the question, until the Lead Examiner could be consulted.</p> <p>The words “loss of” in choice ‘B’ pertains to the generic concept of degraded RCS flow and its effect on the reactor core. However, the trip on low RCS flow is designed to occur on <u>degraded</u> RCS flow, which is what the stem is soliciting.</p>

		* Per Lead Examiner, reword 'B' to remove words "either loss of or" based on candidates challenge of wording during exam.
#38	Does everything else work?	Yes, assume only items mentioned in stem don't work. Student stated "so CAR fans are operating".
#38	Define "not operated" – does not mean not operated <u>period</u> ?	Yes, not operated period.
#38	Define "Long Term"	<p>Student stated that there was no correct answer based on the question soliciting the effect of no CTMT spray flow, a large break LOCA and all 4 CAR fans still operating. He did not know what the question was trying to solicit and was choosing 'D' because it was the least wrong choice.</p> <p>Based on discussion with the Lead Examiner, it was agreed that the question was potentially flawed in its wording.</p> <p>However, it was felt that any further guidance beyond quantifying "Long term" would provide the student<del>s</del> with too much guidance. <i>MC 3/22/06</i></p> <p>"Long Term" means &gt; 8 hrs.</p>
#31	Define "consistent with" in choice 'C'.	Per the Lead Examiner "consistent with" means "adequate for".

NOTE: Time expired at 1410 (6 hours after starting). The student asked for more time and the Lead Examiner was consulted by phone. Per the Lead ~~Based~~ Examiner's direction, the student was given till 1430 to complete the exam.

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