APS

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Company Correspondence

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SUBJECT: **Palo Verde Initial License Written Exam Results**
ATTACH: **PVNGS 2005 RO/SRO License Exam Post-Examination Assessment**

Palo Verde's NRC RO and SRO license written exam was administered on Friday, July 29, 2005 at Palo Verde Nuclear Generating Station. An assessment was completed immediately following the exam. All examination questions missed by any candidate have been reviewed. The assessment focused on those questions missed by 50% or more of the candidates and any that had no correct answer or more than one correct answer. One question had no correct answer. Six questions had 50% or more incorrect responses by the candidates. The detailed assessment is attached. There are no other issues identified with any other questions.

Pat Wiley
Manager, Operations Training

CC: Fred Riedel
Dan Hautala, NRA

Written Examination Question Assessment

>50% of the candidates missed the following questions

Question #	Overall Success	Description
5 (RO & SRO)	25%	Question asked when the "B" charging pump would start if it was not running and the charging pump selector was in the 1-2-3 position. In this position the "B" pump would be selected as the "Normally running" pump. The only way to stop the pump in this configuration is to place the pump in PTL. As long as the handswitch is in Auto after stop position (green flagged), the pump will automatically stop on high level at +15% from setpoint and restarts at +14% decreasing level. **The question is invalid as written. There is no correct answer and therefore the question shall be deleted.**
13 (RO & SRO)	38%	Question asked for the type of core heat removal that is in progress following a blackout with QSPDS indicating 32 degrees superheat. 4 candidates chose response "C" which states that 2 phase N.C. flow was available and that the core was still covered. A superheated condition indicates that core uncovery has occurred. Clarification will be provided on this item during examination review. **The question is valid as written.**
24 (RO & SRO)	13%	Question established parameters that indicate an ESD is occurring in conjunction with a SGTR on the same SG and asked for how to feed both SGs. All examinees but one picked response "D" which allows feeding of the non affected SG. This is NOT allowed IAW with the Tech Guide mitigating strategy. There is insufficient flow to feed both SGs at this time and it is more important to acquire Containment Isolation by feeding up the affected SG to cover the tubes and minimize the radiological release. Clarification will be provided on this item during examination review. **The question is valid as written.**
34 (RO & SRO)	50%	Question asked for the temperature of the fluid downstream of a leaking PSR Relief valve lifting to the RDT @ 10 psig. This is an isenthalpic process and requires the examinee to correctly read the temperature from the steam flow saturation curve. Clarification will be provided on this item during examination review. **The question is valid as written.**
45 (RO & SRO)	50%	Question asked the examinee to identify how to restore SG levels based on the running AFW pump "B" discharge pressure low alarm being lit. All 4 candidates who missed this question picked response "D". There response was partially based on the fact that AFW pump "A" is preferred over AFW pump "N", however, if feed flow only matches steam flow level will not be restored in the SG. Additional training will be provided on this item during examination review. **The question is valid as written.**
67 (RO & SRO)	25%	Question asked candidates what the expected plant response from COLSS and CPCs is for a 12 finger CEA dropping to the bottom of the core @ 100% power. 6 of the candidates chose response "C", CPCs will generate only a single channel trip vs a reactor trip. If an individual twelve fingered CEA is misaligned from its group, a CEAC penalty factor will ramp up over a six hour period, eventually leading to a plant trip. Additional training will be provided on this item during examination review. **The question is valid as written.**
100 (SRO Only)	33%	Question asked for the most limiting time to contact the NRC after a pressure boundary leak is discovered while in Mode 3. All but one candidate picked response "B" of 8 hours. This response is based solely on pressure boundary leakage. This leak also requires the plant to continue the shutdown to Mode 6 which requires a 4 hour NRC notification. Additional training will be provided on this item during examination review. **The question is valid as written.**

All examination questions missed by any candidate have been reviewed and there are no other issues identified with any other questions.