

Tier / Group	Randomly Selected K/A	Reason for Rejection
RO Exam Tier 1 Group 1	<p><i>QID #3</i> <i>009 Small Break LOCA</i></p> <p>Generic 2.4.21 – Assessing status of safety functions using parameters and logic.</p>	<p>The task of using the logic trees and diagnostic charts to assess safety function during the EOPs is part of the SROs function and not the Reactor Operator. The RO will provide the parameters and indications to the SRO to make this assessment; therefore a credible CFR 41 RO tie can not be developed.</p> <p><i>Generic 2.4.6 – Knowledge of Symptom based EOP mitigation strategies</i> was randomly selected as a replacement from the required section 2.4 generic K&A statements in accordance with ES-401 Attachment 2 Item 1.</p>
	<p><i>QID #7</i> <i>025 Loss of RHR System</i></p> <p>AA1.20 – HPI switches, indicators, lights and flow meters.</p>	<p>This K&A has an asterisk and is not applicable to ANO since the HPI pumps are normally secured during RHR operations; therefore, a credible and operationally valid question can not be developed on this K&A.</p> <p><i>AA1.12 – RCS Temperature Indication</i> was randomly selected as a replacement from the other AA1 K&A statements under this category with a RO importance rating of > 2.5.</p>
	<p><i>QID #14</i> <i>055 Station Blackout</i></p> <p>EK1.02 – Natural Circulation Cooling</p>	<p>This KA knowledge was already used in QID #11; therefore, an alternate K&A was chosen to prevent over sampling natural circulation criteria knowledge</p> <p><i>EK1 – Effect of battery discharge rates on capacity</i> was selected as a replacement as it was the only other EK1 K&A statement under this category.</p>
	<p><i>QID #15</i> <i>056 Loss of Off-site Power</i></p> <p>Generic 2.1.1 – Knowledge of conduct of operations requirements.</p>	<p>This Generic K&A statement is not applicable to the requirements for this EOP procedure; therefore a credible CFR 41 RO tie can not be developed.</p> <p><i>Generic 2.1.28 – Knowledge of the purpose and function of major system components and controls</i> was randomly selected as a replacement from the required section 2.1 generic K&A statements in accordance with ES-401 Attachment 2 Item 1.</p>

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RO Exam Tier 2 Group 1	<p><i>QID #31</i></p> <p><i>005 Residual Heat Removal System</i></p> <p>K4.08 Line up for “piggy back” mode with HPI.</p>	<p>This K&A has an asterisk and is not applicable to ANO since we do not have a “piggy back” mode of RHR with HPI pumps; therefore, a credible and operationally valid question can not be developed on this K&A.</p> <p><i>K4.07 – System protection logics, including high-pressure interlock, reset controls, and valve interlock, was randomly selected as a replacement from the other K4 K&A statements under this category with a RO importance rating of > 2.5.</i></p>
	<p><i>QID #41</i></p> <p><i>026 Containment Spray</i></p> <p>A1.05 – Chemical additive tank level and concentration.</p>	<p>The Containment Spray Chemical Addition Tank was removed from service at ANO and replace with chemical baskets in the basement of Containment; therefore, a credible and operationally valid question can not be developed on this K&A.</p> <p><i>A1.06 – Containment spray pump cooling was randomly selected as a replacement from the other A1 K&A statements under this category with a RO importance rating of > 2.5.</i></p>
	<p><i>QID #42</i></p> <p><i>039 Main and Reheat Steam System</i></p> <p>K3.03 – Loss of MRSS on AFW pump.</p>	<p>The Auxiliary Feed Pump (AFW) (non safety) is a motor driven pump and has no interrelated tie with the Main and Reheat Steam System; therefore, a credible and operationally valid question can not be developed on this K&A.</p> <p>K3.05 - RCS was randomly selected as a replacement from the other K3 K&A statements under this category with a RO importance rating of > 2.5.</p>
	<p><i>QID #48</i></p> <p><i>063 DC Electrical Distribution</i></p> <p>Generic 2.4.43 – Knowledge of emergency communication systems and techniques.</p>	<p>It would be difficult to develop a credible exam question with a tie to the DC Electrical Distribution system for this KA since the communication circuits at ANO are normally AC auctioneered powered; therefore, a credible and operationally valid question can not be developed on this K&A.</p> <p><i>Generic 2.4.31 – Knowledge of annunciators alarms and indications, and use of the response instructions was randomly selected as a replacement from the required section 2.4 generic K&A statements in accordance with ES-401 Attachment 2 Item 1.</i></p>
RO Exam Tier 2 Group 2	<p><i>QID #62</i></p> <p><i>056 Condensate</i></p> <p>Generic 2.1.10 – Knowledge of condition and limitation in the facility license.</p>	<p>There is no direct tie between the Condensate system and the limitations and conditions for operation in the facility license; therefore, a credible and operationally valid question can not be developed on this K&A.</p> <p><i>Generic 2.1.27 – Knowledge of system purpose and or function was randomly selected as a replacement from the required Section 2.1 Generic K&A statements in accordance with ES-401 Attachment 2 Item 1.</i></p>

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<p>RO Exam Tier 3</p>	<p>QID #73 Generic 2.3.09 – Knowledge of the process for performing a Containment Purge</p>	<p>The Containment Purge System was sampled in QIDs 22 and 59, therefore, an alternate K&A was chosen to prevent over sampling this system. Generic 2.3.10 – <i>Ability to perform procedures to reduce excessive levels of radiation and guard against personnel exposure</i> was randomly selected as a replacement from Section 2.3 Generic K&A statements with a RO importance rating of > 2.5.</p>
<p>SRO Exam Tier 1 Group 1</p>	<p>QID #77 <i>054 Loss of Main Feedwater</i> Generic 2.2.18 – Knowledge of maintenance activities during shutdown operations.</p>	<p>A Loss of Main Feedwater while shutdown would not be an event for the SRO candidate and there is no credible tie between the K&A statement and the Loss of Feedwater EOP. Also the Major event in one of the scenarios in the operating exam is very similar to this subject category; therefore this subject category was rejected. <i>Generic 2.2.22 – Knowledge of limiting conditions for operations and safety limits</i> was randomly selected as a replacement from the required section 2.2 generic K&A statements in accordance with ES-401 Attachment 2 Item 1. The <i>017 RCP Malfunction (Loss of RC Flow)</i> was randomly selected as a replacement subject category.</p>
<p>SRO Exam Tier 1 Group 2</p>	<p>QID #82 <i>024 Emergency Boration</i> Generic 2.3.01 – Knowledge of 10 CFR 20 and related facility radiation control requirements.</p>	<p>This K&A knowledge was sampled on the RO sample plan Tier 3 QID #71 and since the SRO candidates will be taking the RO section of the exam, there is no justification or operationally valid reason to generate another question on this K&A statement. <i>Generic 2.4.6 – Knowledge of symptom based EOP mitigation strategies</i> was randomly selected as a replacement from the required section 2 generic K&A statements in accordance with ES-401 Attachment 2 Item 1.</p>
	<p>QID #84 <i>068 Control Room Evacuation</i> Generic 2.3.01 – Knowledge of 10 CFR 20 and related facility radiation control requirements.</p>	<p>This K&A knowledge was sampled on the RO sample plan Tier 3 QID #71 and since the SRO candidates will be taking the RO section of the exam, there is no justification or operationally valid reason to generate another question on this K&A statement. <i>Generic 2.4.4 – Ability to recognize abnormal indications for system operating parameters which are entry-level conditions for emergency and abnormal operating procedures</i> was randomly selected as a replacement from the required section 2 generic K&A statements in accordance with ES-401 Attachment 2 Item 1.</p>
	<p>QID #88 <i>059 Main Feedwater</i> Generic 2.4.30 Knowledge of the Emergency Plan</p>	<p>This K&A knowledge will be sampled on one of the Admin JPMs and a dynamic scenario on the operating Test and thus was rejected due to over sampling this K&A. Based on discussions with the Lead NRC Examiner, this system was also rejected. System 026, <i>Containment Spray</i> and generic K&A 2.4.6, <i>Knowledge of symptom Based EOP mitigation strategies</i>, was randomly selected as a replacement from the required section 2 generic K&A statements in accordance with ES-401 Attachment 2 Item 1.</p>

<p>SRO Exam Tier 2 Group 2</p>	<p><i>QID #91</i> <i>079 Station Air System</i> Generic 2.4.38 – Ability to take action in the E-Plan procedure acting as the emergency coordinator.</p>	<p>There is no credible 10 CFR 43 SRO tie between this K&A statement and the originally selected Station Air System; therefore, a credible and operationally valid question can not be developed on this K&A statement or any others Station Air K&A statements. (most have an importance rating of less than 2.5)</p> <p>Based on this selection, the <i>Control Rod Drive System</i> was randomly selected from the Tier 2 Group 2 systems and the originally selected K&A statement: <i>Ability to take actions called for in the facility emergency plan, including (if required) supporting or acting as emergency coordinator</i> was retained for question generation.</p>
<p>SRO Exam Tier 1</p>	<p><i>QID #100</i> <i>Generic 2.4.34</i> Knowledge of RO task performed outside the main control room during emergency operations including system geography and system implications.</p>	<p>This K&A is also RO knowledge and does not allow an SRO only question to be developed thus this K&A was rejected.</p> <p>Generic K&A 2.4.4, <i>Ability to recognize abnormal indications for system operating parameters which are entry level conditions for emergency and abnormal operating procedures</i>, was randomly selected as a replacement from the required section 2 generic K&A statements in accordance with ES-401 Attachment 2 Item 1.</p>