

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>1</u>	_____
	Group #	<u>1</u>	_____
	K/A #	<u>007.EK2.02</u>	
	Importance Rating	<u>2.6</u>	_____

Proposed Question: RO# 1, SEE ATTACHED

Proposed Answer: A

Explanation (Optional): SEE ATTACHED

Technical Reference(s): 883D195 Sh. 4 Logic Diagram 4160V Bus Schemes; 883D195  
Sh. 15 RC Trip Signal Logic Diagram; STPT 21.1 Sheet 16  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 053.02.LP0273.007 (As available)

Question Source: Bank # INPO 27260  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 2-DR

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Knowledge of the interrelationship between a reactor trip and the following:  
 Breakers, relays and disconnects

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>1</u>	<u>          </u>
	Group #	<u>1</u>	<u>          </u>
	K/A #	<u>008.AA1.06</u>	<u>          </u>
	Importance Rating	<u>3.6</u>	<u>          </u>

Proposed Question: RO# 2, SEE ATTACHED

Proposed Answer: C

Explanation (Optional): SEE ATTACHED

Technical Reference(s): 883D195 Sh. 18 Logic Diagram Pressurizer Pressure and Level Control  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 043.03.LP2463.010 (As available)

Question Source: Bank # \_\_\_\_\_  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New NEW

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 2-DR

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Ability to operate and/or monitor the following as they apply to the Pressurizer Vapor Space Accident: Control of PZR Level

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>1</u>	<u>          </u>
	Group #	<u>1</u>	<u>          </u>
	K/A #	<u>026.AK3.03</u>	<u>          </u>
	Importance Rating	<u>4.0</u>	<u>          </u>

Proposed Question: RO# 3, SEE ATTACHED

Proposed Answer: C

Explanation (Optional): SEE ATTACHED

Technical Reference(s): EOP-1.1, SI Termination Step 6, Background page 12  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 031.02.LP0405.005 (As available)

Question Source: Bank # INPO 26807  
 Modified Bank                    (Note changes or attach parent)  
 New                   

Question History: Last NRC Exam                   

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge 1-P  
 Comprehension or Analysis           

10 CFR Part 55 Content: 55.41 X  
 55.43           

K/A Statement: Knowledge of the reasons for the following responses as they apply to the Loss of Component Cooling Water: Guidance actions contained in EOP for Loss of CCW

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>1</u>	<u>          </u>
	Group #	<u>1</u>	<u>          </u>
	K/A #	<u>027.AA1.04</u>	<u>          </u>
	Importance Rating	<u>3.9</u>	<u>          </u>

Proposed Question: RO# 4, SEE ATTACHED

Proposed Answer: C

Explanation (Optional): SEE ATTACHED

Technical Reference(s): AOP-18A Unit 1 Train "A" Equipment Operation; Logic  
883D195 Sheet 9  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 055.03.LP2440.002 (As available)

Question Source: Bank # PBNP 2003  
 Modified Bank                      (Note changes or attach parent)  
 New                                     

Question History: Last NRC Exam 2003

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge 1-I  
 Comprehension or Analysis                     

10 CFR Part 55 Content: 55.41 X  
 55.43                     

K/A Statement: Ability to operate and/or monitor the following as they apply to the Pressurizer Pressure Control Malfunctions: Pressure Recovery, using emergency-only heaters

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>1</u>	<u>          </u>
	Group #	<u>1</u>	<u>          </u>
	K/A #	<u>029.EA2.01</u>	
	Importance Rating	<u>4.4</u>	<u>          </u>

Proposed Question: RO# 5, SEE ATTACHED

Proposed Answer: C

Explanation (Optional): SEE ATTACHED

Technical Reference(s): CSP-S.1, Response to Nuclear Power Generation/ATWS Step 19 and CSP-S.1 Background Document  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 043.03.LP1996.012 (As available)

Question Source: Bank # INPO 24679  
 Modified Bank                    (Note changes or attach parent)  
 New                   

Question History: Last NRC Exam                   

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge 1-P  
 Comprehension or Analysis           

10 CFR Part 55 Content: 55.41 X  
 55.43           

K/A Statement: Ability to determine or interpret the following as they apply to a ATWS: Reactor nuclear instrumentation

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>1</u>	_____
	Group #	<u>1</u>	_____
	K/A #	<u>038.02.02.38</u>	_____
	Importance Rating	<u>3.6</u>	_____

Proposed Question: RO# 6, SEE ATTACHED

Proposed Answer: A

Explanation (Optional): SEE ATTACHED

Technical Reference(s): FSAR Chapter 14.2.4  
(Attach if not previously provided) OM 4.3.8 Control of Time Critical Actions, step 4.8.2  
OM 4.3.2 Attachment E, Time Critical Actions, 4.1

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 031.02.LP0441.004 (As available)

Question Source: Bank # \_\_\_\_\_  
Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
New NEW

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge 1-B  
Comprehension or Analysis \_\_\_\_\_

10 CFR Part 55 Content: 55.41 X  
55.43 X

K/A Statement: Steam Generator Tube Rupture - Knowledge of conditions and limitations in the facility license

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>1</u>	_____
	Group #	<u>1</u>	_____
	K/A #	<u>WE012.EK1.01</u>	
	Importance Rating	<u>3.4</u>	_____

Proposed Question: RO# 7, SEE ATTACHED

Proposed Answer: D

Explanation (Optional): SEE ATTACHED

Technical Reference(s): ECA-2.1, Uncontrolled Depressurization of Both Steam Generators Step 5; CSP-H.1 Loss of Heat Sink  
 (Attach if not previously provided) LP0465 LOCA and Faulted Generator Contingencies

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 031.02.LP0465.001 (As available)

Question Source: Bank # PBNP 2005  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam 2005

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 2-RI

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Knowledge of the operational implications of the following concepts as they apply to the Uncontrolled Depressurization of All Steam Generators: Components, capacity, and function of emergency systems.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>1</u>	<u>          </u>
	Group #	<u>1</u>	<u>          </u>
	K/A #	<u>054.AK3.02</u>	<u>          </u>
	Importance Rating	<u>3.4</u>	<u>          </u>

Proposed Question: RO# 8, SEE ATTACHED

Proposed Answer: A

Explanation (Optional): SEE ATTACHED

Technical Reference(s): AOP-2B Feedwater System Malfunction; M-202-2 Feed  
P&ID; M-202-1 Condensate P&ID  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 055.03.LP2439.001 (As available)

Question Source: Bank # PBNP 2005  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam 2005

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 2-RI

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Knowledge of the reasons for the following responses as they apply to a Loss of Main Feedwater: matching feedwater and steam flows.



Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>1</u>	<u>          </u>
	Group #	<u>1</u>	<u>          </u>
	K/A #	<u>055.EA1.07</u>	<u>          </u>
	Importance Rating	<u>4.3</u>	<u>          </u>

Proposed Question: RO# 9, SEE ATTACHED

Proposed Answer: C

Explanation (Optional): SEE ATTACHED

Technical Reference(s): ECA 0.0 Unit 2 Loss of All AC Power; PBE-7033 Electrical Drawing  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 031.02.LP0462.007 (As available)

Question Source: Bank # AOP BANK  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 2-RI

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Ability to operate and monitor the following as they apply to a Station Blackout:  
 Restoration of power from offsite.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>1</u>	_____
	Group #	<u>1</u>	_____
	K/A #	<u>056.AA2.05</u>	
	Importance Rating	<u>2.6</u>	_____

Proposed Question: RO# 10, SEE ATTACHED

Proposed Answer: C

Explanation (Optional): SEE ATTACHED

Technical Reference(s): AOP-18A Unit 2 Train "A" Equipment Operation Att. A  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 052.07.LP0359.004 (As available)

Question Source: Bank # \_\_\_\_\_  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New NEW

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 2-RI

10 CFR Part 55 Content: 55.41 \_\_\_\_\_  
 55.43 X

K/A Statement: Ability to determine and interpret the following as they apply to the Loss of Offsite Power: Operational status of HVAC chill water pump.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>1</u>	<u>          </u>
	Group #	<u>1</u>	<u>          </u>
	K/A #	<u>057.02.04.04</u>	<u>          </u>
	Importance Rating	<u>4.5</u>	<u>          </u>

Proposed Question: RO# 11, SEE ATTACHED

Proposed Answer: C

Explanation (Optional): SEE ATTACHED

Technical Reference(s): AOP-0.2 Loss of Safety Related Instrument Buses and background  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 054.02.LP0123.011 (As available)

Question Source: Bank # \_\_\_\_\_  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New NEW

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge 1-I  
 Comprehension or Analysis \_\_\_\_\_

10 CFR Part 55 Content: 55.41 X  
 55.43 X

K/A Statement: Loss of Vital AC Instrument Bus - Ability to recognize abnormal indications for system operating parameters that are entry-level conditions for emergency and abnormal operating procedures.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>1</u>	<u>          </u>
	Group #	<u>1</u>	<u>          </u>
	K/A #	<u>058.AK1.01</u>	<u>          </u>
	Importance Rating	<u>2.8</u>	<u>          </u>

Proposed Question: RO# 12, SEE ATTACHED

Proposed Answer: A

Explanation (Optional): SEE ATTACHED

Technical Reference(s): 0-SOP-DC-001 125VDC System, Bus D-01& Components; 0-SOP-Y-001 120 V Vital Instrument Inverters Att. A  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 054.03.LP0121.009 (As available)

Question Source: Bank # \_\_\_\_\_  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New NEW

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge 1-I  
 Comprehension or Analysis \_\_\_\_\_

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Knowledge of the operational implications of the following concepts as they apply to a Loss of DC Power: Battery charger equipment and instrumentation.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>1</u>	_____
	Group #	<u>1</u>	_____
	K/A #	<u>062.AK3.02</u>	_____
	Importance Rating	<u>3.6</u>	_____

Proposed Question: RO# 13, SEE ATTACHED

Proposed Answer: B

Explanation (Optional): SEE ATTACHED

Technical Reference(s): 883D195 Sh. 8 Logic Diagram Safeguard Sequence  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 051.06.LP0086.005 (As available)

Question Source: Bank # LOC BANK  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 2-RI

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Knowledge of the reasons for the following responses as they apply to the Loss of Nuclear Service Water: The automatic actions (alignments) within the nuclear service water resulting from the actuation of the ESFAS

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>1</u>	_____
	Group #	<u>1</u>	_____
	K/A #	<u>065.AA1.03</u>	_____
	Importance Rating	<u>2.9</u>	_____

Proposed Question: RO# 14, SEE ATTACHED

Proposed Answer: A

Explanation (Optional): SEE ATTACHED

Technical Reference(s): EOP-1 Unit 1 Loss of Reactor or Secondary Coolant, Step 10c  
RNO; EOP-0 Reactor Trip or Safety Injection Attachment B;  
Logic 8893D195 Sheet 21  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 052.06.LP0338.006 (As available)

Question Source: Bank # \_\_\_\_\_  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New NEW

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 2-RI

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Ability to operate and/or monitor the following as they apply to the Loss of Instrument Air: Restoration of systems served by instrument air when pressure is regained

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>1</u>	<u>          </u>
	Group #	<u>1</u>	<u>          </u>
	K/A #	<u>WE04.EA2.01</u>	
	Importance Rating	<u>3.4</u>	<u>          </u>

Proposed Question: RO# 15, SEE ATTACHED

Proposed Answer: D

Explanation (Optional): SEE ATTACHED

Technical Reference(s): EOP-0 Reactor Trip or Safety Injection, Step 25; EOP-1 Loss of Reactor or Secondary Coolant, Step 19  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 031.02.LP0465.001 (As available)

Question Source: Bank # INPO 29437  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 2-DR

10 CFR Part 55 Content: 55.41 \_\_\_\_\_  
 55.43 X

K/A Statement: Ability to determine and interpret the following as they apply to a LOCA Outside Containment: Facility conditions and selection of appropriate procedures during abnormal and emergency operations

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>1</u>	<u>          </u>
	Group #	<u>1</u>	<u>          </u>
	K/A #	<u>WE011.02.02.37</u>	<u>          </u>
	Importance Rating	<u>3.6</u>	<u>          </u>

Proposed Question: RO# 16, SEE ATTACHED

Proposed Answer: B

Explanation (Optional): SEE ATTACHED

Technical Reference(s): STPT 8.1, Auxiliary Coolant System  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 051.03.LP0064.004 (As available)

Question Source: Bank # PBNP 2005  
 Modified Bank            (Note changes or attach parent)  
 New           

Question History: Last NRC Exam 2005

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge 1-F  
 Comprehension or Analysis           

10 CFR Part 55 Content: 55.41 X  
 55.43 X

K/A Statement: Loss of Emergency Coolant Recirculation - Ability to determine operability and/or availability of safety related equipment.



Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>1</u>	_____
	Group #	<u>1</u>	_____
	K/A #	<u>WE005.EK1.01</u>	
	Importance Rating	<u>3.8</u>	_____

Proposed Question: RO# 17, SEE ATTACHED

Proposed Answer: A

Explanation (Optional): SEE ATTACHED

Technical Reference(s): CSP-H.1 RCS Bleed and Feed Background Step 40  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 043.03.LP1998.004 (As available)

Question Source: Bank # INPO 25008  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 2-RI

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Knowledge of the operational implications of the following concepts as they apply to the Loss of Secondary Heat Sink: Components, capacity, and function of emergency systems

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>1</u>	<u>          </u>
	Group #	<u>1</u>	<u>          </u>
	K/A #	<u>077.AK2.03</u>	<u>          </u>
	Importance Rating	<u>3.0</u>	<u>          </u>

Proposed Question: RO# 18, SEE ATTACHED

Proposed Answer: B

Explanation (Optional): SEE ATTACHED

Technical Reference(s): AOP-0.1 Declining Frequency on the 345 KV Distribution System; LP0122 13.8 KV System; STPT 21 for 13.8 KV breaker  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 054.02.LP0122.001 (As available)

Question Source: Bank # \_\_\_\_\_  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New NEW

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge 1-I  
 Comprehension or Analysis \_\_\_\_\_

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Knowledge of the interrelationship between Generator Voltage and Electric Grid Disturbance and the following: Sensors, detectors, indicators

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>1</u>	_____
	Group #	<u>2</u>	_____
	K/A #	<u>003.AK3.07</u>	_____
	Importance Rating	<u>3.8</u>	_____

Proposed Question: RO# 19, SEE ATTACHED

Proposed Answer: B

Explanation (Optional): SEE ATTACHED

Technical Reference(s): LCO 3.4.2 Minimum Temperature for Criticality; AOP-6A  
Dropped Rod step 4  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 055.03.LP2441.004 (As available)

Question Source: Bank # \_\_\_\_\_  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New NEW

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge 1-P  
 Comprehension or Analysis \_\_\_\_\_

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Knowledge of the reason for the following as they apply to Dropped Control Rod:  
 Tech-Spec limits for Tave

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>1</u>	<u>          </u>
	Group #	<u>2</u>	<u>          </u>
	K/A #	<u>028.AA1.03</u>	<u>          </u>
	Importance Rating	<u>2.9</u>	<u>          </u>

Proposed Question: RO# 20, SEE ATTACHED

Proposed Answer: D

Explanation (Optional): SEE ATTACHED

Technical Reference(s): 883D195 Sh. 18 Logic Diagram Pressurizer Pressure and Level Control; 684J741 sh. 2 CVCS system P&ID  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 051.01.LP0078.004 (As available)

Question Source: Bank # \_\_\_\_\_  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New NEW

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 2-RI

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Ability to operate and/or monitor the following as they apply to the Pressurizer Level Control Malfunction: RCP and seal water system

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>1</u>	_____
	Group #	<u>2</u>	_____
	K/A #	<u>032.AA2.05</u>	_____
	Importance Rating	<u>2.9</u>	_____

Proposed Question: RO# 21, SEE ATTACHED

Proposed Answer: C

Explanation (Optional): SEE ATTACHED

Technical Reference(s): 883D195 Sh. 11 Nuclear Instrumentation Trip Signals;  
883D195 Sh. 12 Nuclear Instrumentation Premissives &  
Blocks; Master Data Book 3.2.7 PP-1  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 053.03.LP2416.012 (As available)

Question Source: Bank # \_\_\_\_\_  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New NEW

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 2-RI

10 CFR Part 55 Content: 55.41 \_\_\_\_\_  
 55.43 X

K/A Statement: Ability to interpret the following as they apply to the Loss of Source Range Nuclear Instrumentation: Nature of abnormality, from rapid survey of control room data.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>1</u>	_____
	Group #	<u>2</u>	_____
	K/A #	<u>033.02.04.45</u>	_____
	Importance Rating	<u>4.1</u>	_____

Proposed Question: RO# 22, SEE ATTACHED

Proposed Answer: C

Explanation (Optional): SEE ATTACHED

Technical Reference(s): 883D195 Sh. 11 Nuclear Instrumentation Trip Signals;  
883D195 Sh. 12 Nuclear Instrumentation Premissives &  
Blocks; 0-SOP-IC-001-RED  
 (Attach if not previously provided)

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 053.03.LP2416.011 (As available)

Question Source: Bank # KEWAUNEE 2011  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 2-RI

10 CFR Part 55 Content: 55.41 X  
 55.43 X

K/A Statement: Loss of Intermediate Range Nuclear Instrumentation - Ability to prioritize and interpret the significance of each annunciator or alarm.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>1</u>	_____
	Group #	<u>2</u>	_____
	K/A #	<u>037.AK1.01</u>	_____
	Importance Rating	<u>2.9</u>	_____

Proposed Question: RO# 23, SEE ATTACHED

Proposed Answer: B

Explanation (Optional): SEE ATTACHED

Technical Reference(s): Steam Table; AOP-3 Steam Generator Tube Leak  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: Steam Table

Learning Objective: 055.03.LP2438.001 (As available)

Question Source: Bank # \_\_\_\_\_  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New NEW

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 3-SPR

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Knowledge of the operational implications of the following concepts as they apply to Steam Generator Tube Leak: Use of steam tables.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>1</u>	_____
	Group #	<u>2</u>	_____
	K/A #	<u>061.AK2.01</u>	_____
	Importance Rating	<u>2.5</u>	_____

Proposed Question: RO# 24, SEE ATTACHED

Proposed Answer: A

Explanation (Optional): SEE ATTACHED

Technical Reference(s): RMSASRB CI RE-223B, RE-223 Background Monitor;  
RMSASRB CI RE-223, Waste Distillate Tank Overboard  
Monitor  
 (Attach if not previously provided)

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 051.07.LP0275.001 (As available)

Question Source: Bank # PBNP 2005  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam 2005

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge 1-F  
 Comprehension or Analysis \_\_\_\_\_

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Knowledge of the interrelationships between the Area Radiation Monitor (ARM) System Alarms and the following: Detectors at each ARM system location.



Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>1</u>	_____
	Group #	<u>2</u>	_____
	K/A #	<u>WE014.EK3.04</u>	_____
	Importance Rating	<u>3.3</u>	_____

Proposed Question: RO# 25, SEE ATTACHED

Proposed Answer: C

Explanation (Optional): SEE ATTACHED

Technical Reference(s): CSP-Z.1 Response to High Containment Pressure  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 043.03.LP2000.006 (As available)

Question Source: Bank # PBNP 2003  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam 2003

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge 1-B  
 Comprehension or Analysis \_\_\_\_\_

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Knowledge of the reasons for the following responses as they apply to the High Containment Pressure: RO or SRO function within the control room team as appropriate to the assigned position, in such a way that procedures are adhered to and the limitations in the facilities license and amendments are not violated.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>1</u>	<u>          </u>
	Group #	<u>2</u>	<u>          </u>
	K/A #	<u>WE015.EK1.01</u>	<u>          </u>
	Importance Rating	<u>2.8</u>	<u>          </u>

Proposed Question: RO# 26, SEE ATTACHED

Proposed Answer: A

Explanation (Optional): SEE ATTACHED

Technical Reference(s): CSP-Z.2, 'Response to Containment Flooding and background  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 043.03.LP2000.002 (As available)

Question Source: Bank # INPO 27286  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge 1-P  
 Comprehension or Analysis \_\_\_\_\_

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Knowledge of the operational implications of the following concepts as they apply to Containment Flooding: Components, capacity, and functions of emergency systems

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>1</u>	<u>          </u>
	Group #	<u>2</u>	<u>          </u>
	K/A #	<u>WE016.EK2.02</u>	<u>          </u>
	Importance Rating	<u>2.6</u>	<u>          </u>

Proposed Question: RO# 27, SEE ATTACHED

Proposed Answer: B

Explanation (Optional): SEE ATTACHED

Technical Reference(s): EOP-0 Reactor Trip or Safety Injection foldout page and bases  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 031.02.LP1829.003 (As available)

Question Source: Bank # \_\_\_\_\_  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New NEW

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 2-RI

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Knowledge of the interrelations between High Containment Radiation and the following: Facilities heat removal systems, including primary coolant, emergency coolant, the decay heat removal systems, and relations between proper operation of these systems to the operation of the facility.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>2</u>	_____
	Group #	<u>1</u>	_____
	K/A #	<u>003.K5.03</u>	_____
	Importance Rating	<u>3.1</u>	_____

Proposed Question: RO# 28, SEE ATTACHED

Proposed Answer: B

Explanation (Optional): SEE ATTACHED

Technical Reference(s): EOP 0.1 Reactor Trip Response  
 (Attach if not previously LP0231 Reactor Coolant System  
 provided) \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 051.01.LP0231.009 (As available)

Question Source: Bank # Primaries  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge 1-F  
 Comprehension or Analysis \_\_\_\_\_

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Knowledge of the operational implications of the following concepts as they apply to the RCP's: Effects of RCP shutdown on Tave, including the reason for the unreliability of Tave in the shutdown loop.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>2</u>	_____
	Group #	<u>1</u>	_____
	K/A #	<u>004.K6.20</u>	_____
	Importance Rating	<u>2.5</u>	_____

Proposed Question: RO# 29, SEE ATTACHED

Proposed Answer: A

Explanation (Optional): SEE ATTACHED

Technical Reference(s): 684J741 Sh. 2, CVCS drawing; AOP-1D, CVCS Malfunction;  
AOP-5B Loss of Instrument Air Attachment H for CCW  
 (Attach if not previously provided) \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 055.03.LP3718.001 (As available)

Question Source: Bank # PBNP 2005  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam 2005

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 2-RI

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Knowledge of the effect of a loss or malfunction on the following CVCS component:  
 Function of demineralizer, including boron loading and temperature limits

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>2</u>	_____
	Group #	<u>1</u>	_____
	K/A #	<u>005.A1.02</u>	_____
	Importance Rating	<u>3.3</u>	_____

Proposed Question: RO# 30, SEE ATTACHED

Proposed Answer: C

Explanation (Optional): SEE ATTACHED

Technical Reference(s): 110E018 Sh. 1 RHR P&ID  
 (Attach if not previously LP0069 Residual Heat Removal System  
 provided) \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 051.03.LP0069.010 (As available)

Question Source: Bank # PBNP 2007  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam 2007

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 2-RI

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Ability to predict and/or monitor changes in parameters (to prevent exceeding design limits) associated with operating the RHRS controls including: RHR flow rate.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>2</u>	_____
	Group #	<u>1</u>	_____
	K/A #	<u>006.A2.08</u>	_____
	Importance Rating	<u>3.0</u>	_____

Proposed Question: RO# 31, SEE ATTACHED

Proposed Answer: D

Explanation (Optional): SEE ATTACHED

Technical Reference(s): EOP-0 Reactor Trip or Safety Injection Attachment A;  
499B466 Elementary drawing for 2P-15B Sh. 226; 883D195  
Sh. 8 Logic Diagram Safeguard Sequence  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 051.03.LP0066.003 (As available)

Question Source: Bank # \_\_\_\_\_  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New NEW

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 2-RI

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Ability to (a) predict the impacts of the following malfunctions or operations on the ECCS; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those malfunctions or operation: Effect of electric power loss on valve position.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>2</u>	<u>          </u>
	Group #	<u>1</u>	<u>          </u>
	K/A #	<u>007.A3.01</u>	<u>          </u>
	Importance Rating	<u>2.7</u>	<u>          </u>

Proposed Question: RO# 32, SEE ATTACHED

Proposed Answer:   D  

Explanation (Optional): SEE ATTACHED

Technical Reference(s): CVCS Drawings 684J741 Sh. 2 and 3; Waste Disposal  
Drawing 684J741 Sh. 1A; CCW Drawing 110E018 Sh. 2  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination:   N/A  

Learning Objective: 051.02.LP0079.002 (As available)

Question Source: Bank #   PBNP 2007    
 Modified Bank                    (Note changes or attach parent)  
 New                                   

Question History: Last NRC Exam   2007  

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge   1-F    
 Comprehension or Analysis                   

10 CFR Part 55 Content: 55.41   X    
 55.43                   

K/A Statement: Ability to monitor automatic operation of the PRTS, including: Components which discharge to the PRT.



Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>2</u>	_____
	Group #	<u>1</u>	_____
	K/A #	<u>008.A4.02</u>	_____
	Importance Rating	<u>2.5</u>	_____

Proposed Question: RO# 33, SEE ATTACHED

Proposed Answer: B

Explanation (Optional): SEE ATTACHED

Technical Reference(s): 1-SOP-CC-002 section 5.12 page 96; CCW Drawing 110E018  
Sh. 3  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 051.06.LP0084.001 (As available)

Question Source: Bank # \_\_\_\_\_  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New NEW

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 2-RI

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Ability to manually operate and/or monitor in the control room: Filling and draining operations of the CCW System including proper venting of the components

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>2</u>	<u>          </u>
	Group #	<u>1</u>	<u>          </u>
	K/A #	<u>010.02.01.23</u>	<u>          </u>
	Importance Rating	<u>4.3</u>	<u>          </u>

Proposed Question: RO# 34, SEE ATTACHED

Proposed Answer: B

Explanation (Optional): SEE ATTACHED

Technical Reference(s): OP 3C Hot Standby to Cold Shutdown Unit 1/2; 883D195 Sh.  
18 Pressurizer Pressure and Level Control  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 055.01.LP0272.008 (As available)

Question Source: Bank # BANK OPS  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 2-DR

10 CFR Part 55 Content: 55.41 X  
 55.43 X

K/A Statement: Pressurizer Pressure Control - Ability to perform specific system and integrated plant procedures during all modes of plant operation.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>2</u>	<u>          </u>
	Group #	<u>1</u>	<u>          </u>
	K/A #	<u>012.K1.08</u>	<u>          </u>
	Importance Rating	<u>2.9</u>	<u>          </u>

Proposed Question: RO# 35, SEE ATTACHED

Proposed Answer: B

Explanation (Optional): SEE ATTACHED

Technical Reference(s): 883D195 Sh.7 SI Logic Sheet; 883D195 Sh. 10 Feed Control Logic sheet  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 053.06.LP0486.001 (As available)

Question Source: Bank # \_\_\_\_\_  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New NEW

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 2-RI

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Knowledge of the physical connections and/or cause effect relationships between the RPS and the following: MFW

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>2</u>	_____
	Group #	<u>1</u>	_____
	K/A #	<u>013.K2.01</u>	
	Importance Rating	<u>3.6</u>	_____

Proposed Question: RO# 36, SEE ATTACHED

Proposed Answer: C

Explanation (Optional): SEE ATTACHED

Technical Reference(s): EOP-0, Reactor Trip or Safety Injection, Attachment A, SI panel Checks, Step A11; Safety Injection System Drawing #110E035, Sh. 1; 889D195 Sh 9 SI Logic; Master Data Book 3.2.6 2B-32 MCC; Master Data Book 3.2.6 2B-42 MCC  
 (Attach if not previously provided)

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 051.03.LP0066.003 (As available)

Question Source: Bank # \_\_\_\_\_  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New NEW

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 2-RI

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Knowledge of bus power supplies to the following: ESFAS/safeguards equipment control.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>2</u>	_____
	Group #	<u>1</u>	_____
	K/A #	<u>022.K3.02</u>	_____
	Importance Rating	<u>3.0</u>	_____

Proposed Question: RO# 37, SEE ATTACHED

Proposed Answer: A

Explanation (Optional): SEE ATTACHED

Technical Reference(s): KFI04L, Level Sensors and Detectors  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: KFI04L.04C (As available)

Question Source: Bank # PBNP 2007  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam 2007

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 2-RI

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Knowledge of the effect that a loss or malfunction of the CCS (Containment Cooling System) will have on the following: Containment instrumentation readings.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>2</u>	_____
	Group #	<u>1</u>	_____
	K/A #	<u>026.K4.01</u>	_____
	Importance Rating	<u>4.2</u>	_____

Proposed Question: RO# 38, SEE ATTACHED

Proposed Answer: B

Explanation (Optional): SEE ATTACHED

Technical Reference(s): EOP-1.3 Transfer to Containment Sump Recirculation - Low Head Injection and background  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 031.02.LP0435.010 (As available)

Question Source: Bank # INPO 27574  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge 1-P  
 Comprehension or Analysis \_\_\_\_\_

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Knowledge of the CSS (Containment Spray System) design feature(s) and/or interlock(s) which provide for the following: Sources of water for CSS, including recirculation phase after LOCA

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>2</u>	_____
	Group #	<u>1</u>	_____
	K/A #	<u>039.K1.01</u>	_____
	Importance Rating	<u>3.1</u>	_____

Proposed Question: RO# 39, SEE ATTACHED

Proposed Answer: B

Explanation (Optional): SEE ATTACHED

Technical Reference(s): STPT 2.2, Steam Line Isolation Setpoint document; 883D195  
Sh. 7 MSIV logic  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 031.02.LP0441.003 (As available)

Question Source: Bank # PBNP 2005  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam 2005

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 2-DR

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Knowledge of the physical connections and/or cause-effect relationships between the MRSS (Main and Reheat Steam) and the following systems: S/G

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>2</u>	_____
	Group #	<u>1</u>	_____
	K/A #	<u>039.K5.05</u>	_____
	Importance Rating	<u>2.7</u>	_____

Proposed Question: RO# 40, SEE ATTACHED

Proposed Answer: D

Explanation (Optional): SEE ATTACHED

Technical Reference(s): LP0448 Heatup and Cooldown Limitations  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 043.02.LP0448.004 (As available)

Question Source: Bank # TECH SPEC BANK  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge 1-B  
 Comprehension or Analysis \_\_\_\_\_

10 CFR Part 55 Content: 55.41 \_\_\_\_\_  
 55.43 \_\_\_\_\_

K/A Statement: Knowledge of the operations implications of the following concepts as they apply to the MRSS (Main and Reheat Steam): Bases for RCS cooldown limits



Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>2</u>	_____
	Group #	<u>1</u>	_____
	K/A #	<u>059.K3.04</u>	_____
	Importance Rating	<u>3.6</u>	_____

Proposed Question: RO# 41, SEE ATTACHED

Proposed Answer: B

Explanation (Optional): SEE ATTACHED

Technical Reference(s): AOP-5B Loss of Instrument or Service Air Attachment T;  
1C03 1E2 1-4 ARB; 883D195 Sh.10 Main Feed Reg Valve  
logic; LP2462 FSAR Secondary Transient Analysis  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 043.02.LP2462.004 (As available)

Question Source: Bank # INPO 26113  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 2-RI

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Knowledge of the effect that a loss or malfunction of the MFW will have on the following: RCS

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>2</u>	_____
	Group #	<u>1</u>	_____
	K/A #	<u>059.A1.03</u>	_____
	Importance Rating	<u>2.7</u>	_____

Proposed Question: RO# 42, SEE ATTACHED

Proposed Answer: C

Explanation (Optional): SEE ATTACHED

Technical Reference(s): AOP-2B Feedwater System Malfunction Step 8a  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 055.03.LP2439.004 (As available)

Question Source: Bank # PBNP 2007  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam 2007

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge 1-P  
 Comprehension or Analysis \_\_\_\_\_

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Ability to predict and/or monitor changes in parameters (to prevent exceeding design limits) associated with operating the MFW controls including: Power level restrictions for operation of MFW pumps and valves

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>2</u>	_____
	Group #	<u>1</u>	_____
	K/A #	<u>061.K4.09</u>	
	Importance Rating	<u>3.7</u>	_____

Proposed Question: RO# 43, SEE ATTACHED

Proposed Answer: D

Explanation (Optional): SEE ATTACHED

Technical Reference(s): CSP-H.1, Loss of Heat Sink; Master Data Book 3.2.1(1A-06), 3.2.2(2A-05), 3.2.4(2B-04); M-217 Sh. 1 Aux Feedwater System; M-217 Sh. 2 Aux Feedwater System; M-2217 Aux Feedwater System  
 (Attach if not previously provided)

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 052.05.LP0169.003 (As available)

Question Source: Bank # \_\_\_\_\_  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New NEW

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 2-RI

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Knowledge of AFW design feature(s) and/or interlock(s) which provide for the following: Crossties between multi-unit station

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>2</u>	_____
	Group #	<u>1</u>	_____
	K/A #	<u>061.A2.07</u>	_____
	Importance Rating	<u>3.4</u>	_____

Proposed Question: RO# 44, SEE ATTACHED

Proposed Answer: D

Explanation (Optional): SEE ATTACHED

Technical Reference(s): ARP 1C03 1D 1-8 1P-53 AFP Low Suction Pressure Trip;  
 (Attach if not previously West. 833D195 Sh. 27; OM 3.7, AOP and EOP Procedure  
 provided) Usage for Response to Plant Transients; STPT 14.11 Aux  
Feedwater

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 052.05.LP0169.006 (As available)

Question Source: Bank # \_\_\_\_\_  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New NEW

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 2-RI

10 CFR Part 55 Content: 55.41 X  
 55.43 X

K/A Statement: Ability to (a) predict the impacts of the following malfunctions or operations on the AFW; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those malfunctions or operation: Air or MOV failure

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>2</u>	<u>          </u>
	Group #	<u>1</u>	<u>          </u>
	K/A #	<u>062.A1.01</u>	<u>          </u>
	Importance Rating	<u>3.4</u>	<u>          </u>

Proposed Question: RO# 45, SEE ATTACHED

Proposed Answer: C

Explanation (Optional): SEE ATTACHED

Technical Reference(s): TS-81 Emergency Diesel Generator G-01 Monthly test  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 054.02.LP0133.006 (As available)

Question Source: Bank # \_\_\_\_\_  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New NEW

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge 1-P  
 Comprehension or Analysis \_\_\_\_\_

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Ability to predict and/or monitor changes in parameters (to prevent exceeding design limits) associated with operating the AC Distribution System controls including: Significance of D/G load limits

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>2</u>	_____
	Group #	<u>1</u>	_____
	K/A #	<u>062.A3.05</u>	_____
	Importance Rating	<u>3.5</u>	_____

Proposed Question: RO# 46, SEE ATTACHED

Proposed Answer: B

Explanation (Optional): SEE ATTACHED

Technical Reference(s): PBF-7033, PBNP Electrical Drawing; LP0007 4160 VAC  
Distribution; LP0133 Emergency Diesel Generators  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 054.01.LP0007.004 (As available)

Question Source: Bank # \_\_\_\_\_  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New NEW

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge 1-F  
 Comprehension or Analysis \_\_\_\_\_

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Ability to monitor automatic operation of the AC Distribution system, including: Safety-related indicators and controls.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>2</u>	_____
	Group #	<u>1</u>	_____
	K/A #	<u>063.K2.01</u>	_____
	Importance Rating	<u>2.9</u>	_____

Proposed Question: RO# 47, SEE ATTACHED

Proposed Answer: A

Explanation (Optional): SEE ATTACHED

Technical Reference(s): AOP 0.0, Vital DC System Malfunction; LP0121 DC  
Distribution System  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 055.03.LP3456.001 (As available)

Question Source: Bank # PBNP 2002  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam 2002

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge 1-F  
 Comprehension or Analysis \_\_\_\_\_

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Knowledge of bus power supplies to the following: Major DC loads.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>2</u>	<u>          </u>
	Group #	<u>1</u>	<u>          </u>
	K/A #	<u>063.A4.03</u>	<u>          </u>
	Importance Rating	<u>3.0</u>	<u>          </u>

Proposed Question: RO# 48, SEE ATTACHED

Proposed Answer: D

Explanation (Optional): SEE ATTACHED

Technical Reference(s): ARP 2C20 A 2-2 D-01/D-03 125V DC Bus Under/Over  
Voltage; ARP 2C20 A 1-1 D07 Battery Charger Trouble  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 054.01.LP0121.006 (As available)

Question Source: Bank # PBNP 2007  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam 2007

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 2-RI

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Ability to manually operate and/or monitor in the control room: Battery discharge rate



Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>2</u>	_____
	Group #	<u>1</u>	_____
	K/A #	<u>064.K6.08</u>	_____
	Importance Rating	<u>3.2</u>	_____

Proposed Question: RO# 49, SEE ATTACHED

Proposed Answer: A

Explanation (Optional): SEE ATTACHED

Technical Reference(s): Master Data Book 3.2.5 1B40 MCC; Master Data Book 3.2.6  
2B40 MCC; M-219 Sh. 3 Fuel Oil P&ID  
 (Attach if not previously provided) \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 054.02.LP0133.004 (As available)

Question Source: Bank # PBNP 2002  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam 2002

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 2-RI

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Knowledge of the effect of a loss or malfunction of the following will have on the ED/G system: Fuel oil storage tanks

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>2</u>	_____
	Group #	<u>1</u>	_____
	K/A #	<u>064.02.04.30</u>	_____
	Importance Rating	<u>2.7</u>	_____

Proposed Question: RO# 50, SEE ATTACHED

Proposed Answer: D

Explanation (Optional): SEE ATTACHED

Technical Reference(s): TS-84 Emergency Diesel Generator Monthly; NP 2.1.5  
Electrical Communications, Switchyard Access and Work  
Planning  
 (Attach if not previously provided)

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 054.02.LP0133.006 (As available)

Question Source: Bank # \_\_\_\_\_  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New NEW

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge 1-P  
 Comprehension or Analysis \_\_\_\_\_

10 CFR Part 55 Content: 55.41 X  
 55.43 X

K/A Statement: Emergency Diesel Generator - Knowledge of events related to system operation/status that must be reported to internal organizations or external agencies, such as the State, the NRC, or the transmission system operator.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>2</u>	_____
	Group #	<u>1</u>	_____
	K/A #	<u>073.K1.01</u>	_____
	Importance Rating	<u>3.6</u>	_____

Proposed Question: RO# 51, SEE ATTACHED

Proposed Answer: C

Explanation (Optional): SEE ATTACHED

Technical Reference(s): RMSASRB CI 2RE-219 SGBD Liquid Sample Line Monitor  
Unit 2; RMSASRB CI 2RE-222 SGBD Tank Area Monitor  
Unit 2  
 (Attach if not previously provided)

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 052.02.LP0037.004 (As available)

Question Source: Bank # PBNP 2005  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam 2005

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge 1-I  
 Comprehension or Analysis \_\_\_\_\_

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Knowledge of the physical connections and/or cause effect relationships between the PRM (Process Radiation Monitoring) system and the following systems: Those systems served by PRMs.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>2</u>	_____
	Group #	<u>1</u>	_____
	K/A #	<u>073.A2.02</u>	_____
	Importance Rating	<u>2.7</u>	_____

Proposed Question: RO# 52, SEE ATTACHED

Proposed Answer: D

Explanation (Optional): SEE ATTACHED

Technical Reference(s): RMSASRB CI RE-214 Aux Building Vent Exhaust;  
RMSASRB 1.0 Generic RMS Alarm Response Guidelines  
 (Attach if not previously provided) \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 053.05.LP0286.004 (As available)

Question Source: Bank # \_\_\_\_\_  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New NEW

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 1-P

10 CFR Part 55 Content: 55.41 X  
 55.43 X

K/A Statement: Ability to (a) predict the impacts of the following malfunctions or operations on the PRM (Process Radiation Monitoring) system; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those malfunctions or operations: Detector failure.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>2</u>	_____
	Group #	<u>1</u>	_____
	K/A #	<u>076.K2.04</u>	_____
	Importance Rating	<u>2.5</u>	_____

Proposed Question: RO# 53, SEE ATTACHED

Proposed Answer: C

Explanation (Optional): SEE ATTACHED

Technical Reference(s): Master Data Book 3.2.6 2B32; Master Data Book 3.2.6 2B42;  
883D195 Sh. SI logic  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 051.06.LP0086.004 (As available)

Question Source: Bank # \_\_\_\_\_  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New NEW

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 2-RI

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Knowledge of bus power supplies to the following: Reactor building closed cooling water (Service Water)

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>2</u>	_____
	Group #	<u>1</u>	_____
	K/A #	<u>078.K3.02</u>	_____
	Importance Rating	<u>3.4</u>	_____

Proposed Question: RO# 54, SEE ATTACHED

Proposed Answer: D

Explanation (Optional): SEE ATTACHED

Technical Reference(s): AOP-5B Loss of Instrument or Service Air  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 052.06.LP0338.007 (As available)

Question Source: Bank # PBNP 2007  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam 2007

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 2-RI

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Knowledge of the effect that a loss or malfunction of the Instrument Air System will have on the following: Systems having pneumatic valves and controls

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>2</u>	_____
	Group #	<u>1</u>	_____
	K/A #	<u>103.K4.06</u>	_____
	Importance Rating	<u>3.1</u>	_____

Proposed Question: RO# 55, SEE ATTACHED

Proposed Answer: A

Explanation (Optional): SEE ATTACHED

Technical Reference(s): Logic Drawing 883D195 Sh. 7, Containment Isolation  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 053.06.LP0486.14 (As available)

Question Source: Bank # PBNP 2007  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam 2007

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge 1-F  
 Comprehension or Analysis \_\_\_\_\_

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Knowledge of containment system design feature(s) and/or interlock(s) which provide for the following: Containment isolation system.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>2</u>	<u>          </u>
	Group #	<u>2</u>	<u>          </u>
	K/A #	<u>001.K2.01</u>	<u>          </u>
	Importance Rating	<u>3.5</u>	<u>          </u>

Proposed Question: RO# 56, SEE ATTACHED

Proposed Answer: B

Explanation (Optional): SEE ATTACHED

Technical Reference(s): OI-31 Rod Drive Motor Generator Set; LP0131 Rod Drive  
MG Sets  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 054.04.LP0213.002 (As available)

Question Source: Bank # \_\_\_\_\_  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New NEW

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge 1-I  
 Comprehension or Analysis \_\_\_\_\_

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Knowledge of bus power supplies to the following: One-line diagram of power supply to M/G sets.



Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>2</u>	_____
	Group #	<u>2</u>	_____
	K/A #	<u>014.K1.02</u>	_____
	Importance Rating	<u>3.0</u>	_____

Proposed Question: RO# 57, SEE ATTACHED

Proposed Answer: B

Explanation (Optional): SEE ATTACHED

Technical Reference(s): OP-1B Reactor Startup  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 055.03.LP2441.003 (As available)

Question Source: Bank # INPO 27672  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 2-DR

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Knowledge of the physical connections and/or cause effect relationships between the RPIS and the following systems: NIS

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>2</u>	<u>          </u>
	Group #	<u>2</u>	<u>          </u>
	K/A #	<u>016.K4.03</u>	<u>          </u>
	Importance Rating	<u>2.8</u>	<u>          </u>

Proposed Question: RO# 58, SEE ATTACHED

Proposed Answer: A

Explanation (Optional): SEE ATTACHED

Technical Reference(s): Logic Drawing Sh. 23, LOFWTT; STPT 15.1, Turbine Trips,  
Alarms and AMSAC  
 (Attach if not previously  
 provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 053.02.LP1828.002 (As available)

Question Source: Bank # PBNP 2007  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam 2007

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 2-DR

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Knowledge of NNIS (Non-Nuclear Instrumentation System) design feature(s) and/or interlock(s) which provide for the following: Input to control systems

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>2</u>	_____
	Group #	<u>2</u>	_____
	K/A #	<u>029.A1.03</u>	_____
	Importance Rating	<u>3.0</u>	_____

Proposed Question: RO# 59, SEE ATTACHED

Proposed Answer: C

Explanation (Optional): SEE ATTACHED

Technical Reference(s): LCO 3.6.4 Containment Pressure; LCO 3.6.5 Containment Temperature; PBF-2061 Control Room Shift Turnover Checklist  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 057.02.LP3342.002 (As available)

Question Source: Bank # INPO 26746  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge 1-P  
 Comprehension or Analysis \_\_\_\_\_

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Ability to predict and/or monitor changes in parameters (to prevent exceeding design limits) associated with operating the Containment Purge System controls including: Containment pressure, temperature, and humidity

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>2</u>	_____
	Group #	<u>2</u>	_____
	K/A #	<u>035.K5.03</u>	_____
	Importance Rating	<u>2.8</u>	_____

Proposed Question: RO# 60, SEE ATTACHED

Proposed Answer: B

Explanation (Optional): SEE ATTACHED

Technical Reference(s): LP0446 S/G Transient Response  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 043.01.LP0446.003 (As available)

Question Source: Bank # INPO 24696  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge 1-F  
 Comprehension or Analysis \_\_\_\_\_

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Knowledge of operational implications of the following concepts as they apply to the S/Gs: Shrink and swell concept

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>2</u>	_____
	Group #	<u>2</u>	_____
	K/A #	<u>055.K3.01</u>	_____
	Importance Rating	<u>2.5</u>	_____

Proposed Question: RO# 61, SEE ATTACHED

Proposed Answer: D

Explanation (Optional): SEE ATTACHED

Technical Reference(s): LP2439 Secondary Coolant Malfunctions  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 055.03.LP2439.004 (As available)

Question Source: Bank # INPO 23359  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 2-DR

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Knowledge of the effect that a loss or malfunction of the CARS (Condenser Air Removal system) will have on the following: Main condenser

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>2</u>	_____
	Group #	<u>2</u>	_____
	K/A #	<u>068.A2.02</u>	_____
	Importance Rating	<u>2.7</u>	_____

Proposed Question: RO# 62, SEE ATTACHED

Proposed Answer: D

Explanation (Optional): SEE ATTACHED

Technical Reference(s): OI-140B Standard Radioactive Batch Liquid Release-Waste Distillate Tanks; RAM 3.1.1 Restarting a Liquid Batch Release  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 051.04.LP0063.004 (As available)

Question Source: Bank # INPO 24086  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge 1-P  
 Comprehension or Analysis \_\_\_\_\_

10 CFR Part 55 Content: 55.41 X  
 55.43 X

K/A Statement: Ability to (a) predict the impacts of the following malfunctions or operations on the Liquid Radwaste System ; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those malfunctions or operations: Lack of tank recirculation prior to release.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>2</u>	<u>          </u>
	Group #	<u>2</u>	<u>          </u>
	K/A #	<u>072.A3.01</u>	<u>          </u>
	Importance Rating	<u>2.9</u>	<u>          </u>

Proposed Question: RO# 63, SEE ATTACHED

Proposed Answer: A

Explanation (Optional): SEE ATTACHED

Technical Reference(s): Logic Drawing 883D195 Sh. 21 Containment Isolation/Containment Ventilation Isolation; Logic Drawing 883D195 Sh. 7 Safeguards Actuation Signals; RMSARB 1RE-305, Containment Purge Exhaust Low Range Gas Monitor; Drawing M-215 Sh. 1, Containment Ventilation D  
 (Attach if not previously provided)

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 051.05.LP0057.004 (As available)

Question Source: Bank # PBNP 2007  
 Modified Bank                      (Note changes or attach parent)  
 New                                     

Question History: Last NRC Exam 2007

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge 1-I  
 Comprehension or Analysis                     

10 CFR Part 55 Content: 55.41 X  
 55.43                     

K/A Statement: Ability to monitor automatic operation of the ARM (Area Radiation Monitoring) system, including: Changes in ventilation alignment.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>2</u>	_____
	Group #	<u>2</u>	_____
	K/A #	<u>079.A4.01</u>	_____
	Importance Rating	<u>2.7</u>	_____

Proposed Question: RO# 64, SEE ATTACHED

Proposed Answer: B

Explanation (Optional): SEE ATTACHED

Technical Reference(s): STPT 14.7 Instrument and Service Air  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 052.06.LP0338.004 (As available)

Question Source: Bank # \_\_\_\_\_  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New NEW

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 2-RI

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Ability to manually operate and/or monitor in the control room: Cross-tie valves with Instrument Air System



Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>2</u>	_____
	Group #	<u>2</u>	_____
	K/A #	<u>086.02.04.35</u>	_____
	Importance Rating	<u>3.8</u>	_____

Proposed Question: RO# 65, SEE ATTACHED

Proposed Answer: B

Explanation (Optional): SEE ATTACHED

Technical Reference(s): PC76 Part 7, Inspection of Fixed Automatic Dry Chemical Fire Extinguishing Systems; LP0003 Fire Protection System lesson plan  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 052.01.LP0003.007 (As available)

Question Source: Bank # \_\_\_\_\_  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New NEW

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge 1-P  
 Comprehension or Analysis \_\_\_\_\_

10 CFR Part 55 Content: 55.41 X  
 55.43 X

K/A Statement: Fire Protection - Knowledge of local auxiliary operator tasks during an emergency and the resultant operational effects.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>3</u>	<u>          </u>
	Group #	<u>          </u>	<u>          </u>
	K/A #	<u>02.01.06</u>	<u>          </u>
	Importance Rating	<u>3.8</u>	<u>          </u>

Proposed Question: RO# 66, SEE ATTACHED

Proposed Answer: B

Explanation (Optional): SEE ATTACHED

Technical Reference(s): OM 3.7, AOP and EOP Procedure Usage for Response to Plant Transients  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 02.01.06 (As available)

Question Source: Bank # \_\_\_\_\_  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New NEW

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge 1-P  
 Comprehension or Analysis \_\_\_\_\_

10 CFR Part 55 Content: 55.41 X  
 55.43 X

K/A Statement: Ability to manage the control room crew during plant transients.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>3</u>	_____
	Group #	_____	_____
	K/A #	<u>02.01.26</u>	_____
	Importance Rating	<u>3.4</u>	_____

Proposed Question: RO# 67, SEE ATTACHED

Proposed Answer: D

Explanation (Optional): SEE ATTACHED

Technical Reference(s): OP-AA-101-1000 Fleet Clearance and Tagging Section 2.0  
Terms and Definitions for Hazardous Energy and High  
Energy System  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 02.01.26 (As available)

Question Source: Bank # ADMIN BANK  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge 1-P  
 Comprehension or Analysis \_\_\_\_\_

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Knowledge of industrial safety procedures (such as rotating equipment, electrical, high temperature, high pressure, caustic, chlorine, oxygen and hydrogen)

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>3</u>	_____
	Group #	_____	_____
	K/A #	<u>02.02.17</u>	_____
	Importance Rating	<u>2.6</u>	_____

Proposed Question: RO# 68, SEE ATTACHED

Proposed Answer: D

Explanation (Optional): SEE ATTACHED

Technical Reference(s): NP 2.1.8 Guarded Equipment  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 02.02.17 (As available)

Question Source: Bank # LOC BANK  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge 1-P  
 Comprehension or Analysis \_\_\_\_\_

10 CFR Part 55 Content: 55.41 X  
 55.43 X

K/A Statement: Knowledge of the process for managing maintenance activities during power operations, such as risk assessments, work prioritization, and coordination with the transmission system operator

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>3</u>	_____
	Group #	_____	_____
	K/A #	<u>02.02.21</u>	_____
	Importance Rating	<u>2.9</u>	_____

Proposed Question: RO# 69, SEE ATTACHED

Proposed Answer: B

Explanation (Optional): SEE ATTACHED

Technical Reference(s): PC97 Part 1 Service Water Flush 'A' Accidnet Fan; IT 08A Cold Start 1P-29 TDAFW Pump; IT 07G Service Water Valves Quarterly; IT 01 Train A High Head SI Pumps and Valves Train A  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 02.02.21 (As available)

Question Source: Bank # \_\_\_\_\_  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New NEW

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge 1-P  
 Comprehension or Analysis \_\_\_\_\_

10 CFR Part 55 Content: 55.41 X  
 55.43 X

K/A Statement: Knowledge of pre- and post-maintenance operability requirements

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>3</u>	_____
	Group #	_____	_____
	K/A #	<u>02.02.41</u>	_____
	Importance Rating	<u>3.5</u>	_____

Proposed Question: RO# 70, SEE ATTACHED

Proposed Answer: C

Explanation (Optional): SEE ATTACHED

Technical Reference(s): 883D195 Logic Sheet 20 & 26; LP0169 Auxiliary Feedwater  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: 883D195 SHEET 20

Learning Objective: 052.05.LP0169.004 (As available)

Question Source: Bank # BANK LOC  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 3-SPR

10 CFR Part 55 Content: 55.41 X  
 55.43 \_\_\_\_\_

K/A Statement: Ability to obtain and interpret station electrical and mechanical drawings.

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ES-401

Written Examination Question Worksheet

Form-401-5

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Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>3</u>	_____
	Group #	_____	_____
	K/A #	<u>02.03.12</u>	_____
	Importance Rating	<u>3.2</u>	_____

Proposed Question: RO# 71, SEE ATTACHED

Proposed Answer: B

Explanation (Optional): SEE ATTACHED

Technical Reference(s): **0-SOP-FH-001 Fuel/Insert/Component Movement in the SFP  
or New Fuel vault P&L 3.4.1**  
(Attach if not previously  
provided) \_\_\_\_\_  
\_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 112.01.LP0260.001 (As available)

Question Source: Bank # PBNP 2009  
Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
New \_\_\_\_\_

Question History: Last NRC Exam 2009

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge 1-B  
Comprehension or Analysis \_\_\_\_\_

10 CFR Part 55 Content: 55.41 X  
55.43 \_\_\_\_\_

K/A Statement: Knowledge of radiological safety principles pertaining to licensed operator duties, such as containment entry requirements, fuel handling responsibilities, access to locked high-radiation areas, aligning filters, etc

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>3</u>	_____
	Group #	_____	_____
	K/A #	<u>02.03.13</u>	_____
	Importance Rating	<u>3.4</u>	_____

Proposed Question: RO# 72, SEE ATTACHED

Proposed Answer: B

Explanation (Optional): SEE ATTACHED

Technical Reference(s): RP-1C, Refueling P&L 3.3.5  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 055.02.LP2186.001 (As available)

Question Source: Bank # PBNP 2005  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam 2005

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 2-DR

10 CFR Part 55 Content: 55.41 X  
 55.43 X

K/A Statement: Knowledge of radiological safety procedures pertaining to licensed operator duties, such as response to radiation monitor alarms, containment entry requirements, fuel handling responsibilities, access to locked high-radiation areas, aligning filters, etc



Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>3</u>	<u>          </u>
	Group #	<u>          </u>	<u>          </u>
	K/A #	<u>02.03.14</u>	<u>          </u>
	Importance Rating	<u>3.4</u>	<u>          </u>

Proposed Question: RO# 73, SEE ATTACHED

Proposed Answer: A

Explanation (Optional): SEE ATTACHED

Technical Reference(s): EOP-3, Steam Generator Tube Rupture Background Step 11  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 031.02.LP0441.002 (As available)

Question Source: Bank # INPO 19590  
 Modified Bank            (Note changes or attach parent)  
 New           

Question History: Last NRC Exam           

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge 1-B  
 Comprehension or Analysis           

10 CFR Part 55 Content: 55.41 X  
 55.43 X

K/A Statement: Knowledge of radiation or contamination hazards that may arise during normal, abnormal, or emergency conditions or activities

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>3</u>	<u>          </u>
	Group #	<u>          </u>	<u>          </u>
	K/A #	<u>02.04.34</u>	<u>          </u>
	Importance Rating	<u>4.2</u>	<u>          </u>

Proposed Question: RO# 74, SEE ATTACHED

Proposed Answer: B

Explanation (Optional): SEE ATTACHED

Technical Reference(s): AOP-10A, Safe Shutdown - Local Control; Master Data Book 3.2.1 1A05; Master Data Book 3.2.1 1A06; Master Data Book 3.2.2 2A05; Master Data Book 3.2.2 2A06  
 (Attach if not previously provided)

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 055.03.LP1275.001 (As available)

Question Source: Bank # PBNP 2007  
 Modified Bank            (Note changes or attach parent)  
 New           

Question History: Last NRC Exam 2007

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge             
 Comprehension or Analysis 2-DS

10 CFR Part 55 Content: 55.41 X  
 55.43 X

K/A Statement: Knowledge of RO tasks performed outside the main control room during an emergency and the resultant operational effects.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	<u>3</u>	_____
	Group #	_____	_____
	K/A #	<u>02.04.41</u>	_____
	Importance Rating	<u>2.9</u>	_____

Proposed Question: RO# 75, SEE ATTACHED

Proposed Answer: C

Explanation (Optional): SEE ATTACHED

Technical Reference(s): EPIP 1.2.1 Emergency Action Level Technical Basis  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: PBN BEP.061.005L.005 (As available)

Question Source: Bank # LOC BANK  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 2-DR

10 CFR Part 55 Content: 55.41 X  
 55.43 X

K/A Statement: Knowledge of the emergency action level thresholds and classifications

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	_____	<u>1</u>
	Group #	_____	<u>1</u>
	K/A #	<u>026.AA2.02</u>	
	Importance Rating	_____	<u>3.6</u>

Proposed Question: SRO# 1, SEE ATTACHED

Proposed Answer: D

Explanation (Optional): SEE ATTACHED

Technical Reference(s): AOP-1A, Reactor Coolant Leak; AOP-9B, Attachment B, B3  
 (Attach if not previously provided)

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 055.03.LP2444.008 (As available)

Question Source: Bank # \_\_\_\_\_  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New NEW

Question History: Last NRC Exam NEW

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 3-SPK

10 CFR Part 55 Content: 55.41 \_\_\_\_\_  
 55.43 X

KA Statement: Ability to determine and interpret the following as they apply to the Loss of Component Cooling Water: The cause of possible CCW loss.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	_____	<u>1</u>
	Group #	_____	<u>1</u>
	K/A #	<u>029.02.04.09</u>	
	Importance Rating	_____	<u>4.2</u>

Proposed Question: SRO# 2, SEE ATTACHED

Proposed Answer: C

Explanation (Optional): SEE ATTACHED

Technical Reference(s): CSP-S.1 Response to Nuclear Generation/ATWS, Step 20  
 (Attach if not previously provided)

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 043.03.LP1996.011 (As available)

Question Source: Bank # \_\_\_\_\_  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New NEW

Question History: Last NRC Exam NEW

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 3-SPK

10 CFR Part 55 Content: 55.41 X  
 55.43 X

KA Statement: ATWS - Knowledge of low power/shutdown implications in accident (e.g., loss of coolant accident or loss of residual heat removal) mitigation strategies.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	_____	<u>1</u>
	Group #	_____	<u>1</u>
	K/A #	<u>038.EA2.07</u>	
	Importance Rating	_____	<u>4.8</u>

Proposed Question: SRO# 3, SEE ATTACHED

Proposed Answer: C

Explanation (Optional): SEE ATTACHED

Technical Reference(s): EOP-3 Steam Generator Tube Rupture, Step 37 and bases  
 (Attach if not previously provided)

Proposed references to be provided to applicants during examination: EOP-3 Step 37

Learning Objective: 031.02.LP0441.013 (As available)

Question Source: Bank # LOC BANK  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 2-RI

10 CFR Part 55 Content: 55.41 \_\_\_\_\_  
 55.43 X

KA Statement: Ability to determine or interpret the following as they apply to a SGTR: Plant conditions, from survey of control room indications.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	_____	<u>1</u>
	Group #	_____	<u>1</u>
	K/A #	<u>054.02.02.40</u>	
	Importance Rating	_____	<u>4.7</u>

Proposed Question: SRO# 4, SEE ATTACHED

Proposed Answer: D

Explanation (Optional): SEE ATTACHED

Technical Reference(s): LCO 3.7.3 MFIV, MFRV, and MFRV Bypass's with associated bases  
 (Attach if not previously provided)

Proposed references to be provided to applicants during examination: LCO 3.7.3

Learning Objective: 057.03.LP3343.002 (As available)

Question Source: Bank # \_\_\_\_\_  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New NEW

Question History: Last NRC Exam NEW

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 3-SPR

10 CFR Part 55 Content: 55.41 X  
 55.43 X

KA Statement: Loss of Main Feedwater - Ability to apply technical specifications for a system.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	_____	<u>1</u>
	Group #	_____	<u>1</u>
	K/A #	<u>056.AA2.21</u>	
	Importance Rating	_____	<u>3.8</u>

Proposed Question: SRO# 5, SEE ATTACHED

Proposed Answer: B

Explanation (Optional): SEE ATTACHED

Technical Reference(s): ECA-0.0 Loss of All AC, Step 9 and Bases  
 (Attach if not previously provided)

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 031.02.LP0462.007 (As available)

Question Source: Bank # \_\_\_\_\_  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New NEW

Question History: Last NRC Exam NEW

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 3-SPK

10 CFR Part 55 Content: 55.41 \_\_\_\_\_  
 55.43 X

KA Statement: Ability to determine and interpret the following as they apply to the Loss of Offsite Power: ED/G frequency and voltage indicators.



Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	_____	<u>1</u>
	Group #	_____	<u>1</u>
	K/A #	<u>058.02.01.32</u>	
	Importance Rating	_____	<u>4.0</u>

Proposed Question: SRO# 6, SEE ATTACHED

Proposed Answer: A

Explanation (Optional): SEE ATTACHED

Technical Reference(s): LCO 3.8.4 DC Sources - Operating and bases; 0-SOP-DC-003  
125 VDC System Bus D03 and Components; AOP-0.0 Vital  
DC Malfunctions  
 (Attach if not previously provided)

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 057.02.LP3344.002 (As available)

Question Source: Bank # \_\_\_\_\_  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New NEW

Question History: Last NRC Exam NEW

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 3-SPK

10 CFR Part 55 Content: 55.41 X  
 55.43 X

KA Statement: Loss of DC Power - Ability to explain and apply system limits and precautions.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	_____	<u>1</u>
	Group #	_____	<u>2</u>
	K/A #	<u>005.AA2.03</u>	
	Importance Rating	_____	<u>4.4</u>

Proposed Question: SRO# 7, SEE ATTACHED

Proposed Answer: C

Explanation (Optional): SEE ATTACHED

Technical Reference(s): LCO 3.1.4 Rod Group Alignment Limits and bases  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: LCO 3.1.4

Learning Objective: 057.02.LP3338.003 (As available)

Question Source: Bank # TS BANK  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 3-SPR

10 CFR Part 55 Content: 55.41 \_\_\_\_\_  
 55.43 X

KA Statement: Ability to determine and interpret the following as they apply to the Inoperable / Stuck Control Rod: Required actions if more than one rod is stuck or inoperable.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	_____	<u>1</u>
	Group #	_____	<u>2</u>
	K/A #	<u>060.02.04.18</u>	
	Importance Rating	_____	<u>4.0</u>

Proposed Question: SRO# 8, SEE ATTACHED

Proposed Answer: B

Explanation (Optional): SEE ATTACHED

Technical Reference(s): EOP-1.3 Transfer to Containment Sump Recirculation - Low Head Injection, Step 30 background; LCO 3.7.14 Primary Auxiliary Ventilation and associated Bases  
 (Attach if not previously provided)

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 057.02.LP3343.002 (As available)

Question Source: Bank # \_\_\_\_\_  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New NEW

Question History: Last NRC Exam NEW

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 2-RI

10 CFR Part 55 Content: 55.41 X  
 55.43 X

KA Statement: Accidental Gaseous Radwaste Release - Knowledge of the specific bases for EOPs.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	_____	<u>1</u>
	Group #	_____	<u>2</u>
	K/A #	<u>067.AA2.13</u>	
	Importance Rating	_____	<u>4.4</u>

Proposed Question: SRO# 9, SEE ATTACHED

Proposed Answer: A

Explanation (Optional): SEE ATTACHED

Technical Reference(s): AOP-10A Safe Shutdown - Local Control and bases  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 055.03.LP1275.001 (As available)

Question Source: Bank # \_\_\_\_\_  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New NEW

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge 1-P  
 Comprehension or Analysis \_\_\_\_\_

10 CFR Part 55 Content: 55.41 \_\_\_\_\_  
 55.43 X

KA Statement: Ability to determine and interpret the following as they apply to the Plant Fire on Site: Need for emergency shutdown.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	_____	<u>1</u>
	Group #	_____	<u>2</u>
	K/A #	<u>WE13.02.04.47</u>	
	Importance Rating	_____	<u>4.2</u>

Proposed Question: SRO# 10, SEE ATTACHED

Proposed Answer: A

Explanation (Optional): SEE ATTACHED

Technical Reference(s): CSP-ST.0 Critical Safety Function Trees; OM 3.7 AOP and EOP Procedure Use and Adherence  
 (Attach if not previously provided) \_\_\_\_\_

Proposed references to be provided to applicants during examination: CSP-ST.0 Figs. 1 - 3

Learning Objective: 043.03.LP1995.011 (As available)

Question Source: Bank # \_\_\_\_\_  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New NEW

Question History: Last NRC Exam NEW

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 3-SPR

10 CFR Part 55 Content: 55.41 X  
 55.43 X

KA Statement: Steam Generator Over-Pressure - Ability to diagnose and recognize trends in an accurate and timely manner utilizing the appropriate control room reference material.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	_____	<u>2</u>
	Group #	_____	<u>2</u>
	K/A #	<u>013.A2.01</u>	
	Importance Rating	_____	<u>4.8</u>

Proposed Question: SRO# 11, SEE ATTACHED

Proposed Answer: D

Explanation (Optional): SEE ATTACHED

Technical Reference(s): EOP-1 Loss of Reactor or Secondary Coolant; EOP-1.3  
Transfer to Containment Sump Recirculation - Low Head  
Injection and associated bases  
 (Attach if not previously provided)

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 031.02.LP0435.010 (As available)

Question Source: Bank # \_\_\_\_\_  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New NEW

Question History: Last NRC Exam NEW

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 3-SPK

10 CFR Part 55 Content: 55.41 X  
 55.43 X

KA Statement: Ability to (a) predict the impacts of the following malfunctions or operations on the ESFAS; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those malfunctions or operations: LOCA

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	_____	<u>2</u>
	Group #	_____	<u>2</u>
	K/A #	<u>039.02.02.44</u>	
	Importance Rating	_____	<u>4.4</u>

Proposed Question: SRO# 12, SEE ATTACHED

Proposed Answer: B

Explanation (Optional): SEE ATTACHED

Technical Reference(s): AOP-24 Response to Instrument Malfunctions; ARP 1C03  
1E2 1-2 Steam Generator 'A' Level Setpoint  
Deviation/Trouble; ARP 1C03 1E2 3-2 Steam Generator 'A'  
Feedwater Flow Channel Alert  
 (Attach if not previously provided)

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 055.03.LP3455.002 (As available)

Question Source: Bank # INPO 29497  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 2-RI

10 CFR Part 55 Content: 55.41 X  
 55.43 X

KA Statement: Main and Reheat Steam - Ability to interpret control room indications to verify the status and operation of a system, and understand how operator actions and directives affect plant and system conditions.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	_____	<u>2</u>
	Group #	_____	<u>2</u>
	K/A #	<u>007.A2.03</u>	
	Importance Rating	_____	<u>3.9</u>

Proposed Question: SRO# 13, SEE ATTACHED

Proposed Answer: D

Explanation (Optional): SEE ATTACHED

Technical Reference(s): EOP-0 Reactor Trip or Safety Injection Step 9 RNO; ARB  
1C04 1C 1-1 "1T-2 PRT Press High Temp Hi Level Hi or Lo"  
 (Attach if not previously provided) \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 043.03.LP1998.006 (As available)

Question Source: Bank # \_\_\_\_\_  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New NEW

Question History: Last NRC Exam NEW

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 2-RI

10 CFR Part 55 Content: 55.41 X  
 55.43 X

KA Statement: Ability to (a) predict the impacts of the following malfunctions or operations on the PRT; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those malfunctions or operations: Overpressurization of the PZR.



Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	_____	<u>2</u>
	Group #	_____	<u>2</u>
	K/A #	<u>076.02.01.20</u>	
	Importance Rating	_____	<u>4.6</u>

Proposed Question: SRO# 14, SEE ATTACHED

Proposed Answer: D

Explanation (Optional): SEE ATTACHED

Technical Reference(s): OI-70 Service Water System Operation  
 (Attach if not previously provided)

Proposed references to be provided to applicants during examination: OI-70 Att D and Figure 1

Learning Objective: 051.06.LP0086.006 (As available)

Question Source: Bank # LOC  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 3-SPR

10 CFR Part 55 Content: 55.41 X  
 55.43 X

KA Statement: Service Water - Ability to interpret and execute procedure steps.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	_____	<u>2</u>
	Group #	_____	<u>2</u>
	K/A #	<u>103.02.04.06</u>	
	Importance Rating	_____	<u>4.7</u>

Proposed Question: SRO# 15, SEE ATTACHED

Proposed Answer: B

Explanation (Optional): SEE ATTACHED

Technical Reference(s): EOP-1.3 Transfer to Containment Sump Recirculation - Low Head Injection; ECA-1.3 Containment Sump Blockage  
 (Attach if not previously provided) \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 031.02.LP0465.001 (As available)

Question Source: Bank # INPO 27517  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 3-SPK

10 CFR Part 55 Content: 55.41 X  
 55.43 X

KA Statement: Containment - Knowledge of EOP mitigation strategies.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	_____	<u>2</u>
	Group #	_____	<u>2</u>
	K/A #	<u>001.A2.14</u>	
	Importance Rating	_____	<u>3.9</u>

Proposed Question: SRO# 16, SEE ATTACHED

Proposed Answer: C

Explanation (Optional): SEE ATTACHED

Technical Reference(s): AOP-6A Dropped Rod; ARB 2C04 2A 1-6 Rod Control  
System Urgent Failure  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 055.03.LP2441.002 (As available)

Question Source: Bank # \_\_\_\_\_  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New NEW

Question History: Last NRC Exam NEW

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge 1-P  
 Comprehension or Analysis \_\_\_\_\_

10 CFR Part 55 Content: 55.41 X  
 55.43 X

KA Statement: Ability to (a) predict the impacts of the following malfunction or operations on the CRDS- and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those malfunctions or operations: Urgent failure alarm, including rod-out-of-sequence and motion-inhibit alarms.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	_____	<u>2</u>
	Group #	_____	<u>2</u>
	K/A #	<u>027.02.02.25</u>	
	Importance Rating	_____	<u>4.2</u>

Proposed Question: SRO# 17, SEE ATTACHED

Proposed Answer: C

Explanation (Optional): SEE ATTACHED

Technical Reference(s): LCO 3.6.7 Spray Additive System Bases  
 (Attach if not previously provided)

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 057.01.LP3336.017 (As available)

Question Source: Bank # \_\_\_\_\_  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New NEW

Question History: Last NRC Exam NEW

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 1-B

10 CFR Part 55 Content: 55.41 X  
 55.43 X

KA Statement: Containment Iodine Removal - Knowledge of the bases in Technical Specifications for limiting conditions for operations and safety limits.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	_____	<u>2</u>
	Group #	_____	<u>2</u>
	K/A #	<u>056.02.01.07</u>	
	Importance Rating	_____	<u>4.7</u>

Proposed Question: SRO# 18, SEE ATTACHED

Proposed Answer: D

Explanation (Optional): SEE ATTACHED

Technical Reference(s): AOP-2B Feedwater System Malfunction  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 055.03.LP2439.005 (As available)

Question Source: Bank # \_\_\_\_\_  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New NEW

Question History: Last NRC Exam NEW

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 2-RI

10 CFR Part 55 Content: 55.41 X  
 55.43 X

KA Statement: Condensate - Ability to evaluate plant performance and make operational judgements based on operating characteristics, reactor behavior, and instrument interpretation.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	_____	<u>3</u>
	Group #	_____	_____
	K/A #	<u>02.01.35</u>	
	Importance Rating	_____	<u>3.9</u>

Proposed Question: SRO# 19, SEE ATTACHED

Proposed Answer: C

Explanation (Optional): SEE ATTACHED

Technical Reference(s): RP-1C Refueling Precaution and Limitation 3.2.11  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 112.01.LP0285.002 (As available)

Question Source: Bank # \_\_\_\_\_  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New NEW

Question History: Last NRC Exam NEW

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge 1-P  
 Comprehension or Analysis \_\_\_\_\_

10 CFR Part 55 Content: 55.41 X  
 55.43 X

KA Statement: Knowledge of the fuel-handling responsibilities of SROs.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	_____	<u>3</u>
	Group #	_____	_____
	K/A #	<u>02.02.07</u>	
	Importance Rating	_____	<u>3.6</u>

Proposed Question: SRO# 20, SEE ATTACHED

Proposed Answer: C

Explanation (Optional): SEE ATTACHED

Technical Reference(s): FP-E-SE-03, 10CFR50.59 Applicability, Screening and Evaluation  
 (Attach if not previously provided) \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: SD 86.02.07 (As available)

Question Source: Bank # PBNP 2005 SRO  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam 2005

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge 1-P  
 Comprehension or Analysis \_\_\_\_\_

10 CFR Part 55 Content: 55.41 X  
 55.43 X

KA Statement: Knowledge of the process for conducting special or infrequent tests.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	_____	<u>3</u>
	Group #	_____	_____
	K/A #	<u>02.02.35</u>	
	Importance Rating	_____	<u>4.5</u>

Proposed Question: SRO# 21, SEE ATTACHED

Proposed Answer: D

Explanation (Optional): SEE ATTACHED

Technical Reference(s): TS 1.1 Definitions (Modes)  
 (Attach if not previously provided)

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 057.01.LP3336.009 (As available)

Question Source: Bank # PBNP 2007 SRO  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam 2007

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge 1-P  
 Comprehension or Analysis \_\_\_\_\_

10 CFR Part 55 Content: 55.41 X  
 55.43 X

KA Statement: Ability to determine Technical Specification Mode of Operation.



Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	_____	<u>3</u>
	Group #	_____	_____
	K/A #	<u>02.03.04</u>	
	Importance Rating	_____	<u>3.7</u>

Proposed Question: SRO# 22, SEE ATTACHED

Proposed Answer: A

Explanation (Optional): SEE ATTACHED

Technical Reference(s): EPIP 5.1, Personnel Emergency Dose Authorization  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: SD 86.03.04 (As available)

Question Source: Bank # PBNP 2007 SRO  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam 2007

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 2-DS

10 CFR Part 55 Content: 55.41 X  
 55.43 X

KA Statement: Knowledge of radiation exposure limits under normal or emergency conditions.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	_____	<u>3</u>
	Group #	_____	_____
	K/A #	<u>02.03.11</u>	
	Importance Rating	_____	<u>4.3</u>

Proposed Question: SRO# 23, SEE ATTACHED

Proposed Answer: D

Explanation (Optional): SEE ATTACHED

Technical Reference(s):  
(Attach if not previously  
provided)

**RMSASRB CI 2RE-229 Unit 2 SW Overboard monitor;  
RMSASRB CI RE-223 Waste Distillate Tank Overboard  
monitor; OI-140, Standard Batch Release; AOP-4A High  
Effluent Activity; RAM 3.1.1 Restarting a Liquid Batch  
Release**

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 051.04.LP0063.004 (As available)

Question Source: Bank # PBNP 2005 SRO  
Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
New \_\_\_\_\_

Question History: Last NRC Exam 2005

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
Comprehension or Analysis 3-SPK

10 CFR Part 55 Content: 55.41 X  
55.43 X

KA Statement: Ability to control radiation releases.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	_____	<u>3</u>
	Group #	_____	_____
	K/A #	<u>02.04.08</u>	
	Importance Rating	_____	<u>4.5</u>

Proposed Question: SRO# 24, SEE ATTACHED

Proposed Answer: A

Explanation (Optional): SEE ATTACHED

Technical Reference(s): OM 3.7 AOP and EOP Procedure Use and Adherence Step  
6.16.3  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: LP3959.001 (As available)

Question Source: Bank # PBNP 2003 SRO  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam 2003

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge 1-P  
 Comprehension or Analysis \_\_\_\_\_

10 CFR Part 55 Content: 55.41 X  
 55.43 X

KA Statement: Knowledge of how abnormal operating procedures are used in conjunction with EOPs.

Examination Outline Cross-reference:	Level	RO	SRO
	Tier #	_____	<u>3</u>
	Group #	_____	_____
	K/A #	<u>02.04.22</u>	
	Importance Rating	_____	<u>4.4</u>

Proposed Question: SRO# 25, SEE ATTACHED

Proposed Answer: B

Explanation (Optional): SEE ATTACHED

Technical Reference(s): CSP-ST.0 Critical Safety Function Status Trees, Step 6; OM  
3.7 AOP and EOP Procedure Use and Adherence  
 (Attach if not previously provided) \_\_\_\_\_  
 \_\_\_\_\_

Proposed references to be provided to applicants during examination: N/A

Learning Objective: 043.03.LP1995.013 (As available)

Question Source: Bank # INPO 19175  
 Modified Bank \_\_\_\_\_ (Note changes or attach parent)  
 New \_\_\_\_\_

Question History: Last NRC Exam \_\_\_\_\_

(Optional - Questions validated at the facility since 10/95 will generally undergo less rigorous review by the NRC; failure to provide the information will necessitate a detailed review of every question)

Question Cognitive Level: Memory or Fundamental Knowledge \_\_\_\_\_  
 Comprehension or Analysis 2-DS

10 CFR Part 55 Content: 55.41 X  
 55.43 X

KA Statement: Knowledge of the bases for prioritizing safety functions during abnormal/emergency operations.