

# Final Submittal

*(Blue Paper)*

**CATAWBA APRIL 2003 EXAM  
50-413 & 50-414/2003-301**

**MARCH 31 - APRIL 4 &  
APRIL 30, 2003**

**FINAL OUTLINES**

Facility: Catawba		Date of Examination: March 31, 2003 - April 18, 2003	
Examination Level: RO		Operating Test Number: 1	
Administrative Topic (see Note)	Describe activity to be performed		
Conduct of Operations	Perform a Manual Shutdown Margin Calculation		
Conduct of Operations	Monitor Reactor Coolant System leakage during loss of Operator Aid Computer		
Equipment Control	Classify Emergency Diesel Generator start and make required log entries		
Radiation Control	Calculate Low Pressure Service Water Flow for liquid radioactive release		
Emergency Plan			
<p>NOTE: All items (5 total) are required for SROs. RO applicants require 4 items <i>unless</i> they are retaking only the administrative topics, when 5 are required.</p>			

Facility: <b>Catawba</b>		Date of Examination: March 31, 2083 -April 18, 2003
Examination Level: SRO		Operating Test Number: 1
Administrative Topic (see Note)	Describe activity to be performed	
Conduct of Operations	Perform a Manual Shutdown Margin Calculation	
Conduct of Operations	Evaluate Reactor Coolant System leakage and determine Tech Spec actions during loss of Operator Aid Computer	
Equipment Control	Perform a review of an R&R procedure	
Radiation Control	Calculate Low Pressure Service Water Flow for liquid radioactive release	
Emergency Plan	Upgrade to a higher emergency classification	

NOTE: All items (5 total) are required for SROs. RO applicants require 4 items unless they are retaking only the administrative topics, when 5 are required.

Facility: Catawba		Date of Examination: Mar 31- Apr 18, 2003	
Exam Level (circled one): RO / SRO(I) / SRO(U)		Operating Test No.: 1	
Control Room Systems (8 for RO; 7 for SRO-I; 2 or 3 for SRO-U)			
System / JPM Title	Type Code*	Safety Function	
a. 004/Respond to Inadvertent Dilution While Shutdown (NV-119)	M, A, L, S	1	
b. 026/Align the NS System to Cold Leg Recirculation (NS-104)	M, A, S	5	
<b>c. 015/Take Power Range Drawer Out of Service (ENB-002)</b>	<b>D, C</b>	<b>7</b>	
d. 003/Start Reactor Coolant Pump 1B (NCP-081)	D, C	4 Primary	
e. 061/Establish Feedwater to a Hot Dry Steam Generator (CSF-005)	D, C	4 Secondary	
f. 006/Transfer Emergency Core Cooling System to Hot Leg Recirculation (NI-098)	D, A, S	3	
g. 008/Respond to a Leak in the Component Cooling System	N, A, S	8	
h. 002/ Vent the Reactor Vessel Head Following a Small Break LOCA	M, C	2	
In-Plant Systems (3 for RO; 3 for SRO-I; 3 or 2 for SRO-U)			
i. 013/Restore the VA System to Normal Following an Inadvertent Safety Injection Actuation	D, R	2	
j. 078/Startup Backup Temporary VI Compressor (VI-002)	D	8	
k. 064/Place SSF Diesel in Operation (AD-003)	D	6	
* Type Codes: (D)irect from bank, (M)odified from bank, (N)ew, (A)lternate path, (C)ontrol room, (S)imulator, (L)ow-Power, (R)CA			

**Bolded items are from the 2001 initial exam at Catawba.**

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b. 061/Establish Feedwater to a Hot Dry Steam Generator (CSF-005)	D, C	4	
c. 026/Align the NS System to Cold Leg Recirculation (NS-104)	M, A, S	5	
d.			
e.			
f.			
g.			
h.			
In-Plant Systems (3 for RO; 3 for SRO-I; 3 or 2 for SRO-U)			
<b>i. 068/Transfer HVAC Controls to "Local" Following Control Room Evacuation (RSS-003)</b>	<b>D, R</b>	<b>8</b>	
j. 064/Place SSF Diesel in Operation (AD-003)	D	6	
k.			
* Type Codes: (D)irect from bank, (M)odified from bank, (N)ew, (A)lternate path, (C)ontrol room, (S)imulator, (L)ow-Power, (R)CA			

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