

## NMP1 2009 NRC Written Exam Changes from Draft Submittal to Final Submittal

1. Modified to NMP format
2. Modified to NMP format
3. Modified to NMP format, improved distractors
4. Collection of true false statements, revised to focus on turbine vibes only
5. Modified to NMP format
6. Revised to improve operational validity
7. Modified to NMP format
8. Rearranged choices for logical number sequence
9. Deleted info from stem not needed to answer question
10. minor change to justification for accuracy
11. minor editorial and format
12. Question was reverse logic. Revised question.
13. Technical issue with what is one core spray subsystem. Format change and Modified to address technical issue
14. Added picture of the step being described. Modified to place more emphasis on reason for scrambling
15. K/A mismatch because written for high torus level. Revised to address low torus level. I
16. Format changes. Modified stem to have one core spray loop inop.
17. Answer A and D both correct. Format and changes to ensure all distractors incorrect
18. Added Additional information in stem for context. Revised D due to additional info
19. Technical issues with operation of CO2 systems. Revised to clarify question
20. Ability to read curve. Modified so that each answer is differentiated on curve
21. minor editorial, I format to NMP1
22. minor editorial
23. Format to NMP1, a distractor had conflicting procedure information. Revised distractor
24. Deleted extra info from stem, clarified distractors
25. Format changes
26. two correct answers changed radiation level to make only one correct answer
27. minor editorial
28. Reformat, changed one distractor to make more plausible
29. KA mismatch. Testing knowledge of FW inst. not nuclear boiler inst. Changed KA. Minor Editorial.
30. minor editorial, one distractor subset of correct answer. Revised
31. NMP1 Format
32. NMP1 Format
33. minor editorial
34. NMP1 Format
35. NMP1 Format
36. minor editorial
37. minor editorial
38. Format, changed distarctors based on editorial change in stem to not mislead that all SRM's and IRM's fail
39. minor editorial
40. minor editorial
41. Due to a plant modification question had technical issue. Revised to meet current plant configuration
42. NMP1 Format
43. Technical issue with question. Revised to address issue.
44. minor editorial
45. minor editorial
46. minor editorial

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47. Pared down info in stem for better focus
48. Format NMP1 minor editorial
49. minor editorial
50. minor editorial
51. edited to match procedure terminology
52. minor editorial
53. minor editorial
54. changed pressure on seal to ensure that dor is inoperable
55. minor editorial changes to stem, revised one distractor due to NMP1 felt it was of low operational significance
56. Changed insert limits to ensure that there is not a possibility of 2 correct answers.
57. Changed question based on human factored EOP alarms identified at NMP1
58. NMP1 Format
59. minor editorial
60. minor editorial
61. revised to address operational concerns
62. revised to address concern that not an appropriate closed reference question
63. NMP1 Format, changed room affected to better reflect operations
64. minor editorial
65. Deleted 3 rd column due to being least operationally oriented
66. Revised due to procedure change
67. collection of true false. Revised
68. minor editorial
69. revised due to additional requirements in another section of procedure
70. changed stem to preclude that this was preplanned. Revised MCPR value to be a little farther from limit
71. changed stem to support question choices
72. Format and minor editorial
73. Format and minor editorial
74. minor editorial
75. NMP1 format
76. minor editorial
77. NMP1 Format
78. Minor editorial, changed one distracter
79. NMP1 Format, minor editorial
80. Concerns with word "unsafe" revised to address HCTL in stem
81. minor editorial
82. modified area to be further away since A being wrong was based on distance
83. concerns with knowing computer point comes in at 5 feet. Revised to address concern
84. NMP1 Format
85. Revised to focus on a given steam leak from an EC
86. NMP1 Format
87. Technical problem with original bank question. Revised to address
88. minor editorial
89. Minor editorial
90. Changed distractors to more closely match tech spec wording
91. Changed rad level to 3.75 full background vice alarm setpoint, minor editorial
92. Editorial changes
93. minor editorial
94. pared down choices to information that was discriminating
95. minor format

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96. minor editorial
97. minor formatting, revised due to procedure changes
98. minor editorial
99. minor editorial
100. revised to remove unnecessary info from stem

### Simulator JPM Comment Resolution

JPM	Comment	Submitted By	Resolution	Resolved By
S-1	JPM Setup Instructions. Change to Simulator IC 171	Hooper	Incorporated comment	Molteni
S-1	References: Change to NI-Op-30 Rev 02100	Hooper	Incorporated comment	Molteni
S-1	Globally change SS to SM	Hooper	Incorporated comment	Molteni
S-1	Step 5, add adjust T10 tap changer	Hooper	Incorporated comment	Molteni
S-1	Should all of step 5 be critical	Hooper	Kept whole step critical. Not performing would effect ability to synchronize and close the breaker.	Molteni
S-1	Step 11 Standard, change to cue plant operator reports transformer load at 570 amps and steady.	Hooper	Incorporated comment	Molteni
S-1	Initiating cue, change to Power PB 16B from PB 16A so that breaker R1043 can be tagged out of service for maintenance.	Hooper	Incorporated comment	Molteni
S-2	JPM Setup instructions, provided specific setup	Hooper	Incorporated comment	Molteni

S-2	JPM task Instructions, added that rod has not double notched at reduced pressure.	Hooper	Incorporated comments	Molteni
S-2	Change rod and position on initiating cue.	Hooper	Incorporated comment	Molteni
S-2	JPM number changed to S-2	Hooper	Incorporated comment	Molteni
S-2	Step 4 changed rod to 26-39	Hooper	Incorporated comment	Molteni
S-2	Step 9, add note for booth operator	Hooper	Incorporated comment	Molteni
S-2	Step 12, delete turnon rod power and bypass rwm if needed.	Hooper	Incorporated comment	Molteni
S-2	Consider new critical step to use normal in to insert to 00	Hooper	Did not incorporate. Procedure requires emergency Rod In	Molteni
S-3	Change Task conditions to staete Steam leak vice LOCA	Hooper	Incorporated comment	Molteni
S-3	Step 11, Informs sm vice ss	Hooper	Incorporated comment	Molteni
S-4	Simulator setup, also have core spray pump oos andset strainer cloggin to 100%	Hooper	Incorporated comment	Molteni
S-4	Typo in procedure for core spray valves	Hooper	Added step and cue to acknowledge that the procedure will be changed	Molteni
S-5	For estimated time add	Hooper	Incorporated comment	Molteni

	minutes			
S-5	Initialize the simulator to IC 171	Hooper	Incorporated comment	Molteni
S-5	Step 4 change 01-03 to 01-01	Hooper	Incorporated comment	Molteni
S-5	Change note to evaluator step 5 to 8	Hooper	Incorporated comment	Molteni
S-5	Change step 6 to critical and step 7 to not critical	Hooper	Incorporated comment	Molteni
S-5	Step 13 delete SSV	Hooper	Incorporated comment	Molteni
S-6	Add setup conditions to IC and conditions 5 and 6.	Hooper	Incorporated comment	Molteni
S-6	Change the cue	Hooper	Incorporated comment	Molteni
S-7	Procedure has been revised several steps have been re-order	Hooper	Incorporated comment	Litkett

### Plant JPM Comment Resolution

JPM	Comment	Submitted By	Resolution	Resolved By
P-1	Task Standard. Revise to reflect that alternate path and the standard is to vent scram air header locally.	Hooper	Incorporated comment	Hedigan
P-1	Step 4. cabinet 1S-55 was already opened in step 3. Change step 3 to non critical and change cue to the same as step 4.	Hooper	Incorporated comment	Hedigan
P-1	Step 5. Question should be asked, but then recommend telling to perform attachment 2.	Hooper	Revised standard. Did not give cue to perform attachment 2.	Hedigan
P-1	Step 6. Initial conditions are reactor pressure 300 psig. The same argument for not doing the other attachments is argument not to do attachment 2. recommend changing to 900 psig.	Hooper	Changed arguments for not doing additional attachments.	Hedigan
P-2	Step 4 UPS security room would take SM and security permission. Recommend	Hooper	Incorporated comment	Hedigan

	walk to door and then have cue that it is done.			
P-3	Page 3 take out task references. Repeated at bottom of page 4.	Hooper	Remove references.	Hedigan
P-3	Cue, recommend adding electrical safety requirements, leather gloves, safety glasses and blue fire retardant lab coat.	Hooper	Added comment that obtaining safety equipment is not required but should be discussed during the JPM	Litkett
P-3	Initial Condition, no dash between h and 3	Hooper	Incorporated comment	Hedigan
P-3	Step 2. No precautions and limitations in SOP's.	Hooper	Incorporated comment. Added detail 1-4.2 and attachment 1.	Hedigan

### Scenario Comment Resolution

Scenario/Comment #	Comment	Submitted By	Resolution	Resolved By
2-1	N1-OP-15A should be provided marked complete to step F.2.5 and placed in the initial conditions	Hooper	Incorporated Comments	Hedigan
2-2	Change Malf #3 to RM64A	Hooper	Incorporated Comments	Hedigan
2-3	Change Malf Event type to include SRO	Hooper	Incorporated Comments	Hedigan
2-4	Take out Rx Building fan failure and add running turbine building ventilation trips, start fan and second trips. Break out as separate event.	Hooper	Incorporated Comments	Hedigan
2-5	Page 4, event 3 change to activate trigger 1 after 4th valve open.	Hooper	Incorporated Comments	Hedigan
2-6	Event 5 add Reset rod drift when requested.	Hooper	Incorporated Comments	Hedigan
2-7	Page 5 event 6 take out activate trigger 5	Hooper	Incorporated Comments	Hedigan
2-8	Add Note that procedure marked up to F.2.5	Hooper	Incorporated Comments	Hedigan
2-9	Take out first 3 bop actions based on steps are part of F.2.5	Hooper	Incorporated Comments	Hedigan
2-10	Reactivity brief, change to perform if already not done.	Hooper	Incorporated Comments	Hedigan
2-11	Change Reactivity Maneuver Request to instruction, globally.	Hooper	Incorporated Comments	Hedigan
2-12	Take out if single notch step	Hooper	Incorporated Comments	Hedigan
2-13	Take out note for target position other than 48	Hooper	Incorporated Comments	Hedigan
2-14	Take out last step	Hooper	Incorporated	Hedigan

	page 8 for crs. Hedigan		Comments	
2-15	Page 9 Alarm H1-3-8 Stack gas Monitoring trouble.	Hooper	Incorporated Comments	Hedigan
2-16	Change inoperable to downscale	Hooper	Incorporated Comments	Hedigan
2-17	Page 9 typo channel is	Hooper	Incorporated Comments	Hedigan
2-18	Page 10 typo on last line system	Hooper	Incorporated Comments	Hedigan
2-19	Recommend taking out last line. (Check to see what procedure says)	Hooper	Incorporated Comments	Hedigan
2-20	Replace event 5. Overlap with jpm	Hooper	Incorporated Comments	Hedigan
2-21	Event 6 take out rb fan trip	Hooper	Incorporated Comments	Hedigan
2-22	Unbold manual isolation. Not part of critical task.	Hooper	Incorporated Comments	Hedigan
2-23	Change entry to rp reports above an alert level. Change booth operator role playing	Hooper	Incorporated Comments	Hedigan
2-24	Page 16 change atc to Bop	Hooper	Incorporated Comments	Hedigan
3-1	TBCLC in initial cond 12 is running	Hooper	Incorporated Comments	Hedigan
3-2	Malf 6 add C-atc	Hooper	Incorporated Comments	Hedigan
3-3	Event 3 Report Level transmitter 33-06d is failed downscale and gross failure light is on at the ATS cabinet.	Hooper	Incorporated Comments	Hedigan
3-4	Add a critical task to spray cont to avoid psp	Hooper	Did not incorporate. Will consider during pre- validation.	Hedigan
3-5	Page 8 change to instruction	Hooper	Incorporated Comments	Hedigan
3-6	Mark up proc to F.2.8 and put in turnover	Hooper	Incorporated Comments	Hedigan
3-7	Change restoration to maneuver	Hooper	Incorporated Comments	Hedigan
3-8	Event 4 change to	Hooper	Incorporated	Hedigan

	recirc 13 oscillates		Comments	
3-9	Page 11 check if hard criteria for tripping per procedure. Consider role play to tell to trip or we trip it.	Hooper	Incorporated Comments	Hedigan
3-10	Page 12 take out last action	Hooper	Incorporated Comments	Hedigan
3-11	Consider if ARI in the audit is too much overlap.	Hooper	Did not incorporate. Incidental overlap is acceptable.	Hedigan
3-12	Take out page 16 ads timer	Hooper	Incorporated Comments	Hedigan
3-13	Page 16 add "or drywell temp approaches 300."	Hooper	Incorporated Comments	Hedigan
3-14	Page 17 move crs direction to restore and maintain to after blowdown.	Hooper	Incorporated Comments	Hedigan
3-15	Page 18 change pressure to 365	Hooper	Incorporated Comments	Hedigan
3-16	Add or condensate/feedwater	Hooper	Incorporated Comments	Hedigan
6-1	Add into turnover that discharge valve was closed by last shift. Gets rid of one 30 minute wait.	Hooper	Incorporated Comments	Hedigan
6-2	Take out turnover about the work on 162A. Might cause operators to balk at changing power	Hooper	Incorporated Comments	Hedigan
6-3	Take out swap to ups 162b. Will swap to maintenance power.	Hooper	Incorporated Comments	Hedigan
6-4	Malf 4 change to TU02. Based on recommending removing torus leak from scenario.	Hooper	Did not incorporate. Retained Torus leak in scenario, therefore no need to change malf 4.	Hedigan
6-5	Credit for separate event with liquid	Hooper	Incorporated Comments	Hedigan

	poison			
6-6	Event 6 change to TU06	Hooper	Incorporated Comments	Hedigan
6-7	Consider changing page 3 tagout	Hooper	Incorporated Comments	Hedigan
6-8	Delete at top of page 4 one of the 30 minute waits.	Hooper	Incorporated comments	Hedigan
6-9	Page 4 change trigger 3 and 4 to after the half scram reset and as directed by examiner.	Hooper	Incorporated Comments	Hedigan
6-10	Add level transmitter 36-03a downscale and gross failure light is out at the ATS cabinet.	Hooper	Incorporated Comments	Hedigan
6-11	Event 6 change both to all	Hooper	Incorporated Comments	Hedigan
6-12	Recirc to minimum not critical	Hooper	Incorporated Comments	Hedigan
6-13	Add critical task for terminate and prevent.	Hooper	Incorporated Comments	Hedigan
6-14	Page 9 sro change to IC 130A per sop ?	Hooper	Incorporated Comments	Hedigan
6-15	Take out BV 77-01	Hooper	Incorporated Comments	Hedigan
6-16	Order of actions reset high drywell trip and then reset half scram. Other actions may happen if give enough time.	Hooper	Incorporated Comments	Hedigan
6-17	Take out F1-2-1	Hooper	Incorporated Comments	Hedigan
6-18	Propose taking torus leak out of scenario. Replace with Tu02..	Hooper	Did not incorporate. Changed to Malf PC04 which had an appropriate ramp rate for torus leakage.	Hedigan
6-19	Change Liq poison to one trip, second successful.	Hooper	Incorporated Comments	Hedigan
5-1	Propose not doing	Hooper	Incorporated	Hedigan

	Quarterly surv. No real actions just record values.		comment	
5-2	Malf 3 SRO and RO no BOP	Hooper	Incorporated comment	Hedigan
5-3	Take out TRG 9 after TRG 2	Hooper	Incorporated comment	Hedigan
5-4	Malf 4 bop vice atc	Hooper	Incorporated comment	Hedigan
5-5	Take out individual recirc pump controllers fail downscale.	Hooper	Incorporated comment	Hedigan
5-6	Page 3 90%	Hooper	Incorporated comment	Hedigan
5-7	Take out reset trip.	Hooper	Incorporated comment	Hedigan
5-8	Event 2 add role play if they dispatch operator. 2 minutes later hear rumble from feedwater heater room.	Hooper	Incorporated comment	Hedigan
5-9	Activate trg 2 when rpv level below 74"	Hooper	Incorporated comment	Hedigan
5-10	If requested to manually adjust mg, Wait 2 minutes and report cannot take to manual.	Hooper	Incorporated comment	Hedigan
5-11	Page 5 add oil is low and on the pedestal, similar to note above.	Hooper	Incorporated comment	Hedigan
5-12	Change pressure to 970	Hooper	Incorporated comment	Hedigan
5-13	Take out critical task torus cooling. After blowdown 95 degrees.	Hooper	Incorporated comment	Hedigan
5-14	Page 8 psig, take out the following phrases "to adjust", "commence n1-st-q2", and in the title "n1-st-q2"	Hooper	Incorporated comment	Hedigan
5-15	Take out reduce power <1850MW/th and feed temp.	Hooper	Incorporated comment	Hedigan
5-16	Will not enter sop rapid power, use	Hooper	Incorporated comment	Hedigan

