

4/6/82

TABLE 1  
SNPS CONFORMANCE TO REGULATORY GUIDE 1.97, REVISION 2

<u>Reg. Guide 1.97, Rev. 2 Require- ment Measured Variable</u>	<u>Imple- mentation Date</u>	<u>Status of Compliance</u>
1. Control Rod Position		Complete
2. Neutron Flux	Later	Existing equipment will remain intact. Await BWR Owners Group Generic Solution.
3. Coolant Level in Reactor	Later	Await BWR Owners Group Generic Solution. (Part of Study discussed in item #13.)
4. Reactor Coolant System (RCS Soluble Boron Concentration (Sample)	6/83	Included in Post Accident Sample System
5. RCS Pressure	6/83	Required instrumentation already included in design.  Transmitters are being qualified to applicable IEEE Standards.

NOTE: Some requirements appear more than once in the guide.  
They are listed below only once, however, in the order  
that they first appear in Table 1 of the guide.

<u>Reg. Guide 1.97, Rev. 2 Require- ment Measured Variable</u>	<u>Imple- mentation Date</u>	<u>Status of Compliance</u>
6. Main Steamline Isolation Valves Leakage Control System Pressure	6/83	Required instrumen- tation already in- cluded in design. Transmitters are being qualified to applicable IEEE Standards.
7. Primary System Safety Relief Valve Positions	Fuel Load	Required instrumen- tation already in- cluded in design.
8. Primary Contain- ment Pressure (Drywell)	Fuel Load	Required instrumen- tation already in- cluded in design.
8A. Primary Contain- ment Pressure (Suppression Chamber)	Fuel Load	Required instrumen- tation already in- cluded in design.
9. Containment and Drywell Hydrogen Concentration	Fuel Load (expanded range re- quired by 6/83)	Required instrumen- tation already in- cluded in design. An expanded range is being implemented.
10. Containment and Drywell Oxygen Concentration	Fuel Load (expanded range re- quired by 6/83)	Required instrumen- tation already in- cluded in design. An expanded range is being implemented.
11. Primary Contain- ment Isolation Valve Position	6/83	Required switches and lights already included in design. Limit switches are being qualified to applicable IEEE Standards.
12. Drywell Atmosphere Temperature	Fuel Load	Required instrumen- tation already in- cluded in design.

<u>Reg. Guide 1.97, Rev. 2 Require- ment Measured Variable</u>	<u>Imple- mentation Date</u>	<u>Status of Compliance</u>
13. BWR Core Thermocouples	Later	Presently being re- viewed by BWR Owner's group & NRC for alternatives.
14. Radioactivity Concentration or Radiation Level in Circul- ating Primary Coolant	Later	Await BWR Owner's Group Generic Solution.
15. Analysis of Primary Coolant (Gamma Spectrum)	Fuel Load	Included in Post Accident Sample System.
16. Primary Contain- ment Area Radi- ation	Fuel Load	Required instrumen- tation already in- cluded in design.
17. Secondary Con- tainment ARM	Later	Await BWR Owner's Group Generic Solution.
17A. Radiation Exposure Rate	Later	Await BWR Owner's Group Generic Solution.
18. Drywell Sump Level	Later	Existing instrumen- tation will remain intact. Await BWR Owner's Group Generic Solution.
19. Containment Effluent Radioactivity - Noble Gases	Fuel Load	Required instrumen- tation already in- cluded in design. Environmental and seismic qualifi- cation protection will not be provided for the low-range, normal station vent monitor, but will be

Reg. Guide 1.97, Rev. 2 Require- ment Measured <u>Variable</u>	Imple- mentation <u>Date</u>	<u>Status of Compliance</u>
19. (cont'd)		provided for the high-range, post-accident station vent monitor and for all RBSVS monitors. In addition, the low-flow, RBSVS effluent activity will be monitored over the range of approximately $1 \times 10^{-5}$ through $1 \times 10^{+4}$ Ci/ $\mu$ c. This sensitivity has been determined to be adequate to assure monitoring of off-site dose limits.
19A. RBSVS Discharge Flow		Complete.
20. Environ Radio- activity Ex- posure Rate (continuous indication at fixed locations)	Later	On hold based on July 1981 Errata to Reg. Gd. 1.97 Rev. 2
21. Main Feedwater Flow		Complete.
22. Condensate Storage Tank Level.		Complete.
23. Drywell Spray Flow	Later	Await BWR Owner's Group Generic Solution.
23A. Suppression Chamber Spray Flow	Later	Await BWR Owner's Group Generic Solution.

<u>Reg. Guide 1.97, Rev. 2 Require- ment Measured Variable</u>	<u>Imple- mentation Date</u>	<u>Status of Compliance</u>
24. Drywell Pressure	Fuel Load	Transmitter will be qualified to applicable IEEE Standards.
25. Suppression Pool Water Temperature	6/83	Required instrumentation already included in design.
26. Suppression Pool Water Level	Fuel Load	Additional instrumentation being added to expand range as required, assuming the timely availability of necessary equipment.
27. HPCI Flow	6/83	Required instrumentation already included in design. Transmitter and indicator are being qualified to applicable IEEE Standards.
28. RCIC Flow	6/83	Required instrumentation already included in design. Transmitter and indicator are being qualified to applicable IEEE Standards.
29. Core Spray System Flow	6/83	Required instrumentation already included in design. Transmitter and indicator are being qualified to applicable IEEE Standards.

<u>Reg. Guide 1.97, Rev. 2 Require- ment Measured Variable</u>	<u>Imple- mentation Date</u>	<u>Status of Compliance</u>
30. RHR System Flow	6/83	Required instrumen- tation already in- cluded in design. Transmitter and indicator are being qualified to applicable IEEE Standards.
31. LPCI System Flow	Later	Await BWR Owner's Group Generic Solution.
32. RHR Heat Exchang- er Outlet Temper- ature	6/83	Required instrumen- tation already in- cluded in design. Thermocouples will be qualified to applicable IEEE Standards.
33. Cooling Water Temperature to ESF System Components	6/83	Required instrumen- tation already in- cluded in design. Thermocouples will be qualified to applicable IEEE Standards.
34. Cooling Water Flow to ESF System Components	6/83	Required instrumen- tation already in- cluded in design. Transmitters and indicators are being qualified to applicable IEEE Standards.
35. SLCS Storage Tank Level	Later	Await BWR Owner's Group Generic Solution.

<u>Reg. Guide 1.97, Rev. 2 Require- ment Measured Variable</u>	<u>Imple- mentation Date</u>	<u>Status of Compliance</u>
36. Sump Level in Spaces of Equip- ment Required for Safety	6/83	Required instrumen- tation already in- cluded in design. Transmitters will be qualified to applicable IEEE Standards.
37. SLCS System Flow	Later	Await BWR Owner's Group Generic Solution.
38. High Radioactivity Liquid Tank Level		Complete.
39. Emergency Venti- lation Damper Position	6/83	Required switches already included in design. Instrumen- tation will be qualified to applicable IEEE Standards.
40. Status of Standby Power and Other Energy Sources Important to Safety	6/83	Required indication already included in design. Transmitters and indicators are being qualified to applicable IEEE Standards.
41. Radiation Exposure Rate (inside buildings or areas which are in direct contact with primary containment where penetrations and hatches are located)	Later	Await BWR Owner's Group Generic Solution



<u>Reg. Guide 1.97, Rev. 2 Require- ment Measured Variable</u>	<u>Imple- mentation Date</u>	<u>Status of Compliance</u>
42. Effluent Radio- activity - Noble Gases, Station Vent	Fuel Load	Required instrumen- tation already in- cluded in design. Environmental and seismic qualifica- tion/protection will not be provided for the low-range, normal station vent monitor, but will be provided for the high-range, post accident station vent monitor.
42A. Station Vent- Flow Rate	6/83	Transmitter will be qualified to applicable IEEE Standards.
43. Effluent Radio- activity, Halo- gens and Parti- culates (Contin- uous Sampling)	Fuel Load	Required instrumen- tation already in- cluded in design.
44. Environs Radio- activity - Radio- halogens and Particulates (portable)	6/83	Equipment will be procured.
45. Plant and Environs Radiation (portable)	6/83	Equipment will be procured.
46. Plant and Environs Radioactivity (portable)	6/83	Equipment will be procured.



<u>Reg. Guide 1.97, Rev. 2 Require- ment Measured Variable</u>	<u>Imple- mentation Date</u>	<u>Status of Compliance</u>
47. Post Accident Sampling	Fuel Load (Certain items required by 6/83)	New post-accident sampling being im- plemented on sched- ule, assuming the timely availability of the necessary equipment.
48. Wind Direction		Complete.
49. Wind Speed		Complete.
50. Estimation of Atmospheric Stability		Complete.

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REGULATORY GUIDE 1.97, REV. 2 CROSS REFERENCE TO  
TABLE 1. SNPS CONFORMANCE TO REG. GUIDE 1.97, REV. 2

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A	RCS PRESSURE	5
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A	Suppression Pool Water Level	26
A	DRYWELL AND WETWELL Oxygen CONCENTRATION	10
A	SUPPRESSION POOL WATER TEMPERATURE	25
A	SUMP LEVEL IN SPACES OF EQUIPMENT REQUIRED FOR SAFETY	36
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B-2	CONTROL ROD POSITION	1
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B-5	BWR CORE THERMOCOUPLES	13
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B-5	DRYWELL PRESSURE	8
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