4/6/82

TABLE 1 SNPS CONFORMANCE TO REGULATORY GUIDE 1.97, REVISION 2

Reg. Guide 1.97, Rev. 2 Require- ment Measured Variable		Imple- mentation Date	Status of Compliance	
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	

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.

Standards.

8205050011 820430 PDR ADDCK 05000322 G PDR

Reg.	Guide 1.97,
Rev.	2 Require-
ment	Measured
Varia	ble

7.

 Main Steamline Isolation Valves Leakage Control System Pressure

Primary System

Safety Relief Valve Positions mentation Date

Imple-

- 6/83
 - Fuel Load

6/83)

6/83)

6/83

- Primary Contain- Fuel Load ment Pressure (Drywell)
- 8A. Primary Containment Pressure (Suppression Chamber)
- 9. Containment and Fuel Load Drywell Hydrogen (expanded Concentration range required by
- 10. Containment and Fuel Load Drywell Oxygen (expanded Concentration range required by
- 11. Primary Containment Isolation Valve Position
- 12. Drywell Atmosphere Fuel Load Temperature

Status of Compliance

- Required instrumentation already included in design. Transmitters are being qualified to applicable IEEE Standards.
- Required instrumentation already included in design.

Required instrumentation already included in design.

Required instrumentation already included in design.

Required instrumentation already included in design. An expanded range is being implemented.

Required instrumentation already included in design. An expanded ranged is being implemented.

Required switches and lights already included in design. Limit switches are being qualified to applicable IEEE Standards.

Required instrumentation already included in design.

Implementation Date

Later

- 13. BWR Core Thermocouples
- 14. Radioactivity Later Concentration or Radiation Level in Circulating Primary Coolant
- 15. Analysis of Fuel Load Primary Coolant (Gamma Spectrum)
- 16. Primary Contain- Fuel Load ment Area Radiation
- 17. Secondary Con- Later tainment ARM
- 17A.Radiation Exposure Later Rate
- 18. Drywell Sump Later Level

19. Containment Fuel Load Effluent Radioactivity -Noble Gases Fresently being reviewed by BWR

Status of Compliance

Owner's group & NRC tor alternatives.

Await BWR Owner's Group Generic Solution.

Included in Post Accident Sample System.

Required instrumentation already included in design.

Await BWR Owner's Group Generic Solution.

Await BWR Owner's Group Generic Solution.

Existing instrumentation will remain intact. Await BWR Owner's Group Generic Solution.

Required instrumentation already included in design. Environmental and seismic qualification protection will not be provided for the low-range, normal station vent monitor, but will be

Implementation Date

19. (cont'd)

Status of Compliance

provided for the high-range, post-accident station vent monitor and for all RBSVS monitors. In addition, the lowflow, RBSVS effluent activity will be monitored over the range of approximately 1 x 10⁻⁵ through 1 x 10⁻⁴ through 1 x 10⁻⁴ Ci/uc. This sensitivity has been determined to be adequate to assure montoring of off-site dose limits.

Complete.

On hold based on July 1981 Errata to Reg. Gd. 1.97 Rev. 2

Complete.

Complete.

Await BWR Owner's Group Generic Solution.

Await BWR Owner's Group Generic Solution.

19A.RBSVS Discharge Flow

- 20. Environ Radioactivity Exposure Rate (continuous indication at fixed locations)
- 21. Main Feedwater Flow
- 22. Condensate Storage Tank Level.
- 23. Drywell Spray Later Flow
- 23A.Suppression Later Chamber Spray Flow

- 4 -

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

- 5 -

Reg. Guide 1.97, Rev. 2 Require- ment Measured Variable	Imple- mentation Date	Status of Compliance
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.

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Implementation Date

36. Sump Level in Spaces of Equipment Required for Safety 6/83

- 37. SLCS System Flow Later
- 38. High Radioactivity Liquid Tank Level
- 39. Emergency Venti- 6/83 lation Damper Position
- 40. Status of Standby 6/83 Power and Other Energy Sources Important to Safety
- 41. Radiation Exposure Later Rate (inside buildings or areas which are in direct contact with primary containment where penetrations and hatches are located)

Status of Compliance

- Required instrumentation already included in design. Transmitters will be qualified to applicable IEEE Standards.
- Await BWR Owner's Group Generic Solution.

Complete.

Required switches already included in design. Instrumentation will be qualified to applicable IEEE Standards.

Required indication already included in design. Transmitters and indicators are being qualified to applicable IEEE Standards.

Await BWR Owner's Group Generic Solution

- 7 -

Reg.	Guide 1.97,
Rev.	2 Require-
ment	Measured
Varia	able

.

Implementation Date

42. Effluent Radioactivity - Noble Gases, Station Vent

42A.Station Vent- 6/83 Flow Rate

- 43. Effluent Radioactivity, Halogens and Particulates (Continuous Sampling)
 Fuel Load
- 44. Environs Radio- 6/83
 activity Radio halogens and
 Particulates
 (portable)
- 45. Plant and Environs 6/83 Radiation (portable)
- 46. Plant and Environs 6/83
 Radioactivity
 (portable)

Status of Compliance

Required instrumentation already included in design. Environmental and seismic qualification/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.

Transmitter will be qualified to applicable IEEE Standards.

Required instrumentation already included in design.

Equipment will be procured.

Equipment will be procured.

Equipment will be procured.

Implementation Date

47. Post Accident Sampling

Fuel Load (Certain items required by 6/83) Status of Compliance

· more :

New post-accident sampling being implemented on schedule, assuming the timely availability of the necessary equipment.

Complete.

Complete.

Complete.

48. Wind Direction

49. Wind Speed

50. Estimation of Atmospheric Stability · 4/6/82

REGULATORY GUIDE 1.97, REV. 2 CROSS REFERENCE TO TABLE 1. SNPS CONFORMANCE TO REG. GUIDE 1.97. REV.2 Page ! of 6

REG. 1.97, REV.2 1TEM NO.	REG. 1.97, REV. 2 MEASURED VARIABLE	TABLE 1 ITEM NO.
	COOL WIT LEVEL IN THE REACTOR	: .
^	COOLANT LEVEL IN THE REACTOR	
۸	RCS PRESSURE	5
۸	PRIMARY CONTAINMENT PRESSURE (DRYWELL)	8
А	Suppression Pool Water Level	26
^	DRYWELL AND WETWELL Oxygen CONCENTRATION	. 10
۸	SUPPRESSION POOL WATER TEMPERATURE	25
۸	SUMP LEVEL IN SPACES OF EQUIPMENT REQUIRED FOR SAFETY	36
B-1	NEUTRON FLUX	2
B-2	CONTROL ROD POSITION	. 1
B-3	RCS SOLUBLE BORON CONCENTRATION(Sample)	4
B-4	COOLANT LEVEL IN THE REACTOR	3
B-5	BWR CORE THERMOCOUPLES	13
B-6	RCS PRESSURE	5
B-5	DRYWELL PRESSURE	8
B-8	DRYWELL DRAIN SUMPS LEVEL (IDENTIFIED AND UNIDENTIFIED LEAKAGE)	18

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Page 2 of 6

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REG. 1.97, REV. 2 1TEM NO.	REG. 1.97, REV. 2 MEASURED VARIABLE	SHOREHAM ASSESSMENT TABLE 1 ITEM NO.
B-9	PRIMARY CONTAINMENT PRESSURE (DRYWELL)	8
B-9	PRIMARY CONTAINMENT PRESSURE (Suppression Chamber)	: 8a
B-10	PRIMARY CONTAINMENT ISOLATION VALVE POSITION	u,
C-1	RADIOACTIVITY CONCENTRATION OR RADIATION LEVEL IN CIRCULATING PRIMARY COOLANT	14
C-2	ANALYSIS OF PRIMARY COOLANT (gamma Spectrum)	15
C-3	BWR CORE THERMOCOUPLES	13
C-4	RCS PRESSURE	5
C-5	PRIMARY CONTAINMENT HIGH RANGE AREA RADIATION	16
C-6	DRYWELL DRAIN SUMPS LEVEL (IDENTIFIED AND UNIDENTIFIED LEAKAGE)	18
C-7	SUPPRESSION POOL WATER LEVEL	. 26
C-8	DRYWELL PRESSURE	8
C-9	RCS PRESSURE	5
C-10	PRIMARY CONTAINMENT PRESSURE (Drywell)	8
C-10	PRIMARY CONTAINMENT PRESSURE (Suppression Chamber)	Ba

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CHORENAN ACCECCHENT

REG. 1.97, REV. 2 ITEM NO.	REG. 1.97, REV. 2 MEASURED VARIABLE	TABLE 1 ITEM NO.	
C-11	DRYWELL AND WETWELL HYDROGEN CONCENTRATION	9	
C-12	· DRYWELL AND WETWELL OXYGEN CONCENTRATION	1 0	
C-13	CONTAINMENT EFFLUENT RADIOACTIVITY NOBLE GASES (INCLUDING RBSVS)	19	
C-14	SECONDARY CONTAINMENT AREA RADIATION	41	
C-15	CONTAINMENT EFFLUENT RADIOACTIVITY NOBLE GASES (INCLUDING RBSVS)	19	
D-1	MAIN FEEDWATER FLOW	21	
D-2	CONDENSATE STORAGE TANK LEVEL	22	
D-3	SUPPRESSION CHAMBER SPRAY FLOW	23a	
D-4	DRYWELL PRESSURE	24	
D-5	SUPPRESSION POOL WATER LEVEL	26	
D-6	SUPPRESSION POOL WATER TEMPERATURE	25	
D-7	DRYWELL ATMOSPHERE TEMPERATURE	12	
D-8	DRYWELL SPRAY FLOW	23	
D-9	MAIN STEAMLINE ISOLATION VALVES LEAKAGE CONTROL SYSTEM PRESSURE	6	
D-10	SRV POSITION	7	

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Page 4 of 6

REG. 1.97, REV. 2 ITEM NO.	REG. 1.97, REV. 2 MEASURED VARIABLE	TABLE 1 ITEM NO.	
D-11	ISOLATION CONDENSER SYSTEM SHELL-SIDE WATER LEVEL	NA SNPS-1 (Not Included on TABLE 1)	
D-12	1SOLATION CONDENSER SYSTEM VALVE POSITION	NA SNPS-1 (Not Included on TABLE 1)	
D-13	RCIC FLOW	28	
D-14	HPCI FLOW	27	
D-15	CORE SPRAY FLOW	29	
D-16	LPCI SYSTEM FLOW	31	
D-17	SLCS FLOW	37	
D-18	SLCS STORAGE TANK LEVEL	35	
D-19	RHR SYSTEM FLOW	30	
D-20	RHR PEAT EXCHANGER OUTLET TEMPERATURE	32	
D-21	COOLING WATER TEMPERATURE TO ESF SYSTEM COMPONENTS	33	
D-22	COOLING WATER FLOW TO ESF SYSTEM COMPONENTS	34	
D-23	HIGH RADIOACTIVITY LIQUID TANK LEVEL	38	
D-24	EMERGENCY VENTILATION DAMPER POSITION	39	
D-25	STATUS OF STANDBY POWER AND OTHER ENERGY SOURCES IMPORTANT TO SAFETY (HYDRAULIC, PNEUMATIC)	40	

CHORFHAN ACCECCMENT

KEG. 1.97, REV. 2 1TEM NO.	REG. 1.97, REV. 2 MEASURED VARIABLE	TABLE 1 ITEM NO.	
E-1	PRIMARY CONTAINMENT HIGH RANGE	16	
	AREA RADIATION	:	
E-2	SECONDARY CONTAINMENT AREA RADIATION	17	
E-3	RADIATION EXPOSURE RATES	17a	
E-4	CONTAINMENT EFFLUENT RADIOACTIVITY NOBLE GASES (INCLUDING RBSVS)	19	
E-4	RBSVS FLOW	194	
E-5	CONTAINMENT EFFLUENT RADIOACTIVITY NOBLE GASES (INCLUDING RBSVS)	19	
E-5	RBSVS FLOW ,	19a	
E-6	CONTAINMENT EFFLUENT RADIOACTIVITY NOBLE GASES (INCLUDING RBSVS)	19	
E-6	RBSVS FLOW	194	
E-7	EFFLUENT RADIOACTIVITY NOBLE GASES (STA. VENT)	42	
E-7	STA. VENT FLOW RATE	42a	
E-8	EFFLUENT RADIOACTIVITY NOBLE GASES (STA. VENT)	42	
E-8	STA. VENT FLOW RATE	42a	
E-9	EFFLUENT RADIOACTIVITY NOBLE GASES (STA. VENT)	42	
E-9	STA. VENT FLOW RATE	428	

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REG. 1.97, REV. 2 ITEM NO.	REG. 1.97, REV. 2 MEASURED VARIABLE TAE	REHAM ASSESSMENT BLE 1 ITEM NO.
E-10	EFFLUENT RADIOACTIVITY HALOGENS AND PARTICULATES (SAMPLING)	43
E-11	ENVIRONS RADIOACTIVITY EXPOSURE RATE (CONTINUOUS INDICATIONS AT FIXED LUCATIONS)	* 20
E-12	ENVIRONS RADIOACTIVITY RADIO-HALOGENS AND PARTICULATES (PORTABLE)	44
E-13	PLANT AND ENVIRONS RADIATION (PORTABLE)	45
E-14	PLANT AND ENVIRONS RADIOACTIVITY (PORTABLE)	46
K-15	WIND DIRECTION	48
E-16	WIND SPEED	49
E-17	ESTIMATION OF ATMOSPHERIC STABILITY	50
E-18	POST ACCIDENT SAMPLING CAPABILITY	47
E-19	POST ACCIDENT SAMPLING CAPABILITY	47

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