CAROLINA POWER & LIGHT COMPANY

SHEARON HARRIS NUCLEAR POWER PLANT

PLANT OPERATING MANUAL

VOLUME 6

PART 7

PROCEDURE TYPE: INSERVICE INSPECTION PROGRAM (ISI)

NUMBER: ISI-201

PROCEDURE TITLE: ASME PRESERVICE INSPECTION PROGRAM PLAN (EXCEPT REACTOR VESSEL)

REVISION 1

APPROVED: Edward M Steudt 12-26-84
Signature Date

TITLE: MGR - TECH SUPPORT

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1.0 INTRODUCTION

This Program Plan has been prepared to fulfill the remaining Preservice Inspection (PSI) requirements for Shearon Harris Nuclear Power Plant. The reactor pressure vessel preservice program plan was previously submitted on March 14, 1983. This Program Plan has been written to meet the requirements specified by the Code of Federal Regulations 10 CFR 50.55a. The Program Plan has been expanded to include augmented inservice inspection requirements which comply with the following:

A. U.S. Nuclear Regulatory Commission Standards Review Plan, Section 3.6.1 "Plant Design for Protection Against Postulated Piping Failures in Fluid Systems Outside Containment" (NUREG 75/087 Updated to NUREG-0800, 1981).

B. U.S. Nuclear Regulatory Commission Standard Review Plan, Section 6.6 "Inservice Inspection of Class 2 & 3 Components" (NUREG-0800, 1981).

C. U.S. Nuclear Regulatory Commission Regulatory Guide 1.14 "Reactor Coolant Pump Flywheel Integrity."

D. Request for additional information from NRC to CP&L by letter dated October 11, 1983.

In addition to the above, the Program Plan also incorporates the SHNPP FSAR commitments on Preservice/Inservice Inspection.

The scope of examinations, procedures and acceptance criteria meet the requirements outlined in Section XI of the ASME Boiler and Pressure Vessel Code, "Rules for Inservice Inspection of Nuclear Power Plant Components," 1980 Edition, with addenda through Winter 1981. Accordingly, all class 1, 2, and 3 pressure retaining components and their supports as defined by 10 CFR 50 and NRC Regulatory Guide 1.26, will be examined to comply with ASME Code Section XI requirements to the extent practicable within the limitations of the component, or system portion, design and geometry.

All Class 1, 2, and 3 water, steam, air and other fluid systems within the scope of ASME Section XI are listed in Table 3.2.2-1 of the FSAR.

Several piping systems will receive augmented inspections for protection against postulated piping failures as outlined in Section 3.6.1 and 6.6 of the Standard Review Plan. The extent of examinations to those piping systems is defined by Shearon Harris Nuclear Power Plant FSAR Section 6.6.8. Augmented examinations will also be performed on the flywheel of the Reactor Coolant pumps in accordance with Regulatory Guide 1.14. Augmented components and examinations are listed in Appendix D.

2.0 REQUIREMENT FOR PRESERVICE INSPECTION

2.1 NRC Regulations

The Preservice Inspection requirements stipulated by 10 CFR 50.55a(g)(3) establish the applicable Edition of Section XI of the ASME Code for the components of a facility whose construction permit was issued after July 1, 1974.

The safety classification system for radioactive water/steam-containing components important to the safety of water-cooled nuclear power plants is discussed in FSAR Section 3.2.

2.2 Definition of Owner Intent

In accordance with the requirements set forth by 10 CFR 50.55a, the Shearon Harris Plant must comply with the requirements of the 1974 Edition of Section XI, with addenda through Summer 1975 as modified by Appendix III of Winter 1975 Addenda. However, in order to comply with a more recent code and addenda, Carolina Power & Light has elected to comply with the 1980 Edition of Section XI, with addenda through Winter 1981 and Code Case N-335.

The extent of examination selection of Class 1 and Class 2 piping has been determined by the requirements of the 1974 Edition of Section XI with Addenda through Summer 1975 as allowed by 10 CFR 50.55a (b)(2).

In addition, this Program Plan includes Augmented Inspections from NUREG 75/087, "Plant Design for Protection Against Postulated Piping Failures in Fluid Systems Outside Containment" and Regulatory Guide 1.14, "Reactor Coolant Pump Flywheel Integrity." Additional inspections will be performed on certain systems required to satisfy NRC questions submitted during the FSAR review.

3.0 EXEMPTIONS

The following exemptions from examination requirements are applicable to Class 1, 2, and 3 piping, components and their supports.

In Appendices A and B of this Program Plan under Code categories B-J for Class 1 and C-F for Class 2 piping welds, the specific line number identified and the corresponding examination method required is applicable to all circumferential welds located on that portion of pipe. Realizing this a conservative basis for weld selection for Class 2 piping PSI, this approach will not only enhance system reliability but, will consequentially establish superior baseline information for future Code examination requirements.

3.1 Class 1

Components except piping will be exempted in accordance with IWB-1220 (1980 Edition thru and including Winter 1981 Addenda) from the volumetric and surface examination requirements of IWB-2500. Category B-J components will be exempted in accordance with IWB-1220 (1974 Edition thru and including Summer 1975 Addenda) from the volumetric and surface examination requirements of IWB-2500.

In Code Categories B-L-2 and B-M-2 a VT-3 examination is required. It is CP&L's position that this is an Inservice requirement and does not apply to Preservice.

Class 1 nonexempt components and examination requirements are listed in Appendix A.

3.2 Class 2

Components except piping will be exempted in accordance with IWC-1220 (1980 Edition thru and including Winter 1981 Addenda) from the volumetric and surface examination requirements of IWC-2500. Category C-F components will be exempted in accordance with IWC-1220 (1974 Edition thru and including Summer 1975 Addenda) from the volumetric and surface examination requirements of IWC-2500. The control of water chemistry to minimize stress corrosion described in Paragraph IWC-1220(c) is not used as a basis for exempting components.

The current PSI Program for Class 2 piping system welds subject to examination encorporates a significant number of surface examinations because of design wall thickness. 10CFR50.55a(b)(2)(iv) requires that ASME Code Class 2 piping welds in the Residual Heat Removal (RHR) Systems, Emergency Core Cooling (ECCS) Systems, and Containment Heat Removal (CHR) Systems be examined. These systems were exempted by Section XI exclusion criteria in IWC-1220. To satisfy regulatory inspection requirements CP&L implemented an augmented program (Appendix D, Note 5) of inspection to perform a volumetric and/or surface examination on a large representative sample of welds in these systems. The same criteria of Paragraph 2 of Section 3.0 has also been applied for weld selection where all the circumferential of the time listed are to examined. The lines selected for augmentation are in areas that CP&L evaluated to be service sensitive.

Within the scope of the PSI Program Plan there are no Code Category C-D or C-G components subject to inspection requirements of Table IWC-2500-1.

Class 2 nonexempt components and examination requirements are listed in Appendix B.

3.3 Class 3

Integral attachments of supports and restraints to components will be exempted in accordance with IWD-1220 (1980 Edition thru and including Winter 1981 Addenda) from the visual examination VT-3, except that all Auxiliary Feedwater integral attachments on piping greater than 1" nominal pipe size will receive a VT-3 visual examination.

Class 3 nonexempt components and examination requirements are listed in Appendix C.

3.4 Component Supports

Component supports selected for examination will be the supports of those components greater than one inch in diameter that are required to be examined under IWB, IWC, and IWD. In addition, the examination requirements shall apply to the component support types identified in IWF-1210.

Preservice inspection shall be performed by the required examinations listed in Table IWF-2500-1. All required VT-3 examinations will commence upon completion of Final System Turnover on a system as described in the Harris Plant Start-up Manual.

All snubbers will receive a preservice inspection and functional test prior to the commencement of hot functional testing of completed systems. Manufacturers test data may be used to satisfy the Preservice testing requirements.

3.5 Exempt Components

All Class 1, 2 and 3 components exempted from Preservice examination requirements will have undergone the system hydrostatic test when the system has been completed as required by ASME Section III. Preservice hydrostatic testing is not required by Section XI, IWA-5215.

4.0 EXCEPTIONS

Exceptions to Code required examinations may be authorized by the regulatory authority, as allowed by 10 CFR 50.55 a(a)(2), provided that design fabrication, installation, testing and inspection performed in compliance with Codes and Section XI requirements would result in hardship without a compensating increase in the level of quality and safety, or provided that the proposed alternative examination will provide an acceptable level of quality and safety.

Detailed descriptions and justifications for exceptions taken will be submitted when needed by a Request for Relief. Relief requests identified during PSI will be submitted identifying all plant

4.0 EXCEPTIONS (continued)

specific areas where the Code requirements cannot be met and supporting technical justification at least 6 (six) months prior to anticipated fuel loading where applicable.

5.0 QUALITY ASSURANCE

The PSI Program Plan will be performed in accordance with the requirements of the CP&L Quality Assurance Manual which is in compliance with Appendix B of 10 CFR 50.

6.0 EXAMINATION PROCEDURES

Subarticle IWA-1400 of Section XI requires the development and preparation of written examination procedures necessary for the conduct of the nondestructive examinations associated with PSI operations. The written procedures for the performance of visual, surface, and volumetric examinations are provided by the NDE Contractor and will be reviewed and approved by CP&L prior to use.

Methods, techniques, and procedures for the preservice inspections are titled visual, surface, and volumetric. Each term describes a general method permitting a selection of different techniques and procedures restricted to that method to accommodate varying degrees of accessibility and radiation levels.

A visual examination is employed to provide a report of the general condition of the part, component, or surface to be examined, including such conditions as scratches, wear, cracks, corrosion or erosion on the surfaces; misalignment or movement of the part of component; or evidence of leaking. Visual examinations are applicable to welds, support members, valves, pumps, fasteners, cladding, etc. Visual examination procedure is based on the requirements of IWA-2210 of Section XI of the ASME Code.

A liquid penetrant examination is specified as the surface examination method to delineate or verify the presence of cracks or discontinuities open to the examination surface. Liquid penetrant examination procedure is in compliance with the requirements of Article 6 of Section V of the ASME Code, as required by Section XI IWA-2222. As a substitute to liquid penetrant, SHNPP can utilize a magnetic particle examination to satisfy surface examination requirements.

The ultrasonic pulse echo examination is selected as the volumetric examination method to indicate the presence of subsurface discontinuities by examining the entire volume of metal contained beneath the surface to be examined. Ultrasonic examination is in compliance with Appendix III of Section XI (or Articles 4 and 5 of Section V, as applicable) of the ASME Code, as required by Section XI IWA-2232 and including Code Case N-335 as amended in Section 7.0. Radiography may be used as a substitute

for ultrasonic examination when access to welds is restricted.

7.0 ULTRASONIC TESTING

The calibration standard design drawing is part of the PSI Program Plan and shown in Figure 1. Table 1 lists all UT Calibration Standards required to perform the UT examinations. All calibration standards are retained on site.

The UT examination calibration standard design and material selection are in accordance with Subarticle III-3400 of Appendix III to Section XI 1980 Edition including Winter 81 addenda. In addition to the required notches, drilled holes have been installed as additional reflectors in accordance with the provisions of Article 5 of Section V of the Code. These additional reflectors are allowed by Subarticle III-3400 of Appendix III of Section XI.

A. In addition to this requirement it is CP&L's intent to perform ultrasonic examinations on austenitic stainless steel piping utilizing ASME Boiler and Pressure Vessel Code Case N-335 with the following input:

1. Personnel and procedures used to perform the examinations shall be qualified in accordance with a program described in Appendix E. The J. A. Jones EPRI NDE Center IGSCC Training/Qualification Program may be used in lieu of or integral to this program.

2. Level I examiners will not be used to monitor the ultrasonic instrument during examinations.

3. The typical calibration block design to be utilized is shown in Figure 1. CP&L reserves the right to change segments of piping used dependent upon pipe size, (e.g., small diameter piping $\leq$4 in. may be 360 degree sections). Calibration reflectors shall be installed as follows:

   a. For calibration blocks with pipe wall nominal thicknesses of one (1) inch and greater Paragraph A.4 below applies.

   b. For calibration blocks with pipe wall nominal thickness less than one (1) inch to and including 0.5 inch a single side drilled hole (SDH) will be installed at 1/2t. Notches will be staggered at the I.D. and O.D. locations.

   c. For calibration blocks with pipe wall nominal thickness less than 0.5 inch no SDH will be installed. I.D. and O.D. notches will be staggered to prevent interference during calibration.

4. For angle beam calibration Subparagraph 3.2.2(d), of Code Case N-335 is revised to read as follows:

   a. "Where the calibration is limited to the half V path due to material attenuation or examination technique selection, side drilled holes shall be used to obtain the slope and shape of the DAC curve. A minimum of two holes, each of the same diameter and located at 1/4t and 3/4t, shall be placed in the calibration block. The diameter of the holes shall be in accordance with Fig. T-546.1 of Article 5 of Section V. The holes shall be perpendicular to the examination beam direction. The minimum hole length shall be 1½ inches. Calibration shall be accomplished by constructing a DAC curve from the side drilled holes so that the maximum amplitude point is at 80% FSH. Once the shape and slope are determined and marked on the screen, the curve shall be extrapolated 1/4t to cover the full examination thickness. Next, establish the sensitivity from the inside diameter (I.D.) surface notches by setting the indication amplitude at the level of the DAC curve."

5. Recording requirements of Subparagraph 4.5.1, Code Case N-335 will be amended to read:

   a. The following indications shall be recorded and investigated by a Level II or Level III examiner to the extent necessary to determine the shape, type, and location of the reflector.

      1) An indication of a suspected flaw originating in the HAZ or adjacent base metal regardless of amplitude.

      2) Any indication 20% of DAC or greater than those from geometric or metallurgical origin.

   b. Indications 50% of DAC or greater from geometric or metallurgical origin shall be recorded.

   Criteria to record geometric and metallurgical ultrasonic indications is described as amended above. These indications will not be reported, they will be recorded for the record and for future correlation to similar indications during Inservice Inspection. Ambiguous responses from geometry will be evaluated and characterized on a case basis using multiple ultrasonic techniques and correlation to radiographic results.

7.0 ULTRASONIC TESTING (continued)

6. Since Supplement 7 of Code Case N-335 will be applied to SHNPP austenitic piping welds, concerns regarding Supplement 7 in Appendix III of Section XI do not apply. This position is taken as a result of the major improvements preferred in N-335.

B. The investigation, evaluation, or corrective measures taken as a result of indications recorded during piping ultrasonic examinations shall be based up A.5. above. It is CP&L's belief that in amending N-335, Paragraph 4.5.1 with more stringent requirement in A.5 above will ensure adequate evaluation and, if necessary, corrective action for disposition of any indication investigated and found to be other than geometric or metallurgical in nature.

C. Cast austenitic stainless steel fittings, nozzles, and other piping components will be ultrasonically examined using state-of-the-art techniques. eg. dual search units, etc. Technique limitations due to material attenuation, noise, and access will be documented in the record. Capabilities to examine cast austenitic stainless steel ultrasonically is a function of the thickness involved. Cast main loop piping, cast-to-cast fitting welds or assemblies are recognized uninspectable. Thinner wall cast piping, fittings or assemblies as in the pressurizer surge line are inspectable in most cases using conventional UT techniques. Cast to wrought stainless steel welds will be examined from the wrought side, the cast side will be examined if it is determined that the results are meaningful. The examination record will reflect all scanning limitations.

NOTE: On November 2, 1984, a technical meeting was held with CP&L in the NRC Region II Office for the purpose of providing an opportunity to demonstrate the capabilities of CP&L's ultrasonic examination procedure and equipment to detect actual flaws and artificial reflectors in Region II's Centrifugally Cast Stainless Steel test specimens. CP&L's ultrasonic procedure IST-501, and equipment demonstrated conservative detection capability. The report in total is contained in NRC Report No. 50-400/84-40.

8.0 EVALUATION CRITERIA

Evaluation of any indications detected during PSI shall be made in accordance with IWA-3000 of Section XI. Indications detected may be evaluated by other nondestructive methods, where practical, to assist in the determination of size, shape, location, and orientation before final disposition is made.

9.0 RECORDS AND REPORTS

A system of records of the Preservice Inspection, plans, schedules, and calibration standards; the examination results and reports, the corrective action required and taken, will be developed and maintained at the site in accordance with IWA-6000 of Section XI.

10.0 PERSONNEL QUALIFICATION

Personnel performing nondestructive examination operations shall be qualified with procedures prepared in accordance with SNT-TC-1A, 1980 Edition, for the applicable examination technique and methods as required by IWA-2300 of Section XI. All examinations shall be performed and the results evaluated by qualified nondestructive examination personnel.

For those nondestructive examination methods not covered by SNT-TC-1A documents, qualification will be based on the particular method involved. Such qualification provides for uniform programs of training, evaluation, and certification of personnel. For personnel performing ultrasonic inspections the additional requirements of Section 7.0 will be required.

11.0 PRE-EXAMINATION REQUIREMENTS

General provisions for accessibility have been defined by IWA-1500 of Section XI of the ASME Code.

1. All systems and components that require inspection in accordance with the requirements of ASME Section XI will be designed with adequate physical access to allow the required inspection.

2. It is intended that piping systems requiring ultrasonic inspection will be designed so that all welds requiring inspection are physically accessible for inspection with ultrasonic equipment.

   A. Access will be provided by leaving adequate space around pipes at these welds and by means of removable insulation and shielding as required.

   B. Pipes welded to fittings will be designed to permit meaningful examination by avoidance of irregular surface geometries.

   C. The surface of welds will be smoothed and contoured to permit effective use of ultrasonic transducers or surface examination indicators.

   D. Piping systems requiring surface or visual examination will be designed to allow access and visibility adequate for performance of such examination.

12.0 PROGRAM PLAN NOTES

NOTE 1. Augmented Program FSAR Section 6.6.8.b

NOTE 2. Augmented Program FSAR Section 6.6.8.c

NOTE 3. Augmented Program FSAR Section 6.6.8.d

NOTE 4. Augmented Program FSAR Section 6.6.8.e

NOTE 5. Augmented Program - Review of the FSAR and request for additional information regarding Preservice (PSI)/Inservice (ISI) Program Section 250.1 paragraph 2

NOTE 6. ISI Requirement Only (Not Required for PSI)

NOTE 7. No circumferential weld on this line.

TABLE 1

CALIBRATION BLOCKS

Piping Calibration Blocks	Material	Piping Cal. Block Number	Systems
31" 2.5" MW	SA351 GR.CF8A	UT-6	RC
31" 2.5" MW	A508 CL2	UT-7	RC
29" 2.33 MW	SA376 TP304N	UT-8	RC
2½" sch 80 (XS)	A106 GR.B	UT-10	AF
3" sch 40S (STD)	A312-304	UT-11	RH
3" sch 80 (XS)	A106 GR.B	UT-12	MS
3" sch 160	A106 GR.B	UT-13	FW
3" sch 160	A376-304	UT-14	CS,SI
4" sch 40 (STD)	A106 GR.B	UT-15	BD
4" sch 80 (XS)	A106 GR.B	UT-16	AF
4" sch 160	A376-304	UT-17	CS,RC,SI
6" sch 80 (XS)	A106 GR.B	UT-18	AF,MS
6" sch 120	A106 GR.B	UT-19	FW
6" sch 160	A376-304	UT-20	RC,SI
8" sch 40S (STD)	A312-304	UT-21	CT
8" sch 80 (XS)	A106 GR.B	UT-22	MS
10" sch 140 (XXS)	A376-316	UT-23	SI
12" sch 40S (STD)	A312-304	UT-24	RH
12" sch 60	A106 GR.B	UT-25	MS
12" sch 140	A376-304	UT-26	CS,RC,RH,SI
14" sch 40	A358-304	UT-27	RH
14" sch 160	A376-316	UT-28	RC
16" .668" MW	A106 GR.B	UT-29	FW
16" 1.006" MW	A106 GR.B	UT-30	FW
32" 1.051" MW	A106 GR.C.	UT-31	MS
34" 2.0" MW	A106 GR.C.	UT-32	MS
44" 1.447" MW	A106 GR.C.	UT-33	MS
50" 3.279 MW	A155 KC 70	UT-34	MS
9.226 1.5" MW	A106 GR.C	UT-35	MS

Vessel Calibration Blocks		
Pressurizer Shell	SA533 GRA, CL2	UT-50
S/G Channel Head (PRI)	SA533 GRB, CL1	UT-51
S/G Secondary Shell	SA533 GRA, CL2	UT-52
Regenerative HT EX	SA351 - CF8	UT-53
RHR HT EX	SA515 - 70	UT-54
BIT Shell	SA351 CF8A	UT-55
BIT Head	SA240 Type 304	UT-56

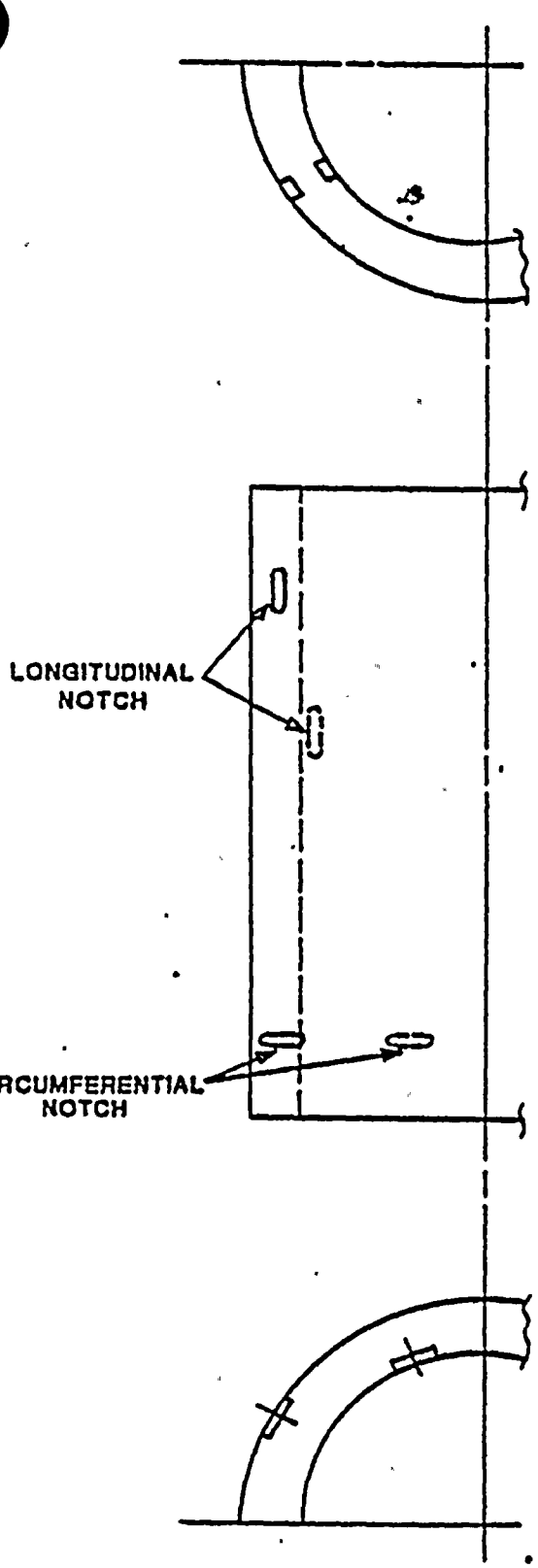

FIG. 3.4.3-2 RECOMMENDED DESIGN FOR BASIC CALIBRATION BLOCK

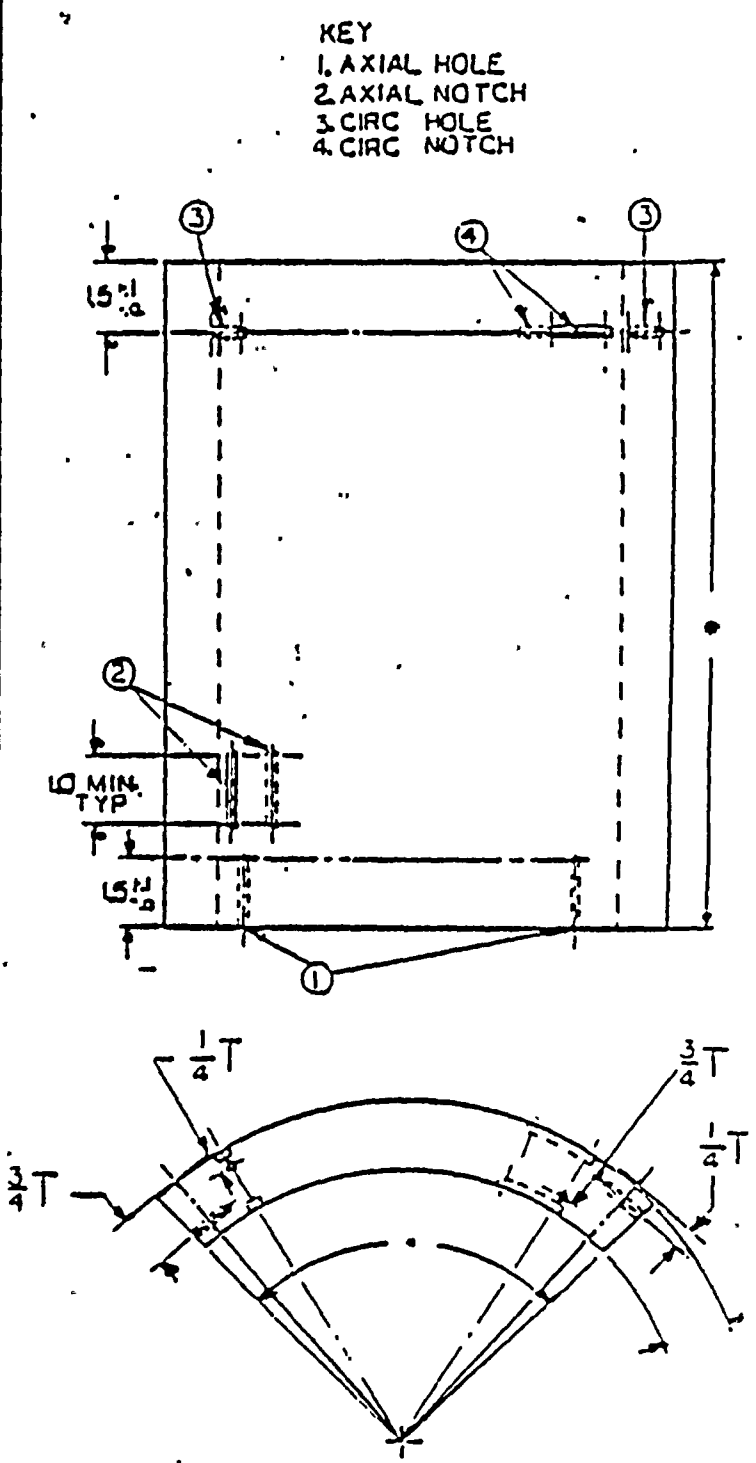

FIG. III-3430-2 RECOMMENDED DESIGN FOR BASIC PIPING CALIBRATION BLOCK *

* LENGTH/ARC SHALL BE ADEQUATE TO PROVIDE REQUIRED ANGLE BEAM CALIBRATION. FOR PIPE SCHEDULES LESS THAN ONE (1) INCH NOMINAL WALL THICKNESS:
1. STAGGER NOTCH ID/OD LOCATIONS
2. A 1/2t SIDE DRILLED HOLE MAY BE USED IN LIEU OF 1/4t AND 3/4t SDH.

APPENDIX A

CLASS 1

INSPECTION PLAN SUMMARY

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 80W81

CATEGORY: B-B, Pressure Retaining Welds in Vessels other than Reactor Vessels
ITEM: B2.11, Circumferential Welds

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
PZR	801	J-6		Vol		

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 80W81

CATEGORY: B-B, Pressure Retaining Welds in Vessels other than Reactor Vessels
ITEM: B2.12, Longitudinal Welds

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
PZR	801	J-6		Vol		

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 80W81

CATEGORY: B-B, Pressure Retaining Welds in Vessels other than Reactor Vessel
ITEM: B2.40, Tubesheet-to-Head Weld (Primary Side)

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
S/G	800	E-4	1A	Vol		
S/G	800	H-4	1B	Vol		
S/G	800	E-17	1C	Vol		

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 80W81

CATEGORY: B-D, Full Penetration Welds of Nozzles in Vessels - Inspection Program B
ITEM: B3.110, Nozzle to Vessel Welds

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
PZR	801	J-6		Vol		

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 80W81

CATEGORY: B-D, Full Penetration Welds of Nozzles in Vessels - Inspection Program B
ITEM: B3.120, Nozzle Inside Radius Section

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
PZR	801	J-6		Vol		

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 80W-1

CATEGORY: B-D, Full Penetration Welds of Nozzles in Vessels - Inspection Program B
ITEM: B3.130, Nozzle-to-Nozzle Welds

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
S/G	800	E-4	1A	Vol		
S/G	800	H-4	1B	Vol		
S/G	800	E-17	1C	Vol		

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 1980W81

CATEGORY: B-D, Full Penetration Welds of Nozzles in Vessels - Inspection Program B
ITEM: B3.140, Nozzle Inside Radius Section

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
S/G	800	E-4	1A	Vol		
S/G	800	H-4	1B	Vol		
S/G	300	E-17	1C	Vol		

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 80W81

CATEGORY: B-E, Pressure Retaining Partial Penetration Welds in Vessels
ITEM: B4.20, Heater Penetration Welds

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
PZR	801	J-6		VT-2		6

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 80W81

CATEGORY: B-F, Pressure Retaining Dissimilar Metal Welds
ITEM: B5.40, Nozzle-to-Safe End Butt Welds, nps $\geq$ 4", Pressurizer

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
RC	801	L-6	RC14-35	Vol & Sur		
RC	801	I-6	RC6-124	Vol & Sur		
RC	801	I-6	RC6-126	Vol & Sur		
RC	801	I-6	RC6-128	Vol & Sur		
RC	801	I-6	RC6-135	Vol & Sur		
RC	801	I-6	RC6-231	Vol & Sur		

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 80W81

CATEGORY: B-F, Pressure Retaining Dissimilar Welds
ITEM: B5.70, Nozzle-to-Safe End Butt Welds, nps ≥ 4", Steam Generator

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
RC	800	F-3	RC31-2	Vol & Sur		
RC	800	I-3	RC31-5	Vol & Sur		
RC	800	F-17	RC31-8	Vol & Sur		
RC	800	F-4	RC29-1	Vol & Sur		
RC	800	I-4	RC29-4	Vol & Sur		
RC	800	F-17	RC29-7	Vol & Sur		

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 80W81

CATEGORY: B-G-1, Pressure Retaining Bolting, Greater than 2" in Diameter
ITEM: B6.180, Bolts and Studs

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
RCP	800	C-3	1A	Vol		
RCP	300	L-3	1B	Vol		
RCP	300	C-17	1C	Vol		

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 80W81

CATEGORY: B-G-1, Pressure Retaining Bolting, Greater than 2" in Diameter
ITEM: B6.190, Flange Surface

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
RCP	800	C-3	1A	VT-1		
RCP	800	L-3	1B	VT-1		
RCP	800	C-17	1C	VT-1		

SHE..RON HARRIS UNIT NO. 1
PRESERVICE _ISPECTION PROGRAM PLAN SUMMARY
ASME ECTION XI EDITION 80W81

CATEGORY: B-G-1, Pressure Retaining Bolting, Greater than 2" in Diameter
ITEM: B6.200, Nuts, Bushings and Washers

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
RCP	800	C-3	1A	VT-1		
RCP	800	L-3	1B	VT-1		
RCP	800	C-17	1C	VT-1		

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 80W81

CATEGORY: B-G-2, Pressure Retaining Bolting, 2" and less in Diameter
ITEM: B7.20, Bolts, Studs and Nuts

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
PZR	301	J-6	--	VT-1		

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 80W81

CATEGORY: B-G-2, Pressure Retaining Bolting, 2" and less in Diameter
ITEM: B7.30, Bolts, Studs and Nuts (Vessels)

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
Stm Gen	800	C-3	1A	VT-1		
Stm Gen	800	L-3	1B	VT-1		
Stm Gen	800	C-17	1C	VT-1		

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 80W81

CATEGORY: B-G-2, Pressure Retaining Bolting, 2" and less in Diameter
ITEM: B7.50, Bolts, Studs and Nuts (Piping)

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
CS	803	I-6	CS1½-16	VT-1		
CS	803	I-6	CS1½-17	VT-1		
CS	803	I-6	CS1½-18	VT-1		
RC	802	D-6	RC3-21	VT-1		
RC	802	D-6	RC3-40	VT-1		
RC	802	D-6	RC3-61	VT-1		
RC	802	E-6	RC2-24	VT-1		
RC	802	E-6	RC2-43	VT-1		
RC	802	E-6	RC2-64	VT-1		

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 80W81

CATEGORY: B-G-2, Pressure Retaining Bolting, 2" and less in Diameter
ITEM: B7.70, Bolts, Studs and Nuts (Valves)

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
RC	800	B-3	V500	VT-1		
RC	800	C-2	V501	VT-1		
RC	800	M-2	V502	VT-1		
RC	800	C-18	V503	VT-1		
RC	801	E-2	V526	VT-1		
RC	801	E-1	V527	VT-1		
RC	801	H-2	V528	VT-1		
RC	801	I-10	P525	VT-1		
RC	801	K-10	P526	VT-1		
RC	801	E-1	P527	VT-1		
RC	801	F-1	P528	VT-1		
RC	801	H-1	P529	VT-1		
RC	801	F-8	R528	VT-1		
RC	801	F-6	R529	VT-1		
RC	801	F-4	R530	VT-1		
RC	802	E-6	V540	VT-1		
RC	802	E-6	V541	VT-1		
RC	802	E-6	V542	VT-1		
CS	803	A-3	L500	VT-1		
CS	803	A-4	L501	VT-1		
CS	803	C-3	V504	VT-1		
CS	803	C-3	V505	VT-1		
CS	803	B-3	V506	VT-1		
CS	803	B-3	V507	VT-1		

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 80W81

CATEGORY: B-G-2. Pressure Retaining Bolting, 2" and less in Diameter
ITEM: B7.70. Bolts, Studs and Nuts (Valves)

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
SI	308	B-3	V507	VT-1		
SI	308	C-3	V508	VT-1		
SI	308	D-3	V509	VT-1		
SI	308	B-11	V510	VT-1		
SI	308	C-11	V511	VT-1		
SI	308	B-17	V512	VT-1		
SI	308	C-17	V513	VT-1		
SI	308	D-17	V514	VT-1		
SI	309	D-6	V544	VT-1		
SI	309	H-6	V545	VT-1		
SI	309	K-6	V546	VT-1		
SI	309	D-3	V547	VT-1		
SI	309	H-3	V548	VT-1		
SI	309	K-3	V549	VT-1		
SI	310	C-2	V584	VT-1		
SI	310	E-2	V585	VT-1		
SI	310	E-2	V586	VT-1		
RH	324	L-4	V503	VT-1		
RH	324	L-3	V502	VT-1		
RH	324	I-4	V501	VT-1		
RH	324	I-3	V500	VT-1		

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 80W81

CATEGORY: B-H, Integral Attachments for Vessels
ITEM: B8.20, Integrally Welded Attachments

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
PZR	801	J-6	--	Vol or Sur		

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 74S75

CATEGORY: B-J, Pressure Retaining Welds in Piping
ITEM: B9.11, Circumferential Welds, nps ≥ 4"

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
RC	800	E-1	RC31-2	Vol & Sur		
RC	800	K-1	RC31-5	Vol & Sur		
RC	800	E-19	RC31-8	Vol & Sur		
RC	800	G-7	RC29-1	Vol & Sur		
RC	800	J-7	RC29-4	Vol & Sur		
RC	800	G-14	RC29-7	Vol & Sur		
RC	800	D-6	RC27½-3	Vol & Sur		
RC	800	L-7	RC27½-6	Vol & Sur		
RC	800	C-14	RC27½-9	Vol & Sur		
RC	800	J-4	RC14-35	Vol & Sur		
RC	800	G-6	RC12-12	Vol & Sur		
RC	800	D-8	RC12-26	Vol & Sur		
RC	800	L-6	RC12-46	Vol & Sur		
RC	800	F-11	RC12-51	Vol & Sur		
RC	800	C-11	RC12-65	Vol & Sur		
RC	800	G-8	RC6-10	Vol & Sur		
RC	800	D-8	RC6-27	Vol & Sur		
RC	800	I-9	RC6-29	Vol & Sur		
RC	800	L-9	RC6-47	Vol & Sur		
RC	800	G-10	RC6-49	Vol & Sur		
RC	800	E-10	RC6-66	Vol & Sur		
RC	800	D-6	RC6-25	Vol & Sur		
RC	800	M-5	RC4-44	Vol & Sur		
RC	801	M-6	RC14-35	Vol & Sur		
RC	801	I-9	RC6-122	Vol & Sur		
RC	801	H-8	RC6-124	Vol & Sur		
RC	801	H-6	RC6-126	Vol & Sur		
RC	801	H-5	RC6-128	Vol & Sur		
RC	801	H-3	RC6-135	Vol & Sur		
RC	801	J-11	RC4-25	Vol & Sur		
RC	801	K-11	RC4-44	Vol & Sur		
RC	801	I-7	RC4-231	Vol & Sur		

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 74S75

CATEGORY: B-J, Pressure Retaining Welds in Piping
ITEM: B9.11, Circumferential Welds, nps ≥ 4"

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
SI	308	B-5	SI6-272	Vol & Sur		
SI	308	C-5	SI6-271	Vol & Sur		
SI	308	D-4	SI6-270	Vol & Sur		
SI	308	B-14	SI6-81	Vol & Sur		
SI	308	C-14	SI6-80	Vol & Sur		
SI	308	D-17	SI6-314	Vol & Sur		
SI	309	D-4	SI12-161	Vol & Sur		
SI	309	G-4	SI12-162	Vol & Sur		
SI	309	J-4	SI12-163	Vol & Sur		
RH	324	I-4	RH12-39	Vol & Sur		
RH	324	L-4	RH12-38	Vol & Sur		

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 74S75

CATEGORY: B-J, Pressure Retaining Welds in Piping
ITEM: B9.21, Circumferential Welds, nps G.T. 1" and L.T. 4"

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
RC	800	D-2	RC3-21	Sur		
RC	800	D-3	RC3-23	Sur		
RC	800	E-8	RC3-28	Sur		
RC	800	M-7	RC3-45	Sur		
RC	800	M-2	RC3-40	Sur		
RC	800	C-18	RC3-61	Sur		
RC	801	H-2	RC3-139	Sur		
RC	801	F-2	RC3-140	Sur		
RC	801	E-2	RC3-141	Sur		
RC	802	E-6	RC3-21	Sur		
RC	802	E-6	RC3-40	Sur		
RC	802	E-6	RC3-61	Sur		
CS	803	A-3	CS3-116	Sur		
CS	803	B-3	CS3-117	Sur		
CS	803	C-3	CS3-118	Sur		
CS	803	I-4	CS1½-16	Sur		
CS	803	I-4	CS1½-17	Sur		
CS	803	I-4	CS1½-18	Sur		

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 74S75

CATEGORY: B-J, Pressure Retaining Welds in Piping
ITEM: B9.31, Branch Pipe Connection Welds, nps $\geq$ 4"

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
RC	800	G-7	RC29-1	Vol & Sur		
RC	800	J-7	RC29-4	Vol & Sur		
RC	800	G-14	RC29-7	Vol & Sur		
RC	800	D-6	RC27½-3	Vol & Sur		
RC	800	L-7	RC27½-6	Vol & Sur		
RC	800	C-14	RC27½-9	Vol & Sur		

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 74S75

CATEGORY: B-J, Pressure Retaining Welds in Piping
ITEM: B9.32, Branch Pipe Connection Welds, nps G.T. 1" and L.T. 4"

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
RC	800	E-1	RC31-2	Sur		
RC	800	K-1	RC31-5	Sur		
RC	800	E-19	RC31-8	Sur		
RC	800	G-7	RC29-1	Sur		
RC	800	J-7	RC29-4	Sur		
RC	800	G-14	RC29-7	Sur		
RC	300	D-6	RC27½-3	Sur		
RC	800	L-7	RC27½-6	Sur		
RC	300	C-4	RC27½-9	Sur		
SI	808	C-5	SI6-272	Sur		
SI	808	C-5	SI6-271	Sur		
SI	808	D-4	SI6-270	Sur		
SI	808	B-14	SI6-81	Sur		
SI	808	C-14	SI6-80	Sur		

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 74S75

CATEGORY: B-J, Pressure Retaining Welds in Piping
ITEM: B9.40, Socket Welds, nps G.T. 1"

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
RC	800	G-6	RC2-16	Sur		
RC	800	D-5	RC2-24	Sur		
RC	800	D-3	RC2-71	Sur		
RC	800	C-3	RC2-22	Sur		
RC	800	J-6	RC2-34	Sur		
RC	800	L-4	RC2-43	Sur		
RC	800	M-3	RC2-41	Sur		
RC	800	F-14	RC2-55	Sur		
RC	800	D-18	RC2-63	Sur		
RC	800	D-17	RC2-64	Sur		
RC	801	H-10	RC2-123	Sur		
RC	801	K-11	RC1½-284	Sur		
RC	801	J-11	RC1½-285	Sur		
RC	802	E-11	RC2-16	Sur		
RC	802	E-2	RC2-24	Sur		
RC	802	E-11	RC2-34	Sur		
RC	802	E-2	RC2-43	Sur		
RC	802	E-11	RC2-55	Sur		
RC	802	E-2	RC2-64	Sur		
CS	803	D-3	CS2-658	Sur		
SI	808	C-3	SI2-18	Sur		
SI	808	C-6	SI2-63	Sur		
SI	808	D-4	SI2-22	Sur		
SI	808	D-7	SI2-59	Sur		
SI	808	D-5	SI2-26	Sur		
SI	808	D-8	SI2-55	Sur		
SI	808	C-12	SI2-36	Sur		
SI	808	C-14	SI2-69	Sur		
SI	808	C-13	SI2-40	Sur		
SI	808	C-16	SI2-73	Sur		
SI	808	D-16	SI2-78	Sur		
SI	808	D-16	SI2-77	Sur		
SI	808	D-14	SI2-43	Sur		

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 74S75

CATEGORY: B-K-1, Integral Attachments for Piping, Pumps, and Valves
ITEM: B10.10, Integrally Welded Attachments

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
RC	800	L-5	RC4-44	Sur		
RC	801	H-6	RC6-126	Sur		
RC	301	F-2	RC3-140	Sur		
RC	801	H-2	RC3-139	Sur		
RC	801	E-2	RC3-141	Sur		
SI	808	D-4	SI6-270	Sur		
SI	808	C-5	SI6-271	Sur		
SI	808	B-5	SI6-272	Sur		
SI	808	C-14	SI6-80	Sur		
SI	808	B-14	SI6-81	Sur		
RH	824	L-4	RH12-38	Sur		

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 74S75

CATEGORY: B-L-1, Pressure Retaining Welds in Pump Casing
ITEM: B12.10, Pump Casing Welds

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
RCP	800	C-3	1A	Vol		
RCP	800	L-3	1B	Vol		
RCP	800	C-17	1C	Vol		

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 74S75

CATEGORY: B-L-2, Pump Casing and Valve Bodies
ITEM: B12.20, Pump Casing

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
RCP	800	C-3	1A	VT-3		
RCP	800	L-3	1B	VT-3		
RCP	800	C-17	1C	VT-3		

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 80W81

CATEGORY: B-M-2, Pump Casing and Valve Bodies
ITEM: B12.50, Valve Body G.T. 4" nps

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
RC	801	F-8	R528	VT-3		
RC	801	F-6	R529	VT-3		
RC	801	F-4	R530	VT-3		
SI	808	B-3	V507	VT-3		
SI	808	C-3	V508	VT-3		
SI	808	D-3	V509	VT-3		
SI	808	B-11	V510	VT-3		
SI	808	C-11	V511	VT-3		
SI	808	B-17	V512	VT-3		
SI	808	C-17	V513	VT-3		
SI	808	D-17	V514	VT-3		
SI	809	D-6	V544	VT-3		
SI	809	H-6	V545	VT-3		
SI	809	K-6	V546	VT-3		
SI	809	D-3	V547	VT-3		
SI	809	H-3	V548	VT-3		
SI	809	K-3	V549	VT-3		
SI	810	C-2	V584	VT-3		
SI	810	F-2	V585	VT-3		
SI	810	E-2	V586	VT-3		
RH	824	I-3	V500	VT-3		
RH	824	I-4	V501	VT-3		
RH	824	L-3	V502	VT-3		
RH	824	L-4	V503	VT-3		

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 80W81

CATEGORY: B-Q, Steam Generator Tubing
ITEM: B16.20, U-Tube Steam Generator Tubing

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
S/G	800	E-3	1A	Vol		
S/G	800	H-3	1B	Vol		
S/G	800	E-17	1C	Vol		

APPENDIX B

CLASS 2

INSPECTION PLAN SUMMARY

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 80W81

CATEGORY: C-A, Pressure Retaining Welds in Pressure Vessels .
ITEM: C1.10, Shell Circumferential Welds

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
S/G	042	E-1	1A	Vol		
S/G	042	I-1	1B	Vol		
S/G	042	L-1	1C	Vol		
Rgn Ht Xchg	803	C-8		Vol		
X.L. Ht Xchg	803	D-11		Vol		
RHR Ht Xchg	824	C-14	1A	Vol		
RHR Ht Xchg	824	E-14	1B	Vol		

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 80W81

CATEGORY: C-A, Pressure Retaining Welds in Pressure Vessels
ITEM: C1.20, Head Circumferential Welds

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
S/G	042	E-1	1A	Vol		
S/G	042	I-1	1B	Vol		
S/G	042	L-1	1C	Vol		
Rgn Ht Xchg	803	C-8		Vol		
X.L Ht Xchg	803	D-11		Vol		
B.I.T.	808	J-3		Vol		
RHR Ht Xchg	824	C-14	1A	Vol		
RHR Ht Xchg	824	E-14	1B	Vol		

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 80W81

CATEGORY: C-A, Pressure Retaining Welds in Pressure Vessels
ITEM: C1.30, Tubesheet-To-Shell Welds

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
S/G	042	E-1	1A	Vol		
S/G	042	I-1	1B	Vol		
S/G	042	L-1	1C	Vol		

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 80W81

CATEGORY: C-B, Pressure Retaining Nozzle Welds in Vessels
ITEM: C2.21, Nozzle to Shell (or Head) Weld, Nozzles without Reinforcing Plate in Vessels G.T. ½" nom. Thickness

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
B.I.T.	808	J-3	--	Vol & Sur		
S/G	42	E-1	1A	Vol & Sur		
S/G	42	I-1	1B	Vol & Sur		
S/G	42	L-1	1C	Vol & Sur		

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 80W81

CATEGORY: C-B, Pressure Retaining Nozzle Welds in Vessels
ITEM: C2.31, Reinforcing Plate Welds to Nozzle and Vessels in Vessels G.T. ½" nom. Thickness

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
RHR Ht Xchg	824	C-14	1A	Sur		
RHR Ht Xchg	824	E-14	1B	Sur		

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 80W81

CATEGORY: C-B, Pressure Retaining Nozzle Welds in Vessels
ITEM: C2.32, Nozzle to Shell in Vessels G.T. ½" nom. Thickness, Inside of Vessel Inaccessible

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
RHR Ht Xchg	824	C-14	1A	VT-2		6
RHR Ht Xchg	824	E-14	1B	VT-2		6

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 80W81

CATEGORY: C-C, Integral Attachments for Vessels, Piping Pumps, and Valves
ITEM: C3.10, Integrally Welded Attachments for Pressure Vessels

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
Regenerative Ht Xchg	803	C-8		Sur		
Excess Letdown Ht Xchg	303	D-11		Sur		
B.I.T.	308	J-3		Sur		
Accuml	309	C-11	1A	Sur		
Accuml	309	F-11	1B	Sur		
Accuml	309	I-11	1C	Sur		
RHR Ht Xchg	324	C-14	1A	Sur		
RHR Ht Xchg	324	E-14	1B	Sur		

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 80W81

CATEGORY: C-C, Integral Attachments for Vessels, Piping Pumps, and Valves
ITEM: C3.20, Integrally Welded Attachments for Piping

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
MS	042	H-1	MS32-2	Sur		
MS	042	K-1	MS32-3	Sur		
MS	042	D-2	MS32-1	Sur		
FW	044	L-2	FW16-69	Sur		
FW	044	D-2	FW16-67	Sur		
AF	044	C-6	AF6-59	Sur		
AF	044	C-6	AF6-60	Sur		
CT	050	K-13	CT12-3	Sur		
CT	050	M-10	CT12-7	Sur		
CT	050	F-16	CT12-4	Sur		
CT	050	J-16	CT12-6	Sur		
CT	050	F-8	CT8-10	Sur		
CT	050	K-8	CT8-15	Sur		
CT	050	F-2	CT6-60	Sur		
CT	050	K-2	CT6-62	Sur		
CS	803	D-9	CS12-721	Sur		
CS	805	J-12	CS8-282	Sur		
CS	805	J-11	CS8-284	Sur		
CS	805	I-12	CS8-281	Sur		

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 80W81

CATEGORY: C-C, Integral Attachments for Vessels, Piping Pumps, and Valves
ITEM: C3.20, Integrally Welded Attachments for Piping

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
SI	809	D-8	SI12-223	Sur		
SI	809	K-8	SI12-225	Sur		
SI	810	M-7	SI14-254	Sur		
SI	810	C-5	SI10-309	Sur		
SI	810	E-4	SI10-258	Sur		
SI	810	E-6	SI10-257	Sur		
SI	810	B-4	SI6-264	Sur		
SI	810	C-2	SI6-269	Sur		
SI	810	E-3	SI6-283	Sur		
RH	824	I-5	RH12-6	Sur		
RH	824	L-5	RH12-1	Sur		
RH	824	I-12	RH10-8	Sur		
RH	824	E-9	RH10-9	Sur		
RH	824	C-8	RH10-4	Sur		

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 80W81

CATEGORY: C-C, Integral Attachments for Vessels, Piping, Pumps, and Valves
ITEM: C3.30, Integrally Welded Attachments for Pumps

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
CSIP	305	H-9	1A	Sur		
CSIP	305	K-9	1B	Sur		
CSIP	305	J-9	1C	Sur		

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 74S75

CATEGORY: C-F, Pressure Retaining Welds in Piping
ITEM: C-5.11, Circumferential Welds, Th $\leq$ ½" Nom.

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
CS	305	K-12	CS8-320	Sur		
CS	305	K-11	CS8-302	Sur		
CS	305	K-13	CS8-327	Sur		
CS	305	J-12	CS8-282	Sur		
CS	305	J-12	CS8-321	Sur		
CS	305	I-12	CS8-281	Sur		
CS	305	J-11	CS8-284	Sur		
CS	305	H-10	CS6-285	Sur		
CS	305	J-10	CS6-288	Sur		
CS	305	K-10	CS6-290	Sur		
SI	309	D-8	SI12-158	Sur		
SI	309	H-10	ST12-159	Sur		
SI	309	K-10	ST12-160	Sur		
SI	810	M-4	SI14-251	Sur		
SI	810	M-7	SI14-254	Sur		
SI	810	M-11	SI14-256	Sur		
SI	810	N-4	SI14-252	Sur		
SI	810	N-8	SI14-253	Sur		
SI	810	N-11	SI14-255	Sur		
SI	810	E-6	SI10-257	Sur		
SI	810	B-4	SI10-264	Sur		
SI	810	C-5	SI10-309	Sur		
SI	810	E-4	SI10-258	Sur		
SI	810	B-5	SI8-265	Sur		

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 74S75

CATEGORY: C-F, Pressure Retaining Welds in Piping
ITEM: C-5.11, Circumferential Welds, Th ≤ ½" Nom.

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
RH	324	L-9	RH14-2	Sur		
RH	324	I-8	RH14-7	Sur		
RH	324	L-5	RH12-1	Sur		
RH	324	I-5	RH12-6	Sur		
RH	824	L-12	RH10-3	Sur		
RH	324	C-8	RH10-4	Sur		
RH	824	I-12	RH10-8	Sur		
RH	824	E-9	RH10-9	Sur		
RH	324	C-13	RH8-20	Sur		
RH	824	E-14	RH8-5	Sur		
RH	824	E-12	RH8-33	Sur		
RH	824	G-11	RH8-10	Sur		
MS	042	C-8	MS8-107	Sur		
MS	042	J-7	MS8-109	Sur		
MS	042	G-8	MS8-108	Sur		
MS	042	K-7	MS6-57	Sur		
MS	042	H-7	MS6-56	Sur		
AF	044	C-6	AF6-59	Sur		
AF	044	I-5	AF6-7	Sur		
AF	044	M-5	AF6-60	Sur		
AF	044	C-2	AF6-93	Sur		
AF	044	C-2	AF6-92	Sur		
AF	044	C-2	AF6-91	Sur		
CT	050	F-16	CT12-4	Sur		
CT	050	J-16	CT12-6	Sur		
CT	050	K-13	CT12-3	Sur		
CT	050	M-10	CT12-7	Sur		
CT	050	F-8	CT8-10	Sur		
CT	050	K-8	CT8-15	Sur		
CT	050	F-5	CT6-14	Sur		
CT	050	F-3	CT6-163	Sur		
CT	050	F-2	CT6-60	Sur		
CT	050	K-2	CT6-62.	Sur		
CT	050	L-4	CT6-19	Sur		
CT	050	L-3	CT6-162	Sur		

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 74S75

CATEGORY: C-F, Pressure Retaining Welds in Piping
ITEM: C-5.12, Longitudinal Welds, Th $\leq$ ½" Nom.

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
SI	310	N-8	SI14-253	Sur		
SI	310	M-7	SI14-254	Sur		
RH	324	L-9	RH14-2	Sur		
RH	324	I-8	RH14-7	Sur		
RH	324	L-5	RH12-6	Sur		
RH	324	I-5	RH12-1	Sur		

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 74S75

CATEGORY: C-F, Pressure Retaining Welds in Piping
ITEM: C5.21, Circumferential Welds, Th $\leq$ ½" Nom.

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
CS	803	D-9	CS12-721	Vol & Sur		
SI	808	C-11	SI10-304	Vol & Sur		
SI	808	C-11	SI6-27	Vol & Sur		
SI	808	C-11	SI6-28	Vol & Sur		
SI	809	D-8	SI12-223	Vol & Sur		
SI	809	H-8	SI12-224	Vol & Sur		
SI	809	K-8	SI12-225	Vol & Sur		
SI	810	B-2	SI10-304	Vol & Sur		
SI	810	C-3	SI10-308	Vol & Sur		
SI	810	E-3	SI10-303	Vol & Sur		
SI	810	C-2	SI6-269	Vol & Sur		
SI	810	E-2	SI6-267	Vol & Sur		
SI	810	E-3	SI6-283	Vol & Sur		
SI	810	E-2	SI6-268	Vol & Sur		
MS	042	D-2	MS34-235	Vol & Sur		
MS	042	G-5	MS34-236	Vol & Sur		
MS	042	K-5	MS34-237	Vol & Sur		
MS	042	D-1	MS32-1	Vol & Sur		
MS	042	H-1	MS32-2	Vol & Sur		
MS	042	K-1	MS32-3	Vol & Sur		
MS	042	D-8	MS12-122	Vol & Sur		
MS	042	H-8	MS12-123	Vol & Sur		
MS	042	K-8	MS12-124	Vol & Sur		
FW	044	B-6	FW16-13	Vol & Sur		
FW	044	G-6	FW16-15	Vol & Sur		
FW	044	L-6	FW16-17	Vol & Sur		
FW	044	D-3	FW16-67	Vol & Sur		
FW	044	D-3	FW16-68	Vol & Sur		
FW	044	D-3	FW16-69	Vol & Sur		

APPENDIX C

CLASS 3

INSPECTION PLAN SUMMARY

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 80W81

CATEGORY: D-A, Systems in Support of Reactor Shutdown Function
ITEM: D1.20, D1.30, D1.40, D1.50, and D1.60; Integral Attachments

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
MS	042	N-3	MS16-185	VT-3		
MS	042	M-3	MS16-238	VT-3		
MS	042	L-2	MS8-230	VT-3		
MS	042	N-3	MS8-239	VT-3		
MS	042	L-2	MS6-223	VT-3		
MS	042	H-3	MS6-59	VT-3		
MS	042	L-5	MS6-60	VT-3		
MS	042	M-2	MS6-130	VT-3		
MS	042	N-1	MS6-166	VT-3		
AF	044	M-11	AF6-8	VT-3		
AF	044	M-9	AF6-16	VT-3		
AF	044	N-5	AF4-76	VT-3		
AF	044	N-4	AF4-6	VT-3		
AF	044	N-9	AF4-10	VT-3		
AF	044	M-8	AF4-11	VT-3		
AF	044	N-9	AF4-9	VT-3		
AF	044	J-7	AF4-78	VT-3		
AF	044	J-5	AF4-5	VT-3		
AF	044	E-6	AF4-94	VT-3		
AF	044	I-7	AF4-55	VT-3		
AF	044	I-11	AF4-3	VT-3		
AF	044	N-11	AF4-74	VT-3		
AF	044	D-6	AF4-2	VT-3		
AF	044	D-11	AF4-1	VT-3		
AF	044	H-7	AF4-4	VT-3		
AF	044	N-7	AF4-77	VT-3		
AF	044	H-13	AF3-15	VT-3		
AF	044	D-12	AF2-12	VT-3		
AF	044	I-12	AF2-13	VT-3		
AF	044	L-13	AF2-14	VT-3		
AF	045	B-6	AF3-120	VT-3		
AF	045	B-6	AF2-119	VT-3		
CE	045	D-7	CE8-38	VT-3		
CE	045	H-9	CE8-41	VT-3		
CE	045	H-7	CE6-39	VT-3		
CE	045	H-8	CE6-40	VT-3		
CE	045	J-9	CE6-196	VT-3		

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 80W81

CATEGORY: D-B, Systems in Support of ECCS, Containment Heat Removal, Atmosphere Cleanup, and RHR
ITEM: D2.20, D2.30, D2.40, D2.50 and D2.60, Integral Attachments

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
SW	047	D-5	SW30-2	VT-3		
SW	047	G-1	SW30-3	VT-3		
SW	047	C-5	SW30-5	VT-3		
SW	047	G-2	SW30-6	VT-3		
SW	047	I-1	SW30-10	VT-3		
SW	047	I-2	SW30-11	VT-3		
SW	047	M-9	SW30-25	VT-3		
SW	047	L-15	SW30-99	VT-3		
SW	047	L-13	SW30-146	VT-3		
SW	047	L-6	SW24-67	VT-3		
SW	047	H-5	SW24-66	VT-3		
SW	047	H-13	SW24-72	VT-3		
SW	047	K-13	SW24-73	VT-3		
SW	047	H-4	SW20-8	VT-3		
SW	047	M-12	SW18-22	VT-3		
SW	047	H-13	SW16-7	VT-3		
SW	047	H-6	SW14-26	VT-3		
SW	047	F-5	SW14-27	VT-3		
SW	047	E-6	SW14-28	VT-3		
SW	047	G-7	SW14-39	VT-3		
SW	047	H-14	SW14-45	VT-3		
SW	047	F-14	SW14-46	VT-3		
SW	047	F-14	SW14-47	VT-3		
SW	047	F-13	SW14-53	VT-3		
SW	047	H-7	SW14-343	VT-3		
SW	047	G-13	SW14-345	VT-3		
SW	047	G-5	SW12-410	VT-3		
SW	047	G-14	SW12-411	VT-3		
SW	047	I-4	SW12-83	VT-3		
SW	047	M-7	SW12-84	VT-3		
SW	047	I-11	SW12-85	VT-3		
SW	047	K-11	SW12-86	VT-3		
SW	047	D-6	SW10-31	VT-3		
SW	047	D-7	SW10-33	VT-3		
SW	047	G-13	SW10-34	VT-3		
SW	047	E-8	SW10-36	VT-3		

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 80W81

CATEGORY: D-B, Systems in Support of ECCS, Containment Heat Removal, Atmosphere Cleanup, and RHR
ITEM: D2.20, D2.30, D2.40, D2.50 and D2.60, Integral Attachments

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
SW	047	E-10	SW10-38	VT-3		
SW	047	E-11	SW10-52	VT-3		
SW	047	D-13	SW10-54	VT-3		
SW	047	D-13	SW10-57	VT-3		
SW	047	E-7	SW10-68	VT-3		
SW	047	D-14	SW10-297	VT-3		
SW	047	E-10	SW10-74	VT-3		
SW	047	B-1	SW10-752	VT-3		
SW	047	J-9	SW8-81	VT-3		
SW	047	H-10	SW8-87	VT-3		
SW	047	L-14	SW8-88	VT-3		
SW	047	K-14	SW8-122	VT-3		
SW	047	E-8	SW8-128	VT-3		
SW	047	E-14	SW8-165	VT-3		
SW	047	H-9	SW8-338	VT-3		
SW	047	J-10	SW6-80	VT-3		
SW	047	J-8	SW6-82	VT-3		
EA	133	G-3	EA24-1	VT-3		
EA	133	G-3	EA24-2	VT-3		
EA	133	G-5	EA24-3	VT-3		
EA	133	G-5	EA24-4	VT-3		
CH	498	B-2	CH10-91	VT-3		
CH	498	B-5	CH8-208	VT-3		
CH	498	B-11	CH-205	VT-3		
CX	498	M-5	CX10-118	VT-3		
CX	498	M-7	CX8-201	VT-3		
CX	498	J-3	CX6-187	VT-3		
CX	498	K-10	CX6-200	VT-3		
CH	498S02	G-14	CH10-91	VT-3		
CX	498S02	H-6	CX10-168	VT-3		
CX	498S02	K-9	CX10-118	VT-3		
SW	498S02	F-6	SW10-938	VT-3		
SW	498S02	E-7	SW8-800	VT-3		
SW	498S02	E-11	SW8-801	VT-3		
SW	498S02	D-8	SW6-875	VT-3		
CH	499	B-14	CH10-50	VT-3		
CH	499	B-11	CH8-51	VT-3		
CH	499	B-10	CH6-72	VT-3		

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 80W81

CATEGORY: D-B, Systems in Support of ECCS, Containment Heat Removal, Atmosphere Cleanup, and RHR
ITEM: D2.20, D2.30, D2.40, D2.50 and D2.60, Integral Attachments

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
CX	499	K-16	CX10-68	VT-3		
CX	499	L-12	CX8-69	VT-3		
CX	499	K-10	CX6-116	VT-3		
CH	499S02	G-14	CH10-50	VT-3		
CX	499S02	L-12	CX10-68	VT-3		
CX	499S02	H-6	CX10-172	VT-3		
SW	499S02	E-7	SW8-804	VT-3		
SW	499S02	E-11	SW8-805	VT-3		
SW	499S02	D-8	SW8-876	VT-3		
CC	819	G-3	CC18-2	VT-3		
CC	819	E-8	CC18-3	VT-3		
CC	819	E-15	CC18-4	VT-3		
CC	819	K-4	CC18-5	VT-3		
CC	819	L-11	CC18-6	VT-3		
CC	819	H-8	CC18-18	VT-3		
CC	819	H-9	CC18-19	VT-3		
CC	819	J-16	CC18-7	VT-3		
CC	819	G-5	CC18-16	VT-3		
CC	820	B-12	CC12-12	VT-3		
CC	820	A-3	CC12-13	VT-3		
CC	820	M-12	CC12-14	VT-3		
CC	820	L-3	CC12-15	VT-3		
CC	821	D-1	CC8-10	VT-3		
CC	821	B-16	CC8-146	VT-3		
CC	821	B-11	CC6-145	VT-3		
CC	821	E-1	CC6-147	VT-3		
CC	821	E-1	CC6-148	VT-3		
CC	821	G-1	CC6-149	VT-3		
CC	821	G-12	CC6-195	VT-3		
CC	821	D-12	CC6-201	VT-3		
CC	821	D-2	CC6-130	VT-3		
CC	822	M-8	CC20-254	VT-3		
CC	822	F-5	CC20-11	VT-3		
CC	822	F-13	CC18-251	VT-3		
CC	822	L-14	CC18-252	VT-3		

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 80W81

CATEGORY: D-B, Systems in Support of ECCS, Containment Heat Removal, Atmosphere Cleanup, and RHR
ITEM: D2.20, D2.30, D2.40, D2.50 and D2.60, Integral Attachments

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
CC	822	F-14	CC14-281	VT-3		
CC	822	J-15	CC14-282	VT-3		
CC	822	F-13	CC14-411	VT-3		
CC	822	G-14	CC14-412	VT-3		
CC	822	H-14	CC14-413	VT-3		
CC	822	K-15	CC14-414	VT-3		
CC	822	L-4	CC6-275	VT-3		
CC	822	M-12	CC8-544	VT-3		
CC	822	G-4	CC6-274	VT-3		

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY
ASME SECTION XI EDITION 80W81

CATEGORY: D-C, Systems in Support of Residual Heat Removal from Spent Fuel Storage Pool
ITEM: D3.20, D3.30, D3.40, D3.50 and D3.60, Integral Attachments

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
SF	305	E-16	SF16-1	VT-3		
SF	305	E-16	SF16-2	VT-3		
SF	305	H-11	SF16-7	VT-3		
SF	305	J-11	SF16-8	VT-3		
SF	305	H-10	SF14-283	VT-3		
SF	305	J-10	SF14-284	VT-3		
SF	305	H-5	SF12-3	VT-3		
SF	305	K-5	SF12-4	VT-3		
SF	305	B-3	SF12-5	VT-3		
SF	305	A-3	SF12-6	VT-3		
SF	305	G-8	SF12-9	VT-3		
SF	305	J-8	SF12-10	VT-3		
SF	305	J-6	SF12-11	VT-3		
SF	305	H-11	SF12-12	VT-3		
SF	305	J-11	SF12-14	VT-3		
SF	305	F-14	SF12-171	VT-3		
SF	305	F-13	SF12-174	VT-3		
SF	305	B-6	SF12-176	VT-3		
SF	305	C-6	SF12-179	VT-3		
SF	305	F-14	SF12-82	VT-3		

APPENDIX D

AUGMENTED COMPONENTS

INSPECTION PLAN SUMMARY

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY

CATEGORY: Reg. Guide 1.14
ITEM: RCP Flywheel Keyway and Bore Areas

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
Flywheel	800	C-3	1A	Vol		
Flywheel	800	L-3	1B	Vol		
Flywheel	800	C-17	1C	Vol		

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY

CATEGORY: Reg. Guide 1.14
ITEM: Flywheel Exposed Surface

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
Flywheel	800	C-3	1A	Vol & Sur		
Flywheel	800	C-3	1B	Vol & Sur		
Flywheel	800	C-17	1C	Vol & Sur		

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY

CATEGORY: Augmented Piping Welds

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
MS	042	D-8	MS12-122	Vol		2,4
MS	042	K-8	MS12-123	Vol		2,4
MS	042	H-8	MS12-124	Vol		2,4
MS	042	D-2	MS34-235	Vol		1,2,4
MS	042	G-5	MS34-236	Vol		1,2,4
MS	042	K-5	MS34-237	Vol		1,2,4
MS	042	F-10	MS50-7	Vol		2,4
MS	042	F-11	MS44-8	Vol		2,4
MS	042	G-11	MS44-9	Vol		2,4
MS	042	D-9	MS32-4	Vol		2,4
MS	042	G-9	MS32-5	Vol		2,4
MS	042	K-9	MS32-6	Vol		2,4
MS	042	C-8	MS8-107	Vol		2,4
MS	042	G-8	MS8-108	Vol		2,4
MS	042	J-7	MS8-109	Vol		2,4
MS	042	C-3	MS8-62	Vol		2,4,7
MS	042	C-4	MS8-63	Vol		2,4,7
MS	042	C-5	MS8-64	Vol		2,4,7
MS	042	C-6	MS8-65	Vol		2,4,7
MS	042	C-6	MS8-66	Vol		2,4,7
MS	042	G-3	MS8-67	Vol		2,4,7
MS	042	G-4	MS8-68	Vol		2,4,7
MS	042	G-5	MS8-69	Vol		2,4,7
MS	042	G-6	MS8-70	Vol		2,4,7
MS	042	G-6	MS8-71	Vol		2,4,7
MS	042	J-3	MS8-72	Vol		2,4,7
MS	042	J-4	MS8-73	Vol		2,4,7
MS	042	J-5	MS8-74	Vol		2,4,7
MS	042	J-6	MS8-75	Vol		2,4,7
MS	042	J-6	MS8-76	Vol		2,4,7
MS	042	H-7	MS6-56	Vol		2,4
MS	042	K-7	MS6-57	Vol		2,4
MS	042	D-8	MS3-116	Vol		2,4
MS	042	H-8	MS3-117	Vol		2,4
MS	042	K-8	MS3-118	Vol		2,4
FW	044	C-3	FW16-13	Vol		1,2,4
FW	044	F-3	FW16-15	Vol		1,2,4
FW	044	F-3	FW16-17	Vol		1,2,4
AF	044	C-5	AF6-59	Vol		1,4
AF	044	G-3	AF6-7	Vol		1,4
AF	044	K-3	AF6-60	Vol		1,4
AF	044	H-8	AF4-98	Vol		1,4
AF	044	C-6	AF4-95	Vol		1,4
AF	044	E-6	AF4-75	Vol		1,4

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY

CATEGORY: Augmented Piping Welds

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
AF	044	G-4	AF4-96	Vol		1,4
AF	044	F-5	AF4-97	Vol		1,4
AF	044	G-7	AF4-85	Vol		1,4
FW	044	G-19	FW3-83	Vol		2,4
FW	044	G-19	FW3-82	Vol		2,4
FW	044	G-19	FW3-84	Vol		2,4
FW	044	G-19	FW3-85	Vol		2,4
FW	044	G-19	FW3-86	Vol		2,4
FW	044	G-19	FW3-87	Vol		2,4
FW	044	B-8	FW16-12	Vol		2,4
FW	044	G-8	FW16-14	Vol		2,4
FW	044	K-8	FW16-16	Vol		2,4
FW	044	E-19	FW6-78	Vol		2,4
FW	044	E-19	FW6-76	Vol		2,4
FW	044	E-19	FW6-80	Vol		2,4
FW	044	E-19	FW2-129	Sur		2,4
FW	044	E-19	FW2-130	Sur		2,4
FW	044	E-19	FW2-131	Sur		2,4
CT	050	F-16	CT24-1	Sur		5
CT	050	H-16	CT16-8	Sur		5
CT	050	G-16	CT14-79	Sur		5
CT	050	H-16	CT14-9	Sur		5
CT	050	G-16	CT8-65	Sur		5
CT	050	G-16	CT8-77	Sur		5
CT	050	F-8	CT8-10	Sur		5
CT	050	K-8	CT8-15	Sur		5
BD	051	D-5	BD4-3	Sur		3,4
BD	051	I-4	BD4-7	Sur		3,4
BD	051	N-5	BD4-11	Sur		3,4
CS	803	A-14	CS3-96	Sur		3,4
CS	803	B-17	CS3-95	Vol		1,4
CS	803	B-10	CS2-138	Sur		3,4
CS	803	B-11	CS2-91	Sur		3,4
CS	803	B-12	CS2-92	Sur		3,4
CS	803	J-3	CS1½-19	Sur		3,4
CS	803	J-3	CS1½-20	Sur		3,4
CS	803	J-3	CS1½-21	Sur		3,4
CS	805	H-6	CS4-300	Vol		5
CS	805	H-8	CS3-294	Vol		5

SHEARON HARRIS UNIT NO. 1
PRESERVICE INSPECTION PROGRAM PLAN SUMMARY

CATEGORY: Augmented Piping Welds

SYSTEM/ Component	FLOW DIAGRAM (2165-G)	FLOW DIAG COORD	LINE NUMBER	EXAM METHOD	RELIEF REQUEST	PROGRAM Notes
CS	805	K-8	CS3-337	Vol		5
CS	805	J-7	CS3-292	Vol		5
RH	824	L-6	2RH12-1	Vol		5
RH	824	L-6	2RH12-6	Vol		5
RH	824	L-8	2RH14-2	Vol		5
RH	824	L-9	2RH14-7	Vol		5
SI	808	K-13	SI4-32	Vol		5
SI	808	M-13	SI4-1	Vol		5
SI	808	J-13	SI4-47	Vol		5
SI	808	M-14	SI4-84	Vol		5
SI	808	P-11	SI3-2	Vol		5
SI	808	N-6	SI3-4	Vol		5
SI	808	M-5	SI3-45	Vol		5
SI	808	L-3	SI3-44	Vol		5
SI	808	K-3	SI3-410	Vol		5
SI	808	H-3	SI3-11	Vol		5
SI	808	F-2	SI3-12	Vol		5
SI	808	K-12	SI3-3	Vol		5
SI	808	H-13	SI3-49	Vol		5
SI	808	F-11	SI3-50	Vol		5
SI	808	F-14	SI3-51	Vol		5
SI	808	E-3	SI2-17	Sur		5
SI	808	E-4	SI2-21	Sur		5
SI	808	E-5	SI2-23	Sur		5
SI	808	E-14	SI2-68	Sur		5
SI	808	E-15	SI2-72	Sur		5
SI	808	E-8	SI2-52	Sur		5
SI	808	E-7	SI2-58	Sur		5
SI	808	E-6	SI2-60	Sur		5
SI	808	E-16	SI2-76	Sur		5
SI	808	E-13	SI2-39	Sur		5
SI	808	E-14	SI2-29	Sur		5
SI	808	E-12	S12-33	Sur		5

APPENDIX E

PERSONNEL QUALIFICATION PROGRAM FOR AUSTENETIC WELD INSPECTION

(1) CP&L or their agent will prepare a Qualification Program Plan to assure the following:

(a) The techniques applied are effective for the detection, characterization, sizing, and evaluation of service induced defects.

(b) Personnel performing the examinations, including detection, characterization, and sizing are capable of carrying out these procedures.

(c) That performance of examinations in the plant reflect the capabilities demonstrated in the qualification program (1) (a) and (b) above.

(2) The Qualification Program Plan shall address the following:

(a) Procedure and equipment requirements.

(b) The description of the test parts including number of cracks, geometrical reflectors, and samples containing no defects. The suitability of these samples to demonstrate the objectives of the Qualification Program Plan.

(c) Criteria for acceptance of the demonstration for both procedures and personnel.

(d) Period for which qualification is valid as well as conditions which require requalification.

(e) The components to which the qualification applies.

(f) Documentation of the qualification results.

(3) The Qualification Test Program shall be reviewed by the Authorized Nuclear Inservice Inspector.

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