Date March 14, 1983
Rev. 0

COMPONENT SUPPORT INSPECTION AND TEST PROGRAM PLAN

FOR THE

SUPPLY SYSTEM NUCLEAR PROJECT NO. 2

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1.0 INTRODUCTION

WNP-2 piping system supports were designed, fabricated, installed and certified by numerous different contractors. In addition to the construction quality assurance program certification of proper component support installation, there are several component support examinations and tests required by State and Federal law and plant licensing commitments. It is the purpose of this program to integrate these additional examinations and tests into one overall program under the direction of a Program Manager. This program addresses in detail the various examination and testing requirements for component supports prior to commercial operation and describes where credit is taken for construction activities in meeting these requirements. This program addresses organizations, personnel, schedules, procedures, and documentation required for implementation of these requirements.

Most of the examination requirements and documentation result from WNP-2 Preservice Inspection requirements. Therefore, the Component Support and Test Program is incorporated and will be implemented as part of the WNP-2 PSI Program Plan.

2.0 SCOPE

This program addresses component support related activities prior to commercial operation of WNP-2. This program satisfies the requirements of the ASME Boiler and Pressure Vessel Code Section XI (reference a,) as outlined in Section 9 of the WNP-2 Preservice Inspection Plan and requirements made by licensing commitments as specified in the WNP-2 FSAR and other correspondence (references b through g). Appendix A addresses the basis for this program in detail and shows specifically how each requirement is satisfied.

I.E. Bulletin 79-14, "Seismic Analysis for As-Builting Safety-Related Piping Systems", dated July 2, 1979, which required a field walkdown verification of pipe hanger as-built configuration is not included in the scope of this program. See Attachment 6.4 for the WNP-2 response to this Bulletin.

Component support examination and testing following commercial operation will be addressed separately in the WNP-2 Inservice Inspection (ISI) Program which will be developed in accordance with requirements contained in Subsection IWF.

3.0 PROGRAM EXAMINATION AND TESTING REQUIREMENTS

The consolidated requirements of the Component Support Inspection and Testing Program are those specifically required or committed to in the reference documents. These requirements, summarily stated, are as follows:

1) Perform pre-heatup system visual examination of safety-related snubbers (within the six months prior to system heatup) to check for snubber damage.

2) Perform preservice visual examination of all accessible ASME Section III NF component supports (including snubbers) on systems where normal operating temperature is greater than 250°F during hot system testing. This examination involves at least three separate walkdowns, one at intermediate system temperature, one at operating temperature and one at cold conditions following thermal transients.

3) All safety-related snubbers must be stroked following installation.

4) All safety-related snubbers must be checked to verify as-built conditions following installation.

Additionally, all examiners performing visual examinations on component supports need to be qualified to VT-3 and VT-4 per ASME Section XI. This requires completing a QA approved training program with written and practical examinations.

This program has been developed in accordance with the preservice inspection requirements of the 1977 Edition of ASME Section XI through and including the Winter 1978 Addenda in order to provide a smooth transition from Preservice Inspection (PSI) to Inservice Inspection (ISI). In so doing, this program meets all the preservice visual examination and testing requirements of the 1974 Edition of ASME Section XI through the Summer 1975 Addenda.

Specific examination requirements and tests are outlined by Figure 1, "WNP-2 Plant Component Support Inspection Program", for each portion of the program. See Section 4.6 for a detailed explanation of Figure 1.

4.0 PROGRAM IMPLEMENTATION

The component support program is a large effort and one which involves many organizations. The program interfaces with construction hanger installation and as-builting, the Test and Startup Program concerning system balancing, schedule and manpower, the Power Ascension Test Program concerning schedule, containment access and piping system expansion tests and with plant Technical Specification submittal. Since hangers and snubbers are usually among the last items to be completed on a system, the success of this program depends on adequate scheduling and coordination between the organizations and programs involved.

The appointed Program Manager is responsible for the overall scheduling, budgeting and implementing of this program. The Test and Startup Manager is the Program Manager for the pre-fuel load portion of the program and Plant Technical Manager is Program Manager for the post-fuel portion of the program.

4.1 Organizations Involved

The organizations involved and a breakdown of their responsibilities is as follows:

Test and Startup shall be responsible for:

- organizing, scheduling, controlling and administering program component support examinations and tests in conjunction with the Test and Startup Program for piping support system balancing,
- development of examination procedures for the initial cold exams and procedures for snubber stroking (if required),
- for ensuring sufficient numbers of level I, II or III examiners are trained and certified for VT-3 (H) and VT-4(H) examinations,
- dispositioning discrepancies found during the initial examination,
- establishing the working document files.

The Plant Technical organization shall be responsible for:

- organizing, scheduling, controlling and administering the component support examinations in conjunction with the Power Ascension Test Program and piping system expansion tests,
- development of examination procedures for the hot examination and post-shakedown cold examinations,
- dispositioning discrepancies found during these examinations,
- providing examiners as required.

The Code Programs group shall be responsible for:

- developing, revising, and coordinating implementation of the component support program,
- reviewing examination procedures,
- providing examiners as required,
- coordinating the filing and retention of the component support examination documentation,
- assist in dispositioning discrepancies as required,
- assist in preparation of Section XI Repair Program which may be needed to disposition discrepancies.

The NDE&I organization shall be responsible for:

- o providing examiners as required,
- o assisting in training and certifying examiners as required.

The Supply System QA organization shall be responsible for:

- o reviewing and approving the VT-3, VT-4 training course,
- o certifying the visual examiners.

4.2 Pre-Fuel Load Examinations

Pre-fuel load component support-related activities are governed by Test and Startup procedures SLT-S303.0, "Visual Examination of Component Supports", and SLT-S305.0, "Adjustment and Balancing of Component Supports". The activities covered by these procedures may be conducted concurrently. SLT-S303.0 verifies that safety-related snubbers stroke properly either by stroking the snubber or by reviewing construction records which provide evidence of acceptable snubber stroking. SLT-S303.0 also directs and documents the initial cold condition VT-3 and VT-4 examination of ASME Code Class 1, 2 and 3 piping system hangers. Supports to be examined are listed in Tables 1 and 2. VT-4 examinations will be performed after the piping system supports are balanced. The hanger examinations will be conducted in accordance with SLT-S303.0 which incorporates the specific examination requirements outlined by Figure 1, "WNP-2 Plant Component Support Inspection Program". Cold load setting of snubbers and spring type hangers will be recorded. SLT-S303.0 data serves as a baseline information for subsequent examinations at elevated temperatures and for Inservice Inspection Programs. Discrepancies noted during the pre-fuel load exams will be dispositioned as part of the Test and Startup Program.

4.3 Post-Fuel Load Examinations

Post-fuel load component support examinations are governed by WNP-2 Plant Procedure, "Piping Systems Expansion and Vibration Tests", PPM 8.2.17. This procedure provides for hot and post-shakedown cold component support visual examinations in addition to recording and evaluating piping thermal movement and vibration. Visual component support exams are performed at an intermediate temperature (200-300°F), at normal operating temperature (~545°F) and at cold conditions after at least three full thermal cycles. The performance of these examinations requires personnel access to the drywell during portions of the Power Ascension Test Program. To minimize time required for the exams the examiners will be familiar with their assigned system(s). If the examiner has not performed the SLT-S303.0 exam on his assigned system(s), he/she will walk down the assigned system(s) in the cold condition prior to establishing primary containment integrity for initial reactor startup.

PPM 8.2.17 incorporates the specific examination requirements outlined by Figure 1. Since pipe whip restraints are checked at the same time that the support examinations are performed, PPM 8.2.17 also contains the visual inspection acceptance criteria for pipe whip restraints. Supports examined as part of SLT S303.0 that are on systems whose operating temperature is $\geq 250^{o}F$ and are accessible during reactor operation will be examined in accordance with PPM 8.2.17 in the hot and after shakedown cold condition. [redacted] Abnormalities found during these exams will be corrected per the routine Plant Operations and Maintenance procedures. The data collected during these exams provides baseline information for Inservice Inspection Programs.

4.4 Manpower Requirements

Manpower requirements for this program are significant in that numerous examiners are needed (approximately 30) and the examinations are performed during the tightly scheduled Test and Startup Program and Power Ascension Programs. It is beneficial to have as much Supply System personnel involvement performing these exams as possible since these are the people who will be involved in developing and performing the subsequent ISI examinations over the life of the plant. The examiners will be supplied from Test and Startup, Plant Technical, NDE&I and Code Programs. It is the responsibility of Test and Startup to ensure the examiners are trained and certified VT-3 and VT-4. It is intended that the same examiners will be used, to the extent possible, for performance of the pre-fuel load and the post-fuel load exams. A copy of each examiner's certification shall be kept with the program files.

The Program Manager (T/SU or Plant Technical as applicable) is responsible for ensuring that there are adequate numbers of examiners available when the examinations are scheduled to be performed.

4.5 Documentation Requirements

A Component Support Inspection working document file is to be initially established and maintained by the Test and Startup organization. When the SLT-S303.0 initial examinations are complete the working file will be transferred to Code Programs (ISI Engineering) who will maintain the file through completion of the program. The working file shall not be used to store completed original quality documents. Originals of quality documents when completed will be stored in appropriately controlled files in the Operations vault. A microfilm will be permanently kept in the Operations vault as the official record copy.

A summary of documents that comprise the Component Support Program is as follows:

Document	When Document Becomes a Quality Affecting Record
a. Copy of Snubber installation checklist	Filing of PSI Final Report with NRC.
b. Data Sheet SLT S303.0	Filing of PSI Final Report with NRC
c. Data Sheet PPM 8.2.17	Filing of PSI Final Report with NRC
d. Additional calculation and deficiency sheets	Filing of PSI Final Report with NRC
e. Copy of Personnel Qualification sheets	Filing of PSI Final Report with NRC

NOTE: Supply System ANI(I) review is required for the data sheets within SLT-S303.0, PPM 8.2.17 and also for ASME Code related deficiency resolution records.

4.6 Program Outline

Figure (1) is a flowchart representation of the WNP-2 Component Support Inspection and Testing Program. The following explanation describes the installation, testing and examination requirements:

SNUBBER INSTALLATION (Block 1)

The stroking of snubbers installed on safety-related systems (QC-I snubbers) satisfies the requirement of reference (e) to ensure the snubbers are not seized, frozen or jammed. The intent of the requirement is for stroking to be performed within a short time frame (6 months) prior to fuel load. The WNP-2 startup schedule currently supports this. The snubber stroking is documented by the Bechtel Snubber Installation Checklist, a copy of which becomes part of the program documentation. A snubber may also be stroked as part of the visual preservice cold exam (block 3) when the snubber appears to be damaged.

HANGER AS-BUILTING (Block 2)

The construction as-builting of QC-1 snubber installations meets requirements of reference (e) to check that snubber location, orientation, position setting and configuration are according to design drawings and specifications, and to ensure structural connections such as pins, fasteners and other connecting hardware are installed correctly. These as-built drawings become part of the program documentation.

VISUAL PRE-SERVICE (COLD)EXAMS (Block 3)

Preheatup visual exams are conducted by personnel qualified to VT-3 and VT-4, level II or level III. Specific items to be emphasized during these exams are denoted on Figure (1). Additionally, for snubbers, the requirements of reference (e) to visually check for "no visible damage" and "adequate swing clearance" are met. Recording cold settings of snubbers and spring hangers and checking these settings against design drawings satisfies the commitment of reference (b) to ensure Reactor Coolant Pressure Boundary (RCPB) and connected systems hanger elements are correctly adjusted to cold setting and is one step in meeting the requirements of reference (a) to verify support settings of constant and variable type spring hangers and snubbers.

INTERMEDIATE TEMPERATURE (30 PSI) VISUAL EXAMS (Block 4)

Since a BWR has no hot pre-operational test program, visual exams of snubbers during initial system heatup provide one datum point of three in meeting the requirements of reference (e) to verify (1) expected snubber thermal movement and (2) snubber swing clearance at "specified temperature intervals" during the initial system heatup part of the pre-operational test program.

Additionally, this intermediate temperature data for selected component supports provides one datum point in meeting the requirement of reference (c) to verify that piping systems are free and unrestrained in regard to thermal expansion.

HOT (1000 PSI) VISUAL EXAMS (Block 5)

Visual exams of selected component supports at operating temperature provide a second datum point in meeting requirements of references (e) and (c) as previously described. Additionally, recording and evaluating hot snubber and spring hanger settings is a second step in meeting the requirement of reference (a) to verify support settings of constant and variable type spring hangers and snubbers.

For systems that do not reach operating temperature (none are identified at this time) snubber movement must be verified by calculation and/or visual observation as a check that snubber has satisfactory swing clearance and stroke to accommodate expected thermal movement.

The documentation for the intermediate and hot examinations are the PPM data sheets. Additional sheets documenting hanger problems and their resolution and to document calculation/observations to verify snubber accommodation for systems inaccessible at operating temperature will be resolved in PPM 8.2.17.

The visual exam following plant shakedown ensures the continued integrity of the piping system supports. This exam provides the final datum point and data whose evaluation fulfills the requirements of (1) reference (a) to verify spring hanger and snubber settings, (2) reference (c) to verify piping systems free and unrestrained in regards to thermal expansion and suspension components are functioning in the specified manner, and (3) reference (f) for verifying snubber expected thermal movement and snubber swing clearances. The criteria for evaluating the performance of the selected component supports against these requirements will be contained within PPM 8.2.17.

4.7 Program Schedule

The schedule for component support examinations and testing is dependent on plant startup schedule and fuel load date. Key issues in the program schedule are 1) all initial cold exams should be complete by fuel load and 2) intermediate and operating temperature hot exams are required to be performed during initial plant heatup. The specific implementing schedule for this program is the responsibility of the Program Manager. Figure 2 is a rough schedule for specific program issues keyed on fuel load date for WNP-2.

5.0 REFERENCES

a) ASME Section XI (1974 Edition through Summer 1975 Addenda).
b) WNP-2 FSAR Section 5.4.14.4 (Amend. 0).
c) WNP-2 FSAR Section 14.2.12.3.17 (Amend. 25).
d) WNP-2 SCN-80-155 Response dated November 9, 1982.
e) Letter, R. L. Tedesco (NRC) to R. L. Ferguson, dated March 6, 1982.
f) Letter, J. W. Shannon (WPPSS) to R. L. Tedesco, dated September 24, 1982.

6.0 ATTACHMENTS

6.1 Figure 1 - WNP-2 Component Support Inspection and Test Program Outline.

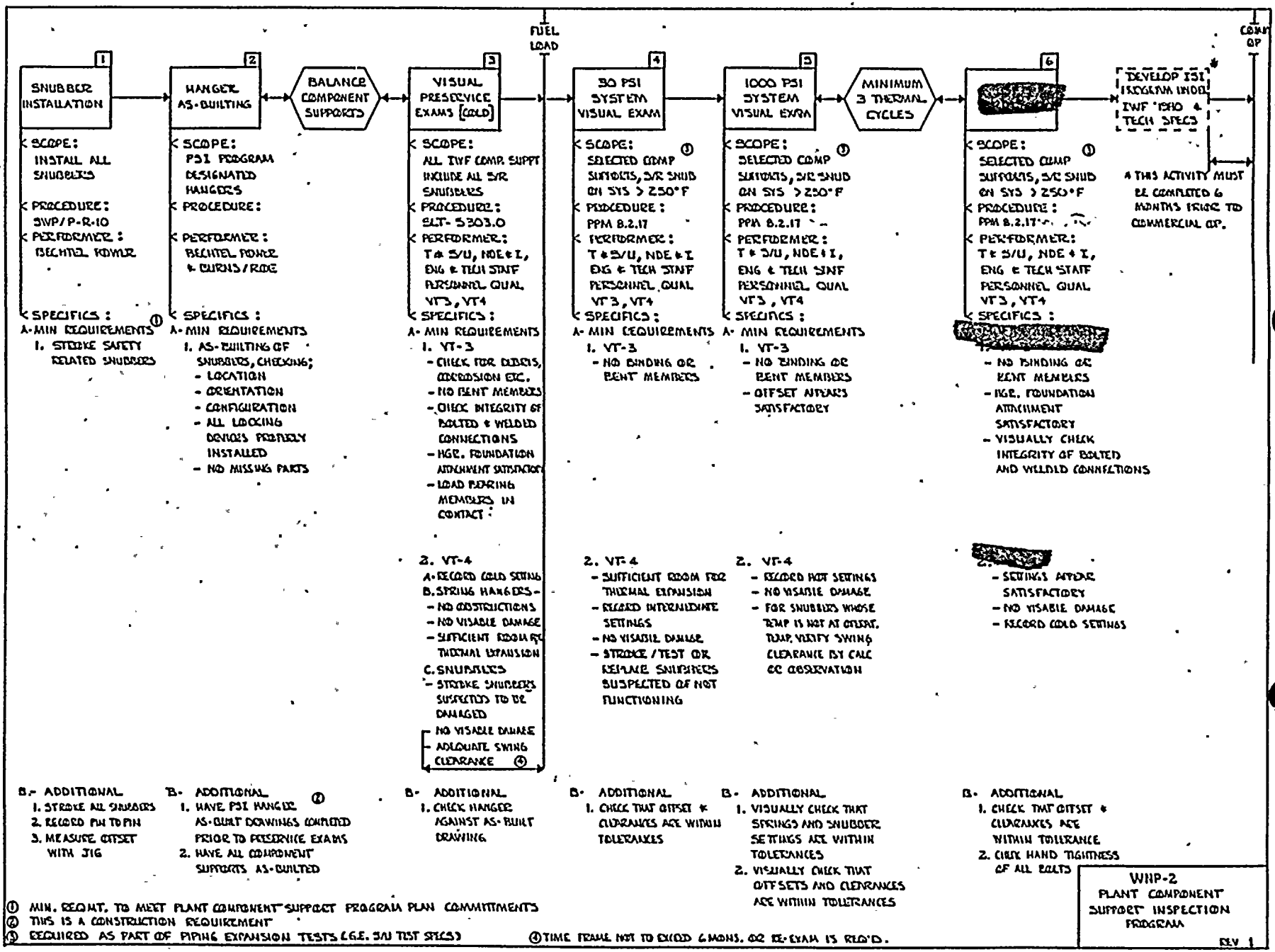
6.2 Figure 2 - WNP-2 Component Support Inspection and Test Program Schedule.

6.3 Appendix A - Basis for WNP-2 Component Support Inspection and Test Program.

6.4 WNP-2 Response to I. E. Bulletin 79-14 "Seimsic Analysis for As-Built Safety-Related Piping Systems"

6.5 Table 1 - List of Component Supports Within PSI Boundaries.

6.6 Table 2 - List of Safety Related Snubbers Outside PSI Boundaries.



① MIN. REQMT. TO MEET PLANT COMPONENT SUPPORT PROGRAM PLAN COMMITMENTS
② THIS IS A CONSTRUCTION REQUIREMENT
③ REQUIRED AS PART OF PIPING EXPANSION TESTS (E.G. S/U TEST SPECS)
④ TIME FRAME NOT TO EXCEED 6 MONS. OR RE-EXAM IS REQ'D.

WNP-2
PLANT COMPONENT SUPPORT INSPECTION PROGRAM
REV 1

WNP-2 COMPONENT SUPPORT INSPECTION AND TEST PROGRAM SCHEDULE

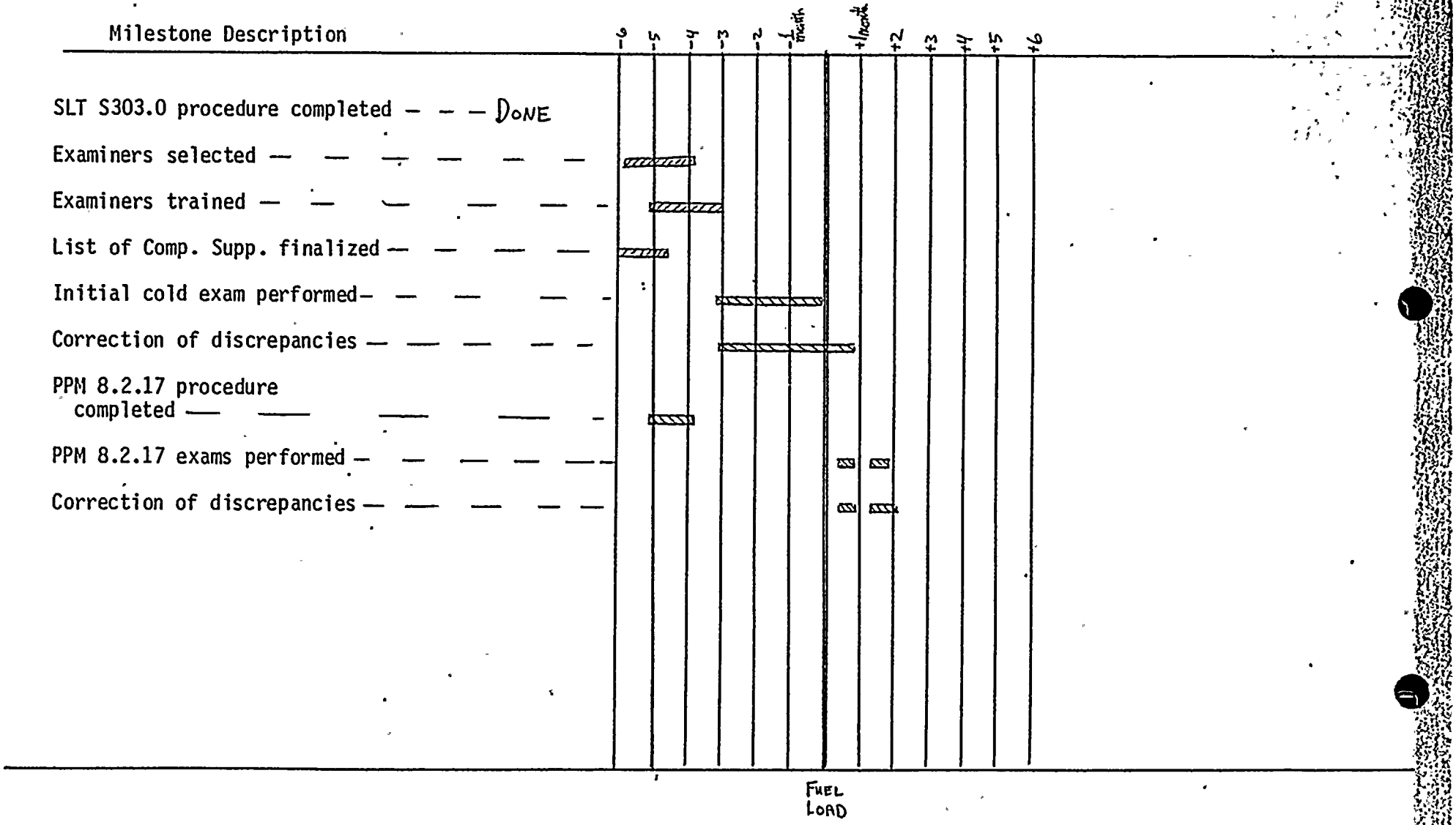


Figure 2

Attachment 6.2

Appendix A

Basis for WNP-2 Component Support Inspection and Test Program

A1.0 Background

Component support examination and testing requirements come from several different sources. In an attempt to satisfy all of these requirements with minimum impact on plant Startup and the Power Ascension Test Program, all of the pre-commercial operation examination and testing requirements have been brought together to form this appendix. Each specific requirement of each reference source is stated and given a commitment number. In several cases separate references contain the same commitment, these situations have been annotated in Table 1 which shows which implementing procedure satisfies a particular requirement.

There are four primary sources that make up the basis for this Program. They are:

1) ASME Section XI (1974 Edition through Summer 1975 Addenda) gives preservice examination requirements for component supports, additionally subsection IWF (Winter 1978) provides guidance which can be used for more detailed interpretations of how the visual exams are performed, i.e., component support examination boundaries.

2) The WNP-2 Preservice Inspection Program Plan states applicable ASME Section XI Edition and Addenda and defines the Visual Examinations (VT) used for the examination of Component Supports. The WNP-2 PSI Program Plan clarifies and implements the requirement of ASME Section XI (see 1) above).

3) The WNP-2 FSAR contains specific commitments on component support inspections.

4) Additional WNP-2 licensing commitments have been made in response to the Tedesco (NRC) letter (reference (g)) and to NRC licensing questions. These commitments are primarily concerned with snubbers.

A2.0 COMPONENT SUPPORT INSPECTION PROGRAM SPECIFIC COMMITMENTS

A2.1 ASME Section XI (1974 Edition through Summer 1975)

IWB-2100 requires all exams of Table IWB-2500 to be done as a Pre-service exam requirement, prior to Plant Startup.

Commitment Number	
2.1-1	B-K-2 requires all component supports to be examined,
2.1-2	B-K-2 requires settings of spring hangers and snubbers to be verified.

IWC-2100 Table IWC-2500--C-E-2 same requirements as IWB.

"Prior to Plant Startup" infers that system hot functional testing will be performed allowing the verification of hot system component support settings prior to Plant Start-up. Since this is not the case with WNP-2 (being a BWR) the verification of hot settings of component supports must be performed during initial plant heatup.

"All component supports" is interpreted to be all component supports in piping systems requiring PSI within the PSI boundaries. Vessel, pump, heat exchanger and valve supports as well as piping supports are included.

NOTE: IWB-1220, IWC-1220, and IWD-2600 specifically exclude from examination some component supports which receive preservice visual exams. These supports will not be examined.

A2.2 WNP-2 PSI PROGRAM COMMITMENTS

Commitment Number	
2.2-1	Perform pre-heat up VT-3 and VT-4 visual examinations of all IWF supports.
2.2-2	Perform post-heat up VT-3 and VT-4 visual examinations of all IWF supports.
2.2-3	Hot settings will be verified.
2.2-4	Examiners qualified to Supply System written practices for VT-3 and VT-4.

A2.3 FSAR COMMITMENTS

A2.3.1 FSAR Section 5.4.14.4 (RCPB and Connected Systems) commits to:

Commitment Number	
2.3-1	Following installation visually inspect all hanger elements to ensure correctly adjusted to cold setting.
2.3-2	Upon system heat up observe thermal growth to ensure spring hangers properly function between hot and cold settings.

A2.3.2 FSAR Section 14.2.12.3.17 (System Expansion Test) commits to:

Commitment Number	
2.3-3	Hanger position of major equipment and piping in the nuclear steam supply system and auxiliary systems will be recorded during initial thermal cycle and after shakedown has taken place.
2.3-4	During initial plant heat up conduct visual exams of component supports at intermediate and rated plant temperature.
2.3-5	For all snubbers on safety related system 250°F operating temperature, verify thermal movement and swing clearance at specified temperature intervals during initial system heatup and cold after system shakedown.
2.3-6	Visual examiners will be qualified to ASME Section XI VT-3 and VT-4, level II or level III (same requirement as 2.2-4).
2.3-7	For systems which are inaccessible at normal operating temperature, verify snubbers can accommodate thermal expansion by alternate method.

A2.4 TEDESCO (NRC) LETTER (e) AND RESPONSE (f)

Commits to all requirements outlined in Tedesco letter

Commitment Number	
	Preservice Exam:
2.4-1	- to be performed on all snubbers in Tech Spec Table, following installation

Commitment Number	
2.4-2	*- Visual exam--no damage
2.4-3	- Installed in accordance with design drawings
2.4-4	- Not seized or frozen (stroke snubber)
2.4-5	*- Adequate swing clearance
2.4-6	- Pins, washers, etc. properly installed

* Reinspect if not performed within 6 months prior to initial system pre-operational tests.

Preoperational Testing:

2.4-7	- To be performed on all snubbers on safety-related systems whose operating temperature is 250°F or greater.
2.4-8	- Inspect during initial system heatup and cooldown at specified temperature to verify expected snubber thermal movement and snubber swing clearance.
2.4-9	- For systems that do not attain operating temperature verify above by observation and/or calculation. This requirement is interpreted to mean in the case of WNP-2 that safety-related snubbers that are not accessible for visual inspection at normal operating temperature, snubber swing clearance will be verified by an alternate method.

Additionally, our response commits to detailing snubber pre-operational testing requirements in Chapter 14 of the FSAR and this was accomplished by SCN 80-155.

Table 1 Listing of Implementing Procedures That Satisfy Specific Commitments

Commitment Number	SLT-S303.0	PPM-8.2.17	Bechtel As-Building Program	SWP/P-R-10	Appropriate Block of Flow Diagram (Figure 1)
2.1-1	X				Block 3 - Scope
2.1-2	1/3	2/3, 3/3			3.A.2.A, 5.A.2 and 6.A.2
2.2-1	X				3.A.1 and 3.A.2
2.2-2		X			Block 6
2.2-3		X			5.A.2
2.2-4	X	X			Blocks 3, 4, 5, 6
2.3-1	X				3.A.2A
2.3-2		X			4.A.2 plus 5.A.2
2.3-3		X			4.A.2, 5.H.2 plus 6.A.2
2.3-4		X			4.A.1, 4.A.2, 5.A.1, 5.A.2
2.3-5		X			4.A.2, 5.A.2, 6.A.2
2.3-6	Same as 2.2-4				
2.3-7		X			5.A.2
2.4-1	X				Block 3 - Scope
2.4-2	X				3.A.2.C
2.4-3			X		2.A.1
2.4-4				X	1.A
2.4-5	X				3.A.2.C
2.4-6			X		2.A.1
2.4-7		X			Block 4 - Scope
2.4-8	Same as 2.3-5				
2.4-9	Same as 2.3-7				

X = requirement completely satisfied by referenced procedure.
1/3 = step part 1 of 3 met by referenced procedure.

Appendix A Table 1

WNP-2 Response to I.E. Bulletin 79-14
"Seismic Analysis for As-Built Safety-Related Piping Systems"

WNP-2 response to this Bulletin is contained in letters GO2-79-156, D. L. Renberger to R. H. Engelken, dated September 7, 1979 and GO2-82-858, R. G. Matlock to R. H. Engelken, dated October 20, 1982. These letters briefly outline WNP-2 as-builting and component support calculation reconciliation process. Component Support as-builting is performed by Bechtel field engineers and this as-built data is then provided to the designers (BRI, GE, JCI and Teledyne) and the component support design calculations are reconciled with the as-built data.

Additionally in the WNP-2 Reverification Program Supply System Engineering Mechanics engineers are verifying the above process for a random sampling of component supports.

Attachment 6.4

TABLE 1

LIST OF COMPONENT SUPPORTS WITHIN PSI BOUNDARIES

IDENT. NO.	DESCRIPTION	ISO. NO.	SECT. XI EXAM	EXAM METH	PROCEDURE
RCIC-67	SPRING HANGER	RCIC-101	B-K-2	VT-3	303/8. 2. 17&33
RCIC-67	SPRING HANGER	RCIC-101	B-K-2	VT-4	303/8. 2. 17&33
RCIC-72	SPRING HANGER	RCIC-101	B-K-2	VT-3	303/8. 2. 17&33
RCIC-72	SPRING HANGER	RCIC-101	B-K-2	VT-4	303/8. 2. 17&33
RCIC-61	SPRING HANGER	RCIC-101	B-K-2	VT-3	303/8. 2. 17&33
RCIC-61	SPRING HANGER	RCIC-101	B-K-2	VT-4	303/8. 2. 17&33
RCIC-66	SPRING HANGER	RCIC-101	B-K-2	VT-3	303/8. 2. 17&33
RCIC-66	SPRING HANGER	RCIC-101	B-K-2	VT-4	303/8. 2. 17&33

TOTAL COUNT = 8

EXAMPLE

TABLE 2

LIST OF ADDITIONAL SAFETY RELATED SNUBBERS

IDENT. NO.	DESCRIPTION	ISO. NO.	SECT. XI EXAM	EXAM METH	PROCEDURE
DE-2	PSA 3 SNUBBER	+QC I SN	B-K-2	VT-3	S303/8.2.17&3
DE-2	PSA 3 SNUBBER	+QC I SN	B-K-2	VT-4	S303/8.2.17&3
DE-3A	PSA 1 SNUBBER	+QC I SN	B-K-2	VT-3	S303/8.2.17&3
DE-3A	PSA 1 SNUBBER	+QC I SN	B-K-2	VT-4	S303/8.2.17&3
DE-3B	PSA 1 SNUBBER	+QC I SN	B-K-2	VT-3	S303/8.2.17&3
DE-3B	PSA 1 SNUBBER	+QC I SN	B-K-2	VT-4	S303/8.2.17&3
DE-21A	PSA 1 SNUBBER	+QC I SN	B-K-2	VT-3	S303/8.2.17&3
DE-21A	PSA 1 SNUBBER	+QC I SN	B-K-2	VT-4	S303/8.2.17&3
DE-21B	PSA 1 SNUBBER	+QC I SN	B-K-2	VT-3	S303/8.2.17&3
DE-21B	PSA 1 SNUBBER	+QC I SN	B-K-2	VT-4	S303/8.2.17&3
DE-23	PSA 3 SNUBBER	+QC I SN	B-K-2	VT-3	S303/8.2.17&3
DE-23	PSA 3 SNUBBER	+QC I SN	B-K-2	VT-4	S303/8.2.17&3
DE-29A	PSA 1 SNUBBER	+QC I SN	B-K-2	VT-3	S303/8.2.17&3
DE-29A	PSA 1 SNUBBER	+QC I SN	B-K-2	VT-4	S303/8.2.17&3
DE-29B	PSA 1 SNUBBER	+QC I SN	B-K-2	VT-3	S303/8.2.17&3
DE-29B	PSA 1 SNUBBER	+QC I SN	B-K-2	VT-4	S303/8.2.17&3
DE-47A	PSA 1 SNUBBER	+QC I SN	B-K-2	VT-3	S303/8.2.17&3
DE-47A	PSA 1 SNUBBER	+QC I SN	B-K-2	VT-4	S303/8.2.17&3
DE-47B	PSA 1 SNUBBER	+QC I SN	B-K-2	VT-3	S303/8.2.17&3
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DE-55A	PSA 1 SNUBBER	+QC I SN	B-K-2	VT-3	S303/8.2.17&3
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DE-57	PSA 3 SNUBBER	+QC I SN	B-K-2	VT-3	S303/8.2.17&3
DE-57	PSA 3 SNUBBER	+QC I SN	B-K-2	VT-4	S303/8.2.17&3
DE-59	PSA 3 SNUBBER	+QC I SN	B-K-2	VT-3	S303/8.2.17&3
DE-59	PSA 3 SNUBBER	+QC I SN	B-K-2	VT-4	S303/8.2.17&3
DE-902N-A	PSA 1 SNUBBER	+QC I SN	B-K-2	VT-3	S303/8.2.17&3
DE-902N-A	PSA 1 SNUBBER	+QC I SN	B-K-2	VT-4	S303/8.2.17&3
DE-902N-B	PSA 1 SNUBBER	+QC I SN	B-K-2	VT-3	S303/8.2.17&3
DE-902N-B	PSA 1 SNUBBER	+QC I SN	B-K-2	VT-4	S303/8.2.17&3
DE-2836-15	PSA 1/2 SNUBBER	+QC I SN	B-K-2	VT-3	S303/8.2.17&3
DE-2836-15	PSA 1/2 SNUBBER	+QC I SN	B-K-2	VT-4	S303/8.2.17&3
DE-2837-17	PSA 1/4 SNUBBER	+QC I SN	B-K-2	VT-3	S303/8.2.17&3
DE-2837-17	PSA 1/4 SNUBBER	+QC I SN	B-K-2	VT-4	S303/8.2.17&3
DE-2838-18	PSA 1/4 SNUBBER	+QC I SN	B-K-2	VT-3	S303/8.2.17&3
DE-2838-18	PSA 1/4 SNUBBER.	+QC I SN	B-K-2	VT-4	S303/8.2.17&3
DE-2839-14B	PSA 1/4 SNUBBER	+QC I SN	B-K-2	VT-3	S303/8.2.17&3

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