Nuclear Operating Company
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March 14, 2011

NOC-AE-11002651
File No.: G25
10 CFR 50.55a

U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
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11555 Rockville Pike
Rockville, MD 20852

South Texas Project
Units 1 & 2
Docket Nos. STN 50-498, STN 50-499
Inservice Testing Program Description:
Safety-Related Seismic Restraints (Snubbers) for the Third 10-Year Interval

Reference: Marco Ruvalcaba, STP Nuclear Operating Company, to NRC Document Control Desk, "Inservice Testing Program Description: Safety-Related Seismic Restraints (Snubbers) for the Third 10-Year Interval," dated July 13, 2010 (NOC-AE-10002565) (ML102010290)

Pursuant to 10 CFR 50.55a(g), STP Nuclear Operating Company (STPNOC) updated the South Texas Project Inservice Testing (IST) snubber program for the third 10-year interval applicable to safety-related seismic restraints (snubbers) as noted in the referenced correspondence. The IST snubber program plan describes the programmatic aspects for snubber inservice testing implemented with the third 10-year interval beginning September 25, 2010. STPNOC submits the attached program description in accordance with section ISTA-3200 of the ASME OM Code, 2004 Edition, no addenda.

The IST snubber program plan is written in accordance with the requirements of the ASME OM Code, 2004 Edition, No Addenda, Subsections ISTA and ISTD with the inspection requirements of Code Case OMN-13, Revision 0. The IST snubber program plan complies with the applicable limitations and modifications as stated in 10 CFR 50.55a(b) related to implementation of the 2004 ASME OM Code. Therefore, NRC approval is not required prior to implementation.

There are no commitments included with this submittal.

If there are any questions, please contact either Mr. P. L. Walker at (361) 972-8392 or me at (361) 972-7904.

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PLW

Attachment: Unit 1 and 2 Snubber Inservice Test Plan

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A047
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SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION

INSERVICE TESTING PROGRAM
UNIT 1 AND 2 SNUBBER INSERVICE TEST PLAN
THIRD TEN-YEAR INTERVAL

SOUTH TEXAS PROJECT
UNITS 1 AND 2

DOCKET NOS. STN 50-498, STN 50-499
FACILITY OPERATING LICENSE NOS. NPF-76/80

COMMERCIAL OPERATING DATES
Unit 1: 8/25/1988
Unit 2: 6/19/1989

THIRD TEN-YEAR INTERVAL DATES
9/25/2010 THROUGH 9/24/2020

Approved by: _____ 02-14-2011
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Revision 0

REVISION 0 SUMMARY SHEET

SECTION	EFFECTIVE PAGE(S)	CHANGE
		Revision 0

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1.0 INTRODUCTION

1.1 Overview

10CFR50.55a and the South Texas Project (STP) Technical Requirements Manual invoke inservice testing (IST) of Snubbers per ASME OM Code (Code of Operation and Maintenance of Nuclear Power Plants). Part 50.55a establishes the requirements that each nuclear power plant must develop and implement an inservice inspection and testing program. Inservice tests are used to verify operational readiness of Snubbers whose function is required for safety. The tests conducted during successive 120-month intervals must comply with the requirements of the latest edition and addenda of the OM Code that is in effect 12 months prior to the start of the interval.

Title 10, Part 50.55a of the Code of Federal Regulations invoke, by reference, the requirement for inservice inspection (ISI) of Snubbers per Section XI of the ASME Boiler and Pressure Vessel Code.

STP begins its third IST 10-year interval of commercial plant operation for Unit 1 & 2 on September 25, 2010 and ends on September 24, 2020.

The Snubber Inservice Test Plan was developed in accordance with the requirements of 10CFR50.55a that became effective on October 15, 2008.

The edition and addenda of the ASME OM Code for the Snubber IST Program for the third 10-year interval is the 2004 Edition No Addenda, Subsections ISTA & ISTD [the Code].

1.2 Program Test Plan

Since the period of time that the requirement for inservice testing was first incorporated into the Code of Federal Regulations; the NRC, ASME, and the nuclear industry have provided additional interpretations to the Code requirements. These interpretations have been documented through various mechanisms such as 10CFR50.55a Final Rules, Code Cases, Code Interpretations, generic letters, program review meetings, site inspections, and others. It is the intent of the Program Plan to:

- Establish a set criteria and philosophy for determining the Snubber Testing Scope,
- Evaluate each plant Snubber in a consistent manner to identify which Snubbers SHOULD be included in the testing program and to identify the extent,
- Identify Alternative requirements to the Code,
- Identify implementation processes of testing required for each snubber, and implementing documents.

2.0 SCOPE

2.1 Overview

The scope of the Snubber IST Program includes those Snubbers that are required to perform a specific function in shutting down the reactor to a safe shutdown condition, in maintaining the safe shutdown condition, or in mitigating the consequences of an accident.

This program was developed to encompass system safety requirements defined in 10 CFR 50 as well as Snubber functions required in response to the abnormal operational transients and accidents defined in the UFSAR. The program is not limited to the postulated accidents of UFSAR Chapter 15. The UFSAR, Technical Specifications, and related design basis documents are the primary references used to determine which Snubbers are required to perform specific functions related to the spectrum of postulated accidents.

The only snubbers excluded from this program are those installed on nonsafety-related systems, and then only if their failure or failure of the system on which they are installed would have no adverse effect on any safety-related system.

2.2 Code Classification

The quality group classification system for water, steam, and radioactive waste containing components important to the safety of water-cooled nuclear power plants is established by NRC Regulatory Guide 1.26, in conjunction with 10CFR50.55a. Regulatory Guide 1.26, "Quality Group Classification and Standards", defines the Quality Group Classification System consisting of four Quality Groups, A through D. Quality Group A is defined as "Reactor Coolant Pressure Boundary" (Class 1) by 10CFR50.2. The definitions of Groups B, C, and D (Class 2, Class 3 and non-classed, respectively) are provided by Regulatory Guide 1.26.

2.3 Snubber IST Listing

The Snubber IST Listing was previously known as the Snubber Index prior to invoking ASME OM Code. The Snubber IST Listing is maintained as the Snubber Database, which is an electronic database containing component test and inspection history, acceptance criteria, and references.

The Snubber Database is used to identify snubbers to be tested in accordance with the requirements of the Code. The Snubber Database contains, as a minimum, the following information about each Snubber:

- Snubber identification (Snubber number, model number, and serial number)
- Applicable plant system
- ASME Code class (same as Quality Group Classifications in R.G. 1.26)
- Snubber location information
- Test or examination method
- Test and examination history

Reference Attachment 1 (Unit 1 Snubber IST Listing) & Attachment 2 (Unit 2 Snubber IST Listing) for a listing of snubbers tested and examined in accordance with this plan. The listing provides basic information about the scoped snubbers.

2.4 Implementing Processes

Program inservice tests required by the Code SHALL be implemented using the Surveillance Test Program process. The Surveillance Test Program provides acceptance criteria for the tests and examinations. As a result of the performed tests, any identified corrective actions and subsequent retests SHALL be made per the requirements of the Code and the ASME Section XI Repair/Replacement Program.

In conjunction with the Surveillance Test Program process, other STP site documents detail Code requirements and implementation processes [test or examination methods and frequency or schedule].

The Condition Reporting (CR) process at STP provides a method to document material deficiencies and engineering evaluations required to comply with the Code. Work orders initiated by the CR process will be used to implement corrective maintenance on snubbers identified for Inservice Testing and will allow for recording and tracking component history.

2.5 Applicable Documents

The details of the Snubber IST Program referenced in this Test Plan are contained in documents that are available at STP. These documents include, but are not limited to, piping and instrumentation diagrams, piping isometric drawings, component support drawings, and procedures that support implementation of the Snubber IST program.

2.5.1 Piping and Instrumentation Diagrams (P&IDS)

This section provides a listing of the various piping and instrumentation diagrams applicable to the Snubber IST Program. Table 1 provides a listing of the piping systems containing Class 1, 2, or 3 snubbers, and applicable Instrumentation Diagrams (P&ID's) for these Class 1, 2, and 3 piping systems. Table 1 is arranged in alphabetical system abbreviation.

Table 1
Piping and Instrumentation Diagrams

System Abbr.	System Designation	Drawing Number	Sheet No.	Drawing Title
AF	Auxiliary Feedwater	5S141F00024	1	Auxiliary Feedwater
		5S141F00024	2	Auxiliary Feedwater
		5S142F00024	1	Auxiliary Feedwater
		5S142F00024	2	Auxiliary Feedwater
		5S199F00020#1		Condensate Storage System (Note 1)
		5S199F00020#2		Condensate Storage System (Note 1)
AP	Post Accident Sampling	5Z549Z47501#1		Post Accident Sampling System
		5Z549Z47501#2		Post Accident Sampling System
		5Z169Z00046#1		Containment Hydrogen Monitoring System (Note 2)
		5Z169Z00046#2		Containment Hydrogen Monitoring System (Note 2)
BA	Breathing Air	5Q129F05044#1		Low Pressure Breathing Air System (Note 3)
		5Q129F05044#2		Low Pressure Breathing Air System (Note 3)
CC	Component Cooling	5R209F05017#1		Component Cooling Water System
		5R209F05017#2		Component Cooling Water System
		5R209F05018#1		Component Cooling Water System
		5R209F05018#2		Component Cooling Water System
		5R209F05019#1		Component Cooling Water System
		5R209F05019#2		Component Cooling Water System
		5R209F05020#1		Component Cooling Water System

Table 1 (Cont'd.)
Piping and Instrumentation Diagrams

System Abbr.	System Designation	Drawing Number	Sheet No.	Drawing Title
		5R209F05020#2		Component Cooling Water System
		5R209F05021#1		Component Cooling Water System
		5R209F05021#2		Component Cooling Water System
CH	Essential Chilled Water	5V119V10001#1		Essential Chilled Water System
		5V119V10001#2		Essential Chilled Water System
		3V119V10002#1		Essential Chilled Water System
		3V119V10002#2		Essential Chilled Water System
		3V119V10003#1		Essential Chilled Water System
		3V119V10003#2		Essential Chilled Water System
		3V119V10004#1		Essential Chilled Water System
		3V119V10004#2		Essential Chilled Water System
CM	Containment Hydrogen Monitoring	5Z169Z00046#1		Containment Hydrogen Monitoring System
		5Z169Z00046#2		Containment Hydrogen Monitoring System
CS	Containment Spray	5N109F05037#1		Containment Spray System
		5N109F05037#2		Containment Spray System
		5N129F05013#1		Safety Injection System (Note 4)
		5N129F05013#2		Safety Injection System (Note 4)
		5N129F05014#1		Safety Injection System (Note 4)

Table 1 (Cont'd.)
Piping and Instrumentation Diagrams

System Abbr.	System Designation	Drawing Number	Sheet No.	Drawing Title
		5N129F05014#2		Safety Injection System (Note 4)
		5N129F05015#1		Safety Injection System (Note 4)
		5N129F05015#2		Safety Injection System (Note 4)
CV	Chemical and Volume Control	5R179F05005#1		Chemical & Volume Control System
		5R179F05005#2		Chemical & Volume Control System
		5R179F05006#1		Chemical & Volume Control System
		5R179F05006#2		Chemical & Volume Control System
		5R179F05007#1		Chemical & Volume Control System
		5R179F05007#2		Chemical & Volume Control System
		5R179F05008#1		Chem & Vol Control Sys BTRS Sub Sys
		5R179F05008#2		Chem & Vol Control Sys BTRS Sub Sys
		5R179F05009#1		Chemical & Volume Control System
		5R179F05009#2		Chemical & Volume Control System
DI	Standby Diesel Generator Combustion Air Intake	5Q159F22543#1		Diesel Air Intake & Exhaust Systems
		5Q159F22543#2		Diesel Air Intake & Exhaust Systems
DO	Standby Diesel Generator Fuel Oil	5Q159F00045#1	1	Sdby Gen Fuel Oil Stor & Trans System
		5Q159F00045#1	2	Sdby Gen Fuel Oil Stor & Trans System

Table 1 (Cont'd.)
Piping and Instrumentation Diagrams

System Abbr.	System Designation	Drawing Number	Sheet No.	Drawing Title
		5Q159F00045#2	1	Sdby Gen Fuel Oil Stor & Trans System
		5Q159F00045#2	2	Sdby Gen Fuel Oil Stor & Trans System
DW	Demineralized Water	5S199F05034#1		Demin Water Dist Sys RCB FHB & MEAB (Note 3)
		5S199F05034#2		Demin Water Dist Sys RCB FHB & MEAB (Note 3)
DX	Standby Diesel Generator Combustion Gas Exhaust	5Q159F22543#1		Diesel Air Intake & Exhaust Systems
		5Q159F22543#2		Diesel Air Intake & Exhaust Systems
ED	Radioactive Vents and Drains	5Q069F05030#1		Radioactive Vents And Drains System (Note 3)
		5Q069F05030#2		Radioactive Vents And Drains System (Note 3)
EW	Essential Cooling Water	5Q159F22541#1		Standby Diesel Gen Sys Cooling Water (Note 5)
		5Q159F22541#2		Standby Diesel Gen Sys Cooling Water (Note 5)
		5R289F05038#1	1	Essential Cooling Water System – TRN 1A
		5R289F05038#1	2	Essential Cooling Water System – TRN 1B
		5R289F05038#1	3	Essential Cooling Water System – TRN 1C
		5R289F05038#2	1	Essential Cooling Water System – TRN 2A
		5R289F05038#2	2	Essential Cooling Water System – TRN 2B
		5R289F05038#2	3	Essential Cooling Water System – TRN 2C
		5R289F05039#1		Essential Cooling Water System

Table 1 (Cont'd.)
Piping and Instrumentation Diagrams

System Abbr.	System Designation	Drawing Number	Sheet No.	Drawing Title
		5R289F05039#2		Essential Cooling Water System
FC	Spent Fuel Pool Cooling	5R219F05028#1		Spent Fuel Pool Cooling & Cleanup Sys
		5R219F05028#2		Spent Fuel Pool Cooling & Cleanup Sys
		5R219F05029#1		Spent Fuel Pool Cooling & Cleanup Sys
		5R219F05029#2		Spent Fuel Pool Cooling & Cleanup Sys
FP	Fire Protection	5Q279F05047#1		FH,IVC, Contmnt Bldg Fire Protection Sys (Note 3)
		5Q279F05047#2		FH,IVC, Contmnt Bldg Fire Protection Sys (Note 3)
FW	Feedwater	5S139F00062#1		Feedwater System
		5S139F00062#2		Feedwater System
		5S139F00063#1		Feedwater System
		5S139F00063#2		Feedwater System
HC	Containment Building HVAC	5V149V00018#1		Containment Bldg. HVAC System Normal Purge (Note 3)
		5V149V00018#2		Containment Bldg. HVAC System Normal Purge (Note 3)
		5V149V00019#1		Containment Bldg. HVAC System Supplementary Purge (Note 3)
		5V149V00019#2		Containment Bldg. HVAC System Supplementary Purge (Note 3)
IA	Instrument Air	5Q119F05040#1		Fuel Hndlng Bldg & RCB Inst Air System (Note 3)
		5Q119F05040#2		Fuel Hndlng Bldg & RCB Inst Air System (Note 3)
IL	Integrated Leak Test	5C560F05058		Containment Leak Rate Test Pressurization System (Note 3)

Table 1 (Cont'd.)
Piping and Instrumentation Diagrams

System Abbr.	System Designation	Drawing Number	Sheet No.	Drawing Title
JW	Standby Diesel Generator Jacket Water	5Q159F22540#1		Standby Diesel Generator Sys Jacket Water
		5Q159F22540#2		Standby Diesel Generator Sys Jacket Water
LU	Standby Diesel Generator Lube Oil	5Q159F22542#1		Standby Diesel Generator Sys Lube Oil
		5Q159F22542#2		Standby Diesel Generator Sys Lube Oil
MS	Main Steam	5S109F00016#1		Main Steam System
		5S109F00016#2		Main Steam System
		5S141F00024	1	Auxiliary Feedwater (Note 6)
		5S141F00024	2	Auxiliary Feedwater (Note 6)
		5S142F00024	1	Auxiliary Feedwater (Note 6)
		5S142F00024	2	Auxiliary Feedwater (Note 6)
PO	Reactor Coolant Pump Oil Change-Out	5R379F05042#1		Reactor C/P Oil Changing System (Note 3)
		5R379F05042#2		Reactor C/P Oil Changing System (Note 3)
PS	Primary Sampling	5Z329Z00045#1		Primary Sampling System
		5Z329Z00045#2		Primary Sampling System
RA	Radiation Monitoring	5V149V00017#1		HVAC React. Cntmnt Bldg. Sys. Composite (Note 7)
		5V149V00017#2		HVAC React. Cntmnt Bldg. Sys. Composite (Note 7)
RC	Reactor Coolant	5R149F05001#1		RCS Primary Coolant Loop

Table 1 (Cont'd.)
Piping and Instrumentation Diagrams

System Abbr.	System Designation	Drawing Number	Sheet No.	Drawing Title
		5R149F05001#2		RCS Primary Coolant Loop
		5R149F05003#1		RCS Pressurizer
		5R149F05003#2		RCS Pressurizer
		5R149F05004#1		RCS Pressurizer Relief Tank
		5R149F05004#2		RCS Pressurizer Relief Tank
RD	Reactor Coolant System Degassing	5R349F05046#1		RCS Vacuum Degassing System (Note 3)
		5R349F05046#2		RCS Vacuum Degassing System (Note 3)
RH	Residual Heat Removal	5R169F20000#1		Residual Heat Removal System
		5R169F20000#2		Residual Heat Removal System
RM	Reactor Makeup Water	5R279F05033#1		Reactor Makeup Water System
		5R279F05033#2		Reactor Makeup Water System
SA	Station Air	5Q109F05041#1		FHB & RCB Service Air System (Note 3)
		5Q109F05041#2		FHB & RCB Service Air System (Note 3)
SB	Steam Generator Blowdown	5S209F20001#1		Steam Generator Blowdown System
		5S209F20001#2		Steam Generator Blowdown System
SD	Standby Diesel Generator Starting Air	5Q159F22546#1		Standby Diesel Starting Air System
		5Q159F22546#2		Standby Diesel Starting Air System
SI	Safety Injection	5N129F05013#1		Safety Injection System

Table 1 (Cont'd.)
Piping and Instrumentation Diagrams

System Abbr.	System Designation	Drawing Number	Sheet No.	Drawing Title
		5N129F05013#2		Safety Injection System
		5N129F05014#1		Safety Injection System
		5N129F05014#2		Safety Injection System
		5N129F05015#1		Safety Injection System
		5N129F05015#2		Safety Injection System
		5N129F05016#1		Safety Injection System
		5N129F05016#2		Safety Injection System
SL	Steam Generator Sludge Lancing	5S209F05057#1		Stm Gen Sludge Lancing & Chem Cleaning Sys (Note 3)
		5S209F05057#2		Stm Gen Sludge Lancing & Chem Cleaning Sys (Note 3)
WL	Liquid Waste Processing	5R309F05022#1		Liquid Waste Processing System (Note 3)
		5R309F05022#2		Liquid Waste Processing System (Note 3)

Notes:
1. Includes AF piping.
2. Includes AP piping.
3. Class 2 containment penetration piping and isolation valves only.
4. Includes CS piping.
5. Includes EW piping.
6. Includes MS piping.
7. Includes RA piping; Class 2 containment penetration piping and isolation valves only.

2.5.2 Procedures

Table 2 lists applicable Snubber IST Program procedures.

Table 2
Snubber Program Procedures

PROCEDURE NUMBER	PROCEDURE TITLE
0PGP03-ZE-0009	Snubber Testing Program
0PSP11-SN-0001	Mechanical Snubber Visual Examination (surveillance procedure)
0PSP11-SN-0002	Hydraulic Snubber Visual Inspection (surveillance procedure)
0PSP11-SN-0003	Mechanical Snubbers Functional Test (surveillance procedure)
0PSP11-SN-0004	Hydraulic Snubber Functional Test (surveillance procedure)
0PSP11-SN-0005	Snubber Service Life Review and Reevaluation (surveillance procedure)

3.0 METHOD OF EVALUATING SNUBBERS

The Master Equipment Database and system design basis documents were reviewed to determine which systems include snubbers that encompass system safety requirements defined in 10 CFR 50 as well as snubbers required in response to the abnormal operational transients and accidents defined in the UFSAR. This review was not limited to the postulated accidents of UFSAR Chapter 15.

Each system was reviewed in the following manner:

The P&ID for each system was reviewed to identify the system boundaries for each class of snubbers that are subject to a specific function in shutting down a reactor to the safe shutdown condition, maintaining the safe shutdown condition, or in mitigating the consequences of an accident.

Each snubber was reviewed for design and installation arrangement for allowances for adequate access and clearances for conduct of tests.

The Snubber IST Listing was developed from the above review activities.

4.0 ALTERNATIVE REQUIREMENTS TO OM CODE

This section lists the alternative requirements to the Code for specific portions of the Snubber IST Program. The alternative requirements identified meet the rules for alternative requirements that are defined in the Code.

4.1 Code Cases

Code Cases to be used during a preservice or inservice test examinations SHALL be identified in the Test Plan [ISTA 3130(a)].

Code Cases SHALL be applicable to the edition and addenda specified in the Test Plan [ISTA 3130(b)].

Code Cases SHALL be in effect at the time the test plan is filed [ISTA 3130(c)].

Code Cases issued subsequent to filing the Test Plan MAY be proposed for use in amendments to the Test Plan [ISTA 3130(d)].

Superseded Code Cases approved for use MAY continue to be used [ISTA 3140].

Code Cases approved for use MAY be used after annulment for the duration of the Test Plan [ISTA 3150].

Endorsement of Regulatory Guide 1.192 "Operation and Maintenance Code Case Acceptability, ASME OM Code", does NOT commit the STP to all code cases listed therein, but rather allows for selection of applicable code cases. The purpose of this endorsement is to identify all code cases that could potentially be incorporated into this IST Program Plan.

4.2 10CFR50.55a Requirements – Code Cases

10CFR50.55a(b)(6) addresses the application of Code Cases and states the following criteria:

Licensees MAY apply the ASME Operation and Maintenance Nuclear Power Plants Code cases listed in Regulatory Guide 1.192 without prior NRC approval subject to the following:

> When a licensee initially applies a listed Code case, the licensee SHALL apply the most recent version of that Code case.

If a licensee has previously applied a Code case and a later version of the Code case is incorporated, the licensee MAY continue to apply, to the end of the current 120-month interval, the previous version of the Code case as authorized or MAY apply the later version of the Code case, including any NRC-specified conditions placed on its use

Application of an annulled Code case is prohibited unless a licensee previously applied the listed Code case prior to it being listed as annulled in Regulatory Guide 1.192. If a licensee has applied a listed Code case that is later listed as annulled in Regulatory Guide 1.192, the licensee MAY continue to apply the Code case to the end of the current 120-month interval.

4.3 Code Case Adoption:

4.3.1 Adoption of Code Cases Accepted for Generic Use in Regulatory Guide 1.192

Code cases that are designated "Acceptable" or "Conditionally Acceptable" for generic use in Regulatory Guide 1.192 (latest revision) have been adopted for use by listing them in Table 3. All conditions or limitations delineated in Regulatory Guide 1.192 for applicable code cases will apply.

4.3.2 Adoption of Code Cases Not Accepted for Generic Use in Regulatory Guide 1.192 via Submittal of Relief Requests

Adoption of code cases that have been approved by the ASME Board of Nuclear Codes and Standards, but that have NOT been accepted for generic use in Regulatory Guide 1.192, MAY be submitted in the form of a relief request in accordance with 10CFR50.55a(a)(3). Once approved, these relief requests will be available for use by STP. The Relief Request is approved for use until the end of the 10-year interval in which it was approved.

Table 4 lists those code cases for which relief requests have been submitted. In addition to the requirements stated in the code cases, criteria MAY be stipulated in the relief request OR MAY be agreed upon through subsequent correspondence with the NRC. STP will implement these additional requirements as applicable.

Table 3
Adopted Code Cases Approved in Regulatory Guide 1.192

Code Case Number	Code Case Title	Affected Program Area
OMN-13	Requirements for Extending Snubber Inservice Visual Examination Interval at LWR Power Plants	Snubber visual exams

Table 4
Code Cases Submitted Through Relief Requests

Code Case Number	Code Case Title	(1) Relief Request No. (2) Correspondence No. (3) Relief Request Date	Affected Program Area
	NONE	(1) (2) (3)	

4.4 Relief Requests

Relief from the requirements of the OM Code SHALL be requested where full compliance with the Code will not be achieved. Relief requests are submitted to the NRC for approval pursuant to the requirements of 10 CFR 50.55a.

Table 5 provides a listing of additional relief requests, not associated with a code case, that have been written in accordance with 10CFR50.55a(a)(3) when specific inservice testing requirements are considered impractical. If other examination requirements are determined to be impractical during the course of the interval, relief requests SHALL be submitted in accordance with 10CFR50.55a.

Table 5
Relief Requests Not Associated With a Code Case

Relief Request Subject	(1) Relief Request No. (2) Correspondence No. (3) Relief Request Date	Affected Program Area
NONE	(1) (2) (3)	

4.5 50.55a Limitations, Modifications and Clarifications

Certain paragraphs in 10CFR50.55a list the limitations, modifications, and/or clarifications to the implementation requirements of the Code. The paragraphs in 10CFR50.55a applicable to STP are listed in Table 6.

TABLE 6
CODE OF FEDERAL REGULATIONS 10CFR50.55a LIMITATIONS

10CFR50.55a Paragraphs	Limitations, Modifications, and Clarifications
10CFR50.55a(b)(3)(v)	*Subsection ISTD.* Article IWF-5000, "Inservice Inspection Requirements for Snubbers," of the ASME BPV Code, Section XI, provides inservice inspection requirements for examinations and tests of snubbers at nuclear power plants. Licensees MAY use Subsection ISTD, "Inservice Testing of Dynamic Restraints (Snubbers) in Light-Water Reactor Power Plants," ASME OM Code, 1995 Edition through the latest edition and addenda incorporated by reference in paragraph (b)(3) of this section, in place of the requirements for snubbers in Section XI, IWF-5200(a) and (b) and IWF-5300(a) and (b), by making appropriate changes to their technical specifications or licensee-controlled documents. Preservice and inservice examinations must be performed using the VT-3 visual examination method described in IWA-2213.

5.0 INTERPRETATIONS TO THE OM CODE

This section lists interpretations to the Code for specific portions of the Snubber IST Program.

Code interpretations provide clarification to the intent of Code requirements. Although the NRC agrees with most interpretations, some are inconsistent with NRC requirements. NRC requirements SHALL be met. Interpretations serve to support the users understanding of Code requirements. Many interpretations address specific circumstances. Therefore, the context of the interpretation must be thoroughly understood prior to its application at STP.

Code interpretations applicable to Snubber IST Program are listed in Table 7.

TABLE 7
OM CODE INTERPRETATIONS

Interpretation No.	Interpretation Description / Subject	Application Impact
04-10	ASME Code-1998 through OMb-2000	Snubber testing

6.0 PROGRAM IMPLEMENTATION

The Snubber Testing Program procedure (0PGP03-ZE-0009) details program implementation based on the Code and alternate requirements of the Code.

Snubber program inservice tests required by the Code SHALL be implemented using the Surveillance Test Program. The snubber surveillance test program SHALL be used to identify the test method for verifying operational readiness of the snubber, to identify the frequency of the required tests, to establish plant conditions for performing tests, and to document the results of snubber testing. The surveillance tests act as the record of testing required by the Code.

Reference Table 2 for a listing of the applicable snubber ITS program implementing procedures.

7.0 PROGRAM CONFIGURATION CONTROL

As a minimum the program will be reviewed and revised as necessary for compliance with the Code in effect as referenced by 10CFR50.55a 12 months prior to the end of the third 120-month interval of commercial operation. Additionally, the scope of the program is subject to revision due to changes in system design, changes in design that affect the snubber safety function, or revisions to the applicable code requirements through Alternate Requirements to the Code. In order to accommodate these changes STP reserves the right to submit program revisions that will enhance or improve the program at any time within the effective interval.

8.0 TEST PLAN ATTACHMENTS

Attachment 1, Unit 1 Snubber IST Listing

Attachment 2, Unit 2 Snubber IST Listing

Attachment 3, Code Cases – Information Only

Attachment 4, Interpretations – Information Only

ATTACHMENT 1

Unit 1 Snubber IST Listing

Mdtpns Tagtpns / Snubber	Model No	Qc Level	Route / Location	Elev	Hang Dwg	Iso Dwg	Pipe Dwg
2C111XSN0001A	HYD-1300KIP	2	RCB SGA-NE	58	400290-00010XX	400290--00010XX	0957-0100008WN
2C111XSN0001B	HYD-1300KIP	2	RCB SGB-N/E	58	400290-00010XX	400290--00010XX	0957-0100008WN
2C111XSN0001C	HYD-1300KIP	2	RCB SGC-N/E	58	400290-00010XX	400290--00010XX	0957-0100008WN
2C111XSN0001D	HYD-1300KIP	2	RCB SGD-N/E	58	400290-00010XX	400290--00010XX	0957-0100008WN
2C111XSN0002A	HYD-1300KIP	2	RCB SGA-N/W	58	400290-00010XX	400290--00010XX	0957-0100008WN
2C111XSN0002B	HYD-1300KIP	2	RCB SGB-N/W	58	400290-00010XX	400290--00010XX	0957-0100008WN
2C111XSN0002C	HYD-1300KIP	2	RCB SGC-N/W	58	400290-00010XX	400290--00010XX	0957-0100008WN
2C111XSN0002D	HYD-1300KIP	2	RCB SGD-N/W	58	400290-00010XX	400290--00010XX	0957-0100008WN
2C111XSN0003A	HYD-1300KIP	2	RCB SGA-S/W	58	400290-00010XX	400290--00010XX	0957-0100008WN
2C111XSN0003B	HYD-1300KIP	2	RCB SGB-S/W	58	400290-00010XX	400290--00010XX	0957-0100008WN
2C111XSN0003C	HYD-1300KIP	2	RCB SGC-S/W	58	400290-00010XX	400290--00010XX	0957-0100008WN
2C111XSN0003D	HYD-1300KIP	2	RCB SGD-S/W	58	400290-00010XX	400290--00010XX	0957-0100008WN
2C111XSN0004A	HYD-1300KIP	2	RCB SGA-S/E	58	400290-00010XX	400290--00010XX	0957-0100008WN
2C111XSN0004B	HYD-1300KIP	2	RCB SGB-S/E	58	400290-00010XX	400290--00010XX	0957-0100008WN
2C111XSN0004C	HYD-1300KIP	2	RCB SGC-S/E	58	400290-00010XX	400290--00010XX	0957-0100008WN
2C111XSN0004D	HYD-1300KIP	2	RCB SGD-S/E	58	400290-00010XX	400290--00010XX	0957-0100008WN
AF1006HL5003	AD5501	2	RCB SGAD>52'	19	AF9006HL5003	2C369PAF402-02	F00024
AF1006HL5015	AD5501	2	RCB SGAD>52'	19	AF9006HL5015	2C369PAF402-02	F00024
AF1006HL5018	AD5501	2	RCB OMB >19'	19	AF9006HL5018	2C369PAF402-02	F00024
AF1006HL5035N	AD5501	2	RCB SGAD>68'	19	AF9006HL5035	2C369PAF402-02	F00024
AF1006HL5035S	AD5501	2	RCB SGAD>68'	19	AF9006HL5035	2C369PAF402-02	F00024
AF1008HL5028	AD5501	2	RCB SGAD>68'	19	AF9008HL5028	2C369PAF402-02	F00024
AF1008HL5029	AD5501	2	RCB SGAD>68'	19	AF9008HL5029	2C369PAF402-02	F00024
AF1008HL5030	AD5501	2	RCB OMB >19'	19	AF9008HL5030	2C369PAF402-02	F00024
AF1008HL5041N	AD5501	2	RCB SGAD>68'	19	AF9008HL5041	2C369PAF402-02	F00024
AF1008HL5041S	AD5501	2	RCB SGAD>68'	19	AF9008HL5041	2C369PAF402-02	F00024
AF1010HL5002L	AD5501	2	RCB OMB >19'	19	AF9010HL5002	2C369PAF402-01	F00024
AF1010HL5002U	AD5501	2	RCB OMB >19'	19	AF9010HL5002	2C369PAF402-01	F00024
AF1010HL5007E	AD5501	2	RCB SGBC>52'	19	AF9010HL5007	2C369PAF402-01	F00024
AF1010HL5007W	AD5501	2	RCB SGBC>52'	19	AF9010HL5007	2C369PAF402-01	F00024

Mdtpns Tagtpns / Snubber	Model No	Qc Level	Route / Location	Elev	Hang Dwg	Iso Dwg	Pipe Dwg
AF1010HL5008L	AD5501	2	RCB SGBC>68'	19	AF9010HL5008	2C369PAF402-01	F00024
AF1010HL5008U	AD5501	2	RCB SGBC>68'	19	AF9010HL5008	2C369PAF402-01	F00024
AF1010HL5009	AD1601	2	RCB SGBC>68'	19	AF9010HL5009	2C369PAF402-01	F00024
AF1010HL5017	AD5501	2	RCB SGBC>68'	19	AF9010HL5017	2C369PAF402-01	F00024
AF1010HL5018	AD1601	2	RCB SGBC>68'	19	AF9010HL5018	2C369PAF402-01	F00024
AF1010HL5020	AD1601	2	RCB SGBC>68'	19	AF9010HL5020	2C369PAF402-01	F00024
AF1010HL5026	AD1601	2	RCB SGBC>19'	19	AF9010HL5026	2C369PAF402-01	F00024
AF1010HL5035	AD1601	2	RCB SGBC>68'	19	AF9010HL5035	2C369PAF402-01	F00024
AF1012HL5014E	AD1601	2	RCB SGBC>68'	19	AF9012HL5014	2C369PAF402-01	F00024
AF1012HL5014W	AD1601	2	RCB SGBC>68'	19	AF9012HL5014	2C369PAF402-01	F00024
AF1012HL5017	AD5501	2	RCB SGBC>68'	19	AF9012HL5017	2C369PAF402-01	F00024
AF1012HL5018	AD1601	2	RCB SGBC>68'	19	AF9012HL5018	2C369PAF402-01	F00024
AF1012HL5020	AD1601	2	RCB SGBC>68'	19	AF9012HL5020	2C369PAF402-01	F00024
AF1012HL5024	AD5501	2	RCB OMB >19'	19	AF9012HL5024	2C369PAF402-01	F00024
AF1012HL5027	AD5501	2	RCB OMB >19'	19	AF9012HL5027	2C369PAF402-01	F00024
AF1012HL5038L	AD5501	2	RCB SGBC>68'	19	AF9012HL5038	2C369PAF402-01	F00024
AF1012HL5038U	AD5501	2	RCB SGBC>68'	19	AF9012HL5038	2C369PAF402-01	F00024
AF1054HL5004N	AD151	3	IVC D	34	AF9054HL5004	5G369PAF602-10	F00024
AF1054HL5004S	AD151	3	IVC D	34	AF9054HL5004	5G369PAF602-10	F00024
AF1061HL5001	AD1601	2	RCB SGAD>52'	19	AF9061HL5001	2C369PAF402-02	F00024
AF1061HL5002	AD1601	2	RCB SGAD>68'	19	AF9061HL5002	2C369PAF402-02	F00024
AF1062HL5011	AD1601	2	RCB SGAD>68'	19	AF9062HL5011	2C369PAF402-02	F00024
AF1062HL5012	AD1601	2	RCB SGAD>68'	19	AF9062HL5012	2C369PAF402-02	F00024
AF1062HL5015	AD1601	2	RCB SGAD>52'	19	AF9062HL5015	2C369PAF402-02	F00024
AF1063HL5002	AD1601	2	RCB SGBC>68'	19	AF9063HL5002	2C369PAF402-01	F00024
AF1063HL5003	AD151	2	RCB SGBC>68'	19	AF9063HL5003	2C369PAF402-01	F00024
AF1063HL5005	AD1601	2	RCB SGBC>68'	19	AF9063HL5005	2C369PAF402-01	F00024
AF1063HL5006	AD1601	2	RCB SGBC>68'	19	AF9063HL5006	2C369PAF402-01	F00024
AF1064HL5004	AD1601	2	RCB SGBC>52'	19	AF9064HL5004	2C369PAF402-01	F00024
AP1003HF5001	AD41	2	MAB RM 108	29	AP1003HF5001	5M369PAP287-A01	Z47501

Mdtpns Tagtpns / Snubber	Model No	Qc Level	Route / Location	Elev	Hang Dwg	Iso Dwg	Pipe Dwg
CC1105HL5004	AD5501	3	RCB RHR HX 1A	37	CC9105HL5004	4C369PCC407-08	F05017
CC1105HL5009	AD5501	3	RCB OMB >52'	52	CC9105HL5009	4C369PCC407-08	F05017
CC1109HL5001N	AD501	3	MAB RM 106A	27	CC9109HL5001	5M361PCC207-07	F05017
CC1109HL5001S	AD501	3	MAB RM 106A	27	CC9109HL5001	5M361PCC207-07	F05017
CC1110HL5001	AD1601	3	MAB RM 106A	27	CC9110HL5001	5M361PCC207-07	F05017
CC1136HL5002	AD501	7	MAB RM 64	10	CC9136HL5002	5M361PCC207-07	F05017
CC1205HL5007L	AD501	3	RCB OMB >52'	52	CC9205HL5007	4C369PCC407-07	F05018
CC1205HL5007U	AD501	3	RCB OMB >52'	52	CC9205HL5007	4C369PCC407-07	F05018
CC1206HL5008	AD501	3	RCB OMB >52'	52	CC9206HL5008	4C369PCC407-10	F05018
CC1209HL5002	AD1601	3	MAB RM 216	41	CC9209HL5002	5M369PCC207-11	F05018
CC1209HL5003	AD1601	3	MAB RM 216	41	CC9209HL5003	5M369PCC207-11	F05018
CC1210HL5001	AD1601	3	MAB RM 106A	27	CC9210HL5001	5M369PCC207-22	F05018
CC1215SS0002	AD501	3	RCB OMB >-11	-11	CC9215SS0002	3C369PCC407-16	F05018
CC1220SS0002L	AD501	3	MAB RM 64	10	CC9220SS0002	5M369PCC207-11	F05018
CC1220SS0002U	AD501	3	MAB RM 64	10	CC9220SS0002	5M369PCC207-11	F05018
CC1309SS0002	AD1601	3	MAB RM 216	41	CC9309SS0002	5M361PCC207-01	F05019
CC1309SS0003L	AD1601	3	MAB RM 216	41	CC9309SS0003	5M361PCC207-01	F05019
CC1309SS0003U	AD1601	3	MAB RM 216	41	CC9309SS0003	5M361PCC207-01	F05019
CC1311SS0001	AD1601	3	MAB RM 216	41	CC9311SS0001	5M369PCC207-08	F05019
CC1320HL5001	AD1601	3	MAB RM 216	41	CC9320HL5001	5M361PCC207-01	F05019
CC1425HL5016	AD151	3	FHB RM 208	30	CC9425HL5016	5M361PCC207-01	F05020
CC1613SS0003	AD151	7	RCB OMB >37'	37	CC9613SS0003	5C369PCC407-03	F05021
CV1002HL5002	AD71	2	RCB SGBC>52'	19	CV9002HL5002	4C369PCV417-04	F05005
CV1002HL5003	AD71	2	RCB SGBC>19'	19	CV9002HL5003	4C369PCV417-04	F05005
CV1002HL5004	AD71	2	RCB SGBC>19'	19	CV9002HL5004	4C369PCV417-04	F05005
CV1002HL5007	AD151	2	RCB SGBC>19'	19	CV9002HL5007	4C369PCV417-04	F05005
CV1002HL5008	AD71	2	RCB SGBC>37'	19	CV9002HL5008	4C369PCV417-04	F05005
CV1002HL5009	AD151	2	RCB SGBC>37'	19	CV9002HL5009	4C369PCV417-04	F05005
CV1002HL5010	AD151	2	RCB SGBC>19'	19	CV9002HL5010	4C369PCV417-04	F05005
CV1002HL5012	AD71	2	RCB SGBC>37'	19	CV9002HL5012	4C369PCV417-04	F05005

Mdtpns Tagtpns / Snubber	Model No	Qc Level	Route / Location	Elev	Hang Dwg	Iso Dwg	Pipe Dwg
CV1002HL5019	AD151	2	RCB SGBC>19'	19	CV9002HL5019	4C369PCV417-04	F05005
CV1002HL5020	AD151	2	RCB SGBC>19'	19	CV9002HL5020	4C369PCV417-04	F05005
CV1002HL5021	AD501	2	RCB SGBC>19'	19	CV9002HL5021	4C369PCV417-04	F05005
CV1003HF5003	AD151	2	RCB RGN HX	37	CV1003HF5003	5C369PCV417-A09	F05005
CV1003HL5003N	AD151	2	RCB RGN HX	37	CV2003HL5003	4C369PCV417-04	F05005
CV1003HL5003S	AD151	2	RCB RGN HX	37	CV1003HL5003	4C369PCV417-04	F05005
CV1004HF5001	AD41	2	RCB RGN HX	37	CV1004HF5001	5C369PCV417-A09	F05005
CV1005HF5001	AD41	2	RCB RGN HX	37	CV1005HF5001	5C369PCV417-A09	F05005
CV1006HL5037L	AD151	2	MAB RM 108	29	CV9006HL5037	4M369PCV217-04	
CV1006HL5037U	AD151	2	MAB RM 108	29	CV9006HL5037	4M369PCV217-04	
CV1011HL5009	AD71	2	MAB RM 49	10	CV9011HL5009	4M369PCV217-04	F05006
CV1086SS0002	AD71	2	MAB RM 110	29	CV9086SS0002	2M369PCV217-05	F05006
CV1088HL5002	AD41	2	MAB RM 31	10	CV9088HL5002	4M369PCV217-04	F05006
CV1116HL5018	AD71	2	MAB RM 108	29	CV9116HL5018	2M369PCV217-20	F05007
CV1117HF5054	AD41	2	RCB PZR	37	CV1117HF5054	4C369PCV417-A02	F05005
CV1117HL5005	AD501	2	RCB SGBC>37'	19	CV9117HL5005	4C369PCV417-02	F05005
CV1117SS0006	AD1601	2	RCB SGBC>37'	19	CV9117SS0006	4C369PCV417-02	F05005
CV1121HS5007	AD41	1	RCB PZR	37	CV9121HS5007	4C369PCV417-A02	F05005
CV1121HS5009	AD151	1	RCB PZR	37	CV9121HS5009	4C369PCV417-A02	F05005
CV1121HS5010	AD151	1	RCB PZR	37	CV9121HS5010	4C369PCV417-A02	F05005
FC1009SS0001	AD41	3	FHB RM 110	21	FC9009SS0001	4F369PFC530-03	F05028
FC1011HL5001	AD1601	2	FHB RM 110	21	FC9011HL5001	4F369PFC530-02	F05028
FC1012HL5002	AD501	3	FHB RM 110	21	FC9012HL5002	4F369PFC530-02	F05028
FW1012HL5002E	AD5501	2	RCB SGAD>37'	19	FW9012HL5002	2C369PFW433-01	F00062
FW1012HL5002W	AD5501	2	RCB SGAD>37'	19	FW9012HL5002	2C369PFW433-01	F00062
FW1012HL5003	AD12501	2	RCB SGAD>37'	19	FW9012HL5003	2C369PFW433-01	F00062
FW1012HL5005L	AD5501	2	RCB OMB >37'	37	FW9012HL5005	2C369PFW433-01	F00062
FW1012HL5005U	AD5501	2	RCB OMB >37'	37	FW9012HL5005	2C369PFW433-01	F00062
FW1012HL5011	AD5501	2	RCB SGAD>19'	19	FW9012HL5011	2C369PFW433-01	F00062
FW1012HL5016	AD12501	2	RCB SGAD>37'	19	FW1012HL5016	2C369PFW433-01	F00062

Mdtpns Tagtpns / Snubber	Model No	Qc Level	Route / Location	Elev	Hang Dwg	Iso Dwg	Pipe Dwg
FW1014HL5001E	AD5501	2	RCB SGBC>37'		FW9014HL5001	2C369PFW433-01	F00062
FW1014HL5001W	AD5501	2	RCB SGBC>37'		FW9014HL5001	2C369PFW433-01	F00062
FW1014HL5002	AD12501	2	RCB SGBC>37'	19	FW9014HL5002	2C369PFW433-01	F00062
FW1014HL5003L	AD5501	2	RCB RGN HX	37	FW9014HL5003	2C369PFW433-01	F00062
FW1014HL5003U	AD5501	2	RCB RGN HX	37	FW9014HL5003	2C369PFW433-01	F00062
FW1014HL5009	AD12501	2	RCB SGBC>37'	19	FW9014HL5009	2C369PFW433-01	F00062
FW1014HL5012	AD5501	2	RCB SGBC>19'	19	FW9014HL5012	2C369PFW433-01	F00062
FW1016HL5003	AD5501	2	RCB RGN HX	37	FW9016HL5003	2C369PFW433-11	F00062
FW1016HL5004	AD5501	2	RCB SGBC>19'	19	FW9016HL5004	2C369PFW433-01	F00062
FW1016HL5006	AD5501	2	RCB SGBC>52'	19	FW9016HL5006	2C369PFW433-01	F00062
FW1016HL5007	AD5501	2	RCB SGBC>19'	19	FW9016HL5007	2C369PFW433-01	F00062
FW1016HL5008	AD5501	2	RCB RGN HX	37	FW9016HL5008	2C369PFW433-01	F00062
FW1016HL5009	AD12501	2	RCB SGBC>37'	19	FW9016HL5009	2C369PFW433-01	F00062
FW1016HL5010	AD5501	2	RCB SGBC>37'	19	FW9016HL5010	2C369PFW433-01	F00062
FW1016SH0001	AD5501	2	RCB SGBC>37'	19	FW9016SH0001	2C369PFW433-01	F00062
FW1016SS0006	AD5501	2	RCB SGBC>52'	19	FW9016SS0006	2C369PFW433-01	F00062
FW1018HL5003	AD5501	2	RCB OMB >37'	37	FW9018HL5003	2C369PFW433-01	F00062
FW1018HL5004	AD5501	2	RCB SGAD>19'	19	FW9018HL5004	2C369PFW433-01	F00062
FW1018HL5006L	AD5501	2	RCB OMB >37'	37	FW9018HL5006	2C369PFW433-01	F00062
FW1018HL5006U	AD5501	2	RCB OMB >37'	37	FW9018HL5006	2C369PFW433-01	F00062
FW1018HL5007N	AD5501	2	RCB SGAD>37'	19	FW9018HL5007	2C369PFW433-01	F00062
FW1018HL5007S	AD5501	2	RCB SGAD>37'	19	FW9018HL5007	2C369PFW433-01	F00062
FW1018HL5008	AD12501	2	RCB SGAD>37'	19	FW9018HL5008	2C369PFW433-01	F00062
FW1018HL5009	AD12501	2	RCB SGAD>37'	19	FW9018HL5009	2C369PFW433-01	F00062
FW1018SS0001	AD5501	2	RCB SGAD>19'	19	FW9018SS0001	2C369PFW433-01	F00062
FW1018SS0006	AD5501	2	RCB SGAD>52'	19	FW9018SS0006	2C369PFW433-01	F00062
FW1018SS0007	AD12501	2	RCB SGAD>37'	19	FW9018SS0007	2C369PFW433-01	F00062
FW1029HL5002E	AD1601	2	IVC A	44	FW9029HL5002	2G369PFW633-02	F00062
FW1029HL5002W	AD1601	2	IVC A	44	FW9029HL5002	2G369PFW633-02	F00062
FW1029HL5003	AD1601	2	IVC A	44	FW9029HL5003	2G369PFW633-02	F00062

Mdtpns Tagtpns / Snubber	Model No	Qc Level	Route / Location	Elev	Hang Dwg	Iso Dwg	Pipe Dwg
FW1030HL5002E	AD1601	2	IVC B	44	FW9030HL5002	2G369PFW633-03	F00062
FW1030HL5002W	AD1601	2	IVC B	44	FW9030HL5002	2G369PFW633-03	F00062
FW1030HL5003	AD1601	2	IVC B	44	FW9030HL5003	2G369PFW633-03	F00062
FW1031HL5002E	AD1601	2	IVC C	44	FW9031HL5002	2G369PFW633-04	F00062
FW1031HL5002W	AD1601	2	IVC C	44	FW9031HL5002	2G369PFW633-04	F00062
FW1031HL5003	AD1601	2	IVC C	44	FW9031HL5003	2G369PFW633-04	F00062
FW1032HL5002E	AD1601	2	IVC D	44	FW9032HL5002	2G369PFW633-01	F00062
FW1032HL5002W	AD1601	2	IVC D	44	FW9032HL5002	2G369PFW633-01	F00062
FW1032HL5003	AD1601	2	IVC D	44	FW9032HL5003	2G369PFW633-01	F00063
FW1117HL5001	AD41	2	IVC C	34	FW9117HL5001	2G369PFW633-05	F00063
FW1117HL5003	AD41	2	IVC C	34	FW9117HL5003	2G369PFW633-05	F00063
FW1117HL5004	AD41	2	IVC C	44	FW9117HL5004	2G369PFW633-05	F00063
FW1119HL5001	AD41	2	IVC B	34	FW9119HL5001	2G369PFW633-05	F00063
FW1119HL5003	AD41	2	IVC B	34	FW9119HL5003	2G369PFW633-05	F00063
FW1119HL5004	AD41	2	IVC B	44	FW9119HL5004	2G369PFW633-05	F00063
FW1121HL5001	AD41	2	IVC A	34	FW9121HL5001	2G369PFW633-05	F00063
FW1121HL5003	AD41	2	IVC A	34	FW9121HL5003	2G369PFW633-05	F00063
FW1121HL5004	AD41	2	IVC A	34	FW9121HL5004	2G369PFW633-05	F00063
FW1123HL5001	AD41	2	IVC D	34	FW9123HL5001	2G369PFW633-05	F00063
FW1123HL5003	AD41	2	IVC D	34	FW9123HL5003	2G369PFW633-05	F00063
FW1123HL5004	AD41	2	IVC D	34	FW9123HL5004	2G369PFW633-05	F00063
MD1147HF5002	AD71	7	IVC A	44	MD1147HF5002	9G369PMD645-A01	F00055
MD1148HF5002	AD71	7	IVC B	44	MD1148HF5002	9G369PMD645-A01	F00055
MD1149HF5002	AD71	7	IVC C	44	MD1149HF5002	9G369PMD645-A01	F00055
MD1150HF5002	AD41	7	IVC D	44	MD1150HF5002	9G369PMD645-A01	F00055
MS1001HL5004	AD5501	2	RCB OMB >68'	68	MS9001HL5004	2C369PMS446-01	F00016
MS1001HL5007	AD12501	2	RCB SGAD>68'	19	MS9001HL5007	2C369PMS446-01	F00016
MS1001HL5010L	AD1601	2	IVC A	51	MS9001HL5010	2G369PMS646-06	F00016
MS1001HL5010U	AD1601	2	IVC A	51	MS9001HL5010	2G369PMS646-06	F00016
MS1001HL5011E	AD5501	2	IVC A	51	MS9001HL5011	2G369PMS646-06	F00016

Mdtpns Tagtpns / Snubber	Model No	Qc Level	Route / Location	Elev	Hang Dwg	Iso Dwg	Pipe Dwg
MS1001HL5011W	AD5501	2	IVC A	51	MS9001HL5011	2G369PMS646-06	F00016
MS1001HL5012L	AD1601	2	IVC A	51	MS9001HL5012	2G369PMS646-06	F00016
MS1001HL5012U	AD1601	2	IVC A	51	MS9001HL5012	2G369PMS646-06	F00016
MS1001HL5015	AD5501	2	RCB SGAD>83'	19	MS9001HL5015	2C369PMS446-01	F00016
MS1002HL5006	AD5501	2	RCB OMB >68'	68	MS9002HL5006	2C369PMS466-02	F00016
MS1002HL5007	AD12501	2	RCB SGBC>68'	19	MS9002HL5007	2C369PMS446-02	F00016
MS1002HL5010L	AD1601	2	IVC B	51	MS9002HL5010	2G369PMS646-07	F00016
MS1002HL5010U	AD1601	2	IVC B	51	MS9002HL5010	2G369PMS646-07	F00016
MS1002HL5011E	AD5501	2	IVC B	51	MS9002HL5011	2G369PMS646-07	F00016
MS1002HL5011W	AD5501	2	IVC B	51	MS9002HL5011	2G369PMS646-07	F00016
MS1002HL5012L	AD1601	2	IVC B	51	MS9002HL5012	2G369PMS646-07	F00016
MS1002HL5012U	AD1601	2	IVC B	51	MS9002HL5012	2G369PMS646-07	F00016
MS1002HL5015	AD5501	2	RCB SGBC>83'	19	MS9002HL5015	2C369PMS446-02	F00016
MS1002HL5016	AD5501	2	RCB SGBC>83'	19	MS9002HL5016	2C369PMS446-02	F00016
MS1003HL5004	AD5501	2	RCB OMB >68'	68	MS9003HL5004	2C369PMS446-03	F00016
MS1003HL5012	AD12501	2	RCB SGBC>68'	19	MS9003HL5012	2C369PMS446-03	F00016
MS1003HL5013	AD5501	2	RCB SGBC>83'	19	MS9003HL5013	2C369PMS446-03	F00016
MS1003HL5014	AD5501	2	RCB SGBC>83'	19	MS9003HL5014	2C369PMS446-03	F00016
MS1003HL5015L	AD1601	2	IVC C	51	MS9003HL5015	2G369PMS646-08	F00016
MS1003HL5015U	AD1601	2	IVC C	51	MS9003HL5015	2G369PMS646-08	F00016
MS1003HL5016E	AD5501	2	IVC C	51	MS9003HL5016	2G369PMS646-08	F00016
MS1003HL5016W	AD5501	2	IVC C	51	MS9003HL5016	2G369PMS646-08	F00016
MS1003HL5017L	AD1601	2	IVC C	51	MS9003HL5017	2G369PMS646-08	F00016
MS1003HL5017U	AD1601	2	IVC C	51	MS9003HL5017	2G369PMS646-08	F00016
MS1004HL5007	AD5501	2	RCB OMB >68'	68	MS9004HL5007	2C369PMS446-04	F00016
MS1004HL5012	AD12501	2	RCB SGAD>68'	19	MS9004HL5012	2C369PMS446-04	F00016
MS1004HL5013	AD12501	2	RCB PZR	37	MS9004HL5013	2C369PMS446-04	F00016
MS1004HL5014	AD12501	2	RCB SGAD>83'	19	MS9004HL5014	2C369PMS446-04	F00016
MS1004HL5015L	AD1601	2	IVC D	51	MS9004HL5015	2G369PMS646-09	F00016
MS1004HL5015U	AD1601	2	IVC D	51	MS9004HL5015	2G369PMS646-09	F00016

Mdtpns Tagtpns / Snubber	Model No	Qc Level	Route / Location	Elev	Hang Dwg	Iso Dwg	Pipe Dwg
MS1004HL5016E	AD5501	2	IVC D	51	MS9004HL5016	2G369PMS646-09	F00016
MS1004HL5016W	AD5501	2	IVC D	51	MS9004HL5016	2G369PMS646-09	F00016
MS1004HL5017L	AD1601	2	IVC D	51	MS9004HL5017	2G369PMS646-09	F00016
MS1004HL5017U	AD1601	2	IVC D	51	MS9004HL5017	2G369PMS646-09	F00016
MS1005SS0001N	AD5501	7	TGB B	55	MS9005SS0001	7G369PMS846-05	F00016
MS1005SS0001S	AD5501	7	TGB B	55	MS9005SS0001	7G369PMS846-05	F00016
MS1005SS0002E	AD5501	7	TGB B	29	MS9005SS0002	7G369PMS846-05	F00016
MS1005SS0002W	AD5501	7	TGB B	29	MS9005SS0002	7G369PMS846-05	F00016
MS1006SS0001N	AD5501	7	TGB B	55	MS9006SS0001	7G369PMS846-06	F00016
MS1006SS0001S	AD5501	7	TGB B	55	MS9006SS0001	7G369PMS846-06	F00016
MS1006SS0002E	AD5501	7	TGB B	29	MS9006SS0002	7G369PMS846-06	F00016
MS1006SS0002W	AD5501	7	TGB B	29	MS9006SS0002	7G369PMS846-06	F00016
MS1007SS0002E	AD5501	7	TGB B	29	MS9007SS0002	7G369PMS846-06	F00016
MS1007SS0002W	AD5501	7	TGB B	29	MS9007SS0002	7G369PMS846-06	F00016
MS1008HL5001	AD5501	7	TGB B	55	MS9008HL5001	7G369PMS846-05	F00016
MS1008SS0001E	AD5501	7	TGB B	29	MS9008SS0001	7G369PMS846-05	F00016
MS1008SS0001W	AD5501	7	TGB B	29	MS9008SS0001	7G369PMS846-05	F00016
MS1013HL5002E	AD5501	7	TGB B	55	MS9013HL5002	7G369PMS846-08	F00016
MS1013HL5002W	AD5501	7	TGB B	55	MS9013HL5002	7G369PMS846-08	F00016
MS1013HL5003	AD5501	7	TGB B	55	MS9013HL5003	7G3G9PMS846-05	F00016
MS1013HL5004	AD5501	7	TGB B	55	MS9013HL5004	7G369PMS846-05	F00016
MS1013SS0002E	AD5501	7	TGB B	55	MS9013SS0002	7G369PMS846-09	F00016
MS1013SS0002W	AD5501	7	TGB B	55	MS9013SS0002	7G369PMS846-09	F00016
MS1051HL5009	AD71	3	IVC D	10	MS9051HL5009	4G369PMS646-05	F00024
PS1020HF5002	AD41	7	MAB RM 108	29	PS1020HF5002	5M369PPS285-A01	Z00045
RC1000SS0001	AD151	1	RCB PZR	37	RC9000SS0001	4C369PRC457-07	F05003
RC1003HL5006	AD501	1	RCB PZR	37	RC9003HL5006	1C369PRC457-06	F05003
RC1003HL5009	AD501	1	RCB PZR	37	RC9003HL5009	1C369PRC457-06	F05003
RC1014HL5001	AD5501	7	RCB PZR	37	RC9014HL5001	7C369PRC457-02	F05004
RC1014HL5003E	AD5501	7	RCB PZR	37	RC9014HL5003	7C769PRC457-02	F05004

Mdtpns Tagtpns / Snubber	Model No	Qc Level	Route / Location	Elev	Hang Dwg	Iso Dwg	Pipe Dwg
RC1014HL5003W	AD5501	7	RCB PZR	37	RC9014HL5003	7C369PRC457-02	F05004
RC1014HL5005N	AD5501	7	RCB PZR	37	RC9014HL5005	7C369PRC457-02	F05004
RC1014HL5005S	AD5501	7	RCB PZR	37	RC9014HL5005	7C369PRC457-02	F05004
RC1014HL5006L	AD5501	7	RCB PZR	37	RC9014HL5006	7C369PRC457-02	F05004
RC1014HL5006U	AD5501	7	RCB PZR	37	RC9014HL5006	7C369PRC457-02	F05004
RC1014HL5009	AD501	7	RCB PZR	37	RC9014HL5009	7C369PRC457-02	F05004
RC1014HL5012N	AD5501	7	RCB PZR	37	RC9014HL5012	7C369PRC457-02	F05004
RC1014HL5012S	AD5501	7	RCB PZR	37	RC9014HL5012	7C369PRC457-02	F05004
RC1014HL5013	AD1601	7	RCB PZR	37	RC9014HL5013	7C369PRC457-02	F05004
RC1014HL5015	AD1601	7	RCB PZR	37	RC9014HL5015	7C369PRC457-02	F05004
RC1014HL5019N	AD5501	7	RCB PZR	19	RC9014HL5019	7C369PRC457-02	F05004
RC1014HL5019S	AD5501	7	RCB PZR	19	RC9014HL5019	7C369PRC457-02	F05004
RC1014HL5026	AD501	7	RCB PZR	19	RC9014HL5026	7C369PRC457-02	F05004
RC1014HL5028	AD1601	7	RCB PZR	19	RC9014HL5028	7C369PRC457-02	F05004
RC1112HL5002	AD5501	1	RCB SGAD>19'	19	RC9112HL5002	4C369PRC457-09	F05001
RC1123HL5013	AD501	1	RCB PZR	37	RC9123HL5013	4C369PRC457-07	F05001
RC1125HL5001	AD5501	1	RCB IMB >-11	-11	RC9125HL5001	4C369PRC457-10	F05001
RC1125HL5008	AD1601	1	RCB IMB >-11	-11	RC9125HL5008	4C369PRC457-10	F05001
RC1221HL5001	AD1601	1	RCB IMB >-11	-11	RC9221HL5001	4C369PRC457-10	F05001
RC1221HL5003	AD5501	1	RCB IMB >-11	-11	RC9221HL5003	4C369PRC457-10	F05001
RC1221HL5004	AD5501	1	RCB SGBC>19'	19	RC9221HL5004	4C369PRC457-10	F05001
RC1221HL5005	AD5501	1	RCB SGBC>19'	19	RC9221HL5005	4C369PRC457-10	F05001
RC1221HL5006	AD5501	1	RCB IMB >-11	-11	RC9221HL5006	4C369PRC457-10	F05001
RC1221HL5007	AD5501	1	RCB IMB >-11	-11	RC9221HL5007	4C369PRC457-10	F05001
RC1320HL5002	AD1601	1	RCB SGBC>19'	19	RC9320HL5002	4C369PRC457-04	F05001
RC1320HL5004	AD501	1	RCB SGBC>19'	19	RC9320HL5004	4C369PRC457-04	F05001
RC1422HL5019	AD501	1	RCB SGAD>52'	19	RC9422HL5019	1C369PRC457-06	F05001
RH1101HL5001	AD1601	1	RCB VLV RM	-2	RH9101HL5001	4C369PRH459-04	F20000
RH1101HL5002	AD1601	1	RCB VLV RM	-2	RH9101HL5002	4C369PRH459-04	F20000
RH1101HL5003	AD1601	1	RCB VLV RM	19	RH9101HL5003	4C369PRH459-04	F20000

Mdtpns Tagtpns / Snubber	Model No	Qc Level	Route / Location	Elev	Hang Dwg	Iso Dwg	Pipe Dwg
RH1101HL5006	AD5501	1	RCB SGAD>19'	19	RH9101HL5006	4C369PRC459-04	F20000
RH1101HL5009	AD1601	1	RCB SGAD>19'	19	RH9101HL5009	4C369PRH459-04	F20000
RH1110HL5002	AD501	2	RCB SGAD>19'	19	RH9110HL5002	4C369PRH459-03	F20000
RH1201HL5001	AD1601	1	RCB VLV RM	-2	RH9201HL5001	4C369PRH459-07	F20000
RH1201HL5006	AD5501	1	RCB VLV RM	-2	RH9201HL5006	4C369PRH459-07	F20000
RH1202SS0002	AD1601	2	RCB VLV RM	-2	RH9202SS0002	4C369PRH459-07	F20000
RH1203HL5001	AD501	2	RCB VLV RM	19	RH9203HL5001	2C369PRH459-02	F20000
RH1204HL5001	AD501	2	RCB VLV RM	19	RH9204HL5001	2C369PRH459-02	F20000
RH1211HL5002L	AD501	2	RCB SGBC>19'	19	RH9211HL5002	4C369PRH459-07	F20000
RH1211HL5002U	AD501	2	RCB SGBC>19'	19	RH9211HL5002	4C369PRH459-07	F20000
RH1303HL5007	AD501	2	RCB VLV RM	19	RH9303HL5007	2C369PRH459-05	F20000
RH1303HL5009	AD501	2	RCB VLV RM	-2	RH9303HL5009	2C369PRH459-05	F20000
RH1306SS0001	AD501	2	RCB VLV RM	-2	RH9306SS0001	4C369PRH459-06	F20000
RH1312HL5002	AD501	2	RCB VLV RM	19	RH9312HL5002	4C369PRH459-01	F20000
RH1313HL5003L	AD501	2	RCB SGBC>19'	19	RH9313HL5003	4C369PRH459-06	F20000
RH1313HL5003U	AD501	2	RCB SGBC>19'	19	RH9313HL5003	4C369PRH459-06	F20000
SB1101HL5007	AD1601	2	RCB OMB >19'	19	SB9101HL5007	2C369PSB468-02	F20001
SB1101HL5012	AD501	2	RCB SGAD>19'	19	SB9101HL5012	2C369PSB468-02	F20001
SB1101HL5017	AD1601	2	RCB OMB >19'	19	SB9101HL5017	2C369PSB468-02	F20001
SB1101HL5019	AD501	2	IVC A	10	SB9101HL5019	5G369PSB668-03	F20001
SB1101HL5020	AD501	2	IVC A	10	SB9101HL5020	5G369PSB668-03	F20001
SB1101HL5022	AD501	2	IVC A	10	SB9101HL5022	5G369PSB668-03	F20001
SB1104HL5001	AD501	7	IVC A	10	SB9104HL5001	5G369PSB668-03	F20001
SB1104HL5002	AD501	7	IVC A	10	SB9104HL5002	5G369PSB668-03	F20001
SB1104HL5006	AD501	7	IVC A	10	SB9104HL5006	5G369PSB668-03	F20001
SB1105HL5001	AD71	7	IVC A	10	SB9105HL5001	5G369PSB668-03	F20001
SB1107HF5001	AD41	2	IVC A	10	SB1107HF5001	7G369PSB668-A01	F20001
SB1201HL5004	AD1601	2	RCB OMB >19'	19	SB9201HL5004	2C369PSB468-02	F20001
SB1201HL5010	AD1601	2	RCB OMB >19'	19	SB9201HL5010	2C369PSB468-02	F20001
SB1201HL5013	AD501	2	RCB SGBC>19'	19	SB9201HL5013	2C369PSB468-02	F20001

Mdtpns Tagtpns / Snubber	Model No	Qc Level	Route / Location	Elev	Hang Dwg	Iso Dwg	Pipe Dwg
SB1201HL5017	AD501	2	IVC B	10	SB9201HL5017	5G369PSB668-05	F20001
SB1201HL5018	AD501	2	IVC B	10	SB9201HL5018	5G369PSB668-05	720001
SB1201HL5020	AD501	2	IVC B	10	SB9201HL5020	5G369PSB668-05	F20001
SB1202HF5002	AD71	2	RCB SGBC>19'	19	SB1202HF5002	2C361PSB468-A05	F20001
SB1204HL5001	AD501	7	IVC B	10	SB9204HL5001	5G369PSB668-05	F20001
SB1204HL5002	AD501	7	IVC B	10	SB9204HL5002	5G369PSB668-05	F20001
SB1205HL5003	AD151	7	IVC B	10	SB9205HL5003	5G369PSB668-05	F20001
SB1207HF5001	AD41	7	IVC B	10	SB1207HF5001	7G369PSB668-A01	F20001
SB1250HF5003	AD41	2	RCB SGBC>19'	19	SB1250HF5003	2C361PSB468-A05	F20001
SB1274HL5002L	AD151	7	IVC B	10	SB9274HL5002	5G369PSB668-05	F20002
SB1274HL5002U	AD151	7	IVC B	10	SB9274HL5002	5G369PSB668-05	F20002
SB1301HL5003L	AD501	2	RCB OMB >19'	19	SB9301HL5003	2C369PSB468-02	F20001
SB1301HL5003U	AD501	2	RCB OMB >19'	19	SB9301HL5003	2C369PSB468-02	F20001
SB1301HL5011L	AD501	2	RCB SGBC>19'	19	SB9301HL5011	2C369PSB468-02	F20001
SB1301HL5011U	AD501	2	RCB SGBC>19'	19	SB9301HL5011	2C369PSB468-02	F20001
SB1301HL5012N	AD151	2	RCB SGBC>19'	19	SB9301HL5012	2C369PSB468-02	F20001
SB1301HL5012S	AD151	2	RCB SGBC>19'	19	SB9301HL5012	2C369PSB468-02	F20001
SB1301HL5018	AD501	2	IVC C	10	SB9301HL5018	5G369PSB668-07	F20001
SB1301HL5020	AD501	2	IVC C	10	SB9301HL5020	5G369PSB668-07	F20001
SB1301HL5021	AD501	2	IVC C	10	SB9301HL5021	5G369PSB668-07	F20001
SB1302HF5003	AD41	2	RCB SGBC>19'	19	SB1302HF5003	2C369PSB468-A04	F20001
SB1303HF5005	AD151	2	RCB SGBC>37'	19	SB1303HF5005	2C369PSB468-A04	F20001
SB1304HL5001	AD501	7	IVC C	10	SB9304HL5001	5G369PSB668-07	F20001
SB1304HL5002	AD501	7	IVC C	10	SB9304HL5002	5G369PSB668-07	F20001
SB1304HL5006	AD501	7	IVC C	10	SB9304HL5006	5G369PSB668-07	F20001
SB1350HF5016	AD41	2	RCB SGBC>19'	19	SB1350HF5016	2C361PSB468-A05	F20001
SB1401HL5003	AD1601	2	RCB OMB >19'	19	SB9401HL5003	2C369PSB468-02	F20001
SB1401HL5011	AD1601	2	RCB OMB >19'	19	SB9401HL5011	2C369PSB468-02	F20001
SB1401HL5012	AD501	2	RCB SGAD>19'	19	SB9401HL5012	2C369PSB468-02	F20001
SB1401HL5016L	AD151	2	RCB SGAD>19'	19	SB9401HL5016	2C369PSB468-02	F20001

Mdtpns Tagtpns / Snubber	Model No	Qc Level	Route / Location	Elev	Hang Dwg	Iso Dwg	Pipe Dwg
SB1401HL5016U	AD151	2	RCB SGAD>19'	19	SB9401HL5016	2C369PSB468-02	F20001
SB1401HL5019	AD501	2	RCB SGAD>19'	19	SB9401HL5019	2C369PSB468-02	F20001
SB1401HL5020	AD501	2	IVC D	10	SB9401HL5020	5G369PSB668-01	F20001
SB1401HL5022	AD501	2	IVC D	10	SB9401HL5022	5G369PSB668-01	F20001
SB1401HL5023	AD501	2	IVC D	10	SB9401HL5023	5G369PSB668-01	F20001
SB1402HF5002	AD71	2	RCB SGAD>37'	19	SB1402HF5002	2C369PSB468-A04	F20001
SB1402HF5004	AD71	2	RCB SGAD>37'	19	SB1402HF5004	2C369PSB468-A04	F20001
SB1403HF5002	AD71	2	RCB SGAD>19'	19	SB1403HF5002	2C368PSB468-A04	F20001
SB1404HL5001	AD501	7	IVC D	10	SB9404HL5001	5G369PSB668-01	F20001
SB1404HL5002	AD501	7	IVC D	10	SB9404HL5002	5G369PSB668-01	F20001
SB1406HL5007	AD41	7	IVC D	10	SB9406HL5007	5G369PSB668-01	F20001
SB1407HF5001	AD41	7	IVC D	10	SB1407HF5001	7G369PSB668-A01	F20001
SB1474HL5002	AD501	7	IVC D	10	SB9474HL5002	5G369PSB668-01	F20002
SI1101SS0008L	AD501	2	FHB HHSI A	-29	SI9101SS0008	2F369PSI572-03	F05013
SI1101SS0008U	AD501	2	FHB HHSI A	-29	SI9101SS0008	2F369PSI572-03	F05013
SI1107HL5001N	AD501	2	RCB OMB >19'	19	SI9107HL5001	4C369PSI472-01	F05013
SI1107HL5001S	AD501	2	RCB OMB >19'	19	SI9107HL5001	4C369PSI472-01	F05013
SI1107SS0061	AD501	2	RCB OMB >19'	19	SI9107SS0061	4C369PSI472-01	F05013
SI1108HL5001	AD1601	1	RCB SGAD>19'	19	SI9108HL5001	4C369PSI472-01	F05013
SI1108HL5003	AD1601	1	RCB SGAD>19'	19	SI9108HL5003	4C369PSI472-01	F05013
SI1112HF5023	AD41	7	RCB OMB >19'	19	SI1112HF5023	5C369PSI472-A07	F05013
SI1201HL5010L	AD501	2	FHB HHSI B	-29	SI9201HL5010	2F369PSI572-04	F05014
SI1201HL5010U	AD501	2	FHB HHSI B	-29	SI9201HL5010	2F369PSI572-04	F05014
SI1205HL5022	AD501	2	RCB IMB >-11	-11	SI9205HL5022	2C369PSI472-02	F05014
SI1206HL5008	AD151	2	RCB IMB >-11	-11	SI9206HL5008	4C369PSI472-05	F05014
SI1206HL5012	AD501	2	RCB IMB >-11	-11	SI9206HL5012	4C369PSI472-05	F05014
SI1207SS0001	AD501	2	RCB OMB >19'	19	SI9207SS0001	4C369PSI472-05	F05014
SI1208HL5005	AD1601	1	RCB SGBC>19'	19	SI9208HL5005	4C369PSI472-05	F05014
SI1217HL5009	AD1601	2	RCB OMB >-11	-2	SI9217HL5009	5C369PSI472-03	F05016
SI1301SS0005L	AD501	2	FHB HHSI C	-29	SI9301SS0005	2F369PSI572-06	F05015

Mdtpns Tagtpns / Snubber	Model No	Qc Level	Route / Location	Elev	Hang Dwg	Iso Dwg	Pipe Dwg
SI1301SS0005U	AD501	2	FHB HHSI C	-29	SI9301SS0005	2F369PSI572-06	F05015
SI1306HL5012	AD151	2	FHB HHSI C	-29	SI9306HL5012	2F369PSI572-05	F05015
SI1308HL5001	AD501	1	RCB IMB >-11	-11	SI9308HL5001	4C369PSI472-07	F05015
SI1314HL5007	AD5501	2	RCB IMB >-11	-11	SI9314HL5007	5C369PSI472-03	F05016
SI1315HL5003	AD12501	1	RCB SGBC>19'	19	SI9315HL5003	5C369PSI472-03	F05016
SI1315HL5004	AD5501	1	RCB SGBC>19'	19	SI9315HL5004	5C369PSI472-03	F05016
SI1326HL5001	AD501	2	RCB SGBC>19'	19	SI9326HL5001	4C369PSI472-07	F05015
SI1327HL5001	AD1601	2	RCB SGBC>19'	19	SI9327HL5001	4C369PSI472-07	F05015
WL1019HF5001	AD71	7	RCB IMB >-11	-11	WL1019HF5001	7G369PWL477-A03	F05022
WL1284HL5002	AD1601	7	MAB RM 67C	10	WL9284HL5002	7M369PWL277-03	F05026
WL1284HL5003	AD501	7	MAB RM 53B	10	WL9284HL5003	7M369PWL277-03	F05026

ATTACHMENT 2

Unit 2 Snubber IST Listing

Mdtpns Tagtpns / Snubber	Model No	Qc Level	Route / Location	Elev	Hang Dwg	Iso Dwg	Pipe Dwg
2C112XSN0001A	HYD-1300KIP	2	RCB SGA-N/E	58	400290-00010XX	400290--00010XX	0957-0100008WN
2C112XSN0001B	HYD-1300KIP	2	RCB SGB-N/E	58	400290-00010XX	400290--00010XX	0957-0100008WN
2C112XSN0001C	HYD-1300KIP	2	RCB SGC-N/E	58	400290-00010XX	400290--00010XX	0957-0100008WN
2C112XSN0001D	HYD-1300KIP	2	RCB SGD-N/E	58	400290-00010XX	400290--00010XX	0957-0100008WN
2C112XSN0002A	HYD-1300KIP	2	RCB SGA-N/W	58	400290-00010XX	400290--00010XX	0957-0100008WN
2C112XSN0002B	HYD-1300KIP	2	RCB SGB-N/W	58	400290-00010XX	400290--00010XX	0957-0100008WN
2C112XSN0002C	HYD-1300KIP	2	RCB SGC-N/W	58	400290-00010XX	400290--00010XX	0957-0100008WN
2C112XSN0002D	HYD-1300KIP	2	RCB SGD-N/W	58	400290-00010XX	400290--00010XX	0957-0100008WN
2C112XSN0003A	HYD-1300KIP	2	RCB SGA-S/W	58	400290-00010XX	400290--00010XX	0957-0100008WN
2C112XSN0003B	HYD-1300KIP	2	RCB SGB-S/W	58	400290-00010XX	400290--00010XX	0957-0100008WN
2C112XSN0003C	HYD-1300KIP	2	RCB SGC-S/W	58	400290-00010XX	400290--00010XX	0957-0100008WN
2C112XSN0003D	HYD-1300KIP	2	RCB SGD-S/W	58	400290-00010XX	400290--00010XX	0957-0100008WN
2C112XSN0004A	HYD-1300KIP	2	RCB SGA-S/E	58	400290-00010XX	400290--00010XX	0957-0100008WN
2C112XSN0004B	HYD-1300KIP	2	RCB SGB-S/E	58	400290-00010XX	400290--00010XX	0957-0100008WN
2C112XSN0004C	HYD-1300KIP	2	RCB SGC-S/E	58	400290-00010XX	400290--00010XX	0957-0100008WN
2C112XSN0004D	HYD-1300KIP	2	RCB SGD-S/E	58	400290-00010XX	400290--00010XX	0957-0100008WN
AF2006HL5003	AD5501	2	RCB SGAD>52'	19	AF9006HL5003	2C369PAF402-02	F00024
AF2006HL5015	AD5501	2	RCB SGAD>52'	19	AF9006HL5015	2C369PAF402-02	F00024
AF2006HL5018	AD5501	2	RCB OMB >19'	19	AF9006HL5018	2C369PAF402-02	F00024
AF2006HL5035N	AD5501	2	RCB SGAD>68'	19	AF9006HL5035	2C369PAF402-02	F00024
AF2006HL5035S	AD5501	2	RCB SGAD>68'	19	AF9006HL5035	2C369PAF402-02	F00024
AF2008HL5028	AD5501	2	RCB SGAD>68'	19	AF9008HL5028	2C369PAF402-02	F00024
AF2008HL5029	AD5501	2	RCB SGAD>68'	19	AF9008HL5029	2C369PAF402-02	F00024
AF2008HL5030	AD5501	2	RCB OMB >19'	19	AF9008HL5030	2C369PAF402-02	F00024
AF2008HL5041N	AD5501	2	RCB SGAD>68'	19	AF9008HL5041	2C369PAF402-02	F00024
AF2008HL5041S	AD5501	2	RCB SGAD>68'	19	AF9008HL5041	2C369PAF402-02	F00024
AF2010HL5002L	AD5501	2	RCB OMB >19'	19	AF9010HL5002	2C369PAF402-01	F00024
AF2010HL5002U	AD5501	2	RCB OMB >19'	19	AF9010HL5002	2C369PAF402-01	F00024
AF2010HL5007E	AD5501	2	RCB SGBC>52'	19	AF9010HL5007	2C369PAF402-01	F00024
AF2010HL5007W	AD5501	2	RCB SGBC>52'	19	AF9010HL5007	2C369PAF402-01	F00024

Mdtpns Tagtpns / Snubber	Model No	Qc Level	Route / Location	Elev	Hang Dwg	Iso Dwg	Pipe Dwg
AF2010HL5008L	AD5501	2	RCB SGBC>68'	19	AF9010HL5008	2C369PAF402-01	F00024
AF2010HL5008U	AD5501	2	RCB SGBC>68'	19	AF9010HL5008	2C369PAF402-01	F00024
AF2010HL5009	AD1601	2	RCB SGBC>68'	19	AF9010HL5009	2C369PAF402-01	F00024
AF2010HL5017	AD5501	2	RCB SGBC>68'	19	AF9010HL5017	2C369PAF402-01	F00024
AF2010HL5018	AD1601	2	RCB SGBC>68'	19	AF9010HL5018	2C369PAF402-01	F00024
AF2010HL5020	AD1601	2	RCB SGBC>68'	19	AF9010HL5020	2C369PAF402-01	F00024
AF2010HL5026	AD1601	2	RCB SGBC>19'	19	AF9010HL5026	2C369PAF402-01	F00024
AF2010HL5035	AD1601	2	RCB SGBC>68'	19	AF9010HL5035	2C369PAF402-01	F00024
AF2012HL5014E	AD1601	2	RCB SGBC>68'	19	AF9012HL5014	2C369PAF402-01	F00024
AF2012HL5014W	AD1601	2	RCB SGBC>68'	19	AF9012HL5014	2C369PAF402-01	F00024
AF2012HL5017	AD5501	2	RCB SGBC>68'	19	AF9012HL5017	2C369PAF402-01	F00024
AF2012HL5018	AD1601	2	RCB SGBC>68'	19	AF9012HL5018	2C369PAF402-01	F00024
AF2012HL5020	AD1601	2	RCB SGBC>68'	19	AF9012HL5020	2C369PAF402-01	F00024
AF2012HL5024	AD5501	2	RCB OMB >19'	19	AF9012HL5024	2C369PAF402-01	F00024
AF2012HL5027	AD5501	2	RCB OMB >19'	19	AF9012HL5027	2C369PAF402-01	F00024
AF2012HL5038L	AD5501	2	RCB SGBC>68'	19	AF9012HL5038	2C369PAF402-01	F00024
AF2012HL5038U	AD5501	2	RCB SGBC>68'	19	AF9012HL5038	2C369PAF402-01	F00024
AF2054HL5004N	AD151	3	IVC D	34	AF9054HL5004	5G369PAF602-10	F00024
AF2054HL5004S	AD151	3	IVC D	34	AF9054HL5004	5G369PAF602-10	F00024
AF2061HL5001	AD1601	2	RCB SGAD>52'	19	AF9061HL5001	2C369PAF402-02	F00024
AF2061HL5002	AD1601	2	RCB SGAD>68'	19	AF9061HL5002	2C369PAF402-02	F00024
AF2062HL5011	AD1601	2	RCB SGAD>68'	19	AF9062HL5011	2C369PAF402-02	F00024
AF2062HL5012	AD1601	2	RCB SGAD>68'	19	AF9062HL5012	2C369PAF402-02	F00024
AF2062HL5015	AD1601	2	RCB SGAD>52'	19	AF9062HL5015	2C369PAF402-02	F00024
AF2063HL5002	AD1601	2	RCB SGBC>68'	19	AF9063HL5002	2C369PAF402-01	F00024
AF2063HL5003	AD151	2	RCB SGBC>68'	19	AF9063HL5003	2C369PAF402-01	F00024
AF2063HL5005	AD1601	2	RCB SGBC>68'	19	AF9063HL5005	2C369PAF402-01	F00024
AF2063HL5006	AD1601	2	RCB SGBC>68'	19	AF9063HL5006	2C369PAF402-01	F00024
AF2064HL5004	AD1601	2	RCB SGBC>52'	19	AF9064HL5004	2C369PAF402-01	F00024
AP2003HF5001	AD41	2	MAB RM 108C	29	AP2003HF5001	5M369PAP287-A01	Z47501

Mdtpns Tagtpns / Snubber	Model No	Qc Level	Route / Location	Elev	Hang Dwg	Iso Dwg	Pipe Dwg
CC2105HL5004	AD5501	3	RCB RHR HX 2A	37	CC9105HL5004	4C369PCC407-08	F05017
CC2105HL5009	AD5501	3	RCB OMB >52'	52	CC9105HL5009	4C369PCC407-08	F05017
CC2109HL5001N	AD501	3	MAB RM 106A	27	CC9109HL5001	5M362PCC207-07	F05017
CC2109HL5001S	AD501	3	MAB RM 106A	27	CC9109HL5001	5M362PCC207-07	F05017
CC2110HL5001	AD1601	3	MAB RM 106A	27	CC9110HL5001	5M362PCC207-07	F05017
CC2136HL5002	AD501	7	MAB RM 64	10	CC9136HL5002	5M362PCC207-07	F05017
CC2205HL5007L	AD501	3	RCB OMB >52'	52	CC9205HL5007	5M362PCC207-07	F05018
CC2205HL5007U	AD501	3	RCB OMB >52'	52	CC9205HL5007	5M362PCC207-07	F05018
CC2206HL5008	AD501	3	RCB OMB >52'	52	CC9206HL5008	4C369PCC407-10	F05018
CC2209HL5002	AD1601	3	MAB RM 216	41	CC9209HL5002	5M369PCC207-11	F05018
CC2209HL5003	AD1601	3	MAB RM 216	41	CC9209HL5003	5M369PCC207-11	F05018
CC2210HL5001	AD1601	3	MAB RM 106A	27	CC9210HL5001	5M369PCC207-22	F05018
CC2215SS0002	AD501	3	RCB OMB >-11'	-11	CC9215SS02	3C369PCC407-16	F05018
CC2220SS0002L	AD501	3	MAB RM 64	10	CC9220SS0002	5M369PCC207-11	F05018
CC2220SS0002U	AD501	3	MAB RM 64	10	CC9220SS0002	5M369PCC207-11	F05018
CC2309SS0002	AD1601	3	MAB RM 216	41	CC9309SS0002	5M362PCC207-01	F05019
CC2309SS0003L	AD1601	3	MAB RM 216	41	CC9309SS0003	5M362PCC207-01	F05019
CC2309SS0003U	AD1601	3	MAB RM 216	41	CC9309SS0003	5M362PCC207-01	F05019
CC2311SS0001	AD1601	3	MAB RM 216	41	CC9311SS0001	5M369PCC207-08	F05019
CC2320HL5001	AD1601	3	MAB RM 216	41	CC9320HL5001	5M362PCC207-01	F05019
CC2425HL5016	AD151	3	FHB RM 208	30	CC9425HL5016	5F369PCC507-01	F05020
CC2613SS0003	AD151	7	RCB OMB >37'	37	CC9613SS0003	5C369PCC407-03	F05021
CV2002HL5002	AD71	2	RCB SGBC>52'	19	CV9002HL5002	4C369PCV417-04	F05005
CV2002HL5003	AD71	2	RCB SGBC>19'	19	CV9002HL5003	4C369PCV417-04	F05005
CV2002HL5004	AD71	2	RCB SGBC>19'	19	CV9002HL5004	4C369PCV417-04	F05005
CV2002HL5007	AD151	2	RCB SGBC>19'	19	CV9002HL5007	4C369PCV417-04	F05005
CV2002HL5008	AD71	2	RCB SGBC>37'	19	CV9002HL5008	4C369PCV417-04	F05005
CV2002HL5009	AD151	2	RCB SGBC>37'	19	CV9002HL5009	4C369PCV417-04	F05005
CV2002HL5010	AD151	2	RCB SGBC>19'	19	CV9002HL5010	4C369PCV417-04	F05005
CV2002HL5012	AD71	2	RCB SGBC>37'	19	CV9002HL5012	4C369PCV417-04	F05005

Mdtpns Tagtpns / Snubber	Model No	Qc Level	Route / Location	Elev	Hang Dwg	Iso Dwg	Pipe Dwg
CV2002HL5019	AD151	2	RCB SGBC>19'	19	CV9002HL5019	4C369PCV417-04	F05005
CV2002HL5020	AD151	2	RCB SGBC>19'	19	CV9002HL5020	4C369PCV417-04	F05005
CV2002HL5021	AD501	2	RCB SGBC>19'	19	CV9002HL5021	4C369PCV417-04	F05005
CV2003HF5003	AD151	2	RCB RGN HX	37	CV2003HF5003	5C369PCV417-A09	F05005
CV2003HL5003N	AD151	2	RCB RGN HX	37	CV2003HL5003	4C369PCV417-04	F05005
CV2003HL5003S	AD151	2	RCB RGN HX	37	CV2003HL5003	4C369PCV417-04	F05005
CV2004HF5001	AD41	2	RCB RGN HX	37	CV2004HF5001	5C369PCV417-A09	F05005
CV2005HF5001	AD41	2	RCB RGN HX	37	CV2005HF5001	5C369PCV417-A09	F05005
CV2006HL5037	AD1601	2	MAB RM 108C	29	CV9006HL5037	4M369PCV217-04	F05005
CV2011HL5009	AD71	2	MAB RM 49	10	CV9011HL5009	4M369PCV217-04	F05006
CV2086SS0002	AD71	2	MAB RM 110	29	CV9086SS0002	2M369PCV217-05	F05006
CV2088HL5002	AD41	2	MAB RM 31	10	CV9088HL5002	4M369PCV217-04	F05006
CV2116HL5018	AD71	2	MAB RM 108C	29	CV9116HL5018	2M369PCV217-20	F05007
CV2117HF5054	AD41	2	RCB PZR	37	CV2117HF5054	4C369PCV417-A02	F05005
CV2117HL5005	AD501	2	RCB SGBC>37'	19	CV9117HL5005	4C369PCV417-02	F05005
CV2117SS0006	AD1601	2	RCB SGBC>37'	19	CV9117SS0006	4C369PCV417-02	F05005
CV2121HS5007	AD41	1	RCB PZR	37	CV9121HS5007	4C369PCV417-A02	F05005
CV2121HS5009	AD151	1	RCB PZR	37	CV9121HS5009	4C369PCV417-A02	F05005
CV2121HS5010	AD151	1	RCB PZR	37	CV9121HS5010	4C369PCV417-A02	F05005
FC2009SS0001	AD41	3	FHB RM 110	21	FC9009SS0001	4F369PFC530-03	F05028
FC2011HL5001	AD1601	2	FHB RM 110	21	FC9011HL5001	4F369PFC530-02	F05028
FC2012HL5002	AD501	3	FHB RM 110	21	FC9012HL5002	4F369PFC530-02	F05028
FW2012HL5002E	AD5501	2	RCB SGAD>37'	19	FW9012HL5002	2C369PFW433-01	F00062
FW2012HL5002W	AD5501	2	RCB SGAD>37'	19	FW9012HL5002	2C369PFW433-01	F00062
FW2012HL5003	AD12501	2	RCB SGAD>37'	19	FW9012HL5003	2C369PFW433-01	F00062
FW2012HL5005L	AD5501	2	RCB OMB >37'	37	FW9012HL5005	2C369PFW433-01	F00062
FW2012HL5005U	AD5501	2	RCB OMB >37'	37	FW9012HL5005	2C369PFW433-01	F00062
FW2012HL5011	AD5501	2	RCB SGAD>19'	19	FW9012HL5011	2C369PFW433-01	F00062
FW2012HL5016	AD12501	2	RCB SGAD>37'	19	FW2012HL5016	2C369PFW433-01	F00062
FW2014HL5001E	AD5501	2	RCB SGBC>37'	19	FW9014HL5001	2C369PFW433-01	F00062

Mdtpns Tagtpns / Snubber	Model No	Qc Level	Route / Location	Elev	Hang Dwg	Iso Dwg	Pipe Dwg
FW2014HL5001W	AD5501	2	RCB SGBC>37'	19	FW9014HL5001	2C369PFW433-01	F00062
FW2014HL5002	AD12501	2	RCB SGBC>37'	19	FW9014HL5002	2C369PFW433-01	F00062
FW2014HL5003L	AD5501	2	RCB RGN HX	37	FW9014HL5003	2C369PFW433-01	F00062
FW2014HL5003U	AD5501	2	RCB RGN HX	37	FW9014HL5003	2C369PFW433-01	F00062
FW2014HL5009	AD12501	2	RCB SGBC>37'	19	FW9014HL5009	2C369PFW433-01	F00062
FW2014HL5012	AD5501	2	RCB SGBC>19'	19	FW9014HL5012	2C369PFW433-01	F00062
FW2016HL5003	AD5501	2	RCB RGN HX	37	FW9016HL5003	2C369PFW433-11	F00062
FW2016HL5004	AD5501	2	RCB SGBC>19'	19	FW9016HL5004	2C369PFW433-01	F00062
FW2016HL5006	AD5501	2	RCB SGBC>52'	19	FW9016HL5006	2C369PFW433-01	F00062
FW2016HL5007	AD5501	2	RCB SGBC>19'	19	FW9016HL5007	2C369PFW433-01	F00062
FW2016HL5008	AD5501	2	RCB RGN HX	37	FW9016HL5008	2C369PFW433-01	F00062
FW2016HL5009	AD12501	2	RCB SGBC>37'	19	FW9016HL5009	2C369PFW433-01	F00062
FW2016HL5010	AD5501	2	RCB SGBC>37'	19	FW9016HL5010	2C369PFW433-01	F00062
FW2016SH0001	AD5501	2	RCB SGBC>19"	19	FW9016SH0001	2C369PFW433-01	F00062
FW2016SS0006	AD5501	2	RCB SGBC>52'	19	FW9016SS0006	2C369PFW433-01	F00062
FW2018HL5003	AD5501	2	RCB OMB >37'	37	FW9018HL5003	2C369PFW433-01	F00062
FW2018HL5004	AD5501	2	RCB SGAD>19'	19	FW9018HL5004	2C369PFW433-01	F00062
FW2018HL5006L	AD5501	2	RCB OMB >37'	37	FW9018HL5006	2C369PFW433-01	F00062
FW2018HL5006U	AD5501	2	RCB OMB >37'	37	FW9018HL5006	2C369PFW433-01	F00062
FW2018HL5007N	AD5501	2	RCB SGAD>37'	19	FW9018HL5007	2C369PFW433-01	F00062
FW2018HL5007S	AD5501	1	RCB SGAD>37'	19	FW9018HL5007	2C369PFW433-01	F00062
FW2018HL5008	AD12501	2	RCB SGAD>37'	19	FW9018HL5008	2C369PFW433-01	F00062
FW2018HL5009	AD12501	2	RCB SGAD>37'	19	FW9018HL5009	2C369PFW433-01	F00062
FW2018SS0001	AD5501	2	RCB SGAD>19'	19	FW9018SS0001	2C369PFW433-01	F00062
FW2018SS0006	AD5501	2	RCB SGAD>52'	19	FW9018SS0006	2C369PFW433-01	F00062
FW2018SS0007	AD12501	2	RCB SGAD>37'	19	FW9018SS0007	2C369PFW433-01	F00062
FW2029HL5002E	AD1601	2	IVC A	44	FW9029HL5002	2G369PFW633-02	F00062
FW2029HL5002W	AD1601	2	IVC A	44	FW9029HL5002	2G369PFW633-02	F00062
FW2029HL5003	AD1601	2	IVC A	44	FW9029HL5003	2G369PFW633-02	F00062
FW2030HL5002E	AD1601	2	IVC B	44	FW9030HL5002	2G369PFW633-03	F00062

Mdtpns Tagtpns / Snubber	Model No	Qc Level	Route / Location	Elev	Hang Dwg	Iso Dwg	Pipe Dwg
FW2030HL5002W	AD1601	2	IVC B	44	FW9030HL5002	2G369PFW633-03	F00062
FW2030HL5003	AD1601	2	IVC B	44	FW9030HL5003	2G369PFW633-03	F00062
FW2031HL5002E	AD1601	2	IVC C	44	FW9031HL5002	2G369PFW633-04	F00062
FW2031HL5002W	AD1601	2	IVC C	44	FW9031HL5002	2G369PFW633-04	F00062
FW2031HL5003	AD1601	2	IVC C	44	FW9031HL5003	2G369PFW633-04	F00062
FW2032HL5002E	AD1601	2	IVC D	44	FW9032HL5002	2G369PFW633-01	F00062
FW2032HL5002W	AD1601	2	IVC D	44	FW9032HL5002	2G369PFW633-01	F00062
FW2032HL5003	AD1601	2	IVC D	44	FW9032HL5003	2G369PFW633-01	F00062
FW2117HL5001	AD41	2	IVC C	34	FW9117HL5001	2G369PFW633-05	F00063
FW2117HL5003	AD41	2	IVC C	34	FW9117HL5003	2G369PFW633-05	F00063
FW2117HL5004	AD41	2	IVC C	44	FW9117HL5004	2G369PFW633-05	F00063
FW2119HL5001	AD41	2	IVC B	34	FW9119HL5001	2G369PFW633-05	F00063
FW2119HL5003	AD41	2	IVC B	34	FW9119HL5003	2G369PFW633-05	F00063
FW2119HL5004	AD41	2	IVC B	44	FW9119HL5004	2G369PFW633-05	F00063
FW2121HL5001	AD41	2	IVC A	34	FW9121HL5001	2G369PFW633-05	F00063
FW2121HL5003	AD41	2	IVC A	34	FW9121HL5003	2G369PFW633-05	F00063
FW2121HL5004	AD41	2	IVC A	34	FW9121HL5004	2G369PFW633-05	F00063
FW2123HL5001	AD41	2	IVC D	34	FW9123HL5001	2G369PFW633-05	F00063
FW2123HL5003	AD41	2	IVC D	34	FW9123HL5003	2G369PFW633-05	F00063
FW2123HL5004	AD41	2	IVC D	34	FW9123HL5004	2G369PFW633-05	F00063
MD2147HF5002	AD71	7	IVC A	44	MD2147HF5002	9G369PMD645-A01	F00055
MD2148HF5002	AD71	7	IVC B	44	MD2148HF5002	9G369PMD645-A01	F00055
MD2149HF5002	AD71	7	IVC C	44	MD2149HF5002	9G369PMD645-A01	F00055
MD2150HF5002	AD71	7	IVC D	44	MD2150HF5002	9G369PMD645-A01	F00055
MS2001HL5004	AD5501	2	RCB OMB >68'	68	MS9001HL5004	2C369PMS446-01	F00016
MS2001HL5007	AD12501	2	RCB SGAD>68'	19	MS9001HL5007	2C369PMS446-01	F00016
MS2001HL5010L	AD1601	2	IVC A	51	MS9001HL5010	2G369PMS646-06	F00016
MS2001HL5010U	AD1601	2	IVC A	51	MS9001HL5010	2G369PMS646-06	F00016
MS2001HL5011E	AD5501	2	IVC A	51	MS9001HL5011	2G369PMS646-06	F00016
MS2001HL5011W	AD5501	2	IVC A	51	MS9001HL5011	2G369PMS646-06	F00016

Mdtpns Tagtpns / Snubber	Model No	Qc Level	Route / Location	Elev	Hang Dwg	Iso Dwg	Pipe Dwg
MS2001HL5012L	AD1601	2	IVC A	51	MS9001HL5012	2G369PMS646-06	F00016
MS2001HL5012U	AD1601	2	IVC A	51	MS9001HL5012	2G369PMS646-06	F00016
MS2001HL5015	AD5501	2	RCB SGAD>83'	19	MS9001HL5015	2C369PMS446-01	F00016
MS2002HL5006	AD5501	2	RCB OMB >68'	68	MS9002HL5006	2C369PMS466-02	F00016
MS2002HL5007	AD12501	2	RCB SGBC>68'	19	MS9002HL5007	2C369PMS446-02	F00016
MS2002HL5010L	AD1601	2	IVC B	51	MS9002HL5010	2G369PMS646-07	F00016
MS2002HL5010U	AD1601	2	IVC B	51	MS9002HL5010	2G369PMS646-07	F00016
MS2002HL5011E	AD5501	2	IVC B	51	MS9002HL5011	2G369PMS646-07	F00016
MS2002HL5011W	AD5501	2	IVC B	51	MS9002HL5011	2G369PMS646-07	F00016
MS2002HL5012L	AD1601	2	IVC B	51	MS9002HL5012	2G369PMS646-07	F00016
MS2002HL5012U	AD1601	2	IVC B	51	MS9002HL5012	2G369PMS646-07	F00016
MS2002HL5015	AD5501	2	RCB SGBC>83'	19	MS9002HL5015	2C369PMS446-02	F00016
MS2002HL5016	AD5501	2	RCB SGBC>83'	19	MS9002HL5016	2C369PMS446-02	F00016
MS2003HL5004	AD5501	2	RCB OMB >68'	68	MS9003HL5004	2C369PMS446-03	F00016
MS2003HL5012	AD12501	2	RCB SGBC>68'	19	MS9003HL5012	2C369PMS446-03	F00016
MS2003HL5013	AD5501	2	RCB SGBC>83'	19	MS9003HL5013	2C369PMS446-03	F00016
MS2003HL5014	AD5501	2	RCB SGBC>83'	19	MS9003HL5014	2C369PMS446-03	F00016
MS2003HL5015L	AD1601	2	IVC C	51	MS9003HL5015	2G369PMS646-08	F00016
MS2003HL5015U	AD1601	2	IVC C	51	MS9003HL5015	2G369PMS646-08	F00016
MS2003HL5016E	AD5501	2	IVC C	51	MS9003HL5016	2G369PMS646-08	F00016
MS2003HL5016W	AD5501	2	IVC C	51	MS9003HL5016	2G369PMS646-08	F00016
MS2003HL5017L	AD1601	2	IVC C	51	MS9003HL5017	2G369PMS646-08	F00016
MS2003HL5017U	AD1601	2	IVC C	51	MS9003HL5017	2G369PMS646-08	F00016
MS2004HL5007	AD5501	2	RCB OMB >68'	68	MS9004HL5007	2C369PMS446-04	F00016
MS2004HL5012	AD12501	2	RCB SGAD>68'	19	MS9004HL5012	2C369PMS446-04	F00016
MS2004HL5013	AD12501	2	RCB PZR	37	MS9004HL5013	2C369PMS446-04	F00016
MS2004HL5014	AD12501	2	RCB SGAD>83'	19	MS9004HL5014	2C369PMS446-04	F00016
MS2004HL5015L	AD1601	2	IVC D	51	MS9004HL5015	2G369PMS646-09	F00016
MS2004HL5015U	AD1601	2	IVC D	51	MS9004HL5015	2G369PMS646-09	F00016
MS2004HL5016E	AD5501	2	IVC D	51	MS9004HL5016	2G369PMS646-09	F00016

Mdtpns Tagtpns / Snubber	Model No	Qc Level	Route / Location	Elev	Hang Dwg	Iso Dwg	Pipe Dwg
MS2004HL5016W	AD5501	2	IVC D	51	MS9004HL5016	2G369PMS646-09	F00016
MS2004HL5017L	AD1601	2	IVC D	51	MS9004HL5017	2G369PMS646-09	F00016
MS2004HL5017U	AD1601	2	IVC D	51	MS9004HL5017	2G369PMS646-09	F00016
MS2005SS0001N	AD5501	7	TGB B	55	MS9005SS0001	7G369PMS846-05	F00016
MS2005SS0001S	AD5501	7	TGB B	55	MS9005SS0001	7G369PMS846-05	F00016
MS2005SS0002E	AD5501	7	TGB B	29	MS9005SS0002	7G369PMS846-05	F00016
MS2005SS0002W	AD5501	7	TGB B	29	MS9005SS0002	7G369PMS846-05	F00016
MS2006SS0001N	AD5501	7	TGB B	55	MS9006SS0001	7G369PMS846-06	F00016
MS2006SS0001S	AD5501	7	TGB B	55	MS9006SS0001	7G369PMS846-06	F00016
MS2006SS0002E	AD5501	7	TGB B	29	MS9006SS0002	7G369PMS846-06	F00016
MS2006SS0002W	AD5501	7	TGB B	29	MS9006SS0002	7G369PMS846-06	F00016
MS2007SS0002E	AD5501	7	TGB B	29	MS9007SS0002	7G369PMS846-06	F00016
MS2007SS0002W	AD5501	7	TGB B	29	MS9007SS0002	7G369PMS846-06	F00016
MS2008HL5001	AD5501	7	TGB B	55	MS9008HL5001	7G369PMS846-05	F00016
MS2008SS0001E	AD5501	7	TGB B	29	MS9008SS0001	7G369PMS846-05	F00016
MS2008SS0001W	AD5501	7	TGB B	29	MS9008SS0001	7G369PMS846-05	F00016
MS2013HL5002E	AD5501	7	TGB B	55	MS9013HL5002	7G369PMS846-08	F00016
MS2013HL5002W	AD5501	7	TGB B	55	MS9013HL5002	7G369PMS846-08	F00016
MS2013HL5003	AD5501	7	TGB B	55	MS9013HL5003	7G3G9PMS846-05	F00016
MS2013HL5004	AD5501	7	TGB B	55	MS9013HL5004	7G369PMS846-05	F00016
MS2013SS0002E	AD5501	7	TGB B	55	MS9013SS0002	7G369PMS846-09	F00016
MS2013SS0002W	AD5501	7	TGB B	55	MS9013SS0002	7G369PMS846-09	F00016
MS2051HL5009	AD71	3	IVC D	10	MS9051HL5009	4G369PMS646-05	F00024
PS2020HF5002	AD41	7	MAB RM 108C	29	PS2020HF5002	5M369PPS285-A01	Z00045
RC2000SS0001	AD151		RCB PZR	37	RC2000SS0001	4C369PRC457-07	F05003
RC2003HL5006	AD501	1	RCB PZR	37	RC9003HL5006	1C369PRC457-06	F05003
RC2003HL5009	AD501	1	RCB PZR	37	RC9003HL5009	1C369PRC457-06	F05003
RC2014HL5001	AD5501	7	RCB PZR	37	RC9014HL5001	7C369PRC457-02	F05004
RC2014HL5003E	AD5501	7	RCB PZR	37	RC9014HL5003	7C769PRC457-02	F05004
RC2014HL5003W	AD5501	7	RCB PZR	37	RC9014HL5003	7C369PRC457-02	F05004

Mdtpns Tagtpns / Snubber	Model No	Qc Level	Route / Location	Elev	Hang Dwg	Iso Dwg	Pipe Dwg
RC2014HL5005N	AD5501	7	RCB PZR	37	RC9014HL5005	7C369PRC457-02	F05004
RC2014HL5005S	AD5501	7	RCB PZR	37	RC9014HL5005	7C369PRC457-02	F05004
RC2014HL5006L	AD5501	7	RCB PZR	37	RC9014HL5006	7C369PRC457-02	F05004
RC2014HL5006U	AD5501	7	RCB PZR	37	RC9014HL5006	7C369PRC457-02	F05004
RC2014HL5009	AD501	7	RCB PZR	37	RC9014HL5009	7C369PRC457-02	F05004
RC2014HL5012N	AD5501	7	RCB PZR	37	RC9014HL5012	7C369PRC457-02	F05004
RC2014HL5012S	AD5501	7	RCB PZR	37	RC9014HL5012	7C369PRC457-02	F05004
RC2014HL5013	AD1601	7	RCB PZR	37	RC9014HL5013	7C369PRC457-02	F05004
RC2014HL5015	AD1601	7	RCB PZR	37	RC9014HL5015	7C369PRC457-02	F05004
RC2014HL5019N	AD5501	7	RCB PZR	19	RC9014HL5019	7C369PRC457-02	F05004
RC2014HL5019S	AD5501	7	RCB PZR	19	RC9014HL5019	7C369PRC457-02	F05004
RC2014HL5026	AD501	7	RCB PZR	19	RC9014HL5026	7C369PRC457-02	F05004
RC2014HL5028	AD1601	7	RCB PZR	19	RC9014HL5028	7C369PRC457-02	F05004
RC2112HL5002	AD5501	1	RCB SGAD>19'	19	RC9112HL5002	4C369PRC457-09	F05001
RC2123HL5013	AD501	1	RCB PZR	37	RC9123HL5013	4C369PRC457-07	F05001
RC2125HL5001	AD5501	1	RCB IMB >-11'	-11	RC9125HL5001	4C369PRC457-10	F05001
RC2125HL5008	AD1601	1	RCB IMB >-11'	-11	RC9125HL5008	4C369PRC457-10	F05001
RC2221HL5001	AD1601	1	RCB IMB >-11'	-11	RC9221HL5001	4C369PRC457-10	F05001
RC2221HL5003	AD5501	1	RCB IMB >-11'	-11	RC9221HL5003	4C369PRC457-10	F05001
RC2221HL5004	AD5501	1	RCB SGBC>19'	19	RC9221HL5004	4C369PRC457-10	F05001
RC2221HL5005	AD5501	1	RCB SGBC>19'	19	RC9221HL5005	4C369PRC457-10	F05001
RC2221HL5006	AD5501	1	RCB IMB >-11'	-11	RC9221HL5006	4C369PRC457-10	F05001
RC2221HL5007	AD5501	1	RCB IMB >-11'	-11	RC9221HL5007	4C369PRC457-10	F05001
RC2320HL5002	AD1601	1	RCB SGBC>19'	19	RC9320HL5002	4C369PRC457-04	F05001
RC2320HL5004	AD501	1	RCB SGBC>19'	19	RC9320HL5004	4C369PRC457-04	F05001
RC2422HL5019	AD501	1	RCB SGAD>52'	19	RC9422HL5019	1C369PRC457-06	F05001
RH2101HL5001	AD1601	1	RCB VLV RM	-2	RH9101HL5001	4C369PRH459-04	F20000
RH2101HL5002	AD1601	1	RCB VLV RM	-2	RH9101HL5002	4C369PRH459-04	F20000
RH2101HL5003	AD1601	1	RCB VLV RM	19	RH9101HL5003	4C369PRH459-04	F20000
RH2101HL5006	AD5501	1	RCB SGAD>19'	19	RH9101HL5006	4C369PRC459-04	F20000

Mdtpns Tagtpns / Snubber	Model No	Qc Level	Route / Location	Elev	Hang Dwg	Iso Dwg	Pipe Dwg
RH2101HL5009	AD1601	1	RCB SGAD>19'	19	RH9101HL5009	4C369PRH459-04	F20000
RH2110HL5002	AD501	2	RCB SGAD>19'	19	RH9110HL5002	4C369PRH459-03	F20000
RH2201HL5001	AD1601	1	RCB VLV RM	-2	RH9201HL5001	4C369PRH459-07	F20000
RH2201HL5006	AD5501	1	RCB VLV RM	-2	RH9201HL5006	4C369PRH459-07	F20000
RH2202SS0002	AD1601	2	RCB VLV RM	-2	RH9202SS0002	4C369PRH459-07	F20000
RH2203HL5001	AD501	2	RCB VLV RM	19	RH9203HL5001	2C369PRH459-02	F20000
RH2204HL5001	AD501	2	RCB VLV RM	19	RH9204HL5001	2C369PRH459-02	F20000
RH2211HL5002L	AD501	2	RCB SGBC>19'	19	RH9211HL5002	4C369PRH459-07	F20000
RH2211HL5002U	AD501	2	RCB SGBC>19'	19	RH9211HL5002	4C369PRH459-07	F20000
RH2303HL5007	AD501	2	RCB VLV RM	19	RH9303HL5007	2C369PRH459-05	F20000
RH2303HL5009	AD501	2	RCB VLV RM	-2	RH9303HL5009	2C369PRH459-05	F20000
RH2306SS0001	AD501	2	RCB VLV RM	-2	RH9306SS0001	4C369PRH459-06	F20000
RH2312HL5002	AD501	2	RCB VLV RM	19	RH9312HL5002	4C369PRH459-01	F20000
RH2313HL5003L	AD501	2	RCB SGBC>19'	19	RH9313HL5003	4C369PRH459-06	F20000
RH2313HL5003U	AD501	2	RCB SGBC>19'	19	RH9313HL5003	4C369PRH459-06	F20000
SB2101HL5007	AD1601	2	RCB OMB >19'	19	SB9101HL5007	2C369PSB468-02	F20001
SB2101HL5012	AD501	2	RCB SGAD>19'	19	SB9101HL5012	2C369PSB468-02	F20001
SB2101HL5017	AD1601	2	RCB OMB >19'	19	SB9101HL5017	2C369PSB468-02	F20001
SB2101HL5019	AD501	2	IVC A	10	SB9101HL5019	5G369PSB668-03	F20001
SB2101HL5020	AD501	2	IVC A	10	SB9101HL5020	5G369PSB668-03	F20001
SB2101HL5022	AD501	2	IVC A	10	SB9101HL5022	5G369PSB668-03	F20001
SB2104HL5001	AD501	7	IVC A	10	SB9104HL5001	5G369PSB668-03	F20001
SB2104HL5002	AD501	7	IVC A	10	SB9104HL5002	5G369PSB668-03	F20001
SB2104HL5006	AD501	7	IVC A	10	SB9104HL5006	5G369PSB668-03	F20001
SB2105HL5001	AD71	7	IVC A	10	SB9105HL5001	5G369PSB668-03	F20001
SB2107HF5001	AD41	2	IVC A	10	SB2107HF5001	7G369PSB668-A01	F20001
SB2201HL5004	AD1601	2	RCB OMB >19'	19	SB9201HL5004	2C369PSB468-02	F20001
SB2201HL5010	AD1601	2	RCB OMB >19'	19	SB9201HL5010	2C369PSB468-02	F20001
SB2201HL5013	AD501	2	RCB SGBC>19'	19	SB9201HL5013	2C369PSB468-02	F20001
SB2201HL5017	AD501	2	IVC B	10	SB9201HL5017	5G369PSB668-05	F20001

Mdtpns Tagtpns / Snubber	Model No	Qc Level	Route / Location	Elev	Hang Dwg	Iso Dwg	Pipe Dwg
SB2201HL5018	AD501	2	IVC B	10	SB9201HL5018	5G369PSB668-05	F20001
SB2201HL5020	AD501	2	IVC B	10	SB9201HL5020	5G369PSB668-05	F20001
SB2202HF5002	AD41	2	RCB SGBC>19'	19	SB2202HF5002	2C362PSB468-A05	F20001
SB2204HL5001	AD501	7	IVC B	10	SB9204HL5001	5G369PSB668-05	F20001
SB2204HL5002	AD501	7	IVC B	10	SB9204HL5002	5G369PSB668-05	F20001
SB2205HL5003	AD151	7	IVC B	10	SB9205HL5003	5G369PSB668-05	F20001
SB2207HF5001	AD41	7	IVC B	10	SB2207HF5001	7G369PSB668-A01	F20001
SB2250HF5003	AD41	2	RCB SGBC>19'	19	SB2250HF5003	2C362PSB468-A05	F20001
SB2274HL5002L	AD151	7	IVC B	10	SB9274HL5002	5G369PSB668-05	F20002
SB2274HL5002U	AD151	7	IVC B	10	SB9274HL5002	5G369PSB668-05	F20002
SB2301HL5003L	AD501	2	RCB OMB >19'	19	SB9301HL5003	2C369PSB468-02	F20001
SB2301HL5003U	AD501	2	RCB OMB >19'	19	SB9301HL5003	2C369PSB468-02	F20001
SB2301HL5011L	AD501	2	RCB SGBC>19'	19	SB9301HL5011	2C369PSB468-02	F20001
SB2301HL5011U	AD501	2	RCB SGBC>19'	19	SB9301HL5011	2C369PSB468-02	F20001
SB2301HL5012N	AD151	2	RCB SGBC>19'	19	SB9301HL5012	2C369PSB468-02	F20001
SB2301HL5012S	AD151	2	RCB SGBC>19'	19	SB9301HL5012	2C369PSB468-02	F20001
SB2301HL5018	AD501	2	IVC C	10	SB9301HL5018	5G369PSB668-07	F20001
SB2301HL5020	AD501	2	IVC C	10	SB9301HL5020	5G369PSB668-07	F20001
SB2301HL5021	AD501	2	IVC C	10	SB9301HL5021	5G369PSB668-07	F20001
SB2302HF5003	AD151	2	RCB SGBC>19'	19	SB2302HF5003	2C369PSB468-A04	F20001
SB2303HF5005	AD151	2	RCB SGBC>37'	19	SB2303HF5005	2C369PSB468-A04	F20001
SB2304HL5001	AD501	7	IVC C	10	SB9304HL5001	5G369PSB668-07	F20001
SB2304HL5002	AD501	7	IVC C	10	SB9304HL5002	5G369PSB668-07	F20001
SB2304HL5006	AD501	7	IVC C	10	SB9304HL5006	5G369PSB668-07	F20001
SB2350HF5016	AD41	2	RCB SGBC>19'	19	SB2350HF5016	2C362PSB468-A05	F20001
SB2401HL5003	AD1601	2	RCB OMB >19'	19	SB9401HL5003	2C369PSB468-02	F20001
SB2401HL5011	AD1601	2	RCB OMB >19'	19	SB9401HL5011	2C369PSB468-02	F20001
SB2401HL5012	AD501	2	RCB SGAD>19'	19	SB9401HL5012	2C369PSB468-02	F20001
SB2401HL5016L	AD151	2	RCB SGAD>19'	19	SB9401HL5016	2C369PSB468-02	F20001
SB2401HL5016U	AD151	2	RCB SGAD>19'	19	SB9401HL5016	2C369PSB468-02	F20001

Mdtpns Tagtpns / Snubber	Model No	Qc Level	Route / Location	Elev	Hang Dwg	Iso Dwg	Pipe Dwg
SB2401HL5019	AD501	2	RCB SGAD>19'	19	SB9401HL5019	2C369PSB468-02	F20001
SB2401HL5020	AD501	2	IVC D	10	SB9401HL5020	5G369PSB668-01	F20001
SB2401HL5022	AD501	2	IVC D	10	SB9401HL5022	5G369PSB668-01	F20001
SB2401HL5023	AD501	2	IVC D	10	SB9401HL5023	5G369PSB668-01	F20001
SB2402HF5002	AD71	2	RCB SGAD>37'	19	SB2402HF5002	2C369PSB468-A04	F20001
SB2402HF5004	AD71	2	RCB SGAD>37'	19	SB2402HF5004	2C369PSB468-A04	F20001
SB2403HF5002	AD151	2	RCB SGAD>19'	19	SB2403HF5002	2C368PSB468-A04	F20001
SB2404HL5001	AD501	7	IVC D	10	SB9404HL5001	5G369PSB668-01	F20001
SB2404HL5002	AD501	7	IVC D	10	SB9404HL5002	5G369PSB668-01	F20001
SB2406HL5007	AD41	7	IVC D	10	SB9406HL5007	5G369PSB668-01	F20001
SB2407HF5001	AD41	7	IVC D	10	SB2407HF5001	7G369PSB668-A01	F20001
SB2474HL5002	AD501	7	IVC D	10	SB9474HL5002	5G369PSB668-01	F20002
SI2101SS0008L	AD501	2	FHB HHSI A	-29	SI9101SS0008	2F369PSI572-03	F05013
SI2101SS0008U	AD501	2	FHB HHSI A	-29	SI9101SS0008	2F369PSI572-03	F05013
SI2107HL5001N	AD501	2	RCB OMB >19'	19	SI9107HL5001	4C369PSI472-01	F05013
SI2107HL5001S	AD501	2	RCB OMB >19'	19	SI9107HL5001	4C369PSI472-01	F05013
SI2107SS0061	AD501	2	RCB OMB >19'	19	SI9107SS0061	4C369PSI472-01	F05013
SI2108HL5001	AD1601	1	RCB SGAD>19'	19	SI9108HL5001	4C369PSI472-01	F05013
SI2108HL5003	AD501	1	RCB SGAD>19'	19	SI9108HL5003	4C369PSI472-01	F05013
SI2201HL5010L	AD501	2	FHB HHSI B	-29	SI9201HL5010	2F369PSI572-04	F05014
SI2201HL5010U	AD501	2	FHB HHSI B	-29	SI9201HL5010	2F369PSI572-04	F05014
SI2205HL5022	AD501	2	RCB IMB >-11'	-11	SI9205HL5022	2C369PSI472-02	F05014
SI2206HL5008	AD151	2	RCB IMB >-11'	-11	SI9206HL5008	4C369PSI472-05	F05014
SI2206HL5012	AD501	2	RCB IMB >-11'	-11	SI9206HL5012	4C369PSI472-05	F05014
SI2207SS0001	AD501	2	RCB OMB >19'	19	SI9207SS0001	4C369PSI472-05	F05014
SI2208HL5005	AD1601	1	RCB SGBC>19'	19	SI9208HL5005	4C369PSI472-05	F05014
SI2217HL5009	AD1601	2	RCB OMB >-11'	-2	SI9217HL5009	5C369PSI472-03	F05016
SI2301SS0005L	AD501	2	FHB HHSI C	-29	SI9301SS0005	2F369PSI572-06	F05015
SI2301SS0005U	AD501	2	FHB HHSI C	-29	SI9301SS0005	2F369PSI572-06	F05015
SI2306HL5012	AD151	2	FHB HHSI C	-29	SI9306HL5012	2F369PSI572-05	F05015

Mdtpns Tagtpns / Snubber	Model No	Qc Level	Route / Location	Elev	Hang Dwg	Iso Dwg	Pipe Dwg
SI2308HL5001	AD501	1	RCB IMB >-11'	-11	SI9308HL5001	4C369PSI472-07	F05015
SI2314HL5007	AD5501	2	RCB IMB >-11'	-11	SI9314HL5007	5C369PSI472-03	F05016
SI2315HL5003	AD12501	1	RCB SGBC>19'	19	SI9315HL5003	5C369PSI472-03	F05016
SI2315HL5004	AD5501	1	RCB SGBC>19'	19	SI9315HL5004	5C369PSI472-03	F05016
SI2326HL5001	AD501	2	RCB SGBC>19'	19	SI9326HL5001	4C369PSI472-07	F05015
SI2327HL5001	AD1601	2	RCB SGBC>19'	19	SI9327HL5001	4C369PSI472-07	F05015
WL2019HF5001	AD71	7	RCB IMB >-11'	-11	WL2019HF5001	7G369PWL477-A03	F05022

ATTACHMENT 3

Snubber Code Cases – Information Only

Revision 0

CODE CASE OMN-13

(04) **Requirements for Extending Snubber Inservice Visual Examination Interval at LWR Power Plants**

This Code Case shall expire on February 12, 2007 unless previously annulled or reaffirmed.

Inquiry: With the low rate of problem identification through the visual examination process, can the visual examination interval allowed in Table ISTD 6.5.2-1 of the OM Code, Subsection ISTD, 1995 Edition 1996 Addenda be extended?

Reply: Yes, provided that the following additional service life monitoring requirements are met.

Applicability: ASME OM Code 1995 Edition with 1996 Addenda and later editions and addenda.

1 APPLICABILITY

This Code Case establishes specific requirements that must be met in order to allow extension of the visual examination interval beyond the maximum interval allowed in Table ISTD 6.5.2-1 for mechanical and hydraulic snubbers. Paragraphs referenced in this Code Case denote the 1995 Edition and 1996 Addenda. A correlation Table 1 is provided for 1998 Edition.

2 GENERAL REQUIREMENTS

The following requirements shall be implemented in order to extend the visual examination interval beyond the maximum interval allowed in Table ISTD 6.5.2-1.

(a) These requirements are in addition to the service life monitoring requirements in ISTD 8.

(b) The requirements of this Code Case shall be implemented after the requirements of ISTD 6.5.1, ISTD 6.5.2(a), ISTD 6.5.2(b), and ISTD 6.5.2(c) have been satisfied and the previous examination per Table ISTD 6.5.2-1 was performed at a maximum interval of two fuel cycles.

(c) Demonstrate that the requirements of paras. 3.1, 3.2, 3.3, 3.4, 3.5, and 3.6 of this Code Case have been met for one interval prior to extending the examination interval.

2.1 Service Life Evaluations

The data and information gathered under this Code Case shall be utilized to reevaluate service life as described in ISTD 8.

2.2 Testing for This Code Case

Snubbers tested specifically for this Code Case shall be dispositioned per ISTD 8.5.

Correlation Table

1995 Edition and 1996 Addenda	1998 Edition
ISTD 1.13	ISTD-1750
ISTD 6	ISTD-4200
ISTD 6.1, 6.2, 6.3, 6.4	ISTD-4210, 4220, 4230, 4240
IST 6.5.1	ISTD-4251
ISTD 6.5.2(a)	ISTD-4252(a)
ISTD 6.5.2(b)	ISTD-4252(b)
ISTD 6.5.2(c)	ISTD-4252(c)
ISTD 8	ISTD-6000
ISTD 8.5	ISTD-6500
Table ISTD 6.5.2-1	Table ISTD-4252-1

3 SPECIFIC REQUIREMENTS

3.1 Examination for Indications of Degradation or Severe Operating Environments

Examinations per ISTD 6.1, ISTD 6.2, ISTD 6.3, and ISTD 6.4 shall include examination for indications of degradation and severe operating environments.

3.2 Examination Prior to Maintenance or Testing

All snubbers shall be examined in accordance with the requirements of ISTD 6.1, ISTD 6.2, ISTD 6.3, and ISTD 6.4 and para. 3.1 of this Code Case prior to conducting any maintenance, stroking, or testing, and prior to removal, for any reason, from their installed location.

3.3 Monitoring of Reservoir Fluid Level

Fluid level in hydraulic snubber reservoirs shall be sufficient to ensure that the snubber is acceptable for continued service to the next examination interval.

3.4 Review of Operational Readiness Test Data

All inservice test data acquired since implementation of the requirements of this Code Case shall be evaluated for indications of snubber degradation or other anomalies. This includes a review of test traces, where available. The results of this evaluation shall be used

(a) to identify snubbers that are subject to progressive degradation

(b) to identify severe operating environments not previously identified

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Where applicable, data gathered prior to implementation of this Code Case shall also be evaluated.

3.5 Examination During Disassembly

Snubbers and snubber parts shall be examined for indications of degradation and severe operating environments during disassembly (e.g., during failure evaluation, refurbishment).

3.6 Transient Dynamic Event

The service life evaluation required by para. 2.1 of this Code Case shall include any transient dynamic event and actions taken under ISTD 1.13.

3.7 Frequency of Examinations

All snubbers within the scope of ISTD shall be examined and evaluated per ISTD 6.1, ISTD 6.3, and ISTD 6.4 at least once every 10 years.

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ATTACHMENT 4

Snubber Interpretations – Information Only

Interpretation: 04-10

Subject: ASME Code-1998 through OMb Code-2000

Date Issued: December 12, 2005

File: OMI 05-04

Question (1): Reference ISTD-4240 and 4252(d). If a snubber requires further evaluation or is classified as unacceptable during inservice examination and subsequently satisfies the operational readiness test criteria of ISTD-5210, is the snubber required to be classified as unacceptable for the purpose of determining the subsequent visual examination interval in accordance with Table ISTD-4252-1?

Reply (1): No. Per ISTD-4240, test results that satisfy the operational readiness criteria of ISTD-5210 shall be used to accept the snubber, provided the test demonstrates that the unacceptable condition did not affect operational readiness. In such cases, the visual examination requirements of ISTD-4230 are considered to be satisfied.

Question (2): It appears that ISTD-5200 and 5240 are conflicting as to when operational readiness testing can be performed. May inservice operational readiness tests be performed on snubbers at any time during a fuel cycle, normal system operation, or system or plant outages?

Reply (2): No. ISTD-5240 restricts snubber testing from beginning earlier than 60 days before a scheduled refueling outage.

Question (3): It appears that ISTD is silent in relation to subsequent operational readiness testing requirements for a snubber that has failed operational readiness testing and, after corrective action, is installed at a different location than where the failure occurred. Is it a requirement of ISTD-5500 for a snubber that has failed operational readiness testing, then after corrective action and subsequently being installed in a different location, to be retested during the next operational readiness testing campaign?

Reply (3): No.

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