



South Texas Project Electric Generating Station P.O. Box 289 Wadsworth, Texas 77483

September 25, 2000
NOC-AE-00000928
File No.: T1.01, T3.02
10CFR50.55a

U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555

South Texas Project
Units 1 and 2
Docket Nos. STN 50-498 and STN 50-499
Steam Generator Tube Inservice Inspection Plan for the
Second Inspection Interval at STP Units 1 and 2

Attached are four copies of the inservice inspection plan for the steam generator tubes entitled, "Inservice Inspection Program Plan for the Second Interval of the South Texas Project Electric Generating Station, Units 1 and 2 Steam Generator Tubing."

The South Texas Project steam generator tubing inservice inspection during the second interval will be performed in accordance with the requirements of the 1989 Edition of the ASME Section XI Code, "Rules for Inservice Inspection of Nuclear Power Plant Components." Utilization of this edition of Section XI is in compliance with the requirements of 10CFR50.55a, "Codes and Standards." Additional bases for the inservice inspection plan are referenced and discussed within the plan.

If you should have any questions on this matter, please contact Mr. J. L. Haning at (361) 972-8983 or me at (361) 972-7902.

T. J. Jordan
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JLH/jlh *gth*

Attachment: Inservice Inspection Program Plan for the Second Interval of the South Texas Project Electric Generating Station, Units 1 and 2 Steam Generator Tubing

A047

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U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
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* Only one copy of the attachment is provided.

INSERVICE INSPECTION PROGRAM PLAN

FOR THE

SECOND INTERVAL

of the

SOUTH TEXAS PROJECT ELECTRIC

GENERATING STATION, UNITS 1 AND 2,

STEAM GENERATOR TUBING

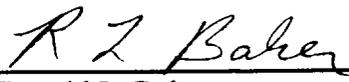
Prepared by:



Jim Haning
Steam Generator ISI Engineer

9-13-00
Date

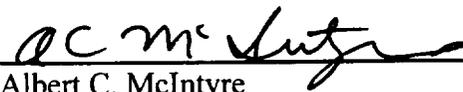
Reviewed by:



Ronald L. Baker
Steam Generator Engineer

9-18-00
Date

Supervisory Review:



Albert C. McIntyre
Director, Engineering Projects

9-18-00
Date

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REVISION SUMMARY SHEET

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SECTION 1.0

INTRODUCTION AND PLAN DESCRIPTION

1.1 Overview

1.1.1 This Inservice Inspection (ISI) Plan outlines the requirements for the examination of steam generator tubing at the South Texas Project Electric Generating Station (STPEGS), Units 1 and 2.

1.1.2 This ISI Plan will be effective from September 25, 2000, through September 24, 2010 for Unit 1, and October 19, 2000, through October 18, 2010 for Unit 2, which represents the second ISI interval for the South Texas Project.

1.1.3 The key features of this plan are as follows:

- Introduction and Plan Description
- ISI Summary
- Alternative Requirements to ASME Section XI including:
 - Code Cases
 - Relief Requests

1.2 Basis of Inservice Inspection Plan

1.2.1 The commercial service dates for STPEGS, Units 1 and 2, were August 25, 1988, and June 19, 1989, respectively.

1.2.2 During their first inservice inspection intervals, STPEGS Units 1 and 2 were out of service continuously for periods of 13 and 16 months, respectively. The end dates of the intervals were extended for equivalent periods. The Unit 1 first interval was also extended an additional one (1) year, so that the STPEGS, Units 1 and 2 second intervals are essentially concurrent. These extensions are permitted by IWA-2400(c) of the American Society of Mechanical Engineers (ASME), Boiler and Pressure Vessel Code, Section XI, "Rules for Inservice Inspection of Nuclear Power Plant Components".

1.2.3 This ISI Plan was developed in accordance with the requirements of the version of 10CFR50.55a that became effective on November 22, 1999.

1.2.4 This ISI Plan was developed in accordance with the 1989 Edition of the ASME Code Section XI, Subsection IWA, Subsection IWB, and Appendix IV "Eddy

Current Examination of Nonferromagnetic Steam Generator Heat Exchanger Tubing". The Plan implements inspection intervals as defined in IWA-2432, "Inspection Program B." During the second interval, the South Texas Project will implement the criteria of the 1989 Edition of Section XI, except as described below.

1.2.4.1 As allowed by ASME Section XI, IWB-2413, the extent, frequency, and acceptance standards for steam generator tubing inspection and testing will be in accordance with the STPEGS Technical Specifications, in particular Section 4.4.5.

1.2.5 Alternative requirements to ASME Section XI are set forth in Section 3.0 of this ISI Plan. The alternative requirements identified in this ISI Plan meet the rules for the use of alternate requirements that are defined in the 1989 Edition of the ASME Code Section XI and 10CFR50.55a, as applicable.

1.3 Augmented Inservice Inspection Requirements

Augmented inservice inspection requirements are those examinations that are specified by documents other than the ASME Section XI Code. Typically, these augmented examinations are at the request of the Nuclear Regulatory Commission through such mechanisms as Bulletins, Notices and Regulatory Guides. The augmented examinations addressed by the South Texas Project ISI Program during the second inspection interval are as follows:

1.3.1 The steam generator tube inspection program meets positions C.1 and C.2 of U. S. Nuclear Regulatory Commission Regulatory Guide 1.83 "Inservice Inspection of Pressurized Water Reactor Steam Generator Tubes" Revision 1. The STPEGS Technical Specifications address the scopes of positions C.3 through C.8 of this guide. This partial exception to the guide is taken as defined in Table 3.12-1 "Regulatory Guide MATRIX" of the STPEGS Updated Final Safety Analysis Report.

SECTION 2.0

INSERVICE INSPECTION SUMMARY

2.1 Summary

Steam generator tube examination requirements are defined by Section XI Examination Category B-Q Item No. B16.20 listed in Table IWB-2500-1. Examination Category B-Q requires examination by the volumetric examination method. The extents, frequency, acceptance standards of examination are governed by the STPEGS Technical Specifications.

SECTION 3.0

ALTERNATIVE REQUIREMENTS TO ASME SECTION XI CODE

This section lists the alternative requirements to the 1989 Edition of the ASME Section XI Code, being adopted for the second ISI interval at STPEGS, Units 1 and 2. The alternative requirements identified in this ISI Plan meet the rules for the use of alternate requirements that are defined in the 1989 Edition of the ASME Code Section XI and 10CFR50.55a, as applicable.

3.1 Adoption of Code Cases

This section addresses the adoption of Code Cases during the Second Inservice Inspection Interval at STPEGS, Units 1 and 2. Code Cases adopted for Inservice Inspection use during the Second Interval are listed in Tables 3.1.1 and 3.1.2 of this ISI Plan. In all cases, the use and adoption of Code Cases will be in accordance with ASME Section XI, IWA-2440 and 10CFR50.55a. Code Cases that have already been incorporated into 1989 Edition of ASME Section XI, will be implemented via application of the Code. The methodology for adopting Code Cases is divided into the four categories clarified below.

3.1.1 Adoption of Code Cases Listed for Generic Use in Regulatory Guide 1.147

Code Cases that are listed for generic use in Regulatory Guide 1.147, Revision 12, will be adopted for use during the Second Inservice Inspection Interval by listing them in Table 3.1.1 of this Inservice Inspection Plan. All conditions or limitations delineated in Regulatory Guide 1.147 for a particular Code Case will apply.

3.1.2 Adoption of Code Cases Not Listed for Generic Use in Regulatory Guide 1.147 via Submittal of Relief Requests

Adoption of Code Cases that have been approved by the Board of Nuclear Codes and Standards, but that have not been listed for generic use in Regulatory Guide 1.147, 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 the South Texas Project.

Table 3.1.2 lists those Code Cases that are not listed for generic use in Regulatory Guide 1.147 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. The South Texas Project will implement these additional requirements as applicable.

**Table 3.1.1
 Adopted Code Cases Approved in Regulatory Guide 1.147**

| Code Case Number | Code Case Title | Affected Program Area |
|------------------|---|------------------------------|
| N-489 | Alternative Rules for Level III NDE Qualification Examinations | NDE Personnel Qualifications |
| N-490-1 | Alternative Vision Test Requirements for Nondestructive Examiners | NDE Personnel Qualifications |
| N-503 | Limited Certification of Nondestructive Examination Personnel | NDE Personnel Qualifications |

**Table 3.1.2
 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 | None | None | None |

3.1.3 Adoption of Code Cases Listed for Generic Use in Regulatory Guide 1.147 But Subsequently Annulled by ASME Section XI

Under certain circumstances, it may be necessary to adopt a Code Case that has been listed for generic use in Regulatory Guide 1.147, but subsequently annulled by ASME Section XI. Therefore, the South Texas Project endorses all revisions of Regulatory Guide 1.147 from Revision 12 up to and including the most recent revision. Endorsement of these revisions of Regulatory Guide 1.147 does not commit the South Texas Project to all Code Cases listed therein, but rather allows for selection of a previously accepted Code Case. The purpose of this endorsement is to identify all Code Cases that could potentially be incorporated into this Inservice Inspection Plan in accordance with IWA-2441.

3.1.4 Adoption of Code Cases Issued Subsequent to the Filing of this Inservice Inspection Plan

Code Cases issued by ASME Section XI subsequent to the filing of this Inservice Inspection Plan will be proposed for use in amendments to this Plan in accordance with ASME Section XI, IWA-2441 (d).

3.2 Use of Subsequent Editions of ASME Section XI

In accordance with 10CFR50.55a(g)(4)(iv), inservice examination of components and system pressure tests may meet the requirements set forth in subsequent editions of the Code and addenda which are incorporated by reference in 10CFR50.55a(b), subject to the limitations and modifications listed therein and subject to NRC approval. This Section of the Inservice Inspection Plan provides for the documentation of alternative requirements from approved subsequent Code editions that may be adopted during the Second Inservice Inspection Interval. Should the South Texas Project elect to adopt a subsequent edition and addenda of Section XI code approved by NRC in 10CFR50.55a(b), NRC approval will be requested in accordance with 10CFR50.55a(g)(4)(iv). Once NRC approval is obtained, the Inservice Inspection Plan will be amended for adoption of the subsequent Code rules and the revised portions submitted to NRC and the State of Texas for their information.

3.3 Inservice Inspection Relief Requests

Table 3.3 provides a listing of additional Relief Requests, not associated with a Code Case, that have been written in accordance with 10CFR50.55a(g)(5) when specific ASME Section XI requirements for inservice inspection are considered impractical. If examination requirements are determined to be impractical during the course of the interval, relief requests shall be submitted in accordance with 10CFR50.55a(g)(5).

**Table 3.3
 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 | None | None |

INSERVICE INSPECTION PROGRAM PLAN

FOR THE

SECOND INTERVAL

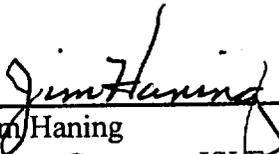
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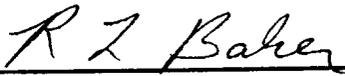
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Jim Haning
Steam Generator ISI Engineer

9-13-00
Date

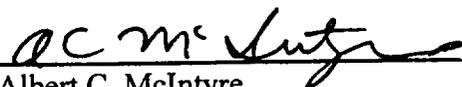
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Supervisory Review:



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Director, Engineering Projects

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SECTION 1.0

INTRODUCTION AND PLAN DESCRIPTION

1.1 Overview

1.1.1 This Inservice Inspection (ISI) Plan outlines the requirements for the examination of steam generator tubing at the South Texas Project Electric Generating Station (STPEGS), Units 1 and 2.

1.1.2 This ISI Plan will be effective from September 25, 2000, through September 24, 2010 for Unit 1, and October 19, 2000, through October 18, 2010 for Unit 2, which represents the second ISI interval for the South Texas Project.

1.1.3 The key features of this plan are as follows:

- Introduction and Plan Description
- ISI Summary
- Alternative Requirements to ASME Section XI including:
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 - Relief Requests

1.2 Basis of Inservice Inspection Plan

1.2.1 The commercial service dates for STPEGS, Units 1 and 2, were August 25, 1988, and June 19, 1989, respectively.

1.2.2 During their first inservice inspection intervals, STPEGS Units 1 and 2 were out of service continuously for periods of 13 and 16 months, respectively. The end dates of the intervals were extended for equivalent periods. The Unit 1 first interval was also extended an additional one (1) year, so that the STPEGS, Units 1 and 2 second intervals are essentially concurrent. These extensions are permitted by IWA-2400(c) of the American Society of Mechanical Engineers (ASME), Boiler and Pressure Vessel Code, Section XI, "Rules for Inservice Inspection of Nuclear Power Plant Components".

1.2.3 This ISI Plan was developed in accordance with the requirements of the version of 10CFR50.55a that became effective on November 22, 1999.

1.2.4 This ISI Plan was developed in accordance with the 1989 Edition of the ASME Code Section XI, Subsection IWA, Subsection IWB, and Appendix IV "Eddy

Current Examination of Nonferromagnetic Steam Generator Heat Exchanger Tubing". The Plan implements inspection intervals as defined in IWA-2432, "Inspection Program B." During the second interval, the South Texas Project will implement the criteria of the 1989 Edition of Section XI, except as described below.

1.2.4.1 As allowed by ASME Section XI, IWB-2413, the extent, frequency, and acceptance standards for steam generator tubing inspection and testing will be in accordance with the STPEGS Technical Specifications, in particular Section 4.4.5.

1.2.5 Alternative requirements to ASME Section XI are set forth in Section 3.0 of this ISI Plan. The alternative requirements identified in this ISI Plan meet the rules for the use of alternate requirements that are defined in the 1989 Edition of the ASME Code Section XI and 10CFR50.55a, as applicable.

1.3 Augmented Inservice Inspection Requirements

Augmented inservice inspection requirements are those examinations that are specified by documents other than the ASME Section XI Code. Typically, these augmented examinations are at the request of the Nuclear Regulatory Commission through such mechanisms as Bulletins, Notices and Regulatory Guides. The augmented examinations addressed by the South Texas Project ISI Program during the second inspection interval are as follows:

1.3.1 The steam generator tube inspection program meets positions C.1 and C.2 of U. S. Nuclear Regulatory Commission Regulatory Guide 1.83 "Inservice Inspection of Pressurized Water Reactor Steam Generator Tubes" Revision 1. The STPEGS Technical Specifications address the scopes of positions C.3 through C.8 of this guide. This partial exception to the guide is taken as defined in Table 3.12-1 "Regulatory Guide MATRIX" of the STPEGS Updated Final Safety Analysis Report.

SECTION 2.0

INSERVICE INSPECTION SUMMARY

2.1 Summary

Steam generator tube examination requirements are defined by Section XI Examination Category B-Q Item No. B16.20 listed in Table IWB-2500-1. Examination Category B-Q requires examination by the volumetric examination method. The extents, frequency, acceptance standards of examination are governed by the STPEGS Technical Specifications.

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ALTERNATIVE REQUIREMENTS TO ASME SECTION XI CODE

This section lists the alternative requirements to the 1989 Edition of the ASME Section XI Code, being adopted for the second ISI interval at STPEGS, Units 1 and 2. The alternative requirements identified in this ISI Plan meet the rules for the use of alternate requirements that are defined in the 1989 Edition of the ASME Code Section XI and 10CFR50.55a, as applicable.

3.1 Adoption of Code Cases

This section addresses the adoption of Code Cases during the Second Inservice Inspection Interval at STPEGS, Units 1 and 2. Code Cases adopted for Inservice Inspection use during the Second Interval are listed in Tables 3.1.1 and 3.1.2 of this ISI Plan. In all cases, the use and adoption of Code Cases will be in accordance with ASME Section XI, IWA-2440 and 10CFR50.55a. Code Cases that have already been incorporated into 1989 Edition of ASME Section XI, will be implemented via application of the Code. The methodology for adopting Code Cases is divided into the four categories clarified below.

3.1.1 Adoption of Code Cases Listed for Generic Use in Regulatory Guide 1.147

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3.1.2 Adoption of Code Cases Not Listed for Generic Use in Regulatory Guide 1.147 via Submittal of Relief Requests

Adoption of Code Cases that have been approved by the Board of Nuclear Codes and Standards, but that have not been listed for generic use in Regulatory Guide 1.147, 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 the South Texas Project.

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Table 3.1.1
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| Code Case Number | Code Case Title | (1) Relief Request No. (2) Correspondence No. (3) Relief Request Date | Affected Program Area |
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3.1.3 Adoption of Code Cases Listed for Generic Use in Regulatory Guide 1.147 But Subsequently Annulled by ASME Section XI

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3.1.4 Adoption of Code Cases Issued Subsequent to the Filing of this Inservice Inspection Plan

Code Cases issued by ASME Section XI subsequent to the filing of this Inservice Inspection Plan will be proposed for use in amendments to this Plan in accordance with ASME Section XI, IWA-2441 (d).

3.2 Use of Subsequent Editions of ASME Section XI

In accordance with 10CFR50.55a(g)(4)(iv), inservice examination of components and system pressure tests may meet the requirements set forth in subsequent editions of the Code and addenda which are incorporated by reference in 10CFR50.55a(b), subject to the limitations and modifications listed therein and subject to NRC approval. This Section of the Inservice Inspection Plan provides for the documentation of alternative requirements from approved subsequent Code editions that may be adopted during the Second Inservice Inspection Interval. Should the South Texas Project elect to adopt a subsequent edition and addenda of Section XI code approved by NRC in 10CFR50.55a(b), NRC approval will be requested in accordance with 10CFR50.55a(g)(4)(iv). Once NRC approval is obtained, the Inservice Inspection Plan will be amended for adoption of the subsequent Code rules and the revised portions submitted to NRC and the State of Texas for their information.

3.3 Inservice Inspection Relief Requests

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**Table 3.3
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INSERVICE INSPECTION PROGRAM PLAN

FOR THE

SECOND INTERVAL

of the

SOUTH TEXAS PROJECT ELECTRIC

GENERATING STATION, UNITS 1 AND 2,

STEAM GENERATOR TUBING

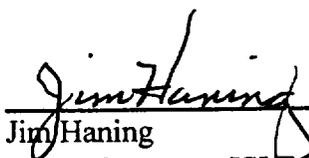
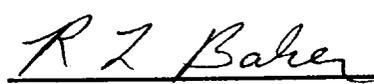
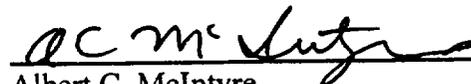
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|---------------------|---|------------------------|
| Prepared by: |  _____ Jim Haning Steam Generator ISI Engineer | <u>9-13-00</u> Date |
| Reviewed by: |  _____ Ronald L. Baker Steam Generator Engineer | <u>9-18-00</u> Date |
| Supervisory Review: |  _____ Albert C. McIntyre Director, Engineering Projects | <u>9-18-00</u> Date |

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SECTION 1.0

INTRODUCTION AND PLAN DESCRIPTION

1.1 Overview

1.1.1 This Inservice Inspection (ISI) Plan outlines the requirements for the examination of steam generator tubing at the South Texas Project Electric Generating Station (STPEGS), Units 1 and 2.

1.1.2 This ISI Plan will be effective from September 25, 2000, through September 24, 2010 for Unit 1, and October 19, 2000, through October 18, 2010 for Unit 2, which represents the second ISI interval for the South Texas Project.

1.1.3 The key features of this plan are as follows:

- Introduction and Plan Description
- ISI Summary
- Alternative Requirements to ASME Section XI including:
 - Code Cases
 - Relief Requests

1.2 Basis of Inservice Inspection Plan

1.2.1 The commercial service dates for STPEGS, Units 1 and 2, were August 25, 1988, and June 19, 1989, respectively.

1.2.2 During their first inservice inspection intervals, STPEGS Units 1 and 2 were out of service continuously for periods of 13 and 16 months, respectively. The end dates of the intervals were extended for equivalent periods. The Unit 1 first interval was also extended an additional one (1) year, so that the STPEGS, Units 1 and 2 second intervals are essentially concurrent. These extensions are permitted by IWA-2400(c) of the American Society of Mechanical Engineers (ASME), Boiler and Pressure Vessel Code, Section XI, "Rules for Inservice Inspection of Nuclear Power Plant Components".

1.2.3 This ISI Plan was developed in accordance with the requirements of the version of 10CFR50.55a that became effective on November 22, 1999.

1.2.4 This ISI Plan was developed in accordance with the 1989 Edition of the ASME Code Section XI, Subsection IWA, Subsection IWB, and Appendix IV "Eddy

Current Examination of Nonferromagnetic Steam Generator Heat Exchanger Tubing". The Plan implements inspection intervals as defined in IWA-2432, "Inspection Program B." During the second interval, the South Texas Project will implement the criteria of the 1989 Edition of Section XI, except as described below.

1.2.4.1 As allowed by ASME Section XI, IWB-2413, the extent, frequency, and acceptance standards for steam generator tubing inspection and testing will be in accordance with the STPEGS Technical Specifications, in particular Section 4.4.5.

1.2.5 Alternative requirements to ASME Section XI are set forth in Section 3.0 of this ISI Plan. The alternative requirements identified in this ISI Plan meet the rules for the use of alternate requirements that are defined in the 1989 Edition of the ASME Code Section XI and 10CFR50.55a, as applicable.

1.3 Augmented Inservice Inspection Requirements

Augmented inservice inspection requirements are those examinations that are specified by documents other than the ASME Section XI Code. Typically, these augmented examinations are at the request of the Nuclear Regulatory Commission through such mechanisms as Bulletins, Notices and Regulatory Guides. The augmented examinations addressed by the South Texas Project ISI Program during the second inspection interval are as follows:

1.3.1 The steam generator tube inspection program meets positions C.1 and C.2 of U. S. Nuclear Regulatory Commission Regulatory Guide 1.83 "Inservice Inspection of Pressurized Water Reactor Steam Generator Tubes" Revision 1. The STPEGS Technical Specifications address the scopes of positions C.3 through C.8 of this guide. This partial exception to the guide is taken as defined in Table 3.12-1 "Regulatory Guide MATRIX" of the STPEGS Updated Final Safety Analysis Report.

SECTION 2.0

INSERVICE INSPECTION SUMMARY

2.1 Summary

Steam generator tube examination requirements are defined by Section XI Examination Category B-Q Item No. B16.20 listed in Table IWB-2500-1. Examination Category B-Q requires examination by the volumetric examination method. The extents, frequency, acceptance standards of examination are governed by the STPEGS Technical Specifications.

SECTION 3.0

ALTERNATIVE REQUIREMENTS TO ASME SECTION XI CODE

This section lists the alternative requirements to the 1989 Edition of the ASME Section XI Code, being adopted for the second ISI interval at STPEGS, Units 1 and 2. The alternative requirements identified in this ISI Plan meet the rules for the use of alternate requirements that are defined in the 1989 Edition of the ASME Code Section XI and 10CFR50.55a, as applicable.

3.1 Adoption of Code Cases

This section addresses the adoption of Code Cases during the Second Inservice Inspection Interval at STPEGS, Units 1 and 2. Code Cases adopted for Inservice Inspection use during the Second Interval are listed in Tables 3.1.1 and 3.1.2 of this ISI Plan. In all cases, the use and adoption of Code Cases will be in accordance with ASME Section XI, IWA-2440 and 10CFR50.55a. Code Cases that have already been incorporated into 1989 Edition of ASME Section XI, will be implemented via application of the Code. The methodology for adopting Code Cases is divided into the four categories clarified below.

3.1.1 Adoption of Code Cases Listed for Generic Use in Regulatory Guide 1.147

Code Cases that are listed for generic use in Regulatory Guide 1.147, Revision 12, will be adopted for use during the Second Inservice Inspection Interval by listing them in Table 3.1.1 of this Inservice Inspection Plan. All conditions or limitations delineated in Regulatory Guide 1.147 for a particular Code Case will apply.

3.1.2 Adoption of Code Cases Not Listed for Generic Use in Regulatory Guide 1.147 via Submittal of Relief Requests

Adoption of Code Cases that have been approved by the Board of Nuclear Codes and Standards, but that have not been listed for generic use in Regulatory Guide 1.147, 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 the South Texas Project.

Table 3.1.2 lists those Code Cases that are not listed for generic use in Regulatory Guide 1.147 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. The South Texas Project will implement these additional requirements as applicable.

**Table 3.1.1
Adopted Code Cases Approved in Regulatory Guide 1.147**

| Code Case Number | Code Case Title | Affected Program Area |
|------------------|---|------------------------------|
| N-489 | Alternative Rules for Level III NDE Qualification Examinations | NDE Personnel Qualifications |
| N-490-1 | Alternative Vision Test Requirements for Nondestructive Examiners | NDE Personnel Qualifications |
| N-503 | Limited Certification of Nondestructive Examination Personnel | NDE Personnel Qualifications |

**Table 3.1.2
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 | None | None | None |

3.1.3 Adoption of Code Cases Listed for Generic Use in Regulatory Guide 1.147 But Subsequently Annulled by ASME Section XI

Under certain circumstances, it may be necessary to adopt a Code Case that has been listed for generic use in Regulatory Guide 1.147, but subsequently annulled by ASME Section XI. Therefore, the South Texas Project endorses all revisions of Regulatory Guide 1.147 from Revision 12 up to and including the most recent revision. Endorsement of these revisions of Regulatory Guide 1.147 does not commit the South Texas Project to all Code Cases listed therein, but rather allows for selection of a previously accepted Code Case. The purpose of this endorsement is to identify all Code Cases that could potentially be incorporated into this Inservice Inspection Plan in accordance with IWA-2441.

3.1.4 Adoption of Code Cases Issued Subsequent to the Filing of this Inservice Inspection Plan

Code Cases issued by ASME Section XI subsequent to the filing of this Inservice Inspection Plan will be proposed for use in amendments to this Plan in accordance with ASME Section XI, IWA-2441 (d).

3.2 Use of Subsequent Editions of ASME Section XI

In accordance with 10CFR50.55a(g)(4)(iv), inservice examination of components and system pressure tests may meet the requirements set forth in subsequent editions of the Code and addenda which are incorporated by reference in 10CFR50.55a(b), subject to the limitations and modifications listed therein and subject to NRC approval. This Section of the Inservice Inspection Plan provides for the documentation of alternative requirements from approved subsequent Code editions that may be adopted during the Second Inservice Inspection Interval. Should the South Texas Project elect to adopt a subsequent edition and addenda of Section XI code approved by NRC in 10CFR50.55a(b), NRC approval will be requested in accordance with 10CFR50.55a(g)(4)(iv). Once NRC approval is obtained, the Inservice Inspection Plan will be amended for adoption of the subsequent Code rules and the revised portions submitted to NRC and the State of Texas for their information.

3.3 Inservice Inspection Relief Requests

Table 3.3 provides a listing of additional Relief Requests, not associated with a Code Case, that have been written in accordance with 10CFR50.55a(g)(5) when specific ASME Section XI requirements for inservice inspection are considered impractical. If examination requirements are determined to be impractical during the course of the interval, relief requests shall be submitted in accordance with 10CFR50.55a(g)(5).

**Table 3.3
 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 | None | None |

INSERVICE INSPECTION PROGRAM PLAN

FOR THE

SECOND INTERVAL

of the

SOUTH TEXAS PROJECT ELECTRIC

GENERATING STATION, UNITS 1 AND 2,

STEAM GENERATOR TUBING

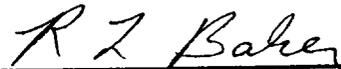
Prepared by:



Jim Haning
Steam Generator ISI Engineer

9-13-00
Date

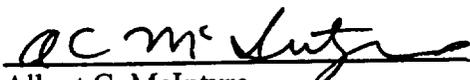
Reviewed by:



Ronald L. Baker
Steam Generator Engineer

9-18-00
Date

Supervisory Review:



Albert C. McIntyre
Director, Engineering Projects

9-18-00
Date

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REVISION SUMMARY SHEET

| SECTION | EFFECTIVE PAGE(S) | REVISION | DATE |
|---------|-------------------|----------|---------|
| 1.0 | 1-1 | 0 | 9/25/00 |
| 1.1 | 1-1 | 0 | 9/25/00 |
| 1.2 | 1-1 to 1-2 | 0 | 9/25/00 |
| 1.3 | 1-2 | 0 | 9/25/00 |
| 2.0 | 2-1 | 0 | 9/25/00 |
| 2.1 | 2-1 | 0 | 9/25/00 |
| 3.0 | 3-1 | 0 | 9/25/00 |
| 3.1 | 3-1 to 3-3 | 0 | 9/25/00 |
| 3.2 | 3-3 | 0 | 9/25/00 |
| 3.3 | 3-3 | 0 | 9/25/00 |

SECTION 1.0

INTRODUCTION AND PLAN DESCRIPTION

1.1 Overview

- 1.1.1 This Inservice Inspection (ISI) Plan outlines the requirements for the examination of steam generator tubing at the South Texas Project Electric Generating Station (STPEGS), Units 1 and 2.
- 1.1.2 This ISI Plan will be effective from September 25, 2000, through September 24, 2010 for Unit 1, and October 19, 2000, through October 18, 2010 for Unit 2, which represents the second ISI interval for the South Texas Project.
- 1.1.3 The key features of this plan are as follows:
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