EPRI | ELECTRIC POWER RESEARCH INSTITUTE

ASME Section XI Development

PDI/NRC Meeting 12/5/07

Mike Gothard
Senior Project Manager

Current Activities

ASME

Codes & Standards — Project Mgr Records

LOGOUT | PUBLICATIONS | C&S CONNECT | COMMITTEE CENTRAL | MEETINGS | STAFF | SEARCH

My Committee Page | Search | VCC | AS-11 | Reports | News

My Profile | Ballots | W/D Negatives | Project Mgr Records | Custom Tracking | Help

Hide Selected Records Show: ○ Visible Records ○ Hidden Records ◉ All Records

Hide	Record#	Primary Committee	Item Level	Subject		
☐	07-1853	BPV SC-XI	SC Proposal	Section XI - Code Case providing for alternative examination techniques with provisional limitations for the examination volume of Pressure Vessels under I-2120	Update	
☐	07-1162	BPV SC-XI	SC Proposal	Section XI - Code Case N-613-2	Update	
☐	07-569	BPV SC-XI	Board Approved	Section XI - Appendix VIII, VIII-4110(d) and Intent Interpretation IN07-02	Update	Post Response
☐	06-1627	BPV SC-XI	Board Approved	Section XI - Figures IWC-2500-3(b) and IWC-2500-4(a)	Update	Post Response
☐	06-669	BPV SC-XI	Board Approved	Section XI - Appendix VIII, Supplement 7, Qualification Requirements for Nozzle Examination from the Inside Surface.	Update	Post Response
☐	05-1542	BPV SC-XI	Board Approved	Appendix I, I-2400 qualification requirements for ultrasonic examination of threads in Flange (Item No. B6.40)	Update	Post Response
☐	05-1176	BPV SC-XI	Stds Comm Proposal	Section XI - NDE Coverage Calculations	Update	Post Response
☐	05-1175	BPV SC-XI	Board Approved	Section XI, Appendix VIII qualification requirements for detection and sizing of axial flaws in selected piping components.	Update	Post Response
☐	05-1174	BPV SC-XI	Board Approved	Section XI, Appendix I, Supplement 9	Update	Post Response
☐	05-647	BPV SC-XI	Board Approved	Section Xi - Appendix VIII, Supplement 13	Update	Post Response
☐	05-646	BPV SC-XI	Board Approved	Section XI - Appendix VIII, Supplement 12	Update	Post Response
☐	05-645	BPV SC-XI	Board Approved	Section XI - Appendix VIII, Supplement 8, Bolting	Update	Post Response
☐	05-147	BPV SC-XI	Board Approved	Section XI - Figures IWB-2500-7(a),(b),(c) and (d)	Update	Post Response
☐	05-44	BPV SC-XI	Board Approved	Section XI - Revisions to APPENDIX VIII - SUPPLEMENT 4 and 6	Update	Post Response
☐	04-1569	BPV SC-XI	Board Approved	IWA-2231, Radiography using phosphor imaging plates	Update	Post Response
☐	04-1561	BPV SC-XI	Board Approved	Appendix I - Ultrasonic Examinations	Update	Post Response
☐	04-1560	BPV SC-XI	Board Approved	Appendix VIII, Supplements 5 and 7, - Qualification Requirements for Nozzle Examinations from the Outside and Insides Surfaces	Update	Post Response
☐	04-1094	BPV SC-XI	Board Approved	Appendix VIII, Supplement 11 – Qualification Requirements For Full Structural Overlaid Wought Austenitic Piping Welds.	Update	Post Response
☐	04-1093	BPV SC-XI	Board Approved	Section XI - Figure IWB-2500-8c	Update	Post Response

© 2007 Electric Power Research Institute, Inc. All rights reserved.

EPRI ELECTRIC POWER RESEARCH INSTITUTE

Proposed Activities

- WG ISIO
  - Revise Figure IWC-2500-11
  - Reduce Non-RPV exam volume to inner 1/3t
  - Eliminate threads in flange examination
  - Clarify requirements for non-standard NICR
  - Reduce RPV exam volume to ½”
- TG App. VIII
  - Prepare Supplement defining PDA duties/responsibilities
  - Revise Supplement 1 to address phased array/new technology
  - Revise Supplement 11
- WG VE
  - Address unclad components in Appendix I-3000
  - Incorporate N-639 into Appendix I, Supplement 1
  - Define Significant digits applicability

© 2007 Electric Power Research Institute, Inc. All rights reserved.

Ligament Measurement Accuracy - CC N-526

- Data from Successful Supplement 6 Qualifications
  - 60 Points
  - Mean Absolute Error = 0.128 inches
  - RMS Error = 0.162 inches
  - Approximately 10% of readings exceeded 0.25 inches with greatest error 0.45 inches
  - Elimination reduced RMS to 0.122 inches

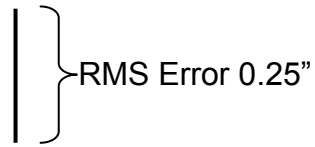
$$\text{RMS} = \left[\frac{\sum_{i=1}^{n}(m_i - t_i)^2}{n}\right]^{1/2}$$

where

m_i = measured flaw size

t_i = true flaw size

n = number of flaws measured



© 2007 Electric Power Research Institute, Inc. All rights reserved.

ELECTRIC POWER RESEARCH INSTITUTE