



STATE OF TENNESSEE
DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
BOARD OF BOILER RULES
220 FRENCH LANDING DRIVE
NASHVILLE, TENNESSEE 37243
(615) 741-2123

MINUTES

**SPECIAL CALLED MEETING OF THE STATE OF TENNESSEE
BOARD OF BOILER RULES, 10:00 A.M. (CST), JULY 15, 2010
TOSHA HEARING ROOM - FIRST FLOOR
220 FRENCH LANDING DRIVE
NASHVILLE, TENNESSEE**

- I. CALL TO ORDER - (14) - Acting Chairman, Brian Morelock, called the meeting to order at 10:00 a.m. (CST).
- II. INTRODUCTIONS AND ANNOUNCEMENTS - (19) - Board members present: Brian Morelock; Dr. Domenic Canonico; Eugene Robinson; and Dr. Glen Johnson. Department of Labor & Workforce Development employees in attendance: Arthur Franklin; Gary Cookston; Sydné Ewell; Sam Chapman; Carlene T. Bennett; and Deborah Rhone. Guests present: Glenn Condon; Mark Tate; and Keith Butler.

(35) - Assistant Administrator Cookston announced that in the event of a natural disaster or emergency, building security personnel would direct attendees to a safe place inside the building or ask them to evacuate to the parking lot toward the Rosa Parks side of the building.
- III. CONFLICT OF INTEREST STATEMENT - (49) Conflict of interest statements were completed by Board members in attendance. Chairman Morelock asked Board members to verbally disclose conflict of interest with the agenda item. No Board member expressed a conflict.
- IV. ADOPTION OF THE AGENDA - (42) - Dr. Johnson made a motion to adopt the agenda. Dr. Canonico seconded the motion. The vote was taken and the motion carried.
- V. OLD BUSINESS

10-06 - (52) - Review a request from Woodbridge Foam Fabricating, Inc. (WFF), 1120 Judd Road, Chattanooga, Tennessee, designating their ATL foam reticulation machine as a Tennessee Special pressure vessel.

- Glenn Condon, Mark Tate and Keith Butler presented this item to the Board. WFF employed JEI Engineering, Inc. to perform calculations in accordance with ASME Section VIII, Div. I, Appendix 13; calculations for seismic and other external loading; and cross reference between the materials that were used using the Mill Test Report (MTR) for the mechanical and chemical properties, with SA-537 being the material it would meet. An internet search was performed for comparable materials that met the SA-355 material and a cross reference was found to SA-537. The material is slightly stronger than the allowable for SA-537. Industrial Boiler & Mechanical Company, Inc. performed a pressure test in accordance with ASME and also a wet florescent magnetic particle test of the interior of the vessel to make sure there weren't any problems with the welding. Two defects were identified, removed and repaired in the proper manner. Mr. Butler stated that he could find nothing wrong with the vessel. He said he had some experience with European Pressure Equipment Directive (PED) vessels and in his opinion the standard is more stringent than those of ASME in regard to qualified welding procedures, welder qualifications, material certification, and in process inspection. He referenced an email from Sandy Babka, P.E., Design Manager, The Hartford Steam Boiler Inspection and Insurance Company of Connecticut (HSB-CT) Codes & Standards who wrote that typically the PED standard will meet or exceed ASME standard.
- Eugene Robinson asked if the vessel is a CE marked vessel. Mr. Butler replied "yes" and directed him to a photo of the nameplate in the manual and to page sixty-one (61) which shows the location of the nameplate and the inscription on it. Mr. Robinson confirmed that a hydrostatic test was performed on June 25, 2010 and a weld repair was done afterward. Mr. Butler said a wet magnetic particle test was performed after the repair in lieu of a hydrostatic test with the authorization of (Interim) Assistant Chief Sam Chapman.
- Mr. Cookston said (Interim) Chief Eslye Rogers had been out of the office on sick leave but that he had reviewed WFF's manual submission and sees nothing wrong with the calculations; the manual is acceptable to him.
- Mr. Morelock said that when he received the calculation package he compared them to the ones he had done immediately after the June 2nd meeting using the same identical software with the difference being that he used SA-516-70 because that was what was discussed at the June 2nd meeting and the calculations were identical. He felt that the company had clearly shown that this is a safe vessel. The calculations show that from a design standpoint the vessel does meet

ASME Section VIII, Division 1 requirements. He said if this vessel is made a Tennessee Special all repairs must be submitted to the Chief Boiler Inspector for approval and any alterations would have to come back before the Board for approval. He expressed his appreciation to the company for their diligence in this matter and timeliness in getting the additional information back before the Board.

- Dr. Canonico asked (Interim) Assistant Chief Sam Chapman if he witnessed the vessel repair. He stated that he did not; the company called and notified him of the repair. Dr. Canonico wanted to know whether all the welding was done in accordance with the correct procedures and if the welders were qualified. Mr. Chapman said the company used an Authorized Inspector (AI). Mr. Butler said the AI had not approved the package, he only signed off on a hydro test report. Mr. Butler said the company is waiting on the Board's decision before processing the repair.
- Dr. Canonico asked the source of the Chemical Composition of Heat Table on page thirty-three (33), the heat numbers do not appear to correlate with any in the Mill Test Report (MTR). Mr. Butler said there were two (2) separate MTR's from Germany for two (2) separate materials: one (1) for S355J2+N and one for S355J2G3.

Dr. Johnson made a motion to accept Woodbridge Foam Fabricating, Inc. (WFF) ATL foam reticulation machine be accepted as a Tennessee Special pressure vessel. Eugene Robinson seconded the motion. The vote was taken and carried with Dr. Canonico abstaining.

VI. (197) - The next Board of Boiler Rules Meeting is scheduled for 9:00 a.m. (CST), Wednesday, September 15, 2010 at the Department of Labor & Workforce Development office Building located at 220 French Landing Drive, Nashville, Tennessee.

VII. ADJOURNMENT - (199) - The meeting adjourned at 10:33 a.m. (CST).