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Government of India
Ministry of Commerce and Industry
(Department of Industrial Policy and Promotion)
Central Boilers Board

New Delhi, the 19th January, 2005.

Notification

G.S.R. 32.- Whereas certain draft regulations further to amend the Indian Boiler Regulations, 1950 were published, as required by sub-section (1) of section 31 of the Indian Boilers Act, 1923 (5 of 1923), in Part II, Section 3, Sub-section (i) of the Gazette of India, dated the 18th September, 2004 vide notification of the Government of India in the Ministry of Commerce and Industry (Department of Industrial Policy and Promotion) (Central Boilers Board) number G.S.R. 312, dated the 8th September, 2004, for inviting objections and suggestions from all persons likely to be affected thereby till the expiry of the period of forty-five days from the date on which the copies of the Gazette containing the said notification were made available to the public;

And whereas, the copies of the said Gazette were made available to the public on the 27th September, 2004;

And whereas, no objections or suggestions have been received within the specified period in respect of the amendments contained in this notification;

Now, therefore, in exercise of the powers conferred by section 28 of the Indian Boilers Act, 1923, the Central Boilers Board hereby makes the following regulations further to amend the Indian Boiler Regulations, 1950, namely:-

1. (1) These regulations may be called the Indian Boiler (Amendment) Regulations, 2005.

(2) They shall come into force on the date of their publication in the Official Gazette.

2 In the Indian Boiler Regulations, 1950 (hereinafter referred to as the said regulations), in regulation 57, for clause (b), the following clause shall be substituted, namely:-

"(b) The welded tubes conforming to other national or international standard which are known to be commonly used as being suitable for use as boiler, superheater or heat exchanger tubes and not specifically prohibited by these regulations can also be used provided such tubes satisfy the requirements of these regulations and are certified as per these regulations:

Provided that if the tubes are not hydraulically tested at the pressure required under this regulations, the Inspecting Authority may accept such tubes after witnessing hydraulic test at the required pressure at the maker's or fabricator's works or user's premises.";

3. In the said regulations, in regulation 151, in clause (i), in the opening paragraph, for the words “All butt welded joints”, the words “ Butt welded joints as indicated in clause (h)” shall be substituted.

4. In the said regulations, in regulation 266, for clause (g), the following clause shall be substituted, namely:

"(g) Radiographical Examination after Repairs - All repaired areas shall be subjected to radiographic or radioscopic examination by the approved techniques.";

5. In the said regulations, in regulation 365 in clause (b), in sub-clause (2), after item (ii), the following shall be inserted, namely:

“(iii) In the construction of unfired boilers when the dished ends do not form of the heating surface, cold spun dished ends conforming to IS:2825 may be used."

6. In the said regulations, in regulation 382, in clause (a), after the words "Tripura .....……..... TR”, the words "Uttaranchal ..... UR" shall be inserted.

7. In the said regulations, in regulation 391A, in clause (b), in sub-clause (ii), for the words, "Technical Adviser (Boilers)", the words, "Chief Inspector of Boilers" shall be substituted.

8. In the said regulations, in regulation 561, in clause (b), in sub-clause (viii), after Note (2), the following shall be inserted, namely:-

"(3) All butt welded joints shall be subjected to non-destructive examination by radiographic, radioscopy or other approved methods such as ultrasonic testing, magnetic particle inspection or liquid dye penetrant inspection. When radioscopic examination is to be performed in lieu of radiography on welded components, the following requirements shall be met, namely:-

(a) A written procedure shall be submitted for approval to the Inspecting Authority which shall contain the following:
    (i) material and the thickness range;
    (ii) equipment qualifications;
    (iii) test object scan plan;
    (iv) radioscopic parameters;
    (v) image processing parameters;
    (vi) image display parameters;
    (vii) image archiving requirements;
    (viii) accept-reject criteria (Code reference);

(ix) performance evaluation;
(x) Operator identification.

(b) The system shall be aided with an image processor to enhance the quality of the radioscopic images and system performance quality shall exhibit-
(i) a thin section contrast sensitivity of 3%;
(ii) a thick section contrast sensitivity of 2%;
(iii) a spatial resolution of 3 line pairs per mm;.
(iv) IQI sensitivity - 2% of the joint thickness when wire IQI's are to be used, the wire diameter axis shall be oriented along the axis of the least sensitivity of the system.

(c) Radioscopes are to be properly marked to co-relate with particular part of joint represented.

(d) The radioscopic examination data shall be recorded and stored on videotape, magnetic disk or optical disk at the maker's plant for a sufficient period after the date of radioscopic examination as specified by the Inspecting Authority, efficient radioscopic examination record recall shall be made available at any time over the record retention period and shall be traceable to the test objects.

(e) When repair has been performed as a result of radioscopic examination, the repaired areas shall be re-examined using the same radioscopic technique to evaluate the effectiveness of the repair.

(f) To aid in proper interpretation of the radioscopic examination data, the details of the technique used shall accompany the data. As a minimum, the information shall include the approved procedure requirements and system performance test data.";

9. In the said regulation, in Form IV, the following Note shall be inserted at the end, namely: -

"Note: Where the steel is manufactured by a maker, who is not recognised as a Well-known Steel Maker, the certificate of test shall be signed by the Inspecting Authority."

[File No. 6(1)/2003-Boilers]

(V. K. GOEL)
Secretary, Central Boilers Board

Note:- The principal regulations were published in the Gazette of India vide number S.O. 600, dated the 15th September, 1950 and subsequently amended vide notifications –

(i) G.S.R. 178, dated the 24th March, 1990;
(ii) G.S.R. 179, dated the 24th March, 1990;
(iii) G.S.R. 488, dated the 9th October, 1993;
(iv) G.S.R. 516 dated the 23rd October, 1993;
(v) G.S.R. 634 dated the 25th December, 1993;
(vi) G.S.R. 107 dated the 26th February, 1994;Errata G.S.R. 223 dated the 14th May, 1994;
(vii) G.S.R. 250 dated the 4th June, 1994;
(viii) G.S.R. 402 dated the13th August, 1994;
(ix) G.S.R. 427 dated the 20th August, 1994;
(x) G.S.R. 562 dated the12th November, 1994;
(xi) G.S.R. 607 dated the10th December, 1994;
(xii) G.S.R. 83 dated the 25th February, 1995;
(xiii) G.S.R. 93 dated the 4th March, 1995;
(xiv) G.S.R. 488 dated the 9th November, 1996;
(xv) G.S.R. 582 dated the 28th December, 1996;
(xvi) G.S.R. 59 dated the 25th January, 1997;
(xvii) G.S.R. 117 dated the 1st March, 1997;
(xviii) G.S.R. 172 dated the 29th March, 1997.
(xix) G.S.R. 221 dated the 21st November, 1998.
(xx) G.S.R. 131 dated 1st May, 1999.
(xxi) G.S.R. 139 dated 8th May, 1999. Errata G.S.R. 201 dated 7th April, 2001.
(xxii) G.S.R. 237 dated 31st July, 1999.
(xxiii) G.S.R. 345 dated 23rd October, 1999.
(xxiv) G.S.R. 397 dated 14th October, 2000
(xxv) G.S.R. 219 dated 14th April, 2001.
(xxvi) G.S.R. 496 dated 8th September, 2001
(xxvii) G.S.R. 672 dated 15th December, 2001.
(xxviii) G.S.R. 127 dated 13th April, 2002.
(xxix) G.S.R. 407 dated 22nd November, 2003.
(xxx) G.S.R. 201 dated 19th June, 2004.
(xxxi) G.S.R. 203 dated 19th June, 2004.
(xxxii) G.S.R. 265 dated 7th August, 2004.

To

The General Manager,
Govt. of India Press,
Ring Road, Maya Puri,
NEW DELHI-110064.