

Summary of Modifications/Changes in this Update

This Summary of Changes is for information only.
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U.S. Department of Veterans Affairs ♦ Office of Construction & Facilities Management

DATE OF THIS VERSION (new)

March 1, 2024

TITLE OF DOCUMENT (new title if applicable)

SECTION 23 52 33 WATER TUBE BOILERS

DATE OF VERSION BEING SUPERSEDED (old):

November 1, 2023

DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):

SECTION 23 52 33 WATER TUBE BOILERS

SUMMARY OF CHANGES IN THIS VERSION:

1. 2.3 D BOILER TRIM (ACCESSORIES)
 - a. Changed Primary low water cutout to a float type
2. Change the Auxiliary low water cutout to a probe type
3. Match water column specification for water tube boilers to those in the fire tube boiler specifications. To include location of feed water control valve in the specifications.
4. Removed 2.3 E. Water Column with Water Level Controller and Indicator:
5. Removed 2.3 F. Auxiliary Low Water Cutoff:
6. Removed 2.3 I. Feedwater Control Valve
7. Updated reference to VHA Boiler Inspection manual to Seventh Edition.

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DATE OF THIS VERSION:

November 1, 2023

TITLE OF DOCUMENT:

Water Tube Boilers, 23 52 33

DATE OF VERSION BEING SUPERSEDED (old):

September 1, 2023

DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):

Water Tube Boilers, 23 52 33

SUMMARY OF CHANGES IN THIS VERSION:

1. Changed 2.2 FLEXIBLE TUBE BOILER, E. Minimum Design Pressure
REMOVED: 1034 kPa (150 psig)
ADDED: Shall equal the ASME-stamped maximum allowable working pressure of 1380 kPa (200 psig). Purpose of high design pressure is to provide additional corrosion allowance and additional safety margin to perform safety device testing.

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DATE OF THIS VERSION:

September 1, 2023

TITLE OF DOCUMENT:

Water Tube Boilers, 23 52 33

DATE OF VERSION BEING SUPERSEDED (old):

May 1, 2023

DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):

Water Tube Boilers, 23 52 33

SUMMARY OF CHANGES IN THIS VERSION:

1. Change natural gas pressure regulator from cast steel to cast iron.
2. Deleted “and” to fix grammatical error in 2.3 BOILER TRIM (ACCESSORIES) specifically:
G.4.

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DATE OF THIS VERSION (new)

May 1, 2023

TITLE OF DOCUMENT (new title if applicable)

23 52 33 Water Tube Boilers

DATE OF VERSION BEING SUPERSEDED (old):

March 1, 2023

DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):

23 52 33 Water Tube Boilers

SUMMARY OF CHANGES IN THIS VERSION:

1. Edited 2.1 D.2 **D-TYPE WATER TUBE BOILER**
 - a. Increased the Furnace (Combustion) Volume from 517 kW/m³ [50,000 BTU/ft³] to 827,000 kW/m³ [80,000 BTU/ft³].

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DATE OF THIS VERSION (new)

March 1, 2023

TITLE OF DOCUMENT (new title if applicable):

23 52 33 Water Tube Boilers

DATE OF VERSION BEING SUPERSEDED (old):

February 1, 2023

DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):

Division 23 Specification

SUMMARY OF CHANGES IN THIS VERSION:

1. Replaced “will” with “shall”. Initial replacement was incorrect, this fixes that error.

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DATE OF THIS VERSION (new)

February 1, 2023

TITLE OF DOCUMENT (new title if applicable):

23 52 33 Water Tube Boilers

DATE OF VERSION BEING SUPERSEDED (old):

March 1, 2022

DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):

Division 23 Specification

SUMMARY OF CHANGES IN THIS VERSION:

1. Replaced “shall” with “will”.
2. 2.3 Boiler Trim (Accessories) B.2. Steam Safety Valves:
 - a. Removed “Bronze or cast-iron” bodies,
 - b. Added “cast-steel” bodies,
 - c. Removed “. Valves with bronze bodies shall have EPDM O-ring seat seals. Valves with cast steel bodies shall have”,
 - d. Removed “or bronze”.

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DATE OF THIS VERSION:

March 1, 2022

TITLE OF DOCUMENT:

Water Tube Boilers 23 52 33

DATE OF VERSION BEING SUPERSEDED (old):

November 1, 2021

DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):

Water Tube Boilers 23 52 33

SUMMARY OF CHANGES IN THIS VERSION:

1. Remove the high pressure recycle switch.
2. Inserted high pressure manual reset.
3. Defined the pressure set point that enables the boiler to start.
4. Inserted High-High pressure manual reset.

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DATE OF THIS VERSION:

November 1, 2021

TITLE OF DOCUMENT:

Section 23 52 33, Water Tube Boilers

DATE OF VERSION BEING SUPERSEDED (old):

August 1, 2021

DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):

No change

SUMMARY OF CHANGES IN THIS VERSION:

1. Removed cast iron from the specification and replaced with cast steel.

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DATE OF THIS VERSION:

August 1, 2021

TITLE OF DOCUMENT:

Water Tube Boilers, 23 52 33

DATE OF VERSION BEING SUPERSEDED (old):

April 1, 2020

DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):

Water Tube Boilers, 23 52 33

SUMMARY OF CHANGES IN THIS VERSION:

1. Clarify Steam Pressure Recycling Limit switch and set point for the lower reset point.

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DATE OF THIS VERSION:

April 1, 2020

TITLE OF DOCUMENT:

Water Tube Boilers, 23 52 33

DATE OF VERSION BEING SUPERSEDED (old):

August 1, 2017

DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):

Water Tube Boilers, 23 52 33

SUMMARY OF CHANGES IN THIS VERSION:

1. Provided a SPEC WRITER NOTE on the first page for updating and editing the Applicable Publication list. (Provide the year of latest edition to each publication listed in Article 1.3 APPLICABLE PUBLICATIONS.)
2. Coordinated the Sections title through out the body of the section (PART 1 - GENERAL, PART 2 – PRODUCTS and Part 3 – EXECUTION).
3. Added the following SPEC WRITER NOTE in Article 1.3 APPLICABLE PUBLICATIONS. (Insert the year of approved latest edition of the publications between the brackets and delete the brackets // // if applicable to this project.)
4. Updated the date of the Applicable Publications and left the brackets in place for the Spec Writer to take an action.
5. Corrected misspelled words and made general minor revisions.

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DATE OF THIS VERSION (new)

August 1, 2017

TITLE OF DOCUMENT (new title if applicable):

Water Tube Boilers, 23 52 33

DATE OF VERSION BEING SUPERSEDED (old):

February 1, 2015

DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):

Water-Tube Boilers, 23 52 33

SUMMARY OF CHANGES IN THIS VERSION:

1. Throughout - Coordinated abbreviations and acronyms used in this section with a complete list now contained in specification sections 23 05 10 and 23 05 11.
2. Throughout - Changed all references of "Resident Engineer", "RE", and "COTR" to "COR", which is the list of abbreviations in sections 23 05 10 and 23 05 11.
3. Throughout – Placed brackets around paragraphs containing content referencing seismic specifications or instructions, so that the spec writer is more likely to intentionally include or remove this content for the project's seismic zone.
4. Throughout – Replaced words or phrases like "are not allowed" or "are not permitted" with "are prohibited".
5. Throughout – All units were placed in consistent format with Metric units first and English units second, and the numerical value conversions were checked.

6. Throughout – References to No. 5 and No. 6 fuel oils and soot blowers were removed, since the specifications only cover natural gas and No. 2 oil for fuels, and these fuels do not require soot blowers.
7. Throughout – References to pneumatic controls were removed, since digital controls are desired.
8. Part 1 – The general format and content was updated to match the VA standard format desired for Part 1.
9. 1.1 – Edited the spec writer notes preceding the paragraph.
10. 1.2 – Updated “Related Work” section.
11. 1.3 – Updated and supplemented “Applicable Publications” section and verified most recent versions of the publications on the list. This also affected portions of the body of the specification.
12. 1.4 – Section for submittals was edited throughout.
13. 1.5.C – Added a spec writer note in front of this paragraph to explain that NFPA 85 applies to this specification regardless of boiler size.
14. 1.7.F - Edited the spec writer notes preceding the paragraph to discuss elimination of heavy fuels oils.
15. 2.1.D.2 – Added sentence prohibiting flame impingement on any surface.
16. 2.1.E – Edited design pressure paragraph to reference maximum allowable working pressure and explain basis for pressure.
17. 2.1.H – Edited finish painting requirements.
18. 2.2 – Deleted the word “commercial” from the specification.
19. 2.2.D.1 – Added a spec writer note in front of this paragraph to explain elimination of previous requirement for 5 square feet of heating surface area per boiler horsepower.
20. 2.2.D.2 – Added sentence prohibiting flame impingement on any surface.
21. 2.4.A.4 – Added subparagraph to require easy fuel changeover.
22. 2.4.C.3.f - Added sentence prohibiting flame impingement on any surface.
23. 2.4.C.4 – Added another minimum turndown ratio to the list.
24. 2.4.C.6 – Added a more specific note requiring an atomizing air compressor for each burner furnished by the burner manufacturer.
25. 2.4.D.3 – Edited the spec writer note in front of this paragraph to discuss the VA preference for avoiding low NOx requirements if possible.
26. 2.4.E.7 – Edited subparagraph to limit length of flexible conduit.

27. 2.4.E.8 – Edited subparagraph referencing the manufacturer requirements, contract document requirements, and the Boiler Plant Safety Device Testing Manual to state that the most stringent requirements apply.
28. 2.4.G.1 – Deleted the requirement for a thermometer.
29. 2.4.H.1 – Edited subparagraph to eliminate 3-way valves and enquire separate piping for each atomization source, to prevent accidental cross connection.
30. 3.4 – Added requirements for Startup and Testing section.
31. 3.5 - Added brackets around references to Division 23 Commissioning specification.
32. 3.6 – Added requirements for Demonstration and Training.

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DATE OF THIS VERSION:

February 1, 2015

TITLE OF DOCUMENT:

Water-Tube Boilers, 23 52 33

DATE OF VERSION BEING SUPERSEDED (old):

May 1, 2011

DESCRIPTION OF DOCUMENT (previous title, number, other identifying data):

Water-Tube Boilers, 23 52 33

SUMMARY OF CHANGES IN THIS VERSION:

1. Added Section 01 33 23, Shop Drawings, Product Data, and Samples under Paragraph 1.2- Related Work.
2. Added Section 26 05 33, Raceway and Boxes for Electrical Systems under Paragraph 1.2- Related Work.
3. Renumbered the paragraphs accordingly and revised list under Paragraph 1.2 Related Work.
4. Corrected the section titles throughout the section to match the master list on the TIL.
5. Made general minor revisions.