

Summary of Modifications/Changes in this Update

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It is not a part of the referenced document, and should not be used for project documentation.

U.S. Department of Veterans Affairs ♦ Office of Construction & Facilities Management

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DATE OF VERSION BEING SUPERSEDED (old):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.