

Summary of Modifications/Changes in this Update

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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):

Instrumentation and Control for Boiler Plant, 23 09 11

DATE OF VERSION BEING SUPERSEDED (old):

February 1, 2015

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

Instrumentation and Control for Boiler Plant, 23 09 11

SUMMARY OF CHANGES IN THIS VERSION:

1. Added paragraph 1.1B to reference the complete list of acronyms.
2. Updated list of related specification sections.
3. Updated list of applicable publications.
4. Updated submittal requirements to match the remainder of the steam sections.
5. Paragraph 1.4 G 2 prohibit the use of paper chart data recorders.
6. Coordinated submittal with commissioning requirements.
7. Paragraph 1.6 re-written to improve requirements for as-built documentation.
8. Paragraph 2.1 B 18 updated to update acceptable burner control controllers and preclude the use of combination controllers that serve both flame safeguard and burner control.
9. General changes to paragraph 2.1 to restrict the controls work to manufacturers with specialized equipment and software with the intent to preclude non-boiler control experts from doing the work of this section. Essentially field programing is not allowed.

10. 2.2 E 6: Purge time on flame guard system must be permanent once it is established.
11. Prohibited the use of pneumatic controls and actuators.
12. 2.2 P 2 a - added requirement for installation to accommodate all test without the use of a ladder.
13. 2.2 P 2 b – added requirement for installation to facilitate boiler test without testing agents having to put on PPE.
14. 2.2. P 3 c allows the use of systems that meter airflow so long as burner shutdown based on lack of air flow can be demonstrated.
15. Replaced mechanical switches such as mercury switches with UL and FM approved solid state switches.
16. Deleted the use of potentiometers as feedback devices.
17. Added two high limit aquastats for hot water boilers – first to allow automatic restart and the second requiring operator reset.
18. Added dual flow switches to hot water boilers. These two shall be in series, shall require manual reset and shall be of two different types.
19. Paragraph 2.3 A changed NEMA ICS 6, Type 12 rating to Type 4 rating.
20. Paragraph 2.3 B 7 require mechanical cooling or ventilation for boiler control panels.
21. Paragraph 2.3 K added requirement to provide wall mounted fuel shutoff switch in control room and at all personnel egress doors.