

# Summary of Modifications/Changes in this Update

This Summary of Changes is for information only.  
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)**

April 1, 2024

## **TITLE OF DOCUMENT (new title if applicable)**

SECTION 23 09 11  
INSTRUMENTATION AND CONTROL FOR BOILER PLANT

## **DATE OF VERSION BEING SUPERSEDED (old):**

April 1, 2023

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

SECTION 23 09 11  
INSTRUMENTATION AND CONTROL FOR BOILER PLANT

## **SUMMARY OF CHANGES IN THIS VERSION:**

1. 2.2 K.6.t. Added to the building combustion air interlock “This interlock is required to have a parallel device on a secondary means of providing combustion air to the boiler plant.”
2. 2.2 P.18.a. Added to the combustion air intake “Motorized louvers and air-handlers shall have a secondary means to make up combustion air to the plant with a parallel interlock.”
3. F2.2 P.18.b. Added: “Fixed opened louvers do not require interlocks.”

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## **DATE OF THIS VERSION (new)**

April 1, 2023

## **TITLE OF DOCUMENT (new title if applicable):**

Instrumentation and Control for Boiler Plant, 23 09 11

## **DATE OF VERSION BEING SUPERSEDED (old):**

March 1, 2022

## **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. Updated references and dates on standards.
2. Coordinated order of paragraphs with other sections in Division 23.
3. Corrected grammatical, punctuation and typographical errors both for corrections and for consistency with the other sections and divisions.
4. 1.5 A changed to reference Section 23 05 10 / 23 05 11 for consistency.

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**DATE OF THIS VERSION:**

March 1, 2022

**TITLE OF DOCUMENT:**

Instrumentation and Control for Boiler Plant, 23 09 11

**DATE OF VERSION BEING SUPERSEDED (old):**

August 1, 2021

**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. Remove recycling high pressure limit
2. Add high pressure limit with manual reset.
3. Add high-high pressure limit with manual reset.
4. Remove atomizing media flow switch and added a second pressure switch
5. Remove push button test for current relays and added an independent cabinet for the current relays.

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**DATE OF THIS VERSION:**

August 1, 2021

**TITLE OF DOCUMENT:**

Instrumentation and Control for Boiler Plant, 23 09 11

**DATE OF VERSION BEING SUPERSEDED (old):**

February 1, 2020

**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. Removed reference to IR flame scanners
2. Added set point for High Natural Gas Pressure Alarm

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## **DATE OF THIS VERSION:**

February 1, 2020

## **TITLE OF DOCUMENT:**

INSTRUMENTATION and CONTROL for BOILER PLANT, 23 09 11

## **DATE OF VERSION BEING SUPERSEDED (old):**

August 1, 2017

## **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. 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. Changed "Solid state sensor" to "Snap acting swith" in Paragraphs 2.2.P9.b and 2.2.P11.d.
3. Coordinated the Sections title through out the body of the section (PART 1 - GENERAL, PART 2 – PRODUCTS and Part 3 – EXECUTION).
4. Rearranged the sections accordingly and revised the list under Article 1.2 RELATED WORK.
5. Corrected the section titles throughout this section to match the master list on the TIL.
6. Added the following SPEC WRITER NOTE in Artcle 1.3 APPLICABLE PUBLICATIONS. (Insert the year of approved latest edition of the publications between the brakets and delete the brackets // // if applicable to this project.)
7. Updated the date of the Applicable Publications and left the brackets in place for the Spec Writer to take an action.
8. 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):**

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.

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## **DATE OF THIS VERSION:**

February 1, 2015

## **TITLE OF DOCUMENT:**

Instrumentation and Control for Boiler Plant, 23 09 11

## **DATE OF VERSION BEING SUPERSEDED (old):**

November 1, 2010

## **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 Section 01 33 23, Shop Drawings, Product Data, and Samples under Paragraph 1.2 Related Work.
2. Added Section 13 05 41, Seismic Restraint Requirements for Non-Structural Components under Paragraph 1.2 Related Work.
3. Added Section 23 51 00, Breechings , Chimneys, and Stacks under Paragraph 1.2 Related Work.
4. Added Section 26 05 11, Requirements for Electrical Installations under Paragraph 1.2 Related Work.
5. Added Section 26 05 19, Low-Voltage Electrical Power Conductors and Cables under Paragraph 1.2 Related Work.
6. Added Section 26 05 33, Raceway and Boxes for Electrical Systems under Paragraph 1.2 Related Work.
7. Added Section 26 27 26, Witring Devices under Paragraph 1.2 Related Work.
8. Deleted Section 23 50 11, Boiler Plant Mechanical Equipment.
9. Renumbered the paragraphs accordingly and revised the list under Paragraph 1.2 Related Work.
10. Corrected the section titles throughout this section to match the master list on the TIL.



11. Modified Paragraphs 1.3.B, 1.3.E.1, 1.3.E.3 for Quality Control issues.
12. Modified Paragraphs 1.4.D.2, 1.4.D.3, 1.4.D.5 and 1.4.E.3 for Submittal issues.
13. Modified Paragraphs 2.1. A.4.b and 2.1.A.4.c for Product issues.
14. Modified Paragraphs 2.1.D.3.d, 2.1.F.7 and 2.1.K.2.b for Product issues.
15. Modified Paragraphs 2.2.A, 2.2.C, 2.2.D, 2.2.P.1.f, 2.2.P.2.c and 2.2.P.13 for Burner Management issues.
16. Modified Paragraphs 2.3.J.2 for alarm issues.
17. Under Paragraph 3.1.A.3, corrected the section number for Section 26 05 19, Low-Voltage Electrical Power Conductors and Cables from 26 05 21 to match the Master Spec Section listed on TIL.
18. Made general minor revisions.