

# 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)

November 1, 2016

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

23 09 23-Direct Digital Control System for HVAC

## DATE OF VERSION BEING SUPERSEDED (old):

May 1, 2010

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

23 09 23-Direct Digital Control System for HVAC

## SUMMARY OF CHANGES IN THIS VERSION:

1. Deleted Par 1.1.C including Spec Writer Notes.
2. Various sentences were revised from passive sense to imperative sense.
3. Par 1.1.D, replaced "NAC" with "UCU"
4. Deleted Par 1.1.F.
5. Paragraph 1.2. Deleted Sections 23 64 00 and 23 21 13
6. Par. 1.2. Added Sections 01 00 01, 01 00 02, 01 81 13, 01 91 00, 01 33 23, 01 42 19, 13 05 41, 23 08 00.
7. Par 1.3 Added "BAS", "Bitmap". Deleted "Bus Topology", "Ethernet", "FFT-10", "Graphic Program", "Graphic Sequence of Operation", "IP", "JPEG", "LAN", "Network", "Network Area Controller", "MS/TP", "Peer to Peer".
8. Par 1.3. Control Unit (CU), , deleted "residing on secondary LAN or Primary LAN, used for local controls or global controls",
9. Par 1.4.A.1 Deleted.
10. Par 1.4.B.3. deleted "Peer to peer controllers".
11. Par 1.4.B Added "ventilation sequence..."
12. Par 1.4. Added Sections 01 81 13, 01 91 00, 23 08 00, 23 05 11
13. Deleted Spec Writer Note for Par 1.5.

14. Par 1.5. deleted "Graphic display", graphic refresh".
15. Par 1.5.A.8. deleted reporting accuracy for water temperature, relative humidity, water flow, air flows, air pressure, water pressure, electrical power, CO and CO2.
16. Par 1.6.A. Deleted shop drawings.
17. Par 1.6.B. Deleted modems, repeaters, pressure, flow and humidity, control valves, air flow measuring stations.
18. Par 1.6.B. Deleted "installation instructions for smoke dampers.."
19. Par 1.6.B.6 Added "Ensure all control diagrams shown on drawings are to be represented accurately by graphics on the system. Generic graphics lacking some components or have components not in the project are not acceptable."
20. Par 1.7.
21. Par 2.1.A.1 Deleted.
22. Par 2.1.A.2 Changed "Owner" to "Government".
23. Par 2.1.C Deleted Network Architecture.
24. Par 2.1 Third Party Interfaces. Deleted "The other manufacturers and contractors..."
25. Par 2.2.A Deleted.
26. Par 2.2.B.1. Deleted.
27. Par 2.2.D and E Deleted.
28. Par 2.3.B Deleted "The same names shall be used at the operator workstation"
29. Par 2.3.G.7. Deleted.
30. Par 2.4.A Deleted "and Humidity", "immersion" and immersion sensors
31. Par 2.4.A.1. Deleted humidity sensors, static pressure sensors.
32. Par 2.4.B, C, D Deleted.
33. Par 2.6. Deleted Room Humidistats
34. Par 2.7.C.1 updated leakage rate.
35. Par 2.7.C.6 and 7 Relocated misplaced sentences.
36. Par 2.7.F Deleted.
37. Par 2.7.G deleted "valve"
38. Par 2.8. Deleted.
39. Par 3.1.A Deleted "piping"
40. Par 3.1.C.2 and 4 Deleted.
41. Par 3.1.D Deleted.