SECTION 25 11 19
BUILDING CONTROLS SYSTEM SERVER

PART 1 - GENERAL

1.1 SUMMARY
A. This section includes Building Controls System Server hardware for a DDC System.
B. This is the main building level server, often referred to in the past as the workstation. It provides functionality such as schedules, trends, alarms, reports, dashboards and graphics. The Building Controls System Server is the Supervisor PC in Niagara terminology.
C. Related Sections:
   1. 25 1500 Building Controls System Server Software
   2. 25 1516 Software for control and monitoring network
   3. Stanford Network Architecture diagram (MC-01)

1.2 REFERENCES
A. Refer to 25 0000 Integrated Automation

1.3 DEFINITIONS
A. Refer to 25 06 11 Integrated Automation Definitions

1.4 SYSTEM DESCRIPTION
A. The Building Controls System Server is the Supervisor PC in Niagara, a flexible network server used in applications where multiple Niagara-based stations are networked together. The Niagara Supervisor PC serves real time graphical information displays to standard web-browser clients and also provides server-level functions such as centralized data logging, archiving, alarming, real time graphical displays, master scheduling, and integration with enterprise software applications. In addition, the Niagara Supervisor provides a comprehensive, graphical engineering toolset for application development. Common industry generic terms for the Supervisor PC include: Operator Workstation, Front End Computer, Head End Computer, Host Computer, etc.

1.5 SUBMITTALS
A. Refer to 25 0000 Integrated Automation

1.6 QUALITY ASSURANCE:
A. Refer to 25 0000 Integrated Automation
B. The contractor shall confirm compatibility between controls system server hardware, software, and Niagara.

PART 2 - PRODUCTS

2.1 BUILDING CONTROL SYSTEM SERVER
A. Owner shall furnish virtual Building Control System Server with Windows Server 2012 Datacenter Edition OS.
B. The Building Control Systems Server host name shall be: hqxxbxxxxn4host, as named by owner to match campus naming convention.
C. The Supervisor Station, running on the Building Controls System Server, shall be named: sqxxbxxn4Sup, to match campus naming convention.

D. Owner shall furnish one virtual server with the following properties:

Operating System: Server 2012 R2

Virtual cores: 2

Allocated RAM: 4GB

Allocated disk space: 80GB

PART 3 - EXECUTION

3.1 SERVER WORKSTATION

A. The Building Control Systems Server will connect to JACEs on a separate network. Owner will register JACEs on network and provide contractor with IP addresses used to connect the Building Control Systems Server to the JACEs.

B. Restart Notification Required. After Owner has access to Supervisor Station Graphics, the contractor will notify Stanford FESO whenever any of the following events are expected to occur:

1. Server restart. Any situation in which the virtual machine’s operating system must be restarted.
2. Supervisor station restart. Any situation in which the supervisor station or service must be restarted.

C. The contractor shall notify FESO at least two hours ahead of any the above events.

1. If the contractor expects to perform work that requires a large number of these events over a short period of time (up to one business day), FESO should be notified and will determine what level of communication is appropriate over that period, which can, at FESO’s discretion, include a decrease in the communication requirements for this time period.

END OF SECTION