Conference Room

Title 24 Part 6 2022 Compliant
Dimming with NX Distributed Intelligence

QTY	SYMBOL LIST
1	BR NETWORK BRIDGE
2	FX1 ROOM CONTROLLER 1 RELAY
2	FX2 ROOM CONTROLLER 2 RELAYS
2	OS OCCUPANCY/DAYLIGHT SENSOR
1	SS NX SWITCH-SCENE
1	TS TOUCH SCREEN SWITCH

BILL OF MATERIALS

NXHNB2 - NX Network Bridge Module for networking rooms together
NXRCFX2-1RD-UNV - NX Room Controller 1 relay on/off for receptacle or 0-10 volt dimming for lighting
NXRCFX2-2RD-UNV - NX Room Controller with 2 relays with 0-10 volt dimming
NXSMDT-OMNI - The NX Occupancy/Daylight Sensor, 24V, Ceiling Mount, PIR and Ultrasonic, 360º, 2,000 Sq. Ft.
NXSWR-SS-WH - NX Digital Scene Switch, 6 Buttons, 4 Presets, Raise/Lower, White
NXSW-TH3 - NX Touch Screen Interface

CODE REQUIREMENTS

130.1(a): Manual Area Controls
130.1(b): Multilevel Lighting Controls
Table 130.1-A: Continuous Dimming 10-100 %
130.1(c): Shut - Off Controls
130.1(d): Automatic Daylight Responsive
130.1(e): Demand Response Controls for Building > 4000 Watts
110.12 (a): 1.B responding to signal from a certified Virtual End Node
130.1(f): Control Interactions
130.5(d): Controlled Receptacles

SEQUENCE OF OPERATION

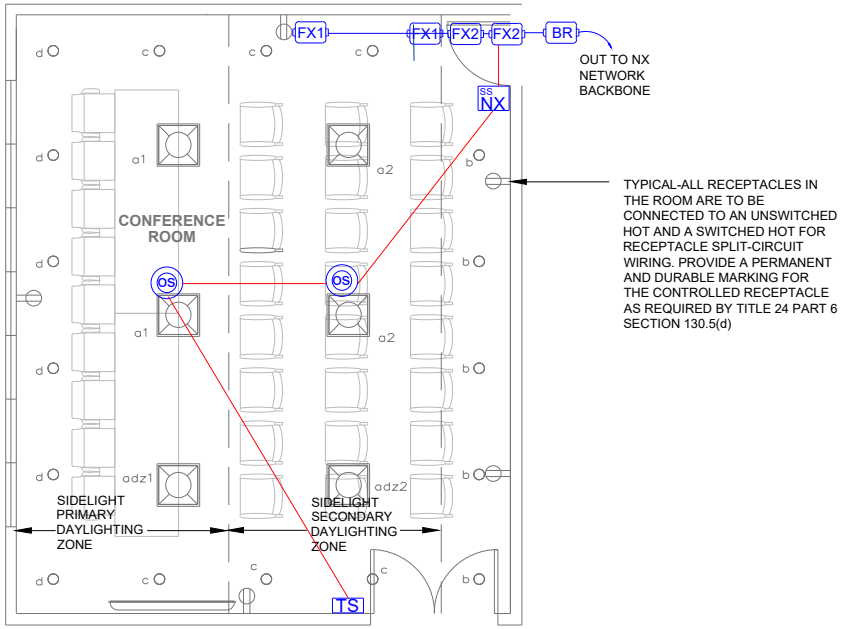
1. General lighting (a1, a2) Partial On to 50% and controlled receptacles Auto On when occupancy detected.
2. Manual On/Off/Dim general lighting (a1, a2) and down lighting (b, c, d) with scene switch or touch screen.
3. Scene settings

General Lighting	(a1, a2) 100%, (b) 0%, (c) 0%, (d) 0%
Projection	(a1, a2) 0%, (b) 75%, (c) 50%, (d) 0%
Conferencing	(a1, a2) 50%, (b) 50%, (c) 25%, (d) 50%
All Off	(a1, a2) 0%, (b) 0%, (c) 0%, (d) 0%

4. Lighting in primary (a1) and secondary (a2) daylight zones will continuously dim based on daylight contribution to maintain a consistent task level.
5. Auto off all lighting and controlled receptacles within 20 minutes of vacancy.

DESIGN CONSIDERATIONS

- BMS Integration and Demand Response functions are enabled by using a NX bridge for connectivity.



LIGHTING SYSTEMS
www.ltgsys.com
(510) 982-3900
2322 6th Street
Berkeley, CA 94710

TYP LARGE CONFERENCE ROOM - TITLE 24 2022

MANUFACTURER: NX BY CURRENT

APPLICATION

DATE: 07/26/23

1.3.0