













January 2012

Back²Basics

Solution

Based on Cx-3 ATC/FPT software

| Month 1: Energy Retro-CX Airside - New ERU & DOAS application | | | | Mode: | | On-100% Occupancy & Max Cooling | | On-50% Occupancy & Nominal Cooling | |
|---|--------------|---------------------------------------|---|---------|------------------------|---------------------------------|------------------------|------------------------------------|------------------------|
| | | | | Status: | | 1 | 2 | 3 | |
| Device | Tag | Description | Reaction | Status | Result | Status | Result | Status | Result |
|  | BAS Computer | Building Automation System Interface | Monitoring Normal power Emergency power Alarm indication Occupied cycle Unoccupied cycle | X X | Pass/Fail Pass/Fail | X X | Pass/Fail Pass/Fail | X X | Pass/Fail Pass/Fail |
|  | D-1 | 2-Position OA Damper | Closed Open | X X | Pass/Fail Pass/Fail | X | Pass/Fail | X | Pass/Fail |
|  | SAF-1 | Supply Air Fan | On Off Modulating | X | Pass/Fail | X | Pass/Fail | X | Pass/Fail |
|  | F-1 DOAS | BFilter Differential Pressure | No signal Monitoring High static- dirty filter | X | Pass/Fail | X | Pass/Fail | X | Pass/Fail |
|  | UV-1ST | 1st Unit Ventilator | On Off | X | Pass/Fail | X | Pass/Fail | X | Pass/Fail |
|  | UV-LAST | Last Unit Ventilator | On Off | X | Pass/Fail | X | Pass/Fail | X | Pass/Fail |
|  | UV-TYP | Typical Unit Ventilator | On Off | X | Pass/Fail | X | Pass/Fail | X | Pass/Fail |
|  | CC-1 | Cooling Coil With 2-way ATC Valve | Closed Open Modulating | X | Pass/Fail | X | Pass/Fail | X | Pass/Fail |
|  | PHC-1 | Pre-Heating Coil With 2-way ATC Valve | Closed Open Modulating | X | Pass/Fail | X | Pass/Fail | X | Pass/Fail |
|  | RHC-1 | Reheating Coil With 2-way ATC Valve | Closed Open Modulating | X | Pass/Fail | X | Pass/Fail | X | Pass/Fail |
|  | ERC-DOAS | Energy Recovery Coil | No flow Full flow | X | Pass/Fail | X | Pass/Fail | X | Pass/Fail |
|  | CHWP-1 | CHW Pump VFD | On Off Modulating | X | Pass/Fail | X | Pass/Fail | X | Pass/Fail |