

System Verification Checklist

[Project Name]

System: **Security**
Location:

Tag: **SSDP-**

Service: **Field Panel**
Building:

<i>Installation Check/Reference</i>	<i>Provided</i>	<i>Initials</i>	<i>Date</i>	<i>IC</i>
Manufacturer:				SC
Model Number:				SC
Unit Identification/Installation				
Two (2) 2" conduits with Pull String to Cable Tray, X7.0.5/Detail S-01				SC
Fire Resistant Backboard, X7.0.5/Detail S-01				SC
Three Emergency 120V. Circuits, X7.0.5/Detail S-01, Spec. 280101-3.3.B, 280101-3.3.C				SC
Inside security component location where AC power terminations occur, mark AC power panel location and circuit number, Spec. 280101-3.3.A				SC
¾" Conduit to Fire Alarm System, X7.0.5/Detail S-01				SC
2" Conduit to SSDP on Floor Above, X7.0.5/Detail S-01				SC
6"x6" Steel Cable Trough, X7.0.5/Detail S-01				SC
Personnel Locator Transponder (Basement SSDP's Only), X7.0.5/Detail S-01				SC
6"x12"x6" Hinged Enclosure with Key Lock for Plug-In Transformers, X7.0.5/Detail S-01				SC
2" Conduit to Security Office and 1"C to SSDP D1032 and D1007 (D1065 Only), X7.0.5/Detail S-01				SC
Emergency Receiver Network Controller(s) mounted, X7.0.5/Detail S-01				SC
Lock Power Supplies Mounted, X7.0.5/Detail S-01				SC
Latch Retraction Power Supplies Mounted, X7.0.5/Detail S-01				SC
Field Panels and Power Supplies for BSS, X7.0.5/Detail S-01				SC
Double-Hinged Wall-Mount Cabinet for Security/Network Related Equipment, X7.0.5/Detail S-01 (Video Equipment Cabinet) 280102-2.5.A (Add 4)				SC
Wire and Cable				

Remarks: **IC**-Installing Contractor; **SM**-Sheet Metal Contractor; **MC**-Mechanical Contractor;
EC-Electrical Contractor; **CC**-Controls Contractor; **SC**-Security Contractor

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Label all cables in a logical and orderly convention that is consistent throughout entire system. Label all spare cables as spare with location served, Spec. 280101-3.9.F.5				SC
Maintain order of terminations among the same or similar functions (i.e. all power supply connections to devices on terminals one and two of a terminal group) , Spec. 280101-3.1.B.13				SC
Wire entering panels shall be stripped of outer jackets and shielding foil (if shielded wire) at least four inches prior to reaching the first terminal strip upon which the wires are terminated, Spec. 280101-3.1.B.2				SC
Panel wires runs to be horizontal and vertical. If not installed in plastic slotted duct, secure at a minimum of 4" intervals horizontally and two inches vertically with suitably sized nylon cable ties, Spec. 280101-3.1.B.3. , Spec. 280101-3.6.I.7, Spec. 280101-3.6.I.2				SC
Do not employ double back tape to attach circuit boards, relays, sockets, board tracks, cable tie anchors or other components, devices or wire. Use screws to fasten such items, Spec. 280101-3.1.B.5				SC
Permit no wire-to-wire splicing inside panel. Provide properly installed barrier type terminal strips or DIN rail terminals for connections, Spec. 280101-3.1.B.8				SC
Install relay circuit boards in snap tracks where more than one relay is installed in a location. Where single relays are installed, secure relay base to panel surface with screws, Spec. 280101-3.1.B.9				SC

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Use standard colors for DC power input points (i.e. black for negative DC, red for positive VDC) , Spec. 280101-3.1.B.12				SC
Mount and pre-wire control relays and terminal strips and other components on back- panels supplied with panels. Mark back-panels with door number or location of installation, Spec. 280101-3.6.I.3				SC
All wiring to central panel group except card readers shall be terminated in the SSDP on the terminal system. Card reader cable shall be routed directly to the field panel termination point, Spec. 280101-3.6.I.6				SC
Install End-of-Line devices at the extreme end of protective circuits, connected end of line alarm points to normally open contacts on all devices. Spec. 280101-3.6.A.8, 280101-3.6.A.9				SC
FIELD PANELS AND POWER SUPPLIES				
Separate isolated power supply is provided for electric locking devices and related door hardware, 280101-2.3.K.1.a.1)., Spec. 280101-3.6.M.4				SC
Primary sealed rechargeable lead-acid battery back-up provided to power each panel under normal load (minimum period of eight (8) hours from time of AC failure). 280101-2.3.K.1.a.2).				SC
Power supplies and standby battery enclosures equipped with key locks and tamper switches connected to alarm points on the nearest field panel. Key panels to match Door Junction and Security System Distribution Panels, Spec. 280101-3.6.M.7, Spec. 280101-3.6.M.5, X7.0.5/Detail S-01				SC

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Provide lead acid batteries in sufficient quantities to power the door system and an additional 30% spare capacity for a period of not less than eight (8) hours with all doors secured and all alarms silenced, Spec. 280101-3.6.M.6				SC
Install power supplies in adequate numbers to power all devices with 20% spare capacity. Provide with all required components to achieve functions indicated and numbers of devices and locations served, Spec. 280101-3.6.F.				SC
Measure overall building current to determine standby battery requirements. Install power supply enclosures and batteries as required to achieve minimum required standby time of four (4) hours, Spec. 280101-3.6.F.2				SC
Mark each battery with date of installation, Spec. 280101-3.6.F.3				SC
Power Supply Fault Monitoring: Connect common fault outputs from multiple power supplies and power distribution board to a monitor point on the field panel. Where more than one power supply is provided, connect each trouble output to a separate monitor point, Spec. 280101-3.6.F.4				SC
Power Supply Distribution Board				
Each board to be equipped with a minimum of eight (8) outputs for connection of DC powered equipment. Each output to be equipped with on/off switch, status LED and independent circuit breaker. Minimum 2-amp per output. Provide higher current ratings where required for site conditions, Spec. 280101-3.6.N.1				SC
Provide separate master fuse for the protection of the entire board, Spec. 280101-3.6.N.2				SC

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No more than one door shall be connected to a single output on the distribution board, Spec. 280101-3.6.N.3				SC
Elevator Interface				SC
Raceway to nearest SSDP to elevator equipment room and connect to elevator interface panel, Spec. 280101-3.4.B.1				SC
Where floor select buttons are to be enabled by reader install readers using cables supplied by elevator subcontractor in traveling cable and available at the demark point, Spec. 280101-3.4.B.2				SC
Fire Alarm Interface				
Provide multiple supervised form "C" output relay points (from Fire Command Console) inside Security System Distribution Panel Group (SSDP) for connection of security system(s) door control, Spec 283111.S-2.1.A, 283111.S-3.1.C				SC
Surge Protection				
Provide surge protection per Spec 280101-2.8.D, Spec 280101-2.8.D and 280101-3.9.C.2 for: Electric locking hardware, All 120V AC circuits powering system components, On Network connections to exterior equipment,				EC

Network
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Provide all patch cables for video and IP-based door controls (minimum 24) to IT data network located within and at opposite end of room at each SSDP location. All patch cables for video and IP based door controls terminated. Spec 280101-1.2.A.5.f, Spec. 280102-3.5.A.6, Spec. 280101-2.2.C.5. (Add. 4)				EC
Provide network patch panels, fiber splice boxes, Fiber Transceivers and UPS at each SSDP in video equipment cabinet sufficient for all IP based security components (Edge Reader doors and IP cameras), Spec. 280101-2.2.C.4. (Add. 4), 280101-2.5.A.5 (Add. 4), 280102-2.4.D (Add. 4)				EC
Provide all cabling (including Cat 5e/6 and fiber optic) required for all security subsystems, Spec. 280101-2.2.C.4. (Add.4)				EC
Protect components from voltage surges originating external to equipment housing and entering through power, communication, signal, control, or sensing leads. Include surge protection for external wiring of each conductor's entry connection to components, Spec 280102-2.2.F				EC

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