

Appendix C3: Low Voltage System Requirements

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1. PHYSICAL ACCESS CONTROL SYSTEM (PACS)

The PACS system shall include, but not be limited to card readers, keypads, biometrics, electronic locks, and electromagnetic locks and strikes. PACS devices shall be used for the purpose of controlling access and monitoring building entrances, sensitive areas, and alarm conditions from an access control perspective. This includes maintaining control over defined areas such as building perimeter and interior areas. Include request to exits (REX's) at all doors with card readers. PACS shall have the capability to be able to be fully integrated with other security subsystems and the existing system (Software House C-Cure 9000) using direct hardwire or computer interface and shall be manufactured by Lenel OnGuard, or approved equal. Space will be provided in the Communications for card reader equipment and all security panels. No wireless components are permitted. The following card readers shall be used.

1. Single Authentication (PIV Card):

PIV Class
R40EKNR
SRD Model: R40E
Model: 920NHRNEK0001 T
13.56 MHZ only

2. Dual Authentication:

PIV Class
RPK40EKNR
SRD Model: RPK40-H
Model: 921PHRNEK0002G
13.56 MHZ only

The card access system shall be HSPD-12/FIPS 201 compliant. The system shall be able to operate and process PIV/HID cards set to a 75 bit string-pattern by the manufacturer. The issue code variable, vendor code, and credential number of the PIV card shall be processed upon the granting of area access. The software shall be programmed to permit the deletion of expired/lost/stolen, etc. PIV cards, with all associated data from the system. The Physical Access Control System (PACS) shall comply with the requirements of Department of Veterans Affairs, Office of Operations, Security, and Preparedness, HSPD-12 Program Management Office, Physical Access Control System (PACS) Requirements, Version – 1.0, December 22, 2010. Contractor must have prior approval from VA IT, through the Contracting Officer's Representative, to

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connect to the VA data network. Utilize Federal Security Level FSL II documents for location requirements of devices in Appendix C2.

Cables for the PACS system hardware shall be Genesis Series Plenum, Access Control CBLE 1MRL UNJKT, Model #32951099, or approved equal. Cables installed for connection of hardware shall be installed to the Communications Room and connected to a control panel manufactured by Lenel, or approved equal. A CAT 6 cable shall be installed from the Lenel control panel and connected to VA provided equipment.

PACS card readers shall have battery backup to prevent loss of operation in the event of normal power failure and before emergency generator comes on line.

Contractor shall provide the following information to the VA:

- Operating bit pattern used by card access system.
- List of specific location of all batteries in system, size and type of battery.
- Specific location of all system components
- Schematic diagram of system and components
- Specify software that is used by card access system.

Dual authentication card reader shall be installed on access doors to the following: Police Operation rooms, Communications, Special Systems, mechanical and electrical rooms and Armory. Single authentication card readers shall be installed at the following access doors: all interior entry doors to clinic, parking gates, laboratory area, mental health group rooms, mental health team work area, PACT team work areas, all staff back hallway doors, shared medical appointment rooms and storage, and all exterior doors used by staff and patients.

2. SECURITY SURVEILLANCE CAMERA TV SYSTEM (SSTV):

The SSTV system design, installation, and use shall support the monitoring of building entrances, interior areas, restricted areas, alarm conditions, and shall support the visual identification and surveillance of persons, vehicles, assets, incidents, exterior areas, such as site and roadway access points, parking lots, and building perimeter. No wireless components are permitted. The SSTV system shall be monitored via the VA network system. SSTV system shall be Bosch or approved equivalent. All cameras must be compatible with Lenel OnGuard. All cameras shall be IP type, pan, tilt, zoom, with the exception of camera in Special Systems. Furnish and install one (1) each high definition, IP type fixed camera, with security globe, and provisions to connect to VA Network, in the Special Systems room. Camera shall be positioned to monitor entrance to room. Contractor shall provide an NVR with a minimum of thirty (30) days high definition storage recording time. The contractor shall install a cable from the NVR in a VA designated location to the Special Systems Room for connection to VA equipment. The Contractor shall be responsible for installing the cabling from the

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cameras back to the Special Systems where cables will be connected to VA equipment. Lessor shall test each cable and provide permanent identification markers on cable in Special Systems and at camera location. Cameras will be controlled and monitored through the VA network system. Utilize Federal Security Level FSL II documents for location and installation requirements of devices.

Supply and install security cameras for 100% coverage of the following areas, connected to WJB Dorn MC security system:

- All exits and entrances (interior and exterior)
- Throughout lobby including vestibule, wheelchair alcove, patient check-in kiosks, patient education workstation, circulation, hallways, reception, information desk, vending machine area, seating areas, waiting areas, and entry to Group Therapy Rooms.
- All hallways including visuals of all interior doors
- Inside Special Systems and Communications
- Medication areas
- All Police areas/rooms
- Pathology & Laboratory Medicine entry and exit, hall, reception, and storage
- All parking areas, drive lanes, sidewalks, delivery, drop-off, mobile unit, and gate arm areas
- Holding Room (tamper proof)
- Around building envelope.

Power shall be provided to camera locations and connected to camera, in lieu of a centralized power supply.

Provide (4) 50 inch wall mounted security camera system monitor in back Police Operations Room and (2) 50" monitors in the front Police Operations Room for observation of cameras. Monitors shall be installed on an articulated arm with vertical and horizontal adjustment.

3. INTRUSION DETECTION SYSTEM (IDS):

Maintenance and monitoring of an Intrusion Detection System shall be accomplished by the Lessor through a contractual arrangement with a commercial security firm to be approved by the Contracting Officer.

The intrusion detection alarm system shall meet UL 639 Intrusion Detection Standard, VA Specification 28 16 00, VA Handbook 0730/4 and Facility Security Level Documents FSL II in Appendix C2.

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The intrusion detection alarm system shall detect entry into the building and broadcast a "local alarm" of sufficient volume to cause an illegal entrant to abandon a burglary attempt. Security of the front glass storefront will be monitored via motion detectors not glass break modules. The building security alarm system shall have the following essential features:

- 1) An internal, automatic charging DC standby power supply and a primary AC power operation. The Lessor is responsible for providing the 120 volt circuits for this equipment. Power supply voltage shall be in the range of 13.2 – 13.7 volts.
- 2) A central monitoring panel, with activation/deactivation code shall be installed adjacent to the main entry door and adjacent to the employee entrance.
- 3) An automatic reset capability following intrusion detection.
- 4) A local alarm level of 80dB (min.) to 90dB (max) up to 100 feet from the protected building.
- 5) An integral capability for the attachment of wiring for remote alarm and intrusion indication equipment.
- 6) A Bosch alarm panel with integration to the Lenel Access Control.
- 7) No wireless components are permitted.

Installation Notes:

- a. A locally sounding alarm "shall not" be installed in a room that is close to any room where a loud alarm would have an injurious effect on occupants.
- b. Intrusion detector alarms shall be remoted to a commercial security alarm-monitoring firm, a local police department, and/or a security office charged with building security with 24-hour coverage at the discretion of the Contracting Officer. Lessor is responsible for the cost of the security alarm monitoring. The remoted alarms will be in addition to the locally broadcast alarms in the protected areas.
- c. A motion detector shall be installed in the Communications and Special Systems room. Motion detectors shall be installed for full building coverage. All interior corridors and main lobby shall be covered by motion detectors. Rooms with windows at ground level shall have motion detectors. Provide door contacts on the Special Systems, Police Operation rooms, Armory, Communications room, roof hatches and all exterior doors of the building.
- d. Provide a Cat 6 cable from the Intrusion Detection System to be connected to the PACS server located in the Communications room.

NOTE: Intrusion detection equipment that operates on the principle of narrow-beam interception, microwave, or photoelectric eyes is **UNACCEPTABLE**.

4. DURESS ALARM (LYNX) SYSTEM

The VA will utilize computer keyboards to initiate duress alarms. No wireless components are permitted. The contractor shall provide for local security personnel

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monitoring of duress alarms and for remote monitoring of duress alarms. Duress shall also be monitored by the local police.

5. NURSE CALL SYSTEM

A nurse call system shall be installed in all toilet rooms.

A. **Emergency Station:**

1. A pull cord emergency station shall be provided in each toilet room.
2. Each emergency station shall be mounted on a double-gang back box, minimum. A trim plate constructed of stainless steel shall be provided to cover the back box opening and frame the cover plate.
3. Emergency stations shall be provided with:
 - a. An anti-ligature test pull cord and pendant which shall be connected to a positive action on/off switch at the emergency station. The cord with pendant shall terminate 150 mm (6 inches) AFF. Pull cord shall be manufactured of vinyl with a smooth surface. Rope style or woven twine style is not acceptable.
 - b. A minimum of one pound pull to activate the switch.
 - c. A reset/cancel function on the face plate of the emergency station.
 - d. "EMERGENCY NURSE CALL" or similar approved wording stamped or permanently affixed on the face plate. The emergency wording letters shall be a minimum of 3.2 mm (1/8 inch) high.
 - e. A red lamp which shall flash at a rate of one second on and one second off upon initiation of a call from the emergency station. The lamp shall continue to flash until the station is reset.

B. **Corridor Door Dome Lights:**

1. Provide light covers that are translucent and shall not deform, discolor or craze from heat or use of normal hospital cleaning agents.
2. Corridor door dome lights shall be provided for toilet rooms and shall contain duplex red lamps that shall illuminate and flash, until the call is reset, when a call is placed in the associated toilet room.
3. Each dome light shall be mounted on a dual-gang back box, minimum. A trim plate constructed of stainless steel shall be provided to cover the back box opening and frame the cover plate. Dome lights shall be mounted so that they are clearly visible from anywhere in the corridor in which the dome light is located.

- C. **Nurse Call Master Station:** Provide one (1) master station in (each) Team Work Area. Calls shall be cancelable at the calling station only. The nurse call master station shall have a back lit window for each room that indicates room number. When an emergency call is placed from a toilet room the corresponding backlit window shall light and an audible signal shall sound at the master station. The

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master station shall not have the ability to cancel emergency calls. Master station desk top console housing may be plastic.