

Dover AFB
436 Airlift Wing Command Post

PERFORMANCE WORK STATEMENT

Video Surveillance System

1. BACKGROUND

1.1.The 436 Airlift Wing Command Post requires a fully functional Video Surveillance System (VSS), at Dover AFB, Delaware. The currently installed cameras have reached their end of service life and require replacement. Furthermore, additional camera locations are needed to mitigate gaps in coverage and reduce potential vulnerabilities.

2. PROJECT BENEFITS

2.1.Successful replacement and upgrade of the VSS will ensure effective visibility of flight line operations, emergency response, and access control management for the Command Post, ICC, Security Forces and Fire Department.

3. PROJECT DETAILS

3.1. VSS Cameras: Currently, ten Command Post cameras exist in various strategic locations across Dover Air Force Base. In addition to replacing these, five new camera locations will be established. Three of the existing camera locations are near the top of light poles, approximately 80 feet tall, while all other existing and new locations are side-building mounted. All fifteen locations one camera with standard pan/tilt/zoom capability. Precise placement for each camera at the predesignated locations will ensure constant coverage without any vulnerable gaps. At project completion, the total number of installed cameras will be fifteen. The government is requesting Bosch brand model Autodome 7000 IP with environmental housing or equivalent approved equipment. If providing cameras of a brand different than the model listed above, they must meet the minimum salient characteristics listed in table 2 and fall under the approved Intrusion Detection System list in attachment 1.

3.2. Table 1 details each location, type of structure, installation, and camera. Table 2 lists the minimum salient characteristics.

Table 1.

Designator	Location	Structure	Installation	Model
1	Building 945	Building	Replacement	Autodome 7000 IP
2	Parking Spot Z	Light Pole	Replacement	Autodome 7000 IP
3	Building 715	Building	Replacement	Autodome 7000 IP
4	Building 714	Building	Replacement	Autodome 7000 IP
5	Building 706	Building	Replacement	Autodome 7000 IP
6	Parking Spot H	Light Pole	Replacement	Autodome 7000 IP
7	Building 150	Building	Replacement	Autodome 7000 IP
8	Building 140	Building	Replacement	Autodome 7000 IP
9	Building 792	Building	New	Autodome 7000 IP
10	Building 524	Building	New	Autodome 7000 IP
11	Building 105	Building	New	Autodome 7000 IP
12	Building 1350	Building	New	Autodome 7000 IP
13	Building 1306	Building	Replacement	Autodome 7000 IP
14	Building 1320	Building	New	Autodome 7000 IP
15	Parking Spot HC2	Light Pole	Replacement	Autodome 7000 IP

Table 2.

Minimum Salient Characteristics	
<u>Pan/Tilt:</u>	360° continuous/ 18° above horizon Normal Mode: 0.1 to 120°/sec Preset Accuracy: ± 0.1° typical
<u>Zoom:</u>	30x optical/12x digital/guard tour
<u>Frame Rate:</u>	30fps in 1080p 60fps in 720p
<u>Event Triggers:</u>	Motion and shock detection
<u>PTZ Features:</u>	Auto-tracking
<u>Lens:</u>	Day/night Auto-iris

3.3.VSS Physical Installation: At each of the fifteen locations, the contractor will provide and install all required patch cables, patch panels, PoE media convertors, network switches, power supplies, conductors, enclosures, transceivers, lightning protection, and appropriate brand mount for each installation structure. A complete location installation will consist of any necessary hardware required to provide live camera feed into the data closet of the attached building (or nearest connected building, for light poles). Technicians working on the VSS install will be qualified to install all requested equipment. The contractor will provide any required boom lift for installations.

3.4. Master Control Station (MCS): The contractor will provide, install, and configure a video recorder system with a minimum storage capacity of 110TB, in RAID 5. The contractor will provide, install, and configure affiliated client-side monitoring software with enough licenses sufficient to operate all feeds. All hardware for the recorder system, including PTZ joystick controllers, will be provided by the contractor. The customer will provide stand-alone computer stations operating on the Air Force Standard Desktop Configuration on Windows 10, along with monitor, mouse, and keyboard, for the contractor to install the client-side software. Technicians working on the MCS install will be qualified in all required video equipment.

3.5. VSS Data Feed: All fifteen cameras will operate on a stand-alone network to limit unauthorized access and separation from the Dover Air Force Base military local area network. The stand-alone network will be configured to a Master Control Station (MCS) inside the Command Post at Building 203. The software will be configured as such that personnel working in the Command Post Operations Floor will be able to display three simultaneous feeds: 1. Side wall display, 2. Main wall display, and 3. Displayed on MCS for configuring/editing/exporting recordings. The software, VSS data feed, and MCS will be configured to allow sharing of one of the live feeds to a screen in the Installation Control Center (2nd floor, Building 203), the Base Defense Operations Center (Fire Department, Building 140), the alternate Command Post (Building 639) and the alternate Installation Control Center (Building 639).

4. INSTALLATION, MAINTENANCE, AND SUPPORT

4.1. Warranty Information: The contractor will provide a commercial standard one-year warranty for all contractor provided hardware/software, materials, and workmanship. The warranty period will not begin until final government acceptance.

4.2. Unscheduled Maintenance: The contractor will include emergency technical assistance as required including on-site responses as appropriate for system failures as outlined below. The contractor will track and resolve problems as follows:

4.2.1. Major Failures: Loss of capability of 25 percent or more of the cameras, or any loss of capability of the MCS.

4.2.1.1. If a major failure occurs, the contractor will perform a service call.

The contractor's personnel will arrive within 4 hours of notification during normal duty/business hours. In the event of a notification during non-duty hours, the contractor's personnel will begin repair at the beginning of the next day, during normal duty/business hours.

Service will be restored within 48 hours of initial notification.

4.2.2. Minor Failures: Any abnormal hardware or software fault that degrades service to less than the desired performance, but which does not constitute a major failure. If a minor failure occurs the contractor will perform a service call as soon as possible. The contractor will restore all minor failures no later than three duty/business days after notification.

4.3. Annual Preventative Maintenance and Inspection (PMI): The contractor shall provide annual preventative maintenance inspections on the VSS and MCS. The contractor shall ensure all items are inspected and all deficiencies found during the PMI are corrected, prior to completing the inspection. The PMI will include, at a minimum:

4.3.1. PMI for VSS: Alignment, enclosure integrity, condensation buildup and removal, corrosion inspection, internal wiring inspection, and circuit board inspection, proper weatherproofing, and dome cleaning.

4.3.2. PMI for MCS: Camera IP addressing, video feed storage/playback/export functionality, frame rate adjustments, PTZ programming adjustments, software application patching and updating.

4.4.Maintenance Agreement: For warranty, unscheduled, and scheduled maintenance, this package will cover, but is not limited to, all contractor provided hardware/software upgrades, materials, workmanship, and training associated with the system. The package will also comply with all specifications requested for the emergency technical assistance described in paragraph 4.2.

4.5.Contractor Certification and Qualification: All contracted installation and maintenance technicians will be qualified technicians and will be authorized and to perform maintenance and repair for all equipment and components. Any technician not authorized or certified by the contractor will be prohibited from performing maintenance on the system.

4.6. Training

4.6.1. The price quoted for installation of equipment proposed to satisfy the requirements will include formal customer training, prior to acceptance.

4.6.2. Training on the operation and administration of the proposed system will be provided for up to four (4) customer administrators, for up to one full day of training.

4.6.3. All training presentations and documentation (system administrator, user, and training guides) will be provided and performed on-site in English.

4.7. All documentation, to include training material, shall be turned over to the customer for recurring training needs. Testing

4.7.1. The contractors will perform all testing as specified in the contractor provided, and government approved, test plan to assure that the system meets the minimum feature requirements specified herein.

4.7.2. All items procured under this delivery order will be tested.

4.7.3. The contractor has the responsibility to ensure the installation is tested prior to cutover.

4.7.4. The government will witness all testing.

4.7.5. The government requires, at a minimum, a 10-business day notice before the contractor performs any testing.

4.7.6. The contractor will document these test results.

4.7.7. Copies of the test results will be provided to the government.

4.7.8. The installation will not be cutover without specific government approval.

4.8. Acceptance

- 4.8.1. The government reserves the right to refuse final acceptance until all discrepancies have been resolved to the satisfaction of the government.
- 4.8.2. The discrepancies list will include all problem(s) detected/identified conducted by the contractor government or both.
- 4.8.3. Problems identified during the acceptance period will be documented and provided to the government.
- 4.8.4. Installation, maintenance, testing, training and cutover will be accomplished with minimal disruption of operations.

5. REPLACEMENT PARTS

- 5.1. Repair/replacement parts required to bring the VSS and MCS back to full functionality will be of equal or greater quality than the original parts removed. Replacement parts shall be provided by the contractor during the initial warranty period. The contractor will provide a written estimate of the anticipated time for any and all repairs.
- 5.2. The contractor shall document on work tickets, the equipment specifications present upon installation or removal, signed by the certified technician who installed or removed the equipment. The document shall be provided to and retained by the Authorized Government Representative. Work tickets shall include the following information and be submitted within 2 workdays:
 - 5.2.1. Date received for installation or removal
 - 5.2.2. Job Control Number (JCN)
 - 5.2.3. Equipment type, model, and serial number
 - 5.2.4. Date of completion
 - 5.2.5. Signature of certified technician accomplishing the maintenance

6. GOVERNMENT FURNISHED PROPERTY AND SERVICES

- 6.1. Dover AFB will provide telephone access for contractor's technicians to assist with remote technical support and repair services. The government will provide standalone desktop computers required for the MCS.

7. GENERAL INFORMATION

- 7.1. Location of Project:** Building 203 (Command Post) for MCS. Building 203 (ICC), building 639 (Alternate Command Post/ICC) and building 140 (BDOC/FD) for remote viewing stations; and 15 camera locations for VSS.
- 7.2. Completion Timeline:** Completed no later than 90 days after contract award.
- 7.3. Personnel:** The contractor shall not employ individuals identified to the contractor as potential threats to the health, safety, security, general well-being, or operational mission of the installation and its population. Service provider personnel shall present a neat appearance and be easily recognized as service provider employees.
- 7.4. Hours of Operation:** The hours of operation are Monday through Friday 0700-1630. The contractor is not required to provide service except for emergencies on the following days: New Year's Day, Martin Luther King's Birthday, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Columbus Day, Veterans Day, Thanksgiving Day, Christmas Eve and Christmas Day.
- 7.5. Records Management:** The contractor understands that when creating, handling and maintaining records for the Air Force, either electronic or paper, you must meet the requirements established in AFRIMS Records Disposition Schedule (RDS), AFI 33-322, Records Management Program, AFI 33-364, Records Disposition Procedures and Responsibilities, and AFM 33-363, Management of Records. In order to meet the requirement established IAW the above mentioned regulations, contact the Base Records Management Office (436 CS/SCXK, Bldg. 310) at 302-677-3642 for guidance and training.
- 7.6. Flightline Driving:** Contractors will have to adhere to the provisions in DAFBI 13-202 if operating on the airfield.
- 7.7. Solid and Hazardous Waste Removal:** The contractor shall dispose of all wastes generated in the performance of their task. No solid waste materials shall be placed in any trash receptacle on DAFB. If any Hazardous or Special Waste is generated, the Contractor will coordinate with the 436 Civil Engineering Natural Resources Flight (436 CES/CEAN) prior to disposal.

8. KICKOFF MEETING

8.1. The contractor shall attend a kick-off meeting specific to this requirement with the COR and CO within 7 days of contract award.

9. SAFETY

9.1. In performing any work under this contract on premises which are under the direct control of the Government, the contractor shall conform to all safety rules and requirements prescribed in Air Force Pamphlet 91-210, Contract Safety and Public Law 91-596, The Occupational Safety and Health Act of 1970. Effective on the date of this contract, the contractor shall take such additional precautions as the Contracting Officer may reasonably require for security, safety, traffic fire, personnel clearances and accident prevention purposes. The contractor agrees to take all reasonable steps and precautions to prevent accidents and preserve the life and health of the Contractor, Government Property and Government personnel performing or in any way coming in contact with the performance of this contract on such premises. These requirements are additional to and do not replace the standards promulgated by the Department of Labor under the Occupational Safety and Health (OSHA) Act. In the event of a conflict between the OSHA Standards and these requirements, the most stringent shall apply. Any violation of such rules and requirements, unless promptly corrected, as directed by the Contracting Officer, may be considered grounds for termination of this contract in accordance with the default provisions hereof. Contractors will to adhere to the provisions in DAFBI 13-202 if operating on the airfield.

10. SECURITY

10.1. The contractor shall coordinate with Dover AFB Security Forces and Civil Engineering to obtain required passes/permits to operate high-lift equipment on and near the flight line.

10.2. All personnel employed by the contractor in the performance of this contract, or any representative of the contractor entering the governmental installation shall abide by all security instructions and directives of Dover AFB. Employees are responsible for safeguarding all government property provided for contractor use.

- 10.3.** At the close for each work period, government facilities, equipment and materials shall be secured, lights, heat and water turned off and all doors and window secured.
- 10.4.** The contractor and, as applicable, subcontractor shall not employ persons for work on this contract if such employee is identified as a potential threat to the health, safety, security, general well-being or operational mission of the installation and its population, nor shall the contractor or subcontractor employ persons under this contract who have an outstanding criminal warrant as identified during the Criminal Background Check.
- 10.5.** Contractors shall ensure their employees and those of their subcontracts have the proper credentials allowing them to work in the United States. Employees and subcontractors later found to be undocumented or illegal aliens will be remanded to the proper authorities.
- 10.6.** All contractors and subcontractors when working in a controlled, restricted or other sensitive area must be escorted at all times. The military agency or unit responsible for the project or work is responsible for providing the escorts. The contractor shall follow existing procedures and instructions for obtaining entrance to restricted or controlled areas.

11. CONTRACTOR BADGES

- 11.1.** All requests for contractor badges will be submitted through the Base Contracting Squadron Office and/or the requesting agencies base point of contact. The Contracting Squadron Office or base point of contact will then fill out an Operational Risk Management Assessment Form (ORM) for the requesting agency and submit it to the Pass and Registrations section for approval IAW DAFBI 31-101. As a minimum the ORM will be submitted 72-hours prior to the requested date of employment.
- 11.2.** All contractor employees who will be granted unescorted access to the installation are required to consent to a Criminal Background Investigation (CBI) prior to being granted entry to the installation. Continued employment is contingent upon successful completion and favorable reporting of the criminal background check.
- 11.3.** Contractor badges will be issued for a maximum period of one year. Prior to reissuing new badges, all old badges must be returned to Pass and Registration for destruction. In addition, before a new badge will be issued, an ORM must be

resubmitted to the Pass and Registration section for approval again. In the event a badge is lost or stolen, the badge holder must accomplish the Loss/Theft of Identification Worksheet and provide it to his/her supervisor. The supervisor of the contractor will investigate the loss and report in writing the circumstances in which the badge was lost to the 436th Contracting Squadron and 436th Security Forces

11.4. Squadron and submit a new request for badge before a new badge can be reissued. Base Contracting Office or base point of contact will immediately notify Security Forces, Pass and Registration when a contractor's employment has been terminated. The Site Supervisors are responsible for notifying and returning the contractor's badge to Pass and Registration when this occurs. At no time will a contractor contact Security Forces directly regarding badge denial; they need to contact the Contracting Office.

12. INSTALLATION ACCESS

12.1. The contractor shall obtain personal contractor identification badge for all employees and vehicle passes for all contractor and personal vehicles requiring entry onto Dover AFB from Pass and Registration, for the duration of the contract. Employees are only permitted to enter the installation during the date and time periods indicated on their contractor badge.

12.2. The contractor shall contact the Command Post 24 hours prior (minimum) to arrival to coordinate restricted area facility access.

12.3. Vehicle registration, proof of insurance and a valid driver's license must be presented for all vehicles while operating on the installation. All vehicles entering the installation or sensitive areas are subject to search. Any refusal or non-consent by an employee will result in termination of their base access and immediate confiscation of this access badge.

12.4. During Force Protection Condition (FPCON) Normal and Alpha, personnel without base issued badges must be sponsored onto the installation.

12.5. During FPCON Bravo, Charlie and Delta, personnel without base issued identification shall be physically escorted onto the installation.

12.6. During higher FPCONs (Charlie and Delta) the base will normally curtail non-essential operations/functions; access by non-essential contract operations will be suspended at the direction of the Installation Commander.



**DEPARTMENT OF THE AIR FORCE
AIR FORCE SECURITY FORCES CENTER
1517 BILLY MITCHELL BLVD, BLDG 954
JBSA LACKLAND TX 78236-0119**

22 January 2020

MEMORANDUM FOR DISTRIBUTION

FROM: AFSFC/CC

SUBJECT: Non-Nuclear Intrusion Detection System (IDS) Equipment Approval

1. The IDS equipment listed below is approved for use when employed in the tested PL-1 Non-Nuclear through PL-4 applications and configurations. This letter consists of nine pages.

* Indicates correction, change, and/or addition.

+ Indicates item is no longer procurable and/or supported by OEM; however it is still approved for use as listed on this memorandum. Contact AFSFC/S5G at afsfc.ibdss@us.af.mil with any questions concerning these items.

PL-1 Non-Nuclear and Below

Command, Control Display Equipment (CCDE)

Will-Burt Annunciator:

Will-Burt Annunciator Predator Elite, with integrated access control
Annunciator Version 3.2.274p, subpatch p32274.1.13
LINXSNMP version 3.3.274P, subpatch 3.3.274P.1.13.30
Annunciator Version 3.3.274p, subpatch p33274.1.13.33
+ Annunciator Version 3.2.274p
+ Annunciator Version 3.0.252
+ Annunciator Version 3.0.246
Annunciator Version 8.1(Win 10)
LINX Predator Enrollment System Version 4.1.220
LINX Predator Enrollment System Version 4.0.203
LINX Versatile Interface Panel (VIP) Version 1.172
LINX Versatile Interface Panel (VIP) Version 1.148
LINX Versatile Interface Panel (VIP) Version 1.64
LINX Versatile Interface Panel, Expandable (VIP-E) Version 7.284
LINX Versatile Interface Panel, Expandable (VIP-E) Version 7.145
+ WSD 2000 Card Reader version 1.8V
WSD-E Card Reader version 3.110

Advantor Annunciator:

The information herein is FOR OFFICIAL USE ONLY (FOUO) information which must be protected under the Freedom of Information Act (5 U.S.C 552) and/or the Privacy Act of 1974 (5 U.S.C.552a). Unauthorized disclosure or misuse of this PERSONAL INFORMATION may result in disciplinary action, criminal and/or civil penalties.

- + Advantor Advantage Suite for Networks (ASN) Version 4.0
- Advantor Advantage Suite for Networks (ASN) Version 5.0
- Advantor Advantage Suite for Networks (ASN) Version 6.2 (Win 10)
- Advantor Integrated Command, Control, and Access Control System Version 5.0
- Advantor Integrated Command, Control, and Access Control System Version 5.0 Service Pack 6
- Advantor Integrated Command, Control, and Access Control System Version 6.0

Vindicator Annunciator:

Vindicator Security Management and Reporting Terminal (SMART) Annunciator with Graphics Display

- + Version 2.40 with Administrative Browser 4.0
- + Version 2.43, Build 11
- + Vindicator Command and Control (VCC) Version 1.0.1.5
- + Vindicator Access Control System (ACS) Version 2.3, Build 21
- + Transponder Firmware Version 2.28
- + TS 4000 Radio Frequency (R/F) Modem Interface
- + Vindicator SMART with Graphics Display Version 2.39 and SAW Version 3.9
- + Vindicator Command and Control Platform (VCCP) v5- Version 5.0
- + Vindicator Command and Control Platform (VCCP) v5- Version 6.0
- + Vindicator Command and Control Platform (VCCP) v5- Version 6.5 (Win 7, 32 bit only)
- + Vindicator Command & Control (VCC) GUI Version 5.1.1.4
- + Vindicator Badge Manager 2 (VBM 2) Version 2.0.7.0
- + Vindicator Badge Manager 2 (VBM 2) Version 2.0.7.1 (Win 7, 32 bit only)
- + Vindicator Security Archive Workstation (SAW 5) Version 5.1.0.6
- + Honeywell Vindicator Site Commander Version 1.2.0.1
- + V5 IDS Network Security Appliance – Intrusion Detection, Revision 3.2, Release 20:
 - UHS-8170
 - DES-8170T
 - AES-8170T
- + V5 ACS Network Security Appliance – Access Control Revision 3.2 Release 20:
 - UHS-1401
 - DES-1401T
 - AES-1407T
- + Vindicator UHS-Net Gateways:
 - UHS-8101 Version 2.33, Build 7
 - UHS-8102 Version 2.33, Build 6
 - UHS-8301 Version 2.33, Build 13
 - UHS-8400 Version 2.33, Build 13
- + Vindicator UHS-Net Transponder/Gateway Revision 3.3, Release 5:
 - UHS-1500
 - DES-1500T
 - AES-1500T
- + Vindicator UHS-Net Transponders Version 2.33, Build 13:
 - UHS-6842

UHS-6842F

DES-6842

DES-6842F

+ PC SMART PAC Software Package Version 5.1

+ Proteus 5 & SmartSave 5 Software Programs Version 5.2

Vindicator Command and Control Platform (VCCP) Windows 7 (64-bit):

Vindicator Command & Control 2-Version 1.2.1.4

V5 Network Security Application for IDS & ACS-Version 3.2, Release 23

UHS-1500 UHS-Net Field Panel-Version 3.3, Release 7

Security Archive Workstation 2-Version 1.4.2.9

Vindicator Badge Manager 3-Version 2.0.26.7

Vindicator Site Commander-Version 1.3.0.7

Vindicator Area Commander-Version 1.1.0.6

Vindicator Premise Controller-Version 3.3, Release 7

Vindicator PC SMART PAK-Version 6.0.0.1

Vindicator Security Server-Version 1.0

* Vindicator 10 Annunciator Workstation (Win 10 LTSB)

Vindicator Command and Control 2-Version 1.3.0.2 SP4

Vindicator Security Server-Version 1.0

V3 Head-End Server (IDS & ACS)-Version 4.3.2 SP VR11

V5 Network Security Appliance-Version 4.5.2 SP VR11

AES-1500Network Field Device-Version 4.3.2 SP VR11

Security Archive Workstation 2-Version 1.4.3.0

Vindicator Badge Manager 3-Version 2.0.26.7

Vindicator Site Commander-Version 1.3.0.7

Vindicator Area Commander-Version 1.1.0.7

Vindicator Premise Controller-Version 4.3.2

Vindicator PC Smart PAC (PCSP)-Version 6.0.0.1

Vindicator System Terminal-Version Win 10 LTSB

Assessment Subsystems:

Video Servers:

Advantor Video Management System (VMS) Software (For use only with Advantor ASN 6.0):

Advantor VMS Version #va-advantorms-3.3.22-1 (1/e15)

Advantor VMS Wall Version ds-vmx-3.3.1-3

Bosch Allegiant Matrix/Control System LTC 8600 and 8800

+ Broadware 4.80 / Cisco 5.1.1. Video Storage System (NOTE: Cisco renamed the 4.80 after purchasing Broadware.)

+ Video Image Control and Display System (VICADS) Version 4.0 Video Management System

+ Prometheus Security Group Global Inc. (PSSGI) (Formerly Open Roads Consulting, Inc.)

Video Image Control and Display System (VICADS) Version 4.1 Video Management system using Vindicator V5, Version 6 as the annunciator

+ PSSGI Video Image Control and Display System (VICADS) Version 4.1 Service Pack 1.6

Video Management system using Vindicator V5, Version 6.5 as the annunciator

PSSGI Video Image Control and Display System (VICADS) Version 4.1 Service Pack 1.6 Video Management system using Lynx Predator Elite Version 3.2.274p, subpatch p32274.1.13 as the annunciator

PSSGI Video Image Control and Display System (VICADS) Version 4.2.7 build 134 using Lynx Predator Elite Version 3.3.274p, subpatch p33274.1.13.33

PSSGI Video Image Control and Display System (VICADS) Version 4.2.7 build 134 using Vindicator 7 as the annunciator

PSSGI Video Image Control and Display System (VICADS) Version 4.1 Service Pack 2.0 Video Management system using Vindicator VCCP Windows 7 as the annunciator. Note: DefendIR Thermal imager protocol support, RadarWall, and Geoserver are not approved for use

PSSGI Video Image Control and Display System (VICADS) Version 4.1 Service Pack 2.4 Video Management system using Vindicator VCCP Windows 7 as the annunciator. Note: DefendIR Thermal imager protocol support, RadarWall, and Geoserver are not approved for use.

PSSG Video Image Control and Display System (VICADS) Version 4.3 using LPE v8.1 (Win 10)

*PSSG Video Image Control and Display System (VICADS) Version 4.3.2 using Vindicator (Win 10)

Assessment Cameras:

+ Bosch NWC-04-95-20P Internet Protocol (IP) Camera

+ Bosch NWC-04-95-20P (1/3 Format)

+ Bosch NBN-498-21P Internet Protocol (IP) Camera

+ Bosch Auto Dome VG 4-322-ECE1M

+ Bosch Auto Dome VG5-623-ECS

+ Bosch Auto Dome VG5-624-ECS

+ Bosch Auto Dome VG5-724-ECE2

Bosch Auto Dome 7000 Internet Protocol (IP) Camera with environmental housing

+ Bosch Dinion Internet Protocol (IP) 7000 Camera with environmental housing

Bosch DINION Internet Protocol (IP) Starlight 7000 HD (NBN-73013-BA)

Bosch NBN-63013-B

Bosch NBN-63023-B

Bosch NBN-71013-B

Bosch NBN-71022-B

+ Burle 300H Camera

+ Burle TC 351 Camera (1/2 inch format)

+ Cohu 4865 Camera (WS3) (2/3 inch format)

+ Cohu 48x Camera (KUMMSC) (2/3 inch format)

+ Cohu 4915/4912-3000 Camera (1/2 inch format)

Cohu 3930HD

Indigo Vision 512147 (PTZ)

Indigo Vision 11650-Audio-HD

+ IQ Eye 752 Internet Protocol (IP) Camera

+ Lumenera Le 165M-DN Internet Protocol (IP) Camera

Lumenera Le 165ME-DN Internet Protocol (IP) Camera with environmental housing

+ Lumenera Le 165MP-DN Internet Protocol (IP) Camera with environmental housing

+ Pelco ES31CBW35-2N Pan Tilt Zoom (PTZ) System

- + Pelco ES30C/ES31C Pan Tilt Zoom (PTZ) System (1/4 inch format) with/ without optional Wiper
- Pelco ES4136-2N Esprit ES system Pan Tilt Zoom (PTZ) System (1/4 inch format) with/ without optional Wiper
- + Pelco MC3651H-2 Interior Camera (1/3 inch format)
- + Pelco IXE20 IP Camera
- Pelco ES4036-5W Esprit Series, with and without wiper, standard and pressurized
- + Pelco ES40E36-5W Esprit Series, with and without wiper, standard and pressurized
- Pelco ES40/41 Series Positioning System, Analog, PTZ, w/wo wiper Esprit SE Standard & pressurized, model ES4036-5W
- Pelco ES40E/41E Series Positioning System, IP, PTZ, w/wo wiper Esprit SE Standard & Pressurized, Model ES40E36-5W
- Pelco IXE21 Internet Protocol (IP)
- Pelco P1220-ESR1 (PTZ)
- Pelco Sarix IXE Series Box Cameras w/ SureVision 3.0
- VICON SN680D-B-WNIR (PTZ)
- VICON IQ762WI-V6 Internet Protocol (IP)
- + Vivotek IP 7151
- Vivotek SD8364E (PTZ)
- Vivotek IP816A-HP (interior only)

Interior Sensors:

NOTE: Balanced Magnetic Switch (BMS) will not be used as a line of detection.

- + AN/GSS-20 Volumetric
- + AN/GSS-9(V) SA 1955 BMS
- + AN/GPS-15(V) Closed-Shelter Aircraft Sensor (C-SAS) (Volumetric)
- + AN/GSS-36(V) Open-Shelter Aircraft Sensor (O-SAS) (Volumetric)
- Banner Engineering Series Active Infrared (AIR), intrinsically safe, Model SMI30 (Must be installed as an array of individually reporting sensor points, for use across openings in areas where explosive fumes may be present)
- + Bosch DS 9370 PIR/MW (Volumetric)
- + Bosch DS 939 PIR (Volumetric)
- BEA LZR-s600
- BEA LZR-i30
- Dortronics 1110 x D x CT, Magnetic Lock/BMS
- Dortronics 1120 Series Electromagnetic Lock and BMS
- Eltec 862 Passive Infrared (PIR) Sensor (Wall)
- Fiber Sensys EX-35T Passive Infrared (PIR)
- Fiber Sensys AP2-20N Passive Infrared (PIR)
- *Fiber Sensys LD308SH
- *Fiber Sensys LD204S
- + General Electric (Sentrol) Model 2700 Series BMS
- General Electric (Sentrol) Model 2807T Explosion Proof Balanced Magnetic Switch (BMS)
- General Electric (Sentrol) Model 2507AH-L Wide Gap BMS

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General Electric (Sentrol) Model 2800 Series BMS
 + General Electric AP669 PIR (Volumetric)
 Magnasphere, High Security Sensor (HSS) Door Contact Switch, BMS, Version HSSL2S000
 Magnasphere L2C-101 (Concealed switch)/L2C 101A (Recessed Switch) Magnetic Contact Switch
 PL&E Communications AVT 234 (VMD) using Dinion analog infrared imagers, for interior applications only
 Securitron Group MSS-1 High Security Balanced Magnetic Switch
 East Coast Security Products Inc. ESM-6T Tandem Balanced Magnetic Switch
 Protech Passive Infrared and Microwave Intruder Detectors (PIRAMID) SDI-76-G (Volumetric)
 Protech Passive Infrared and Microwave Intruder Detectors (PIRAMID) SDI-77-D (Volumetric)
 Protech SDI-76M-HS1-H Volumetric (Coverage 60'x 40', Two Sensors in Combination)
 Protech SDI-76MW Volumetric (Coverage 60'x 40', Two Sensors in Combination)
 Protech SDI-77XL2-EX, Explosion Proof Volumetric
 Redscan RLS-3060SH Laser Scan Detector (Approved for wall and ceiling configurations)
 SightLogix SightSensor Video Motion Detection (VMD) using NS-90A Thermal Imager, for interior applications only.
 United Technologies Interlogix AP669 Mirror Optic PIR (Volumetric)
 +Visonic CH-1000 (Wall)
 +Visonic CH-1000/Xtalis ADPRO 18 WH PIR Combination (Ceiling) (Coverage 30'x 30')
 Tyco Visonic Disc 360 Passive Infrared Sensor (Ceiling) (Coverage 360 Degree)
 Maxiris 3000/3100 Active IR Interior Sensor
 + AN/GSS-39(V) Interior Intrusion Detection System. Components include:
 -- DR-301 -- DR-558 -- DR-851 -- HT-50B
 -- HT-50DC -- HT-100B -- HT-100BC -- SDI-76A
 -- SDI-77C -- SD-80B -- SD-80EHB -- SD-150B
 -- SD-150EHB -- SRN-2000H

Exterior Sensors:

The following sensors are approved for use as a standalone line of detection:
 EAG of Americas Infrared Intrusion Detection System 4/2/2 (IIDS4/2/2) Active Infrared Sensor
 EAG of Americas Infrared Intrusion Detection System 4/4/2/2/2 w/ PSTC
 EAG of Americas Intrusion Detection System 4/2 (IDS 4/2) Active Infrared Sensor
 IR Global Infrared Intrusion Detection System 4/4/2
 IR Global IRG-509-15M
 Microtrack buried line sensor (NOTE: Not approved for use in Northern tier, or areas where snow and ice accumulations are normal, pending further testing)
 Senstar Omnitrax buried line sensor firmware version MSP v2.81 w/Field Programmable Gate Array (FPGA) v13.05
 Senstar Omnitrax buried line sensor w/Firmware Version MSP v2.90 w/FPGA v13.93
 Senstar Ultrawave Detection Sensor TE (W/Whiteman AFB tamper protection modification)
 + Perimitrax, Buried Cable Intrusion Detection Sensor
 Protect (PIRAMID) / SDI-76-XL-MIL, PIR and Monostatic Microwave Sensor
 Protech Sorhea Technology G-Fence 600 Zoning (600Z) System
 Protech Sorhea Technology G-Fence 600 Zoning (600Z) System culvert configuration
 Protech Maxiris 3100 Active Infrared Barrier (100 meter)

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- + Racon Single Stack; Barksdale Configuration - single stack, basket weave configuration with double stacked sensors at the corners
- + Racon Double Stack
- + Racon 16000-4 (Microwave) Sensor
- + Racon 14000-32 Microwave Sensor
- + Racon MPS-4100 (Microwave)
- + Racon MPS-14000-1 (Microwave)
- Senstar UltraWave Microwave Detection Sensor
- + Senstar Sentrax Short Ported Coaxial Cable Sensor (SPCS), large and small diameter cable, in the straight-line configuration
- + Birdeye Model IX Infrared Perimeter Detection System, up to 120m
- DeTekion Defensor 100 Fence Sensor
- Detekion Defensor 100 sensor system with the GD-5000 Eliminator signal analyzer
- DeTekion Vertical Taut Wire Sensor 400 (VTW-400), full fence or out-rigger configuration
- ECSI Infrared Pulsed Intrusion Detection System (IPIDS), up to 80m with spring loaded mount bases and 100m with solid concrete bases
- Fiber SenSys Fiber Defender FD200/300 series. The following models have been tested: 331, 332, 341, and 342. Note: The 331 and 332 series is with “Sensitive” Lead-in cables whereas the 341 and 342 series is with the “Insensitive” Lead-in cables. Also, the last digit (1 or 2) indicates a single channel processor or dual channel processor. Additional note: The 33x series is normally utilized for TASS applications with the 34x series being utilized for all hardwired configurations.
- Fiber Sensys Fiber Defender FD-342, v4.47
- *Fiber Sensys Fiber Defender FD-343, v4.47 (Culvert Configuration)
- + Fence Protection System 2-2R (FPS-2-2R)
- FlexZone Fence Sensor (NOTE: Not approved for use in Northern tier, or areas where snow and ice accumulations are normal, pending further testing)
- RBtec Ironclad Fence Sensor Double Run Configuration
- Southwest Microwave Intrepid Micropoint. (NOTE: Not approved for use in Northern tier, or areas where snow and ice accumulations are normal, pending further testing)
- tier, or areas where snow and ice accumulations are normal, pending further testing)
- Southwest Microwave Intrepid Micropoint II.
- Southwest (SW) Microwave 385 Monostatic Sensor, up to 100m
- SW Microwave 310 Bi-static Sensor, up to 100m
- Southwest Microwave 460B Active Infrared Exterior Sensor
- Southwest Microwave 330 Digital Microwave System
- Fiber Optics Intrusion Detection System (FO-IDS), Fiber Optic Sensor System (FOSS) Models 100 and 200
- Fiber SenSys Fiber Defender 525 (Note: Not approved for use in Northern tier, or areas where snow and ice accumulations are normal, pending further testing)

The following sensors in combination are approved for use as a line of detection with fence climber enhancement detection:

+ Enhanced DTR-90 Vertical Taut Wire (VTW) Sensor, the DTR 90 “Y” VTW Sensor, or the VTW 400 Sensor installed at the top of the fence with any one of the following sensors installed on the fence:

Fiber SenSys Fiber Defender FD300 series. The following models have been tested: 331, 332, 341, and 342.

Fiber Optics Intrusion Detection System (FO-IDS), Fiber Optic Sensor System (FOSS) Models 100 and 200

+ Fence Protection System 2 (FPS-2)

+ Fence Protection System 2-2R (FPS-2-2R)

Wide Area Detection/Approach Zone Sensors:

+ PSRS STS-350 (FLIR/ICx) Ground Based Radar used as an approach sensor out to 125 meters (crawlers) as described below: ICX application software version 2.4.41.12 Firmware version 3.4.30 dated November 2, 2007.

+ PSRS STS-350 (FLIR/ICx) with control station application software version 2.4.41.12 or when integrated with Will Burt Annunciator Version 3.2.274p, subpatch p32274.1.13.

FLIR Ranger 1 Perimeter Surveillance Radar (700 meters)

FLIR Ranger 2 Perimeter Surveillance Radar (1400 meters)

FLIR Ranger 3 Perimeter Surveillance Radar (2800 meters)

Magos SR-500 perimeter surveillance system when integrated with the Advantor Systems ASN, Version 6.2. MASS Version 2.24.10053, SR-500 Radar Version 3.64 and Radar Manager Version 1.5

PL-3 and Below

In addition to all of the above components, the following equipment is approved for use in the protection of PL-3 and below assets:

Command, Control Display Equipment (CCDE):

TASS 7.0 Annunciator (At deployed locations only)

TASS 6.0.1.A Annunciator (At deployed locations only)

Assessment Subsystems:

General Dynamics VZ-250 LRTI 23164-600

General Dynamics VZ-250 LRTI 23164Z1-600 (Improved Cooling)

General Dynamics LRTI-w/CCTV

C907891 Complete Kit

TICC/PTH only C907892

FLIR ThermoVision Multi-Sensor System (a.k.a. SLRTI)

+ T-2000 LRTI w/CCTV Complete Kit IBDSS1000-085

+ T-2000 LRTI w/CCTV TICC/PTH only IBDSS1000-086

T-3000 LRTI w/CCTV Complete Kit FDTA-199

T-3000 LRTI w/CCTV TICC/PTH only

+ Surveillance Thermal Imager (WSTI) Sentry I and Sentry II

FLIR DEFENDIR MS-UC 640 30/90MM CZ

+ Short Range Thermal Imager; Fixed/Mounted (SRTI F/M)

+ DiOP Thermal Imager 180/60mm Thermal Upgrade Kit (TUK)

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Interior Sensors: No Additional

Exterior Sensors: No Additional

Certified Air Force Test Sites:

Test Area C-3, Eglin AFB FL, and Cold Weather Test Site, Grand Forks AFB, ND are approved for conducting operational tests and evaluations on all IDS equipment.

2. A listing of equipment approved for use in PL-1 Nuclear applications is available in a separate letter maintained by the POC listed below.
3. This memorandum supersedes the 15 Aug 19 IDS approval memorandum. [REDACTED]

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