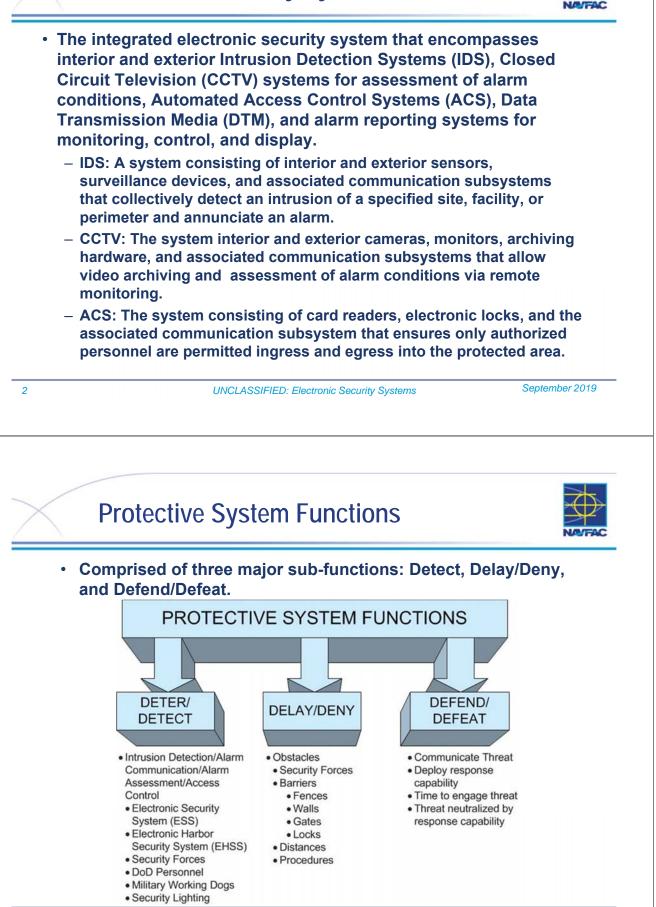


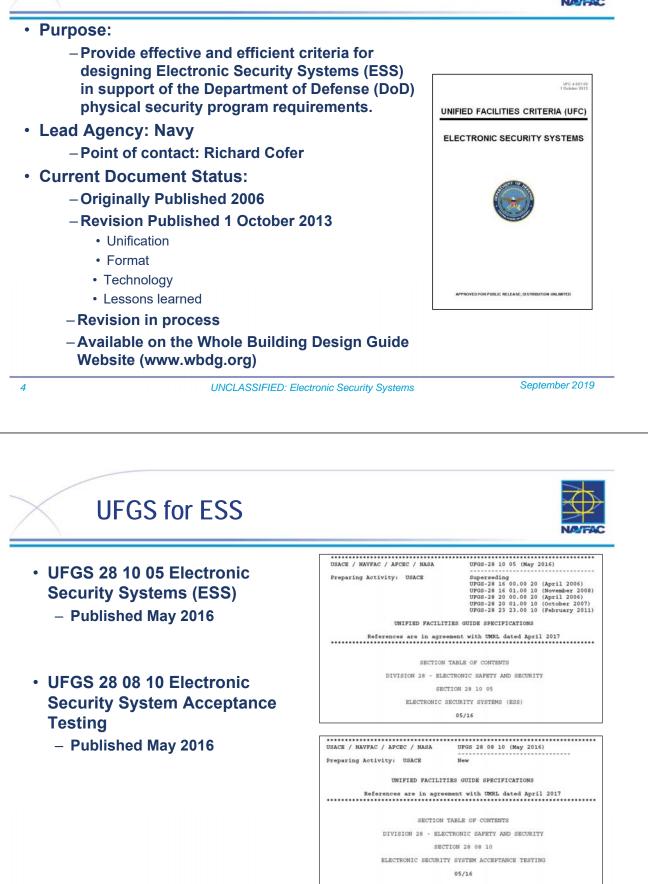
## Electronic Security System (ESS)





## UFC 4-021-02 Electronic Security Systems



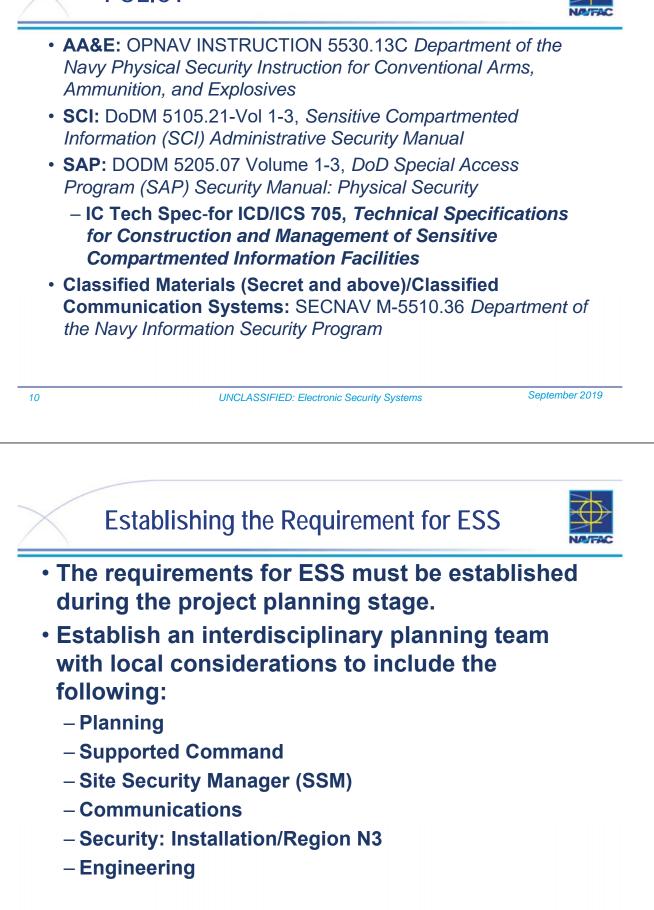




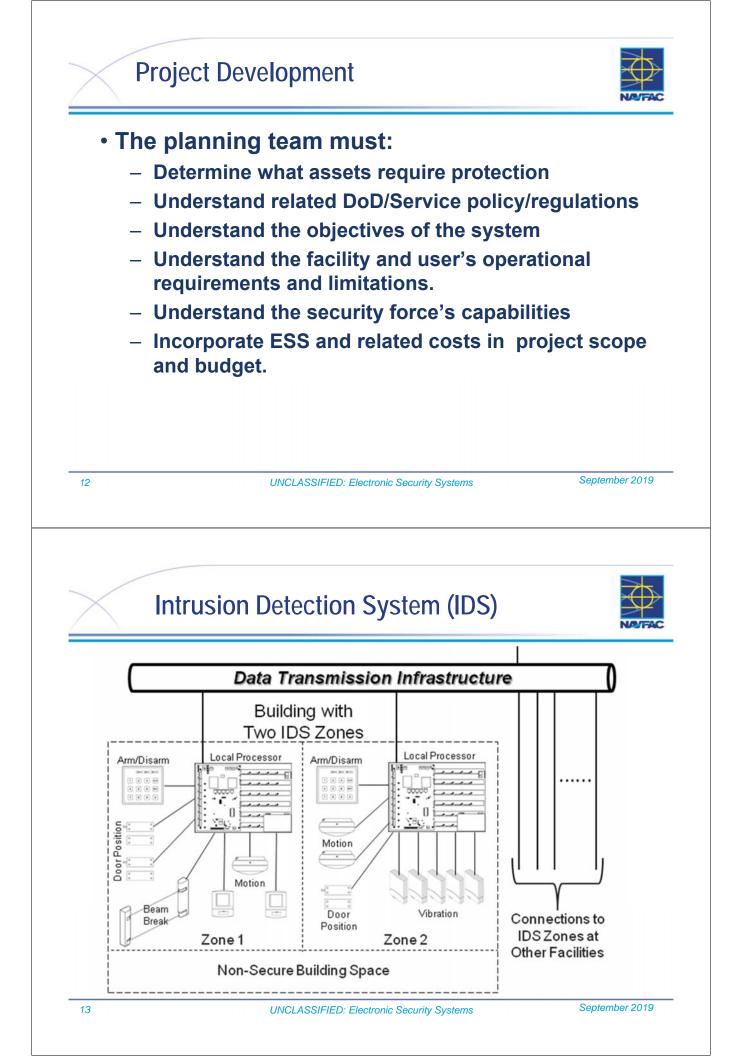


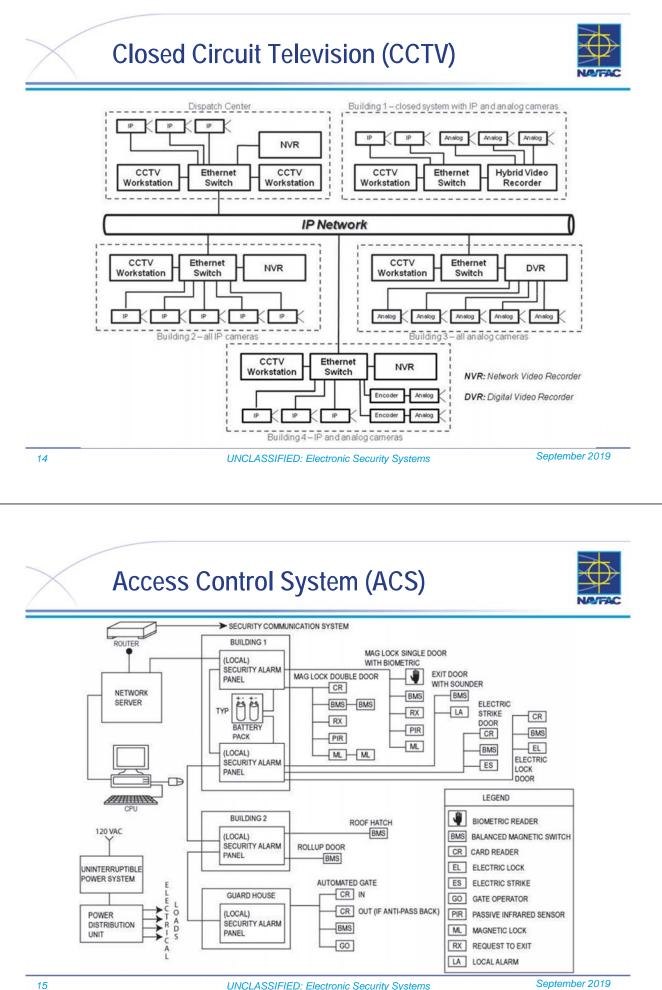
## POLICY

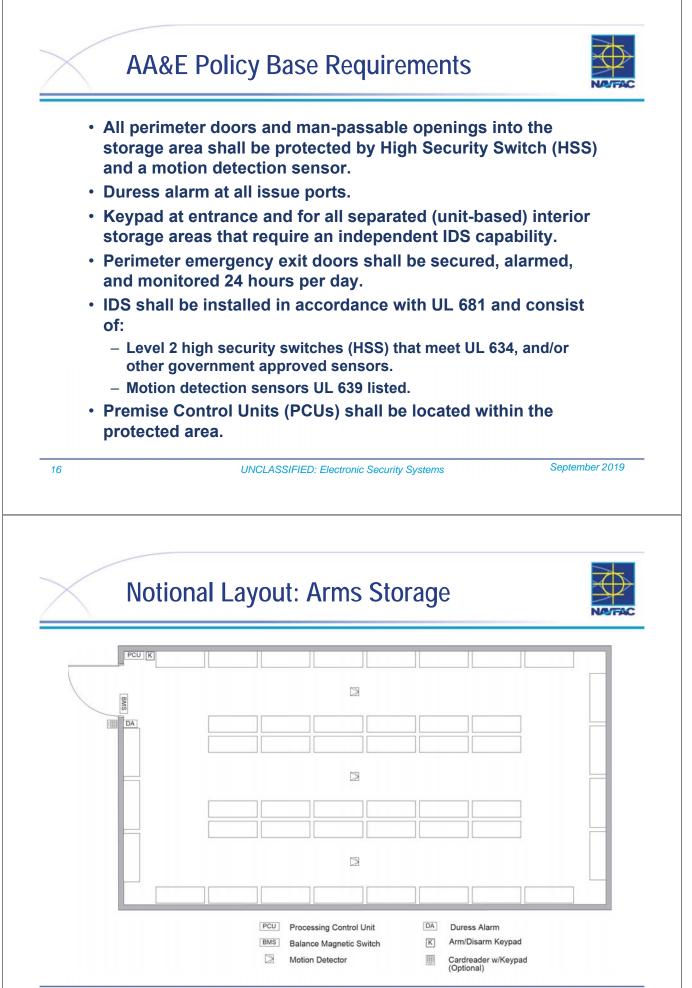


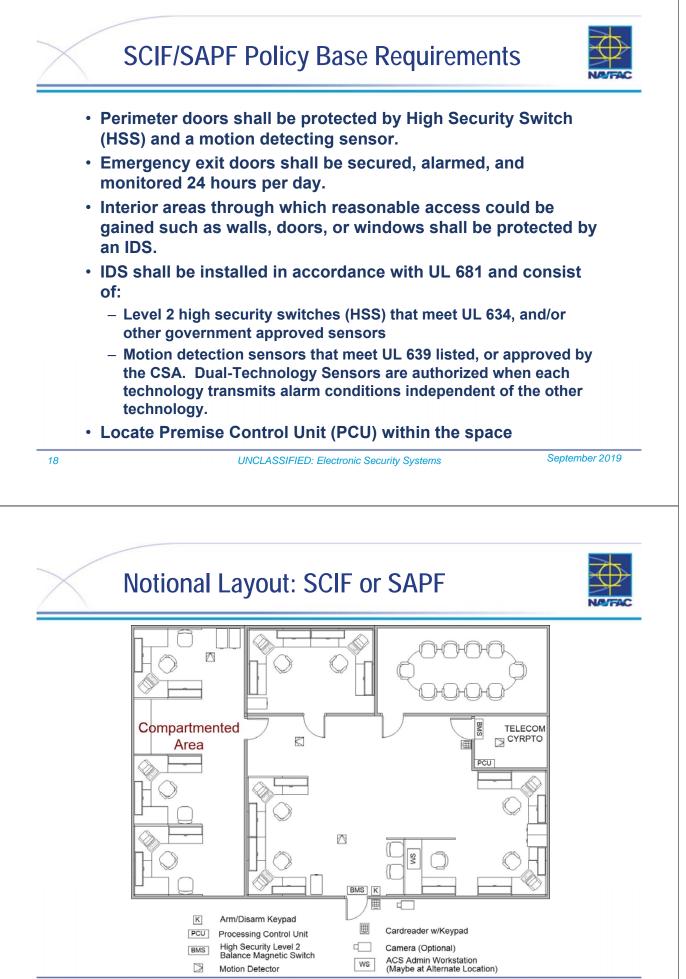


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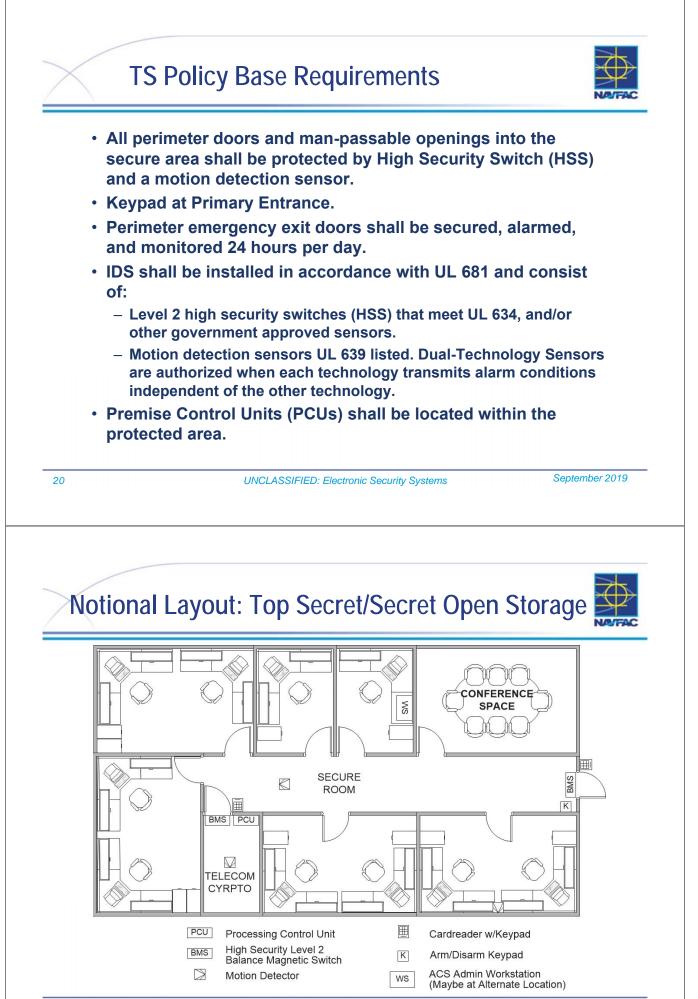


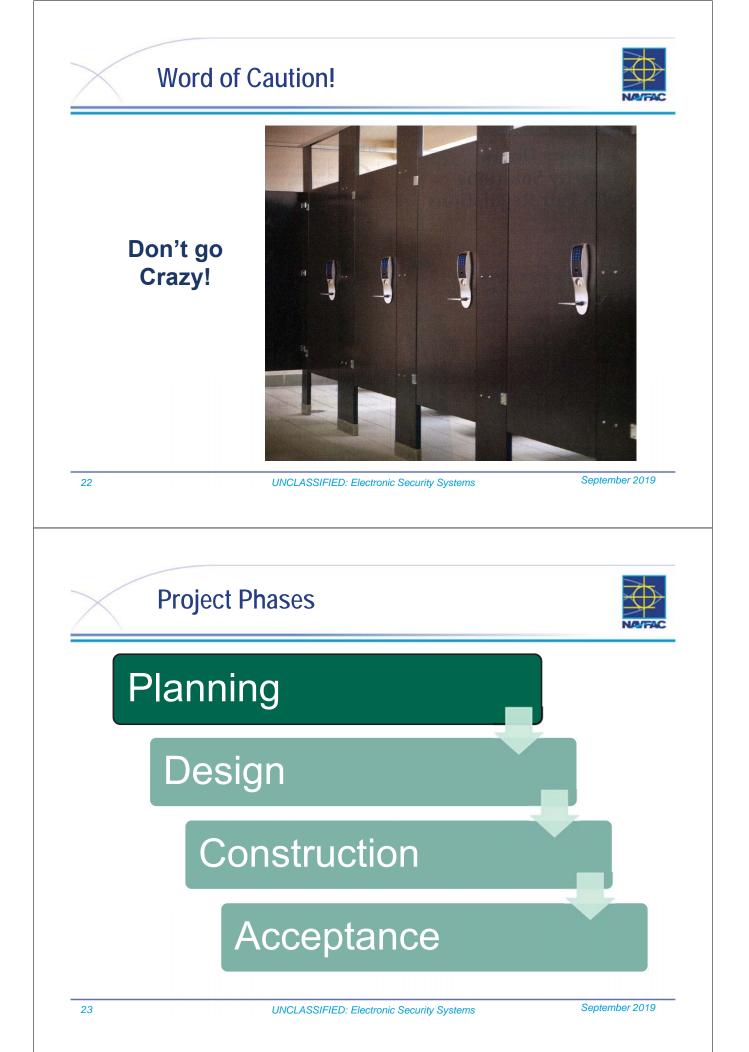


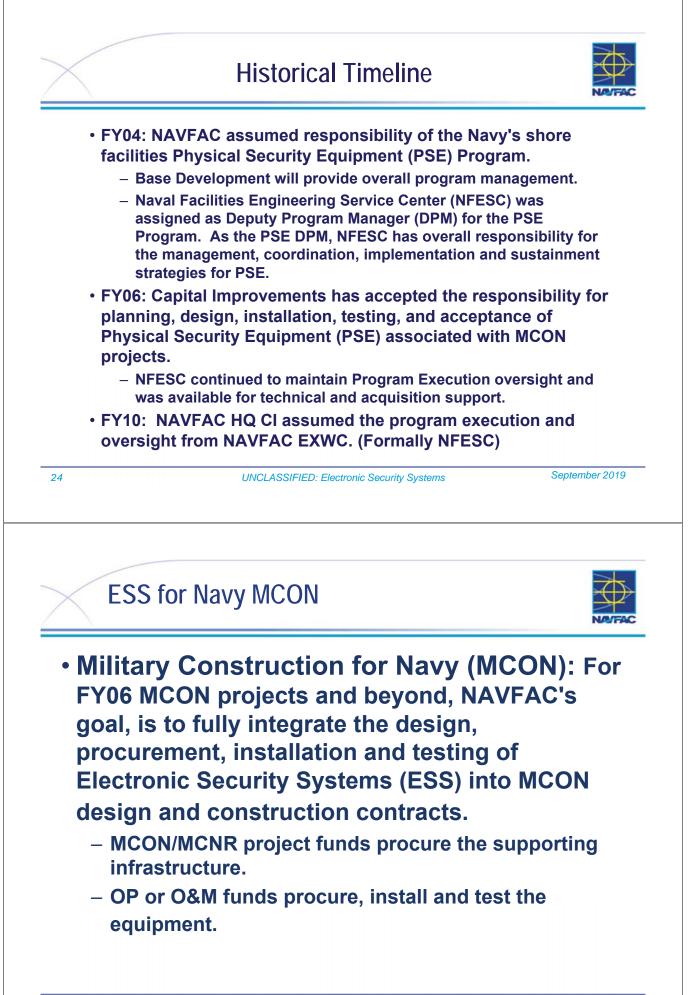




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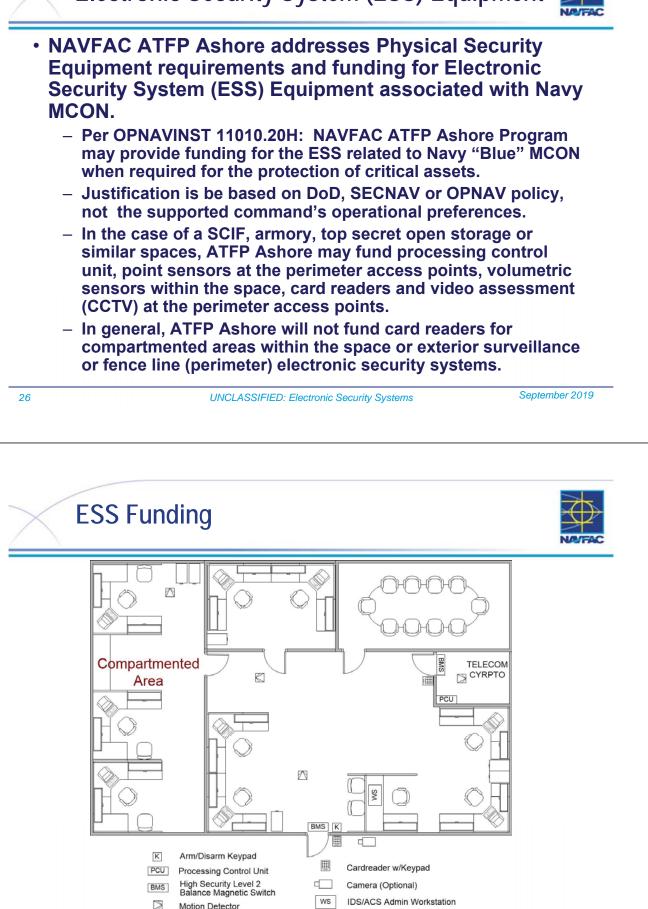






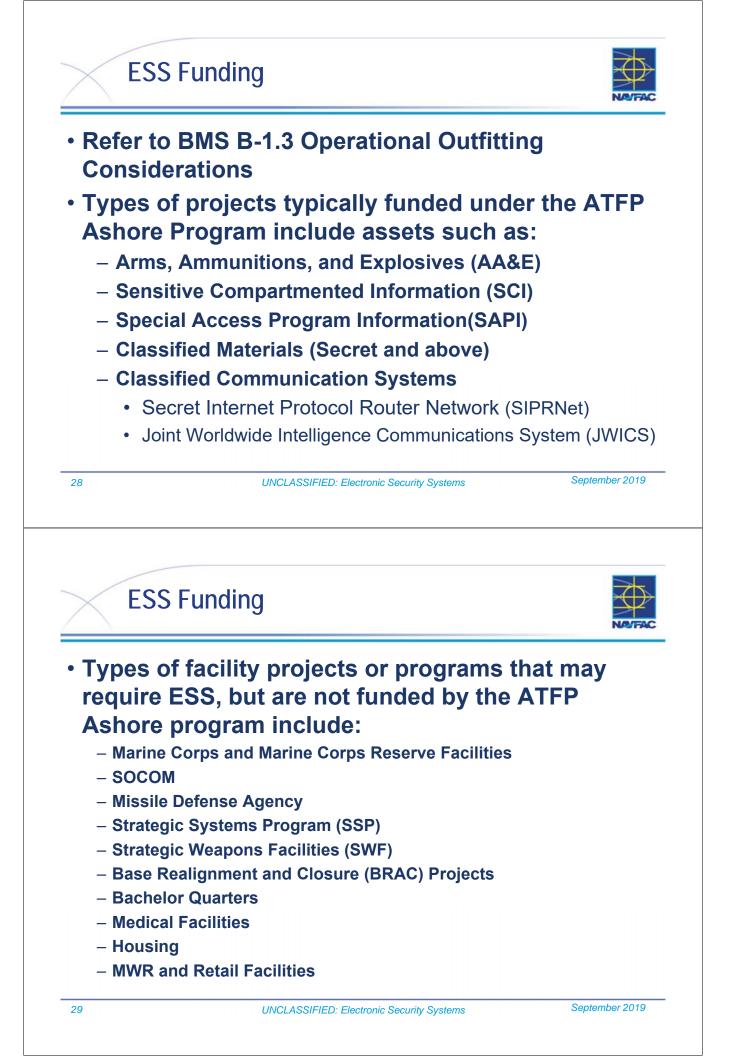


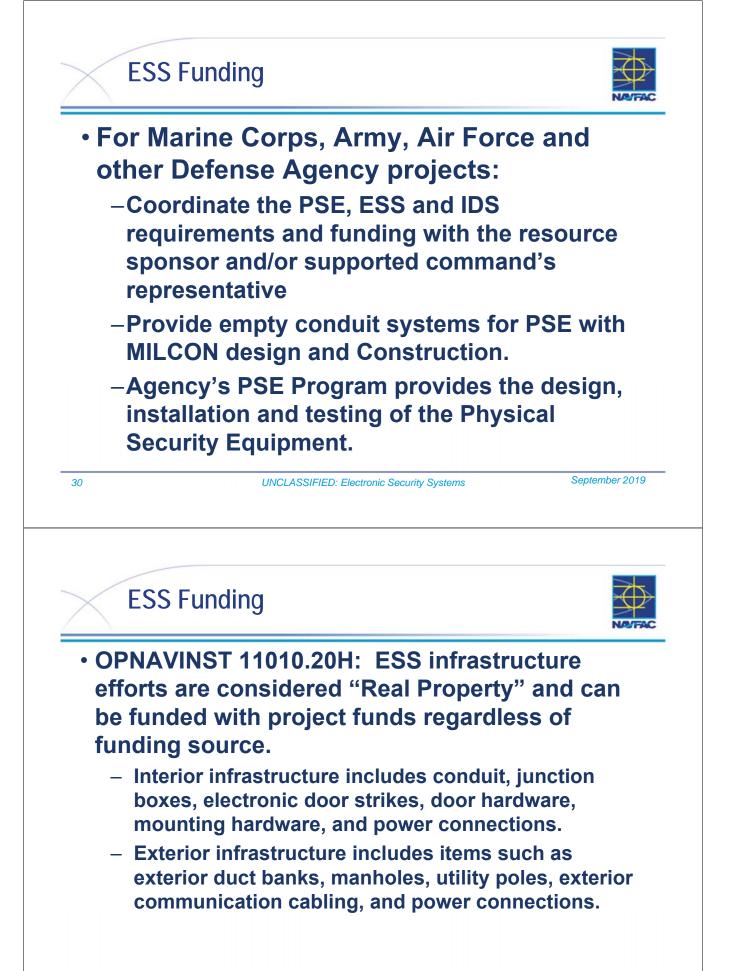


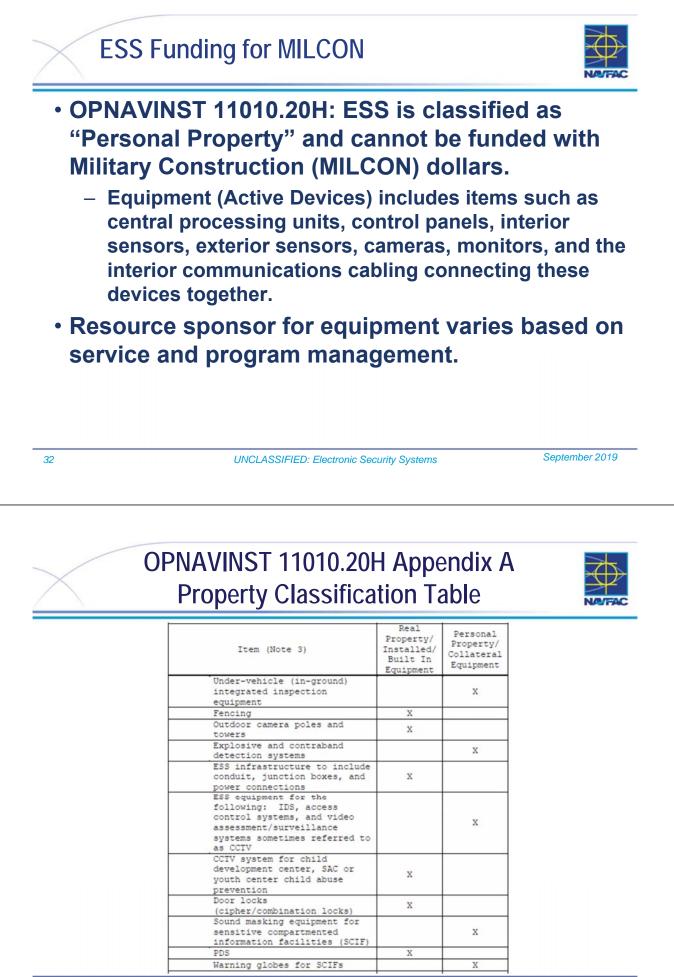


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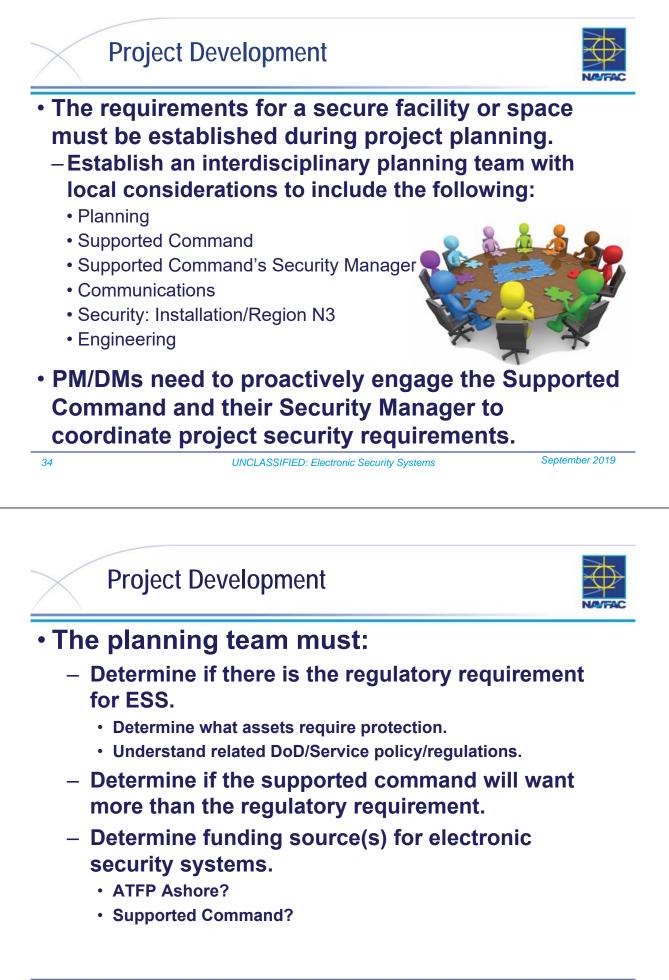
Motion Detector

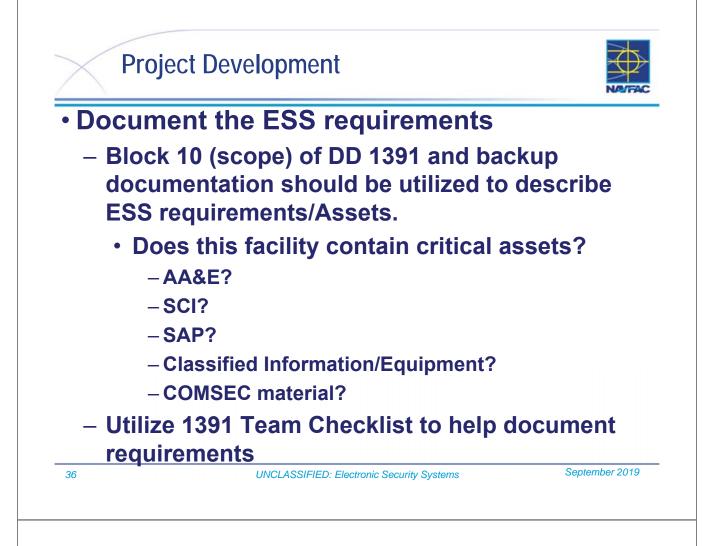






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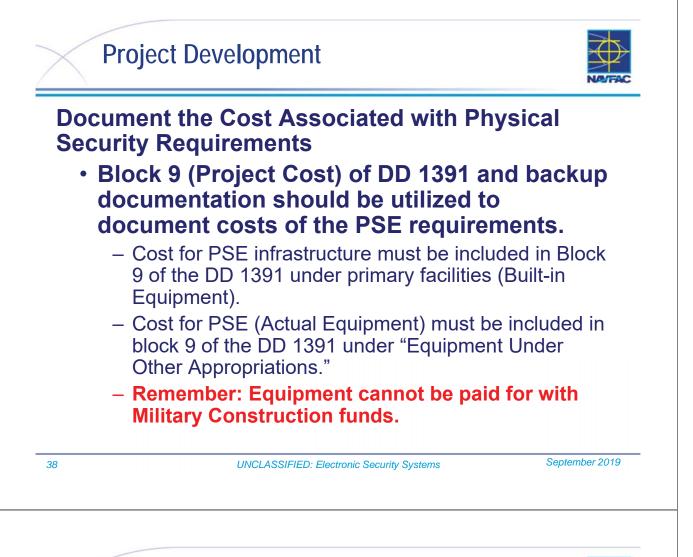




## 1391 Team Checklist - PS



ID#	Keyword	Item
4.03	system	Coordinate Electronic Security Systems (ESS) / Physical Security Equipment (PSE) including Intrusion Detection Systems (IDS) with NAVFACHQ CI ATFP, User/Operator, and Installation's BCO.
7.12	SCIE	Determine whether this project will need to include a Sensitive Compartmented Information Facility (SCIF) or a Special Access Program Facility (SAPF). SCIFs and SAPFs have special security requirements such as opening restrictions, special walls, and sound attenuation. For each SCIF or SAPF the following information should be provided: - SCIF ID# assigned by Accrediting Official (AO) or SAPF ID# - Space requirement (square feet) - Site Security Manager (SSM) contact information (name, phone#, email) - SCIF/SAPF Preliminary Construction Security Plan (CSP)
7.13		Determine if this project requires a Controlled Access Area (CAA) other than a SCIF or SAPF within the facility. If so, indicate the number and square footage of each CAA.







### **Tools for Establishing Budgets for ESS**

- ESS Budget Estimator:
  - Excel Spreadsheet intended to provide DoD facility planners, cost estimators and designers a unified method of budgeting for Electronic Security Systems for facilities. This tool is intended to be used for budget estimating only and work within OSD and DD 1391 guidelines. Tool will output budget cost for ESS equipment and the associated infrastructure.

### Gate Automation Equipment Estimator:

 Excel Spreadsheet intended to provide DoD facility planners, cost estimators and designers a unified method of budgeting for Gate Automation equipment only. This tool does not provide infrastructure costs.

## ESS Budget Estimator



1.Component Navy	-	ruction Program (ESS) Budget Estimator Ver 1.0	2. Date 2/6/2008	
3. Installation and Location/UIC 4. Project Title				
ANYWHERE USA		ESS Project EXAMPLE		
5. Category Code	6. Project Number	7. User Defined	8.User Defined	
	9. Us	er Input		
Facility				
A. Enter the size of t	he facility in square feet.		10,000	
B. Enter the number	of floors.		3	
	nclude exterior (building façade) the facility)? Enter Yes or No.	access control (i.e. card readers	Yes	
	nclude interior volumetric senso her than the interior CAA's or S(	•	No	
E. Does this project i CAA's or SCIF's? Ent	nclude interior closed circuit TV er Yes or No.	in areas other than the interior	No	
<b>Building Perime</b>	ter			
	nclude exterior (building façade) ctors protecting critical exterior	volumetric sensors (i.e. exterior assets)? Enter Yes or No.	No	
	nclude exterior (building façade) wing exterior doors and around f		Yes	
	LINCLASSIEIED: Ela	ctronic Security Systems	Septer	

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## ESS Budget Estimator



Site Perimeter	
H. Does this project include exterior (site perimeter) access control (i.e. card readers at perimeter vehicle or pedestrian gates)? Enter Yes or No.	No
<ol> <li>Does this project include exterior (site perimeter) intrusion detection (i.e. buried or fence mounted intrusion sensors)? Enter Yes or No.</li> </ol>	No
J. Does this project include exterior (site perimeter) closed circuit TV (i.e. cameras viewing perimeter boundary of site)? Enter Yes or No.	No
K. Enter length of perimeter fence to be protected in linear feet.	O
Interior Enclaves	
L. Does this project include interior Sensitive Compartmented Information Facility's (SCIF's)? How many?	2
M. Enter the average size of the interior SCIF's in square feet.	400
N. Does this project include interior Controlled Access Areas (CAA's) in addition to SCIF's? How many?	1
O. Enter the average size of the interior CAA's in square feet.	450
Site Specifics	
P. Does this project include local monitoring (at the facility) or remote monitoring (at a central monitoring station) of the electronic security system? Enter Locally, Remotely,	
or Both. O. Dese this project warment his patrice devices for second southol? Entry Yes on No.	Both No
Q. Does this project warrant biometric devices for access control? Enter Yes or No. R. Does this project warrant thermal imaging for the closed circuit television cameras?	NU
Enter Yes or No.	No
S. Does this project warrant video analytics/video content analysis for perimeter intrusion detection? Enter Yes or No"	No
T. What is the overall Level of Protection requirement of the facility? Enter Low, Medium, or High.	Low

## ESS Budget Estimator (Output)



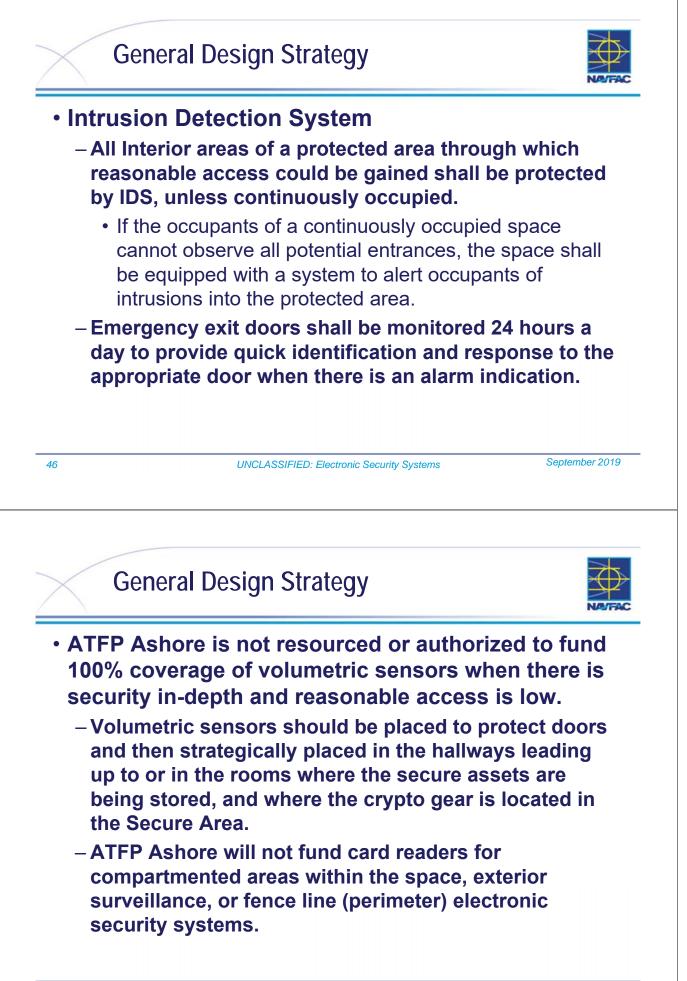
System	Supporting Infrastructure	PSE Equipment	Total
Controlled Access Areas	4,345	14,842	19,187
Sensitive Compartmented Information Facilities	50,281	80,001	130,282
Interior Intrusion Detection Zones	0	0	0
Interior Closed Circuit Television Zones	0	0	0
Exterior (Bldg Façade) Access Control Zones	4,212	9,627	13,840
Exterior (Bldg Façade) Intrusion Detection Zones	0	0	0
Exterior (Bldg Facade) CCTV Zones	2,852	3,842	6,694
Perimeter Access Control Zones	0	0	0
Perimeter Intrustion Detection Zones	0	0	0
Perimeter Closed Circuit Television Zones	0	0	0
Biometric Access Control Zones	0	0	0
Thermal Imaging Zones	0	0	0
Video Analytic Zones	0	0	0
Exterior (Bldg Façade) Monitored Door Zones	0	0	0
ACS Local Monitoring Zones	1,492	7,964	9,456
CCTV Local Monitoring Zones	2,985	19,617	22,602
ACS Remote Monitoring Zones	2,985	14,843	17,828
CCTV Remote Monitoring Zones	5,970	48,124	54,093
SUBTOTAL	75,122	198,860	273,982
User Input (only applied to PSE Equipment)			
1. ACF 0.94		-11.932	
2. Contingency 10 %	0	18,693	
3. SIOH 8 9		16,450	
4. Escalation 1.15		33,311	
User Input (for OCONUS Mobilization/Per Diem)			
5 OCONUS S		0	
TOTAL	75,122	255,382	330,504
Total OP Request \$ 255,381.90			
Total MILCON Request \$ 75,121.75			

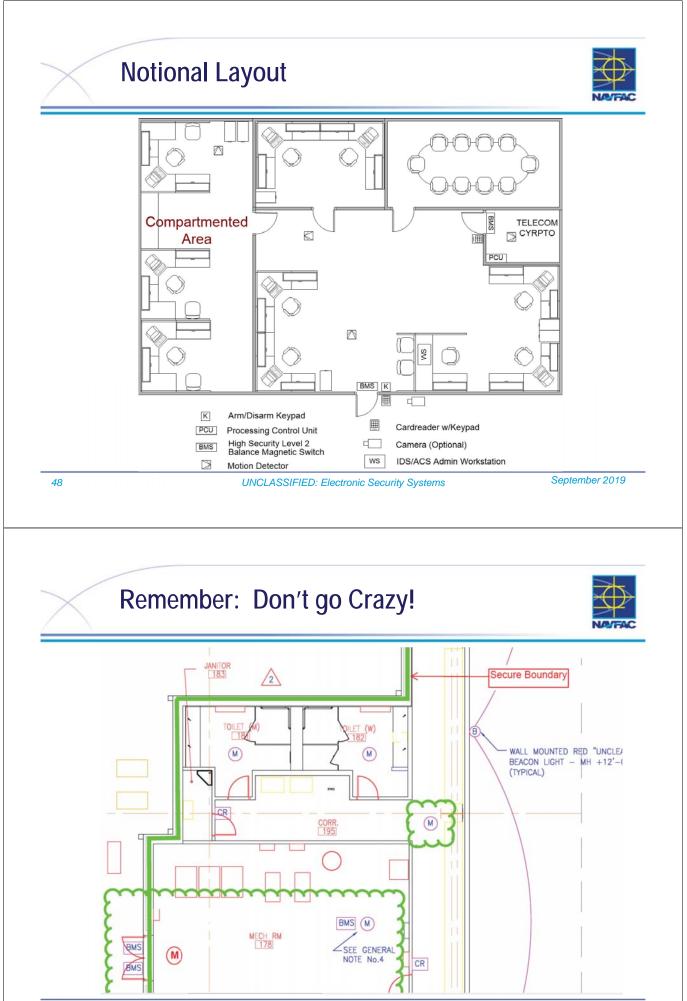
## Gate Automation Equipment Estimator



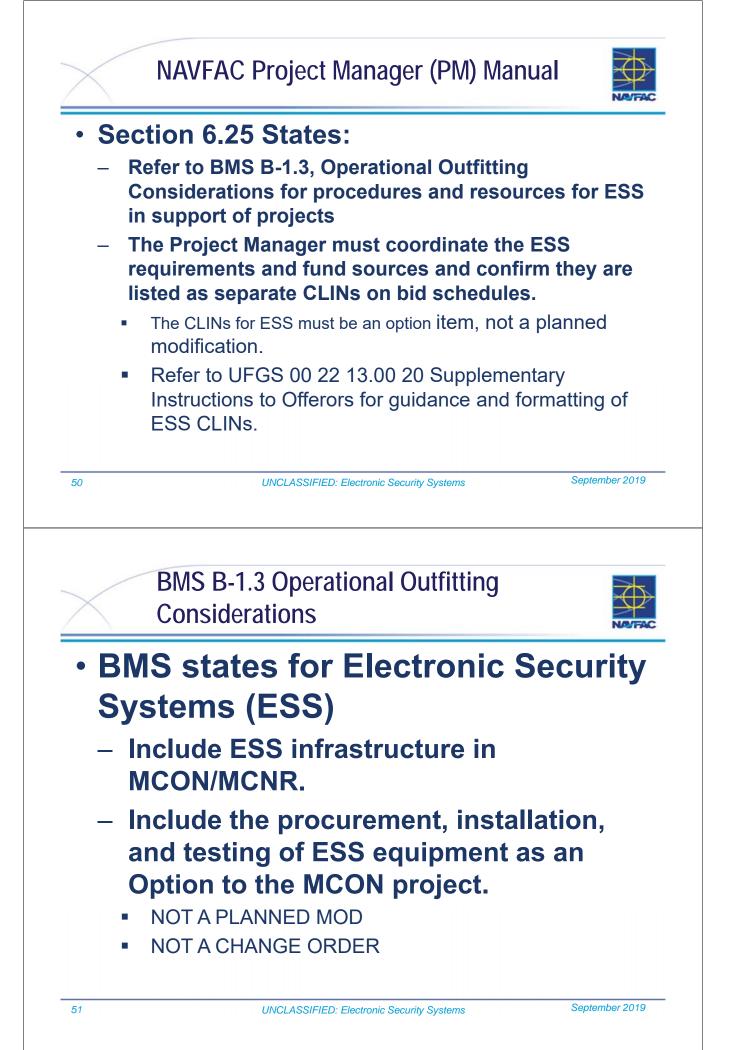
Gate Automati	on Budget Estimator (Ver 12.07)	
Estimated by:		
Project Title:		
	NAVSTA Anywhere	
Project Number:		
Fiscal Year:	-	
	12/14/2007	
ACF:		
Escalation:		
Ebourdoni		
Number of Gates	1	
Number in Ingress Lanes	4	
Number of Egress Lanes	2	
Number of Pedestrian Gates	1	
Number of Security Dispatch Stations	1	
Number of Badging Stations	2	
Number of Badges/Assets	1000	
	Equipment Cost	\$251,607
	System Design Cost	\$25,161
	System Install/Programming Cost	\$75,482
	Integration, Testing, & Training	\$35,225
	Subtotal:	\$387,474
	ACF Adjustment:	\$364,226
	Escallation:	\$418,860
	Contingency (5.0%):	\$20,943
	Total Contract Cost:	\$439,803
	SIOH (8.0%):	\$35,184
	Subtotal:	\$474,987
	Total OPN Funding Request :	\$480,000







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# BMS B-1.3 Operational Outfitting Considerations



- MCON Project ESS Option for Navy MCON Project
  - Stand alone option for procurement, installation, testing and training.
  - Period to Exercise the Option should be maximized to evaluate procurement options.
  - When the MCON Bids are Received:
    - Evaluate the cost of the ESS Option.
    - Inform the ESS funding source/s of actual cost and when funds will be required in order to exercise the option.
- Considerations for Determining When to Request ESS Funding
  - Contractor needs time to develop the Installation Design Plan (IDP) usually 2-3 months.
  - Contractor is using COTS so procuring the ESS near the end of the construction will ensure the equipment is the latest design model and readily available.
- Additional ways to obtain the ESS if the bid price is unreasonably high or the option expires.
  - Award a separate stand alone contract for the ESS.



## UFGS 00 22 13.00 20 Supplementary Instructions to Offerors



][ CLIN 0003 Option Item No. 2 - Price includes the following:

NOTE: The following option is an example of an **Option item for Electronic Security System (ESS)** when required in the project. Edit for each project. Use this paragraph when one option item is required. Add additional paragraphs if more than one option item is required. An example would be when one fund source pays for the equipment required to meet the policy based requirements, and the Supported Command provides funding for the additional equipment. (i.e. CCTV system for perimeter surveillance). NOTE: The paragraph below is tailored for Design-Bid-Build (DBB) and Design-Build (DB). Choose the first bracketed option for DBB or the second bracketed option for DB. 

### UFGS 00 22 13.00 20 Supplementary Instructions to Offerors Price for provision, design, installation, testing, and associated training for the Electronic Security System (ESS) equipment necessary for this facility. The ESS includes, but is not limited to, Intrusion Detection System (IDS), Access Control System (ACS), and Closed Circuit Television (CCTV) complete in accordance with the [drawings and specifications ][RFP]. Equipment includes items such as Premise Control Units (PCU), central processing units, field panels, sensors, card readers, keypads, cameras, switches, video recorders, workstations, and the communication cabling connecting these devices together. Include the price for supporting, permanent infrastructure under CLIN 0001 - BASE PRICE. Interior supporting infrastructure includes items such as conduit, junction boxes, electronic door strikes, door hardware, mounting hardware, and power connections. Exterior supporting infrastructure includes items such as exterior ductbanks, manholes, utility poles, utility connections, and power connections. CLIN DESCRIPTION TOTAL PRICE FOR CLIN 0003 Electronic Security System (ESS) Ś equipment

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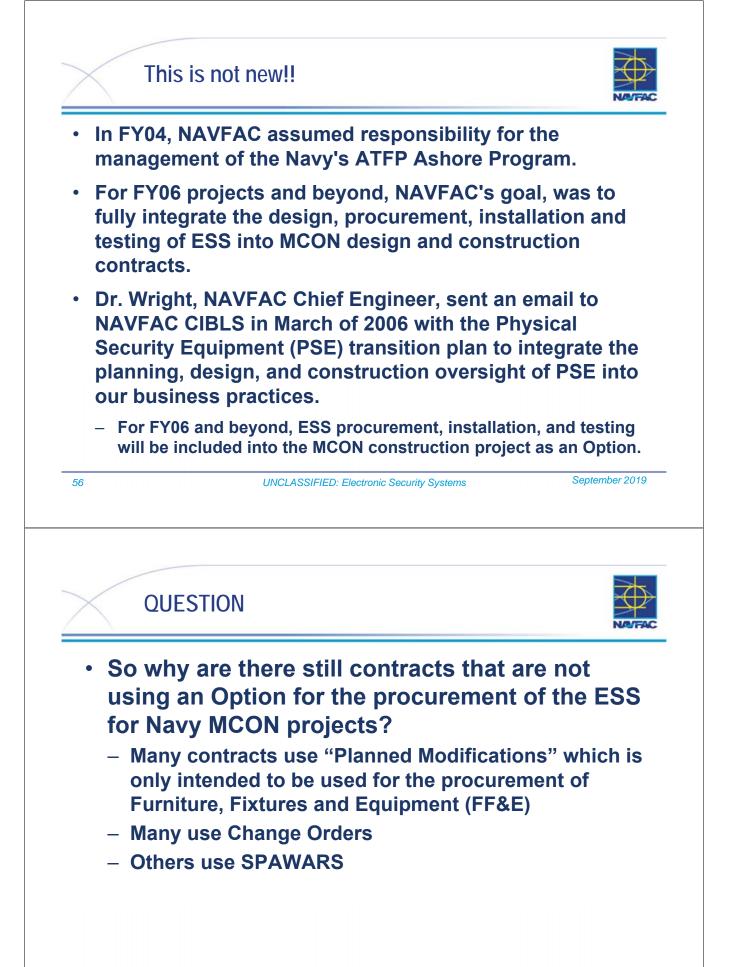
### • SAMPLE BID SCHEDULE FOR DESIGN-BID-BUILD PROJECT

CLIN 0002 Option Item No. 1 - Price includes the following:

Price for provision, design, installation, testing, and associated training for the Electronic Security System (ESS) equipment necessary for this facility. The ESS includes but not limited to Intrusion Detection System (IDS), Access Control System (ACS), and Closed Circuit Television (CCTV) complete in accordance with the drawings and specifications. Equipment includes items such as Premise Control Units (PCU), central processing units, field panels, sensors, card readers, keypads, cameras, switches, video recorders, workstations, and the communication cabling connecting these devices together.

Provide the supporting infrastructure associated with ESS, such as conduit, junction boxes, electronic door strikes, door hardware, mounting hardware, power connections, exterior ductbanks, manholes, utility poles, utility connections, and power connections in CLIN 0001 - BASE PRICE.

CLIN	DESCRIPTION	PRICE
0002	Electronic Security System (ESS) equipment	\$





## **Roles and Responsibilities**





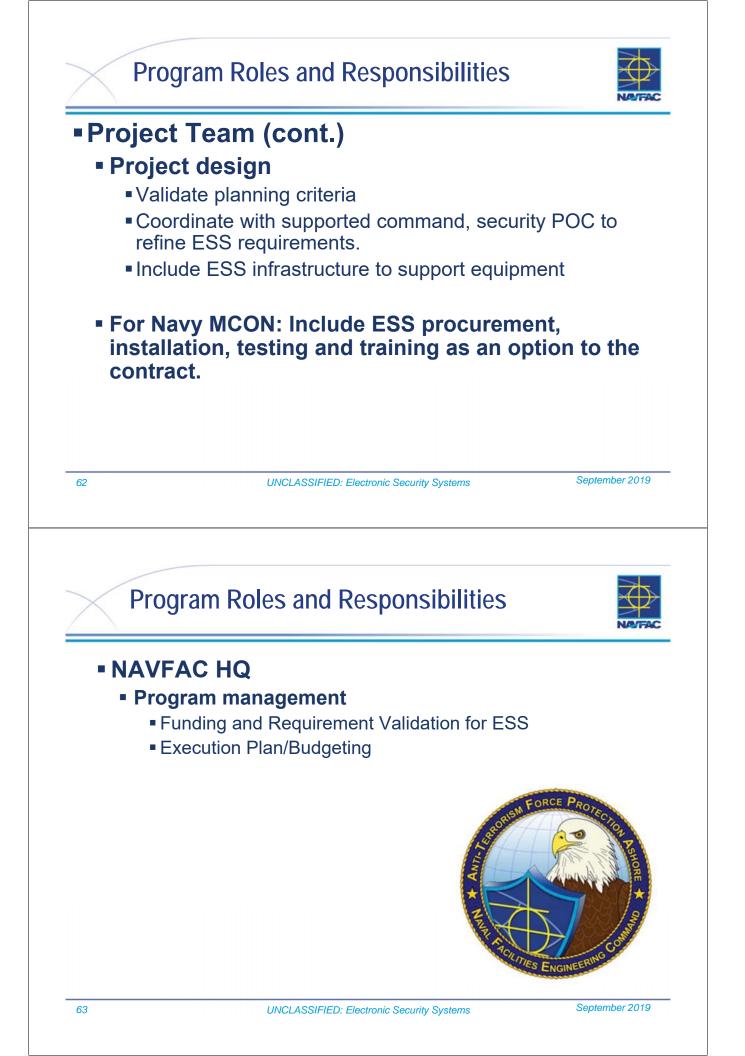
## Program Roles and Responsibilities

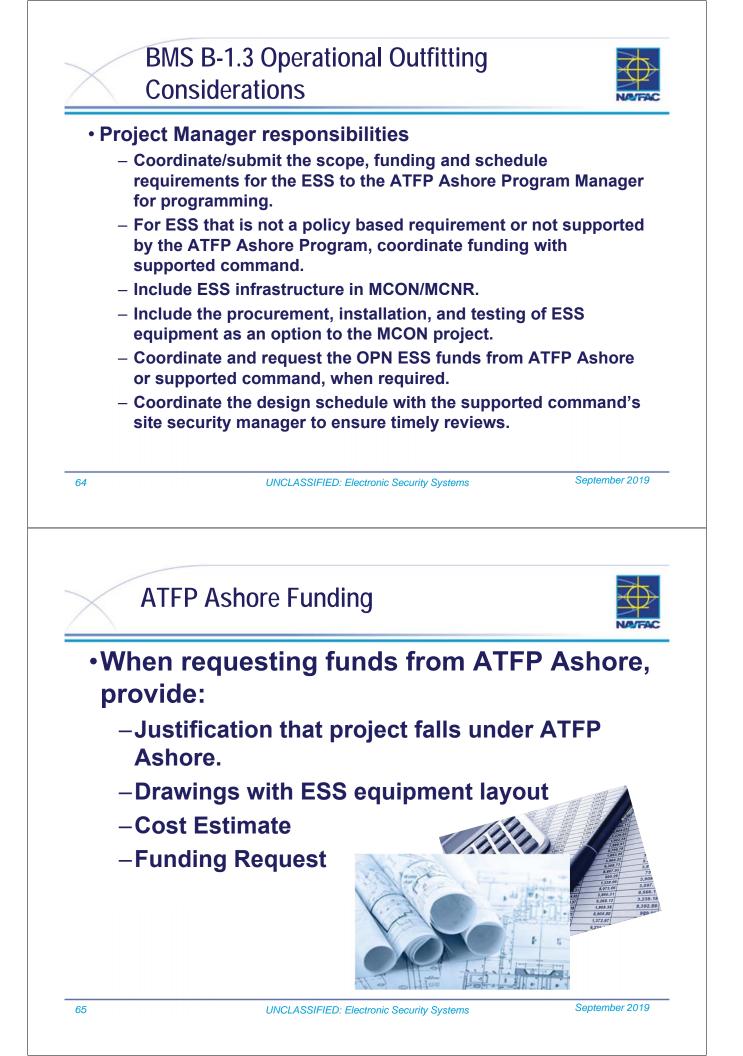


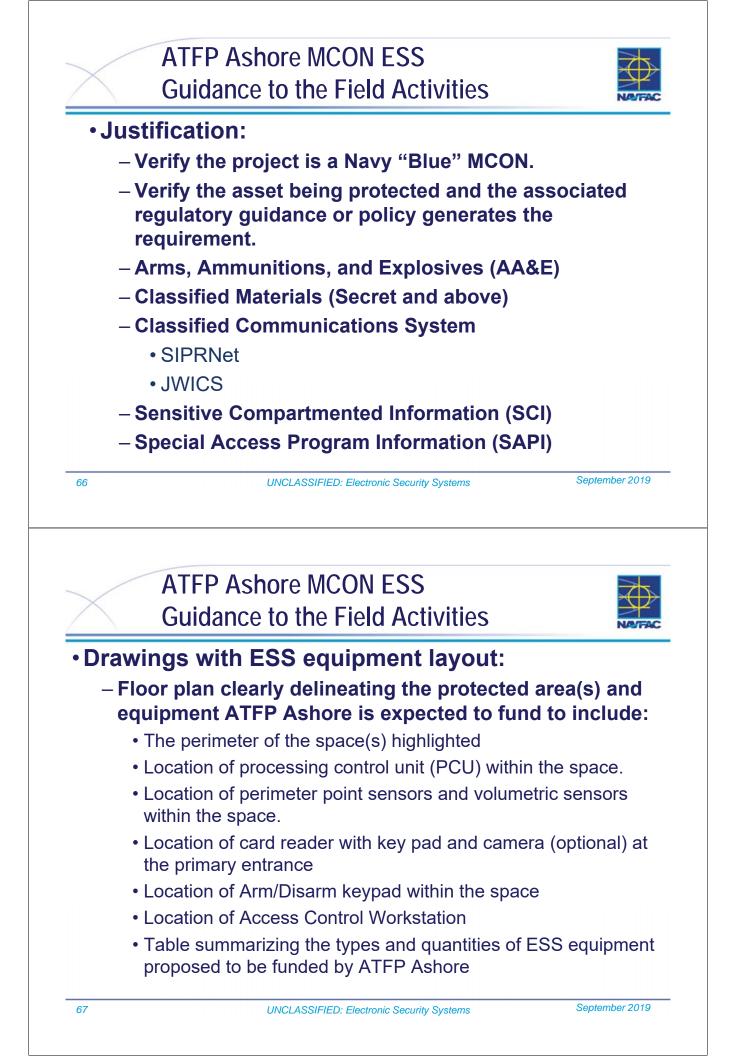
## Project Team:

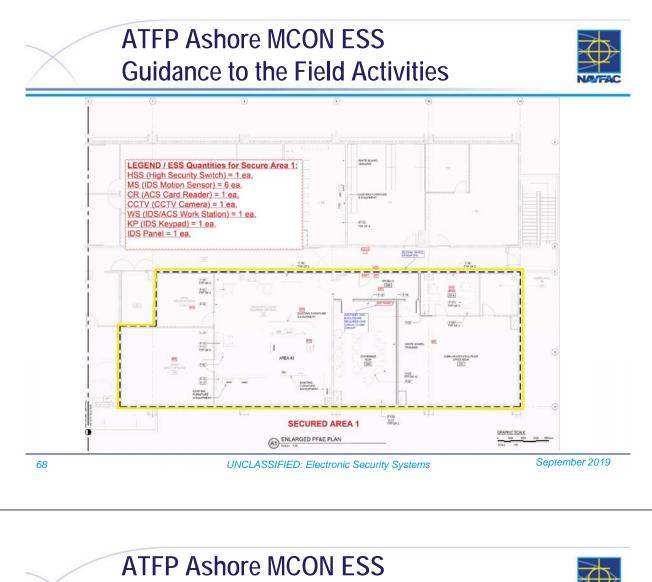
## Planning/DD1391 Development

- Coordinate with supported command to establish requirement for ESS (Program Manager to validate requirement and funding)
- Program for ESS infrastructure
- Include the appropriate OP or O&M cost
- Determine appropriate fund source and procurement strategy for ESS
  - NAVFAC ATFP Ashore or Supported Command
  - Option(s) to contract







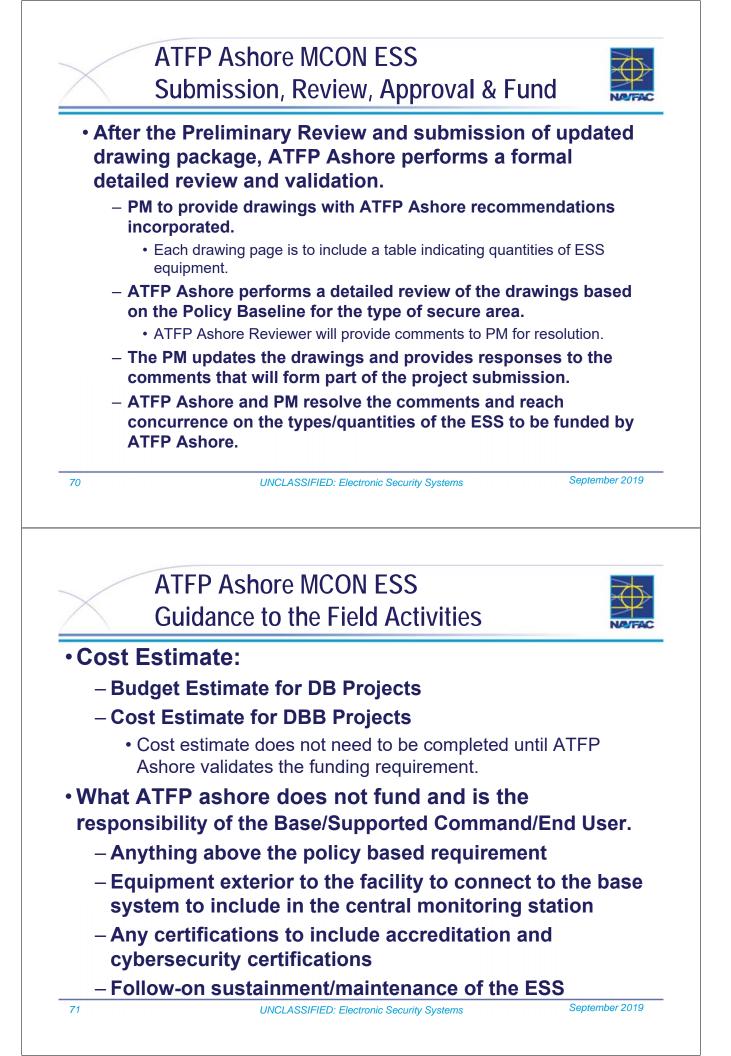


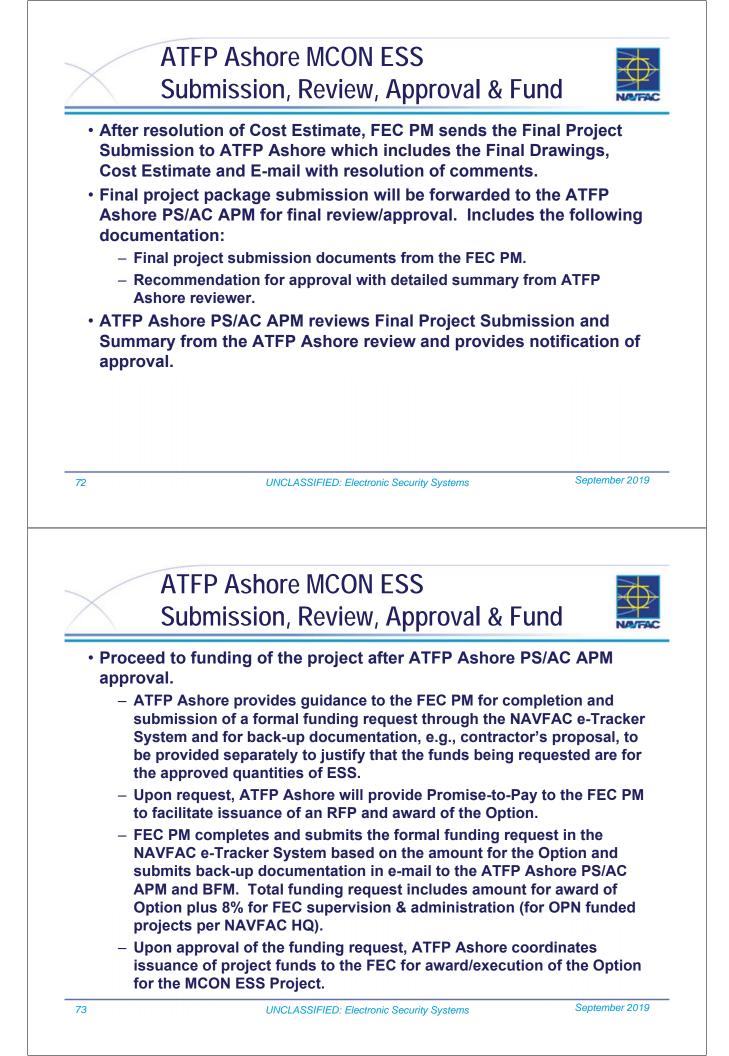
Submission, Review, Approval & Fund

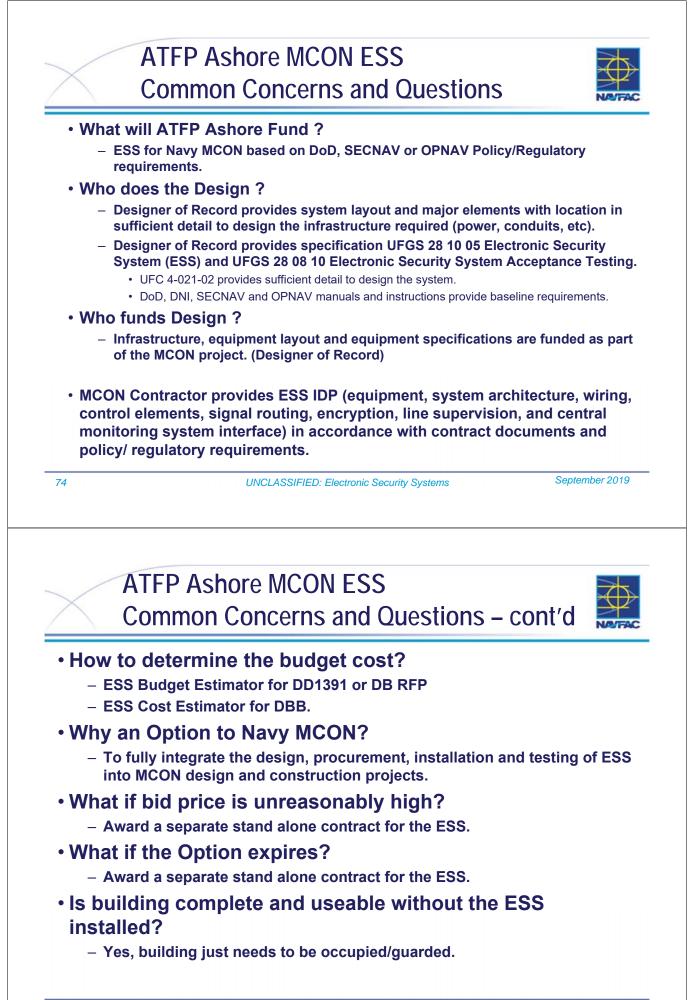


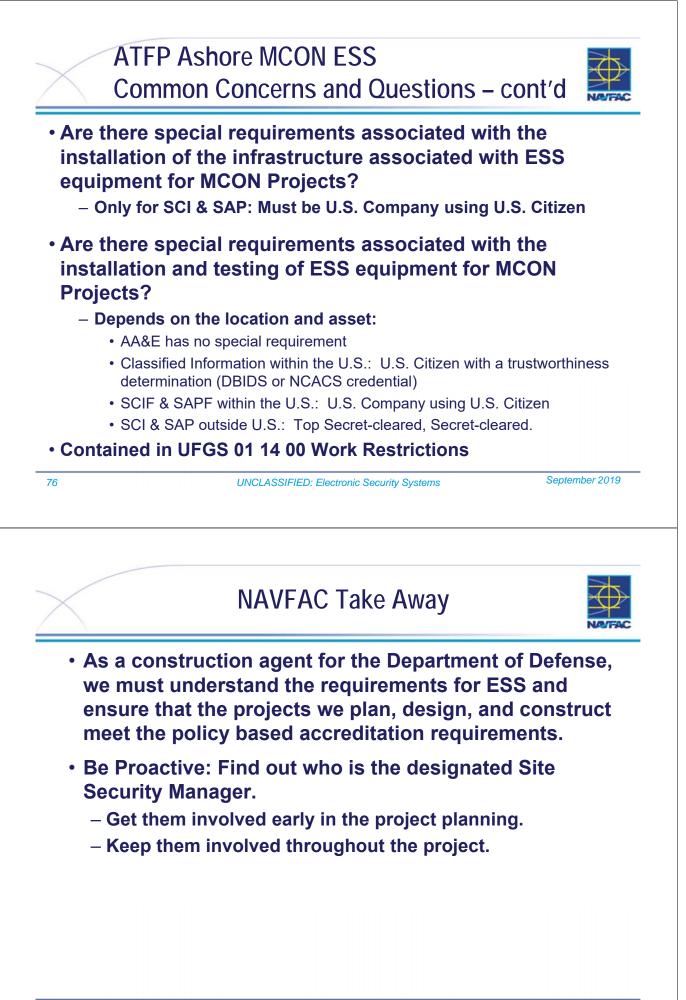
• ATFP Ashore uses the drawing submission to perform a preliminary review of the ESS.

- Ensures the drawings are consistent with the guidance provided in NAVFAC BMS B-1.3 Section 1.3.2 Perform Coordination for Electronic Security System (ESS) Equipment Procurement and Installation, and the notional layouts in UFC 4-021-02 Appendix C.
- ATFP Ashore provides initial recommendations to facilitate drawing package approval and focuses on the layout of the secure perimeter and the baseline ESS.
  - ONLY One (1) PCU, Card Reader and Key Pad, and Camera per secure area, and BMSs and volumetric sensors covering each door and man passible opening along the secure perimeter.
  - Volumetric sensors strategically placed within the Protected Area (not 100% Coverage)
- Submitting drawings that are not consistent with the baseline requirements will add significant time to the review process.



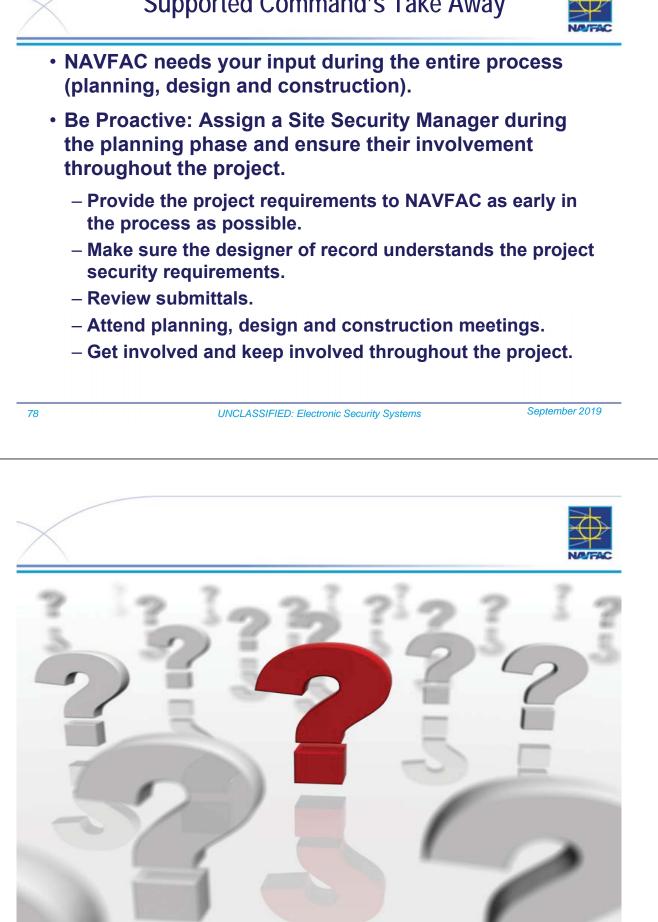






## Supported Command's Take Away





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