Welcome to the
Partners in Excellence Workshop

UNCLASSIFIED

Reminders for Our Amarillo and Oak Ridge Participants

- No food or drink
- Please silence your phones and other electronic devices
- Exit doors
- Restrooms
- CNS as well as Small Business Development Center and APEX Accelerator representatives are in attendance to answer your questions

Reminders for Our WebEx Participants

- You are muted and cannot unmute yourself.
- If you need assistance, please send a message to the Host via Chat.
- Questions should be sent to Host using the Chat option.
- If your audio is not functioning, please call in using the information below.
- Keep these numbers accessible in case you lose connection.

Phone Number: US Toll +1(415) 527-5035
Webinar Number (access code): 2767 103 6177
Webinar Password:M4dH3uj8MEp
(64343858 from phones and video systems)

Safety Is Our Top Priority

Enjoy a Safe Holiday Season

- **Travel**

- **Decorate**

- **Fire-Starters**

- **Turkey Fryers**

- **Food Poisoning**

- **Gifts**

Resources:

https://www.foodsafety.gov/

https://www.cpsc.gov/s3fs-public/611.pdf

https://www.nsc.org/community-safety/safety-topics/seasonal-safety/winter-safety/holiday

https://www.nfpa.org/Public-Education/Fire-causes-and-risks/Top-fire-causes/

Agenda

Time EDT	Time CDT	Activity/Presentation	Person
2:00 p.m.	1:00 p.m.	Workshop Begins Welcome & Safety Share	Greta Ownby, Y-12 Small Business Program Manager
2:05 p.m.	1:05 p.m.	Opening Comments	Kenny Steward, Pantex Deputy Site Manager
2:15 p.m.	1:15 p.m.	Projects, Construction, Equipment: Long Term Outlook for Pantex & Y-12	Russell Daniel, Sr. Director Pantex Project Management Alan James, Sr. Director Y-12 Project Management
2:40 p.m.	1:40 p.m.	Cyber Requirements & NIST 800-171 Briefing	Scott Clem, CNS, IT Business Operations Jutta Bangs, APEX Accelerator
3:00 p.m.	2:00 p.m.	Procurement Opportunities: What to watch for in the next six months at Pantex and Y-12	Barry Hyden, Director Procurement Operations
3:15 p.m.	2:15 p.m.	Final Comments	Rick Hillert, Senior Director Supply Chain Management
3:25 p.m.	2:25 p.m.	Workshop Concludes Matchmaking & Networking Begins	All
3:30 p.m.	2:30 p.m.	Matchmaking	
4:30 p.m.	3:30 p.m.	Conclude	

Opening Comments

Kenny Steward

Deputy Site Manager, Pantex

Kenny.Steward@pxy12.doe.gov

Projects, Construction, Equipment:
Short and Long Term View

Russell Daniel
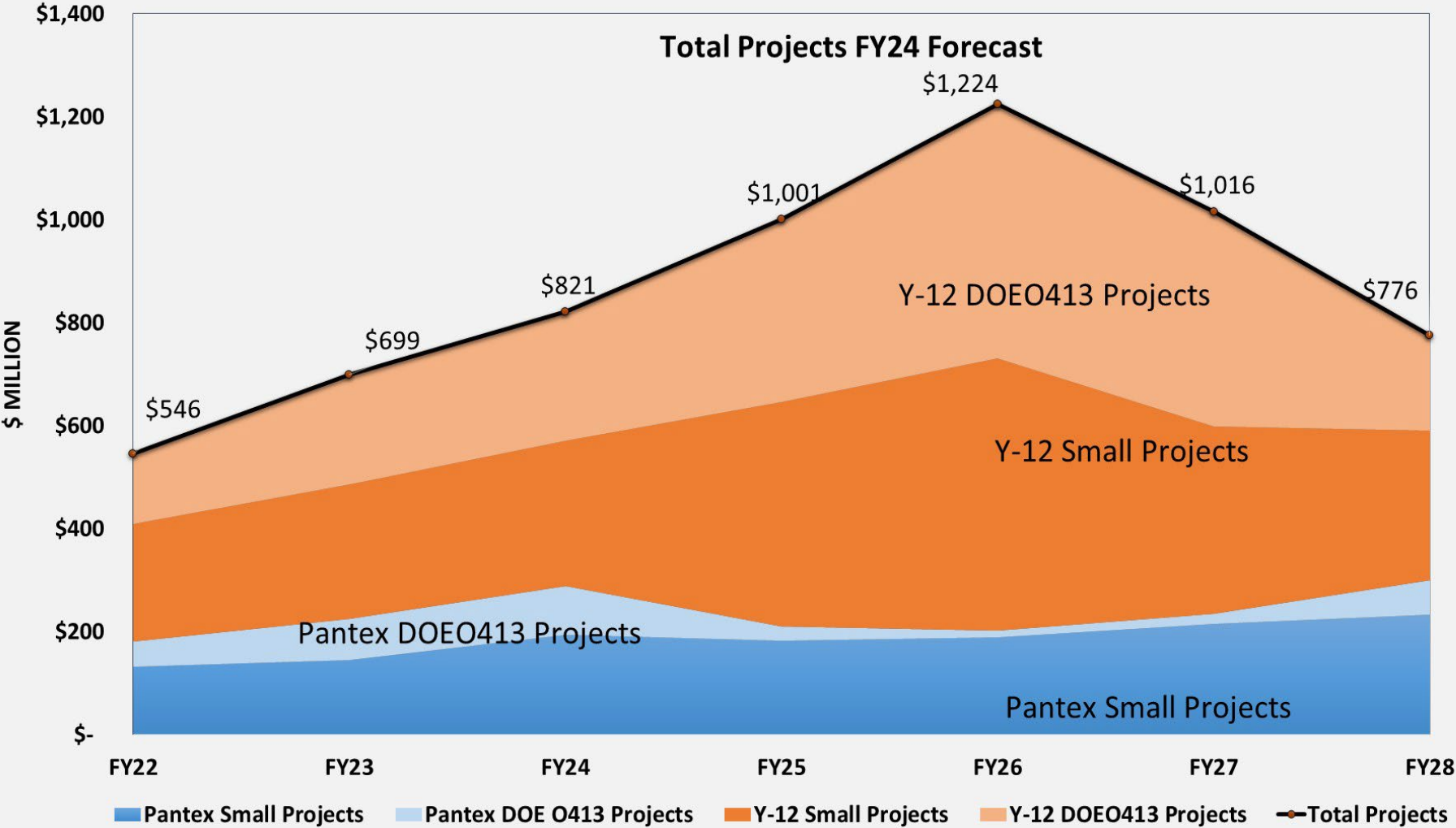Pantex Senior Director, CNS Project Management
Russell.Daniel@pxy12.doe.gov

Alan James
Y-12 Senior Director, CNS Project Management
Alan.James@pxy12.doe.gov

CNS Project Workload

Total Projects FY24 Forecast

FY22	FY23	FY24	FY25	FY26	FY27	FY28
$546	$699	$821	$1,001	$1,224	$1,016	$776

Legend: Pantex Small Projects, Pantex DOE O413 Projects, Y-12 Small Projects, Y-12 DOEO413 Projects, Total Projects

Chart labels: Y-12 DOEO413 Projects, Y-12 Small Projects, Pantex DOEO413 Projects, Pantex Small Projects. Y-axis: $ MILLION.

*Does not include UPF, MSF, or ARCCC.

Upcoming FY 24 Awards - *Pantex*

Environmental Sampling Facility-$20M
Analytical Gas Lab- $23M

JCDC feed to NMS-$5M

Monthly Estimated Award Values $M

Cumulative Estimated Award Values $M

	Oct 2023	Nov 2023	Dec 2023	Jan 2024	Feb 2024	Mar 2024	Apr 2024	May 2024	Jun 2024	Jul 2024	Aug 2024	Sept 2024
Monthly Award $	$3.5	$10.1	$3.0	$1.7	$0.0	$7.3	$46.0	$10.3	$0.2	$1.1	$0.3	$0.0
Cum Planned $	$4	$14	$17	$18	$18	$26	$72	$82	$82	$83	$84	$84
# Awarded	2	3	1	2	-	4	5	4	1	2	2	-
Cum # Awarded	2	5	6	8	8	12	17	21	22	24	26	26

FY24 Awards - *Pantex*

| Project Name	Discipline
Bay 12,14 16 HPFL,FDS,&RAMS Repl.	Det-Tronics
Boiler Controls & UPS	Design/Build
Production Tooling 12-068 VMC	Construction Contract
Environmental Chambers & Equip Skids	GFE Equipment
Rotoclone System Replacement	Construction Contract
HVAC Chiller BOA	Construction Contract
FDS Design Refresh	FDS Title III
Water Treatment Sys Removal	A/E Design
(Range 9) HVAC Replacement	Construction Contract
South Substation - 100 Circuit SG, Cap B	A/E Design
RAMS/ B 15,17,19 RAMS / B 1,2,3 Rm 152 RAMS	RAMS Construction Contracts
Heat Treat Oven Facility Modifications	Construction Contract
C 2 & 4 RAMS Design Refresh	RAMS Title III
B 15,17,19 FDS Design Refresh	FDS Title III
NMS Recloser Replacement	Construction Contract
12-98 C 2 & 4 FDS	FDS Release Funding
12-121 5-Axis Mill	Construction Contract

FY24 Awards - *Pantex*

Project Name	Discipline
Bldg. 15-34 Pump House and Tank Upgrade	Construction Contract
JCDC Feed to NMS	Construction Contract
New Environmental Sampling Facility	Design/Build
Analytical Gas Laboratory	Design/Build Task 1 of 4
E1 Lead-In & Wet Pipe Riser Replacement Design Refresh	HPFL Title III
Replace Toxic Vapor Monitoring	A/E Design
Cells 2, 3 FDS/RAMS (+C6) RAMS Replacement	Det-Tronics
Environmental Chambers & Equip Skids	A/E Design

FY24-26 Projected Project Spend - *PX*
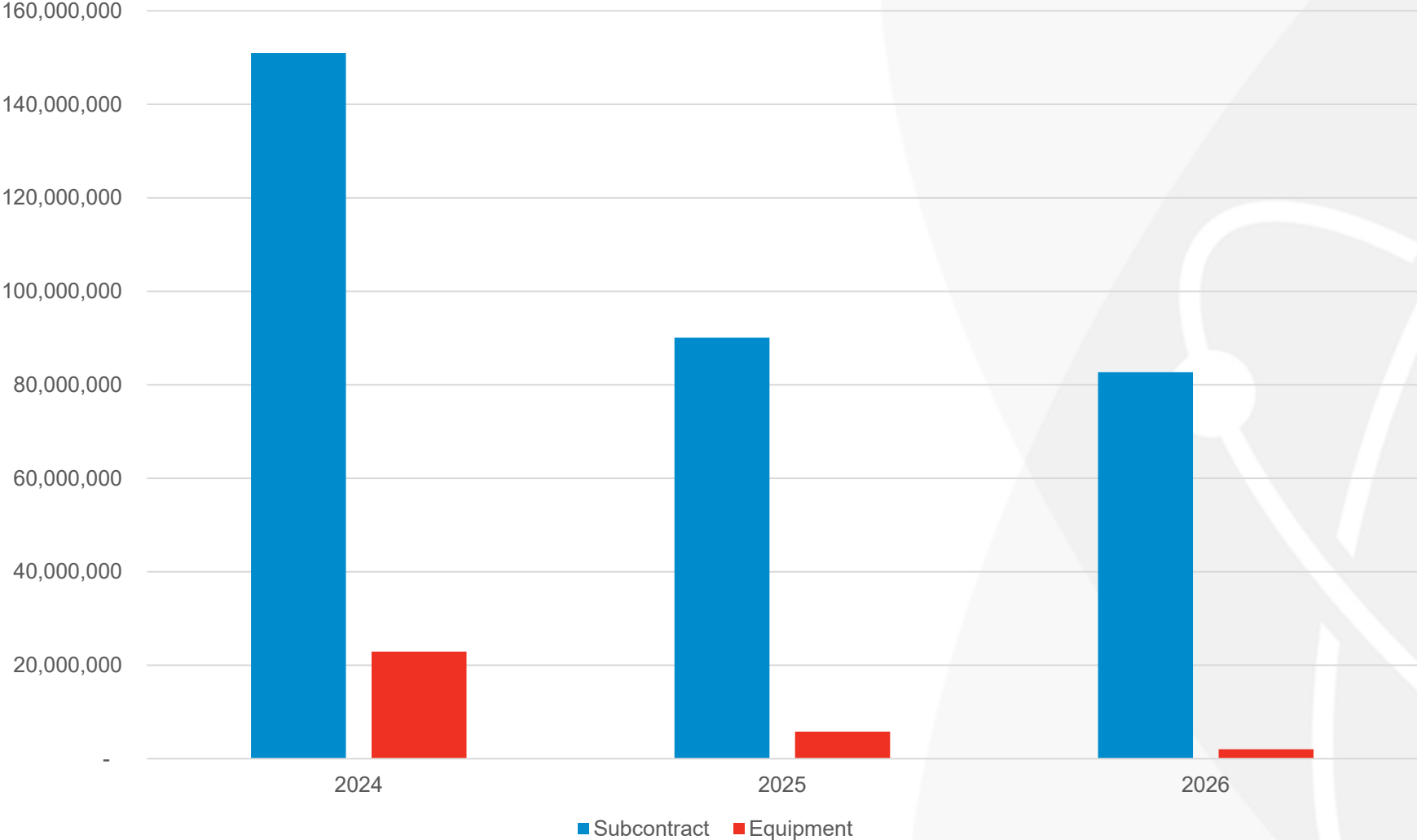
Upcoming Awards - *Y-12*
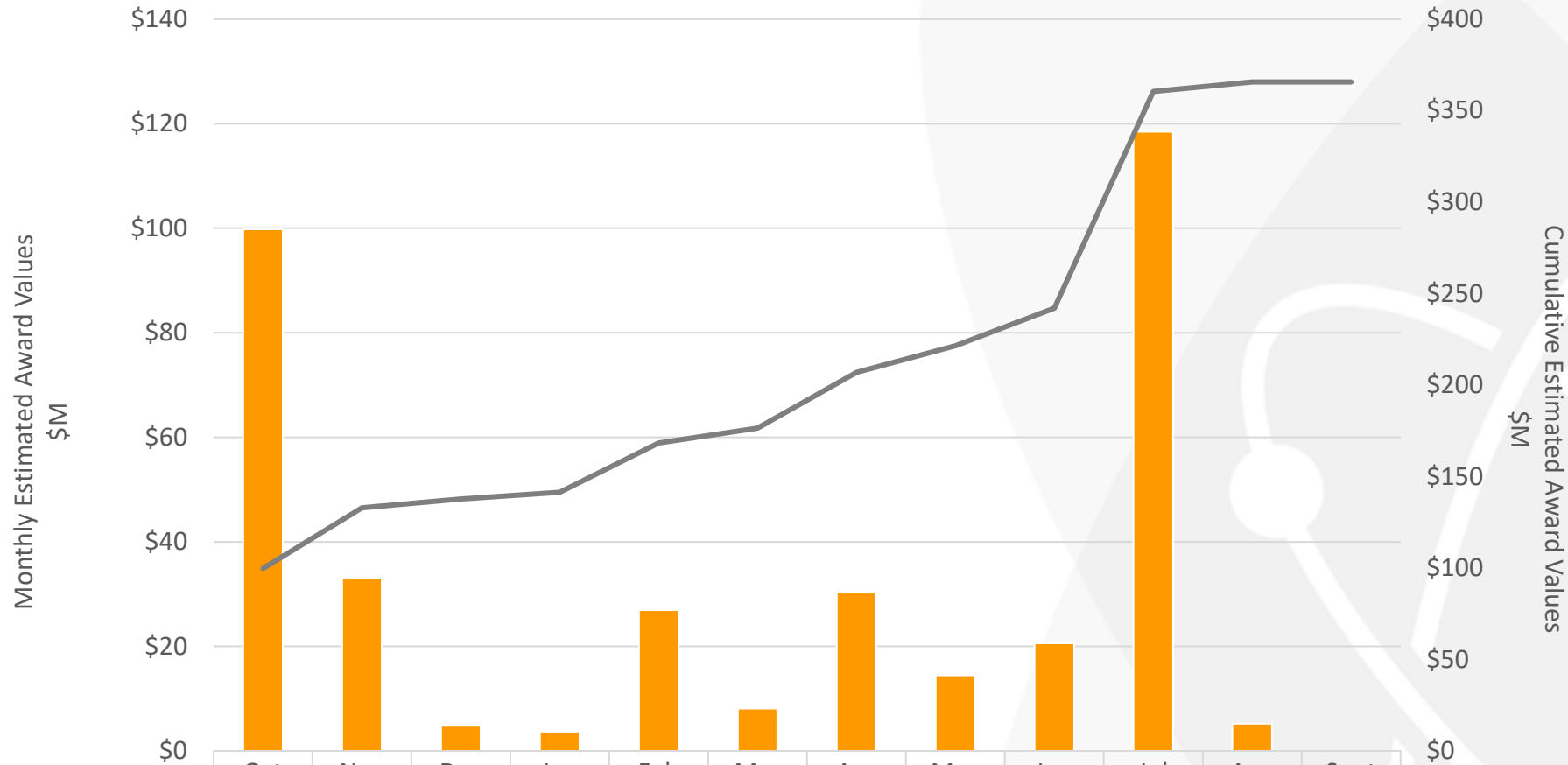
	Oct 2023	Nov 2023	Dec 2023	Jan 2024	Feb 2024	Mar 2024	Apr 2024	May 2024	Jun 2024	Jul 2024	Aug 2024	Sept 2024
Monthly Award $	$100	$33	$5	$4	$27	$8	$30	$14	$21	$118	$5	$0
Cum Planned $	$100	$133	$138	$141	$168	$177	$207	$221	$242	$360	$366	$366
# Awarded	8	6	4	6	7	7	8	5	5	8	5	-
Cum # Awarded	8	14	18	24	31	38	46	51	56	64	69	69

13

FY24 Awards – *Y-12*

Project Name	Discipline
General Electrical Upgrade	Dehumidification Air Handling Unit
General Electrical Upgrade	Cooling Tower
Pangborn Exhaust System	Graphite Exhaust Dust Collector
General Electrical Upgrade	Air Cooled Chillers 265 Ton
Vista Switchgear Installation	Design for Install
225 kV Microfocus/450 kV CT No. 2	Mid Energy
810 Replacement	BOA Design
Electropolisher	Sampling Tank
Phase 5	AVS, Inc 30% Furnace Design
Directed Stockpile Work	Vacuum system
Directed Stockpile Work	Witness test system
South e-Beam Welder	e-Beam Welder
Direct Cast Production Furn	Design/Build Contract
DCM Bottom Load Furnace	Vaccum Chamber Design Subcontract
Site Wide Roof Repairs	Construction Award
Pencil Ingot Lathe	Pencil Ingot Lathe
Vista Switchgear Installation	Switchgear
General Electrical Upgrade	Air Cooled Chillers 175 Ton
LPF	Test & Demonstration Facility Phase III/IV Install/Testing
Above Ground Storage Tank Remediation	Demo Award

FY24 Awards – *Y-12*

Project Name	Discipline
LPF	Electrolytic Cell
LPF	CMM
Electropolisher	Purchase drum lifting/hauler equipment
Fuel Station Replacement	Design
Complex Prep for Demo	Prep for Demo
Training Center	Installation Award
Large CNC Turning Project	Forklift Attachment
Pangborn Exhaust System	Blower
Upgrades	Design
Uranium Area Project	Design
Coordinate Measuring Machine #1	CMM
Graphite Drying Oven 1 & Cooling Tower	Design
HVAC Replacement	Subcontract Execution
Machine Capability Lathe #2	Lathe 2 Design for Installation
Bldg 9201-01 Pangborn Exhaust System	VFD
Large CNC Turning Project	Monorail
Ancillary Facility Dispo Exec.	Disposition Execution
Y-12 Fiber Ring	Design
Motor Control Center Replacement for 198 and 222 Feeder systems	Two new electrical Panels for replacing the MCCs
Panel Replacement for 198/222 Feeder Systems	26 new electrical panels

FY24 Awards – *Y-12*

Project Name	Discipline
Directed Stockpile Work	Hot block
Directed Stockpile Work	RO system
Directed Stockpile Work	Analytical Balance
Directed Stockpile Work	Calorimeter
Directed Stockpile Work	Triple Quad
Direct Cast VIM2 Execution	Design/Build Contract
Air Lock Hood	CNS Engineering Support / Install Design
Machine Capability Lathe #2	9215 Machine Capability Lathe #2
General Electrical Upgrade	Tube Furnace
Utility Reroute Execution	Design
General Electrical Upgrade	Alumalift
Bottom Load Furnace	Glovebox Procurement FE
General Electrical Upgrade	Chemical Fume Hoods (3)
A-2 Wing Decoupling	Design
LPF	Lathes/Mills
LPF	Crusher/Grinder Fabrication
LPF	Isostatic Press
Fire & Portable Water	Design Award
General Electrical Upgrade	Installation Subcontract
General Electrical Upgrade	Snorkel Exhaust for tube furnace

FY24 Awards – *Y-12*

Project Name	Discipline
General Electrical Upgrade	Hydraulic Press
General Electrical Upgrade	Vacuum Oven
CMM Repl Proc Instal	Design
General Electrical Upgrade	HUP Hot Ton Press
Transformer Oil Removal	Execution
Bottom Load Furnace	Compactor FE
Bottom Load Furnace	Hepa Filter FE
Enhanced Backfill Station	Backfill Station
General Electrical Upgrade	Special Cart Tube
Elza Switchyard Facility Disposition	Demo BOA Contract Award
Graphite Drying Oven 1 & Cooling Tower	Cooling Tower
Utilities Upgrade Project	Design
Pencil Ingot Lathe Execute	Design
LPF	Construction Pre-Buys
LPF	Electrical Transformers/Switchgear
Reroute	Design
Dock 12 modifications	Design
Liquid Trans Dolly Transfer Stat	Design
Dock modification	Design
Liquid Trans Dolly Transfer Station	Design
Liquid Trans Dolly Transfer Station	Design

FY24 Awards - *Y12*

Project Name	Discipline
Vista Switchgear Installation	Construction/Install
Graphite Drying Oven 1 & Cooling Tower	Graphite Drying Oven
LPF	Evaporator/Dryers Fabrication
Coordinate Measuring Machine #2	CMM
LPF	HMG Furnace and Reactor Vessel Fabrication
IGPP Building Revitalization JT	Building Modernization Award
LPF	Gloveboxes Fabrication
CN22-Scientia Telum	MSC Facility Enhancement

FY24-26 Projected Project Spend – *Y-12*
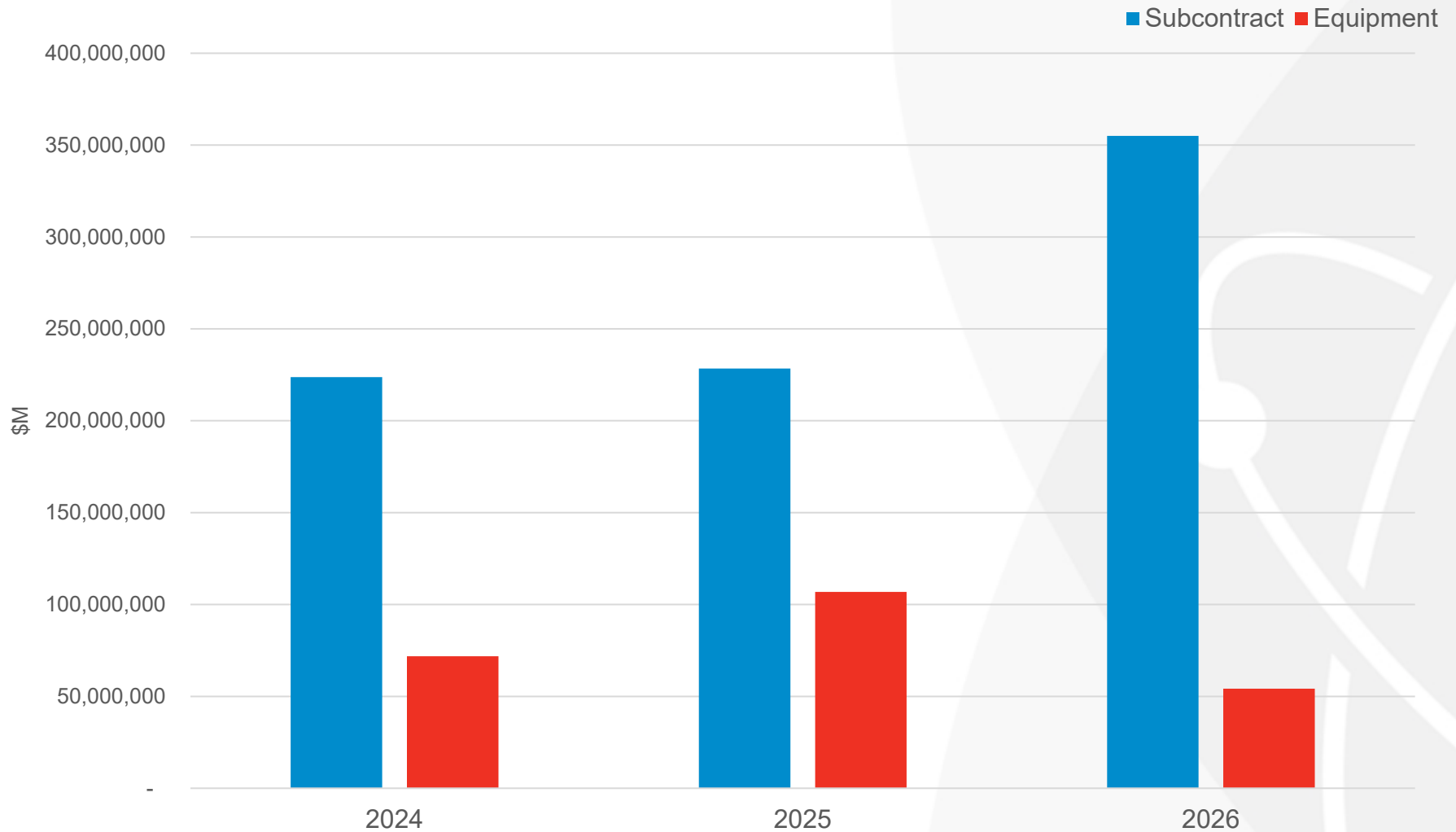
Question & Answer

Please Submit Questions Using Index Cards or Via Chat in WebEx (Send to Hosts)

What is this NIST 800-171 thing and why should I care?

Scott Clem

IT Business Operations

Scott.Clem@pxy12.doe.gov

Interesting NIST Fact

Great Baltimore Fire of 1904

Photo Courtesy of Maryland Historical Society & NIST

What is NIST?

National Institute for Standards and Technology (NIST) established by Congress in 1901 to help <u>remove challenges to US industrial competitiveness</u>.

Mission:

To promote U.S. innovation and industrial competitiveness by advancing measurement science, standards, and technology in ways that enhance economic security and improve our quality of life.

NIST 800-171

NIST 800-171 is a special publication that provides recommended requirements for protecting data confidentiality of control unclassified information (CUI) on non-Federal systems.

Who does NIST 800-171 apply to?

ANYONE processing CUI on non-federal systems.

What does it mean to be NIST 800-171 compliant?

- In the DoD world, in means achieving level 2 or 3 of the Cybersecurity Maturity Model Certification (CMMC) 2.0.

- In the DoE world it is _____ .

CMMC 2.0 Compliance Levels – Used by DoD

Expert
(FCI and CUI)
Level 2 controls plus controls from NIST SP 800-172

3

Assessment by DoD

Advanced
(FCI and CUI)
100 NIST 800-171 controls, 61 NFO controls

2

Assessment by C3PAO
(Information critical to national security)

Annual Self Assessment
(No Information critical to national security)

Foundational
(FCI only)
17 controls ased on FAR 52.20b4-21

1

Annual Self Assessment

CNS Approach

Level of Collaboration (y-axis)

Data Sensitivity (x-axis)

NIST 800-171 Assessment NOT Required — Federal Contract Information (FCI)

*NIST 800-171 Assessment Required — CUI NOT Critical to National Security

*NIST 800-171 Assessment + Validation Required — CUI Critical to National Security / UCNI
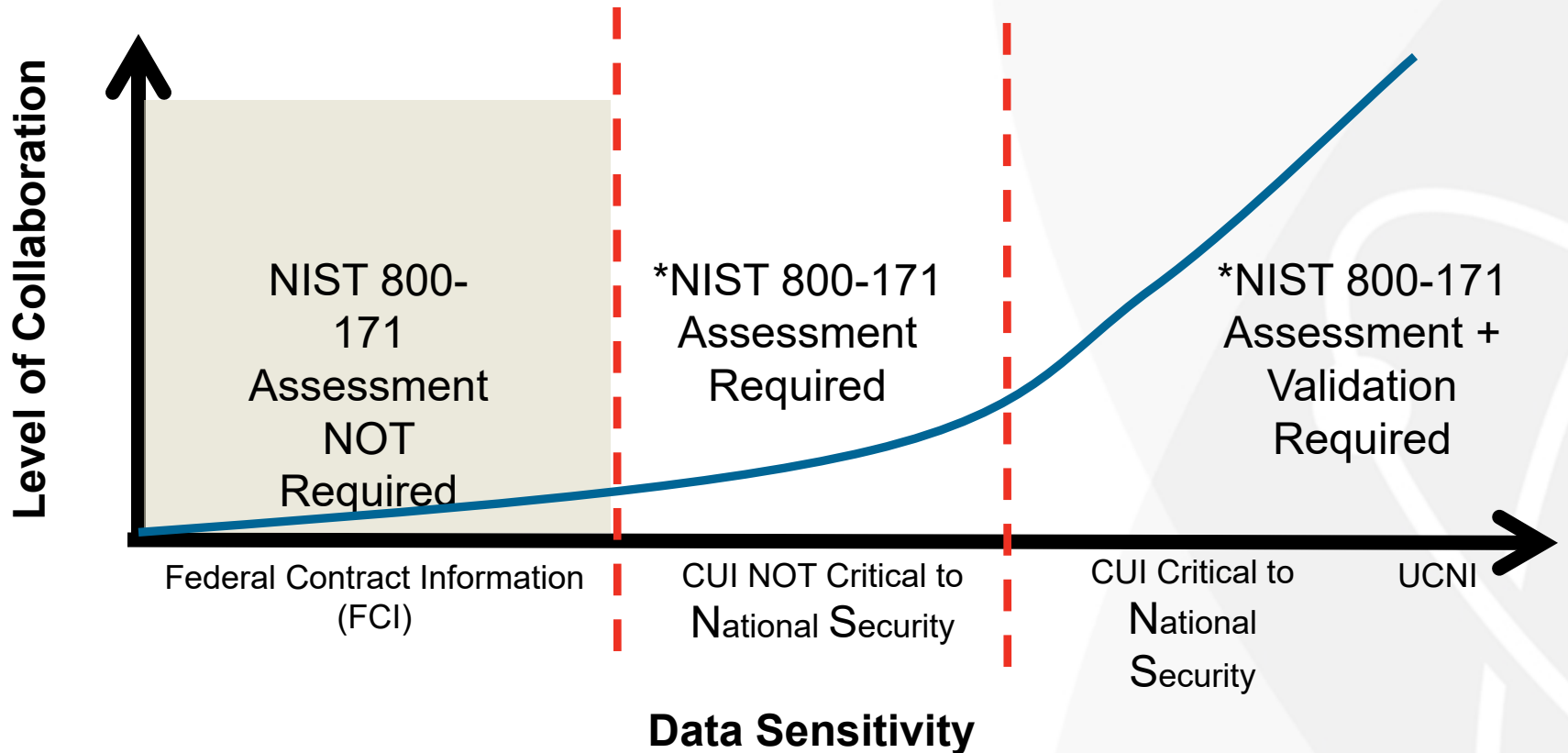
* Or use other approved method (i.e., GFE)

Steps to Become Compliant

1. Identify contract information

2. Establish security requirements

3. Develop system security plan

4. Implement security controls

5. Monitor and test controls

6. Manage system security

7. Implement incident response plan

8. Document and maintain records

CNS Validation Process

CMMC certification is not required, but it makes the CNS validation process very easy.

Expect to provide:

- Security Plan
- Plan of Actions and Milestones (POAM)
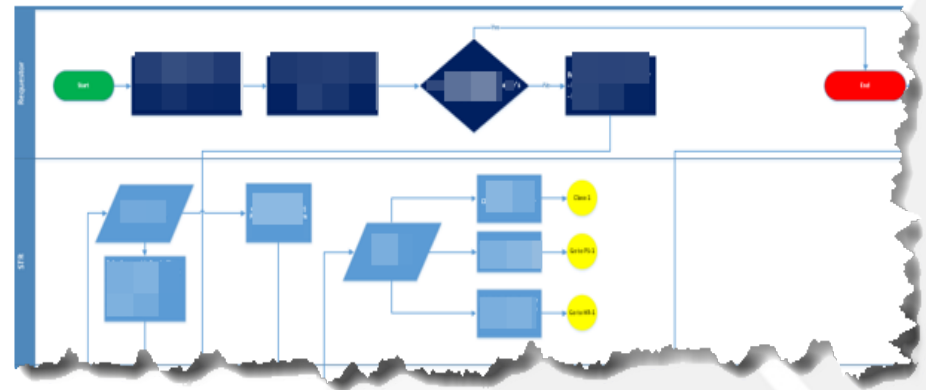
What's in it for you?

- Lowers your company's cyber security risk profile.

- Helps differentiate your company.

- Helps open up new bidding opportunities.

Manufacturing Extension Program (MEP) Resources

Tennessee APEX Accelerator

TMAC Texas MEP

Connect with Your Local MEP Center | NIST

is
now

So, what is APEX?

It's not an acronym - it's a destination!

This APEX Accelerator is funded in part through a cooperative agreement with the Department of Defense.

TENNESSEE APEX ACCELERATOR

UT | **CIS** Center for Industrial Services
INSTITUTE *for* PUBLIC SERVICE

www.apex.cis.Tennessee.edu

East TN APEX Counselor
Jutta Bangs
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865-483-0623

Specialty areas:
- Cybersecurity compliance (CMMC, NIST 800-171).
- Technical assistance for manufacturers.
- SBIR/STTR topic research and application assistance.
- Mentor-Protégé, Joint Ventures, and Teaming strategies.
- FOCI/facilities clearances.
- ITAR

The **APEX Accelerator** program, formerly known as the Procurement Technical Assistance Center (PTAC), is administered by the Department of Defense (DoD) Office of Small Business Programs (OSBP) in cooperation with states, local governments, and nonprofit organizations. We assist on all government levels, with all agencies and prime contractors.

Mission: Serve as the axis for existing and new business to strengthen the Defense Industrial Base (DIB) by accelerating innovation, fostering ingenuity, and establishing resilient and diverse supply chains.

Vision: A diverse and resilient domestic industrial base that can deliver preeminent solutions to the military and other government users.

Services provided at no cost:
- Understanding government markets for goods and services.
- Readiness assessment for government contracting.
- Website registrations; including SAM and SBA Dynamic Small Business Search (SBA Profile).
- Matching products or services with government requirements.
- Competitive market research.
- Finding bid opportunities.
- Analysis of solicitations and bid documents.
- Obtaining technical specifications.
- Interpretation and compliance with Federal Acquisitions Regulations (FAR).
- Capability statement and elevator pitch assistance.
- Certifications on the local, state, or federal level.
- Matchmaking and networking events.

Cybersecurity hygiene

- Tips that any small business can implement.

- Cybersecurity has many facets, and this is a basic discussion on this topic.

- The APEX Accelerator offers more advanced training & counseling for government contracting compliance.
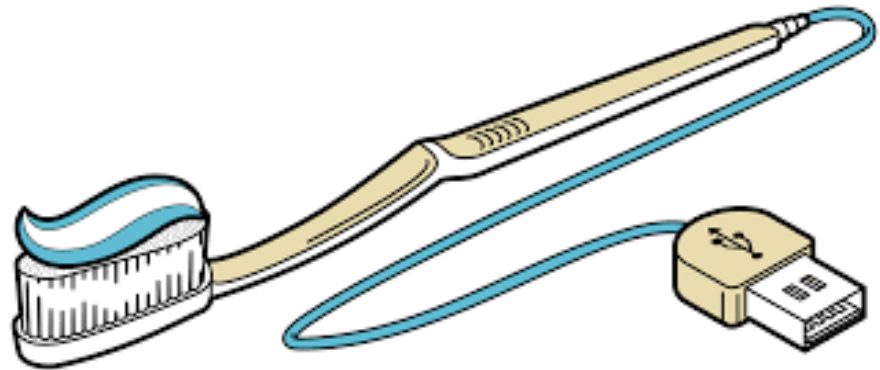
What to protect

- The small business' ability to operate and access needed data.

- Small business' reputation and trust in the marketplace.

- Personal Identifiable Information (PII).

- Proprietary data/backups.

What to protect

- **Hardware**
  - Inventory, secure location

- **Software**
  - Inventory, updates, removal of unused

- **Other**
  - Paper, storage devices, BYOD, websites, social media, disposal

Identification & Authorization

- Identify all users on all systems.

- Create ability to track users' access across network and devices.

- Proper authentication is done when granting a user access to a system.

- **Use multi-factor authentication wherever possible.**
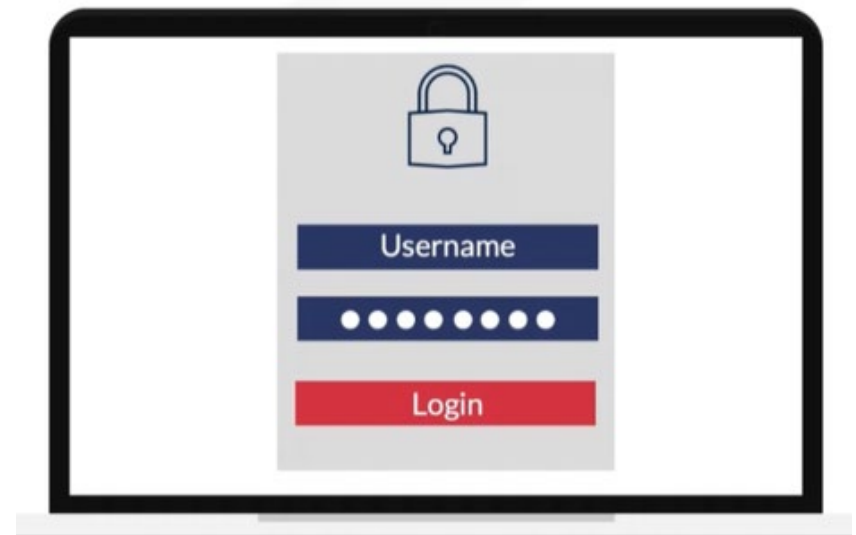
Password security

- Increase password length.
- Don't use passwords connected to the user (names, pets, colors, etc.).
- Minimum of 8 characters, more is better.
- Use passphrases, harder for hackers to guess.
- Don't use password hints.
- Limit password attempts.

Password security

- Use Multi-Factor Authentication.
- Most effective way to add additional protection.
- Something you **know** (PIN).
- Something you **have** (token, security key).
- Something you **are** (fingerprint, voice, facial recognition).

Media protection
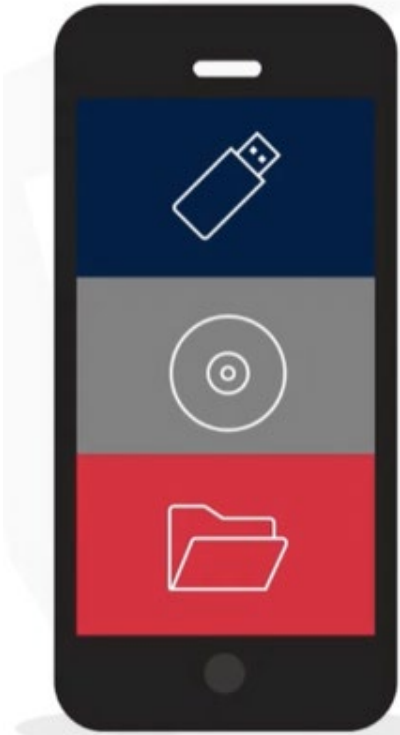
- Protect access to all media, both digital and non-digital.

- Media includes internal/external hard drives, flash drives, disks, paper – anything containing PII.

- All media is properly sanitized or disposed of.

- Media should be tracked from user to user.

Physical protection

- Protect physical access to all critical information systems.

- Controls range from simple door locks to complex redundant infrastructures with guarded access.

- This includes buildings, filing cabinets, offices, etc.

Ransomware

- Gain administrative access.
- Explore the network.
- Steal sensitive information.
- Delete backups.
- Encrypt network systems.
- Wait for victim to reach out.
- Post victim data online if they don't respond or refuse to pay.
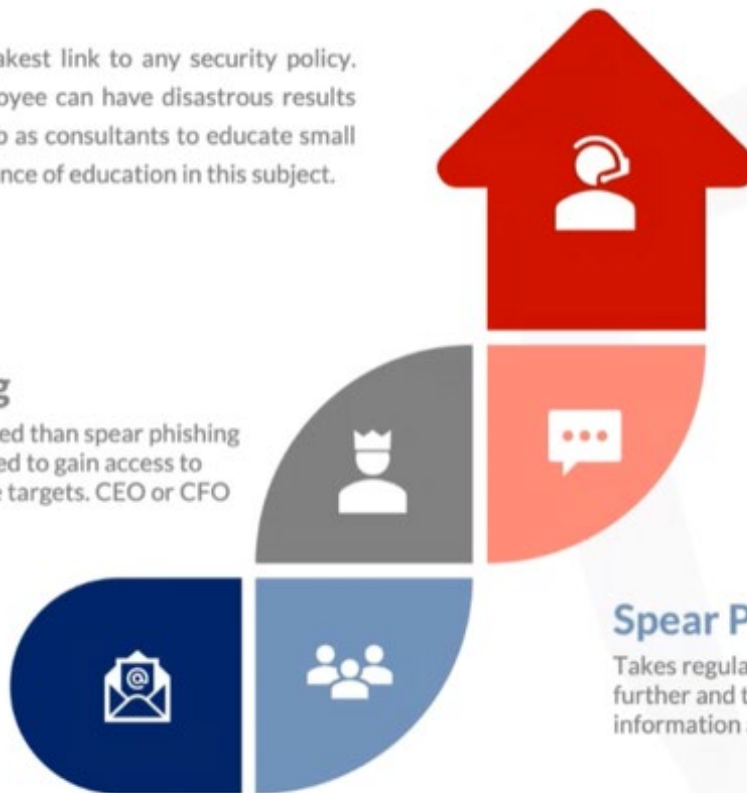- Collect money from the victim in exchange for the decryption.

Social Engineering

- An attacker uses human interaction to obtain or compromise information about an organization or its computer systems.

- An attacker may be unassuming and respectable, possibly claiming to be a new employee, repair person, even offering credentials that support that identity.

Social Engineering Tactics to Watch For

Knowing the red flags can help you avoid becoming a victim.

Your 'friend' sends you a strange message.

Your emotions are heightened.

The request is urgent.

YOU WIN! $1,000,000
The offer feels too good to be true.

You're receiving help you didn't ask for.

The sender can't prove their identity.

Complacency

- **Common element of all threats: People.** Educate about the threats!
- Hoping for the best of thinking they are not a target.
- Not taking an extra minute to think about the possible threats.
- Assuming it's complicated or expensive, mostly process, culture.

Controlled Unclassified Information (CUI)
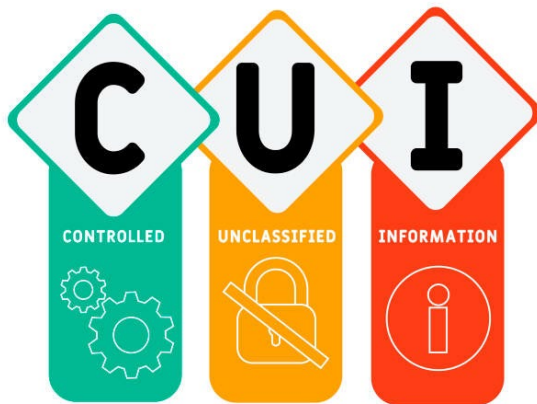
Information that requires safeguarding or dissemination controls pursuant to and consistent with applicable law, regulations, and government-wide policies – but is not classified.

Examples:

- Personally Identifiable Information (PII)
- Proprietary Business Information
- Unclassified Controlled Technical Information

NIST 800-171 / DFARS 252.204-7012

At this point only the Department of Defense is implementing this requirement.

It is expected that other federal agencies will adopt this cybersecurity framework.

- NIST 800-171 is not itself a law or a regulation.
- It is the cybersecurity framework required to be implemented by the regulation DFARS 252.204-7012.
- The DoD DFARS clause requires contractors/ sub-contractors to safeguard covered defense information

Cultivate a robust cybersecurity culture

- Leadership buy-in and engagement

- Continuous education and training for employees and sub-contractors.

- Clear policies & procedures.

- Regular communication.

- Have an incident response plan.

Find your APEX Accelerator (PTAC) outside of Tennessee at: www.aptac-us.org

Jutta.Bangs@tennessee.edu

865-483-0623

Accelerating America Entrepreneurship

53

TENNESSEE
APEX
ACCELERATOR

UT | CIS

INSTITUTE *for* PUBLIC SERVICE

Question & Answer

Please Submit Questions Using Index Cards or Via Chat in WebEx (Send to Hosts)

CNS Procurement Forecast

Barry Hyden

Director, Procurement Operations

Barry.Hyden@pxy12.doe.gov

FY24 Procurement Opportunities: Pantex

Project	Comp Type	Est Price	Est Date
HVAC Replacement	Small Business Set-aside	$1M–$1.2M	Q1 FY24
Heat Treat Oven Facility Modifications	Small Business Set-aside	$2.5M-2.8M	Q2 FY24
5-Axis Mill Facility Modifications	Small Business Set-aside	$1.8M-$2M	Q2 FY24
Pump House and Tank Upgrade	Full & Open	$3.5M-3.8MM	Q1 FY24
New Environmental Sampling Facility	Full & Open	$10M-$20M	Q2 FY24
Analytical Gas Laboratory	Full & Open	$10M-$20M	Q2 FY24
General Construction MATOC	Full & Open	$10M-$20M	Q1 FY24
D&D MATOC	Full & Open	$10M-$20M	Q1 FY24

FY24 Procurement Opportunities: Y-12

Project	Comp Type	Est Price	Est Date
Training Center Installation Award	Full & Open	$800K-$1M	Q2 FY24
Forklift Attachment	Full & Open	$30K-$40K	Q1 FY24
Exhaust System Blower	Full & Open	$40K-$50K	Q4 FY24
Exhaust System VFD	Full & Open	$70K-$80K	Q4 FY24
Monorail	Full & Open	$50K-$60K	Q1 FY24
Hot block	Full & Open	$3K-$4K	Q2 FY24
RO system	Full & Open	$8K-$10	Q2 FY24
Analytical Balance	Full & Open	$12K-$13K	Q2 FY24

FY24 Procurement Opportunities: Y-12 continued

Project	Comp Type	Est Price	Est Date
Calorimeter	Full & Open	$70K-$75K	Q2 FY24
Triple Quad	Full & Open	$200K-$300K	Q2 FY24
Tube Furnace	Full & Open	$100K-$200K	Q2 FY24
Alumalift	Full & Open	$20K-$25K	Q2 FY24
Glovebox Procurement FE	Full & Open	$2.5M-$3M	Q2 FY24
Chemical Fume Hoods (3)	Full & Open	$70K-$75K	Q2 FY24
Hydraulic Press	Full & Open	$12K-$13K	Q2 FY24
Snorkel Exhaust for tube furnace	Full & Open	$5K-$7K	Q2 FY24

FY24 Procurement Opportunities: Y-12 continued

Project	Comp Type	Est Price	Est Date
Snorkel Exhaust for tube furnace	Full & Open	$5K-$7K	Q2 FY24
Vacuum Oven	Full & Open	$50K-$60K	Q2 FY24
Hepa Filter FE	Full & Open	$900K-$1M	Q2 FY24
Special Cart Tube	Full & Open	$50K-$60K	Q2 FY24
175T Chillers and Controllers	Full & Open	$250K-$1M	Q4 FY24

Additional Forecast Details

CNS Procurement provides the forecast of subcontracting opportunities.

• These requirements may be revised or canceled, depending on program budget funding or departmental needs.

CNS Forecast Site

https://www.y12.doe.gov/suppliers/procurement/subcontracting/subcontracting-forecasts/cns-forecast

If you have questions or would like to express an interest in any of the opportunities listed in the previous slides, contact:

    procurement@pantex.com (Pantex)

    procurement@y12.doe.gov (Y-12)

Question & Answer

Please Submit Questions Using Index Cards or Via Chat in WebEx (Send to Hosts)

Final Comments

Rick Hillert

Senior Director, CNS Supply Chain Management

Ricky.Hillert@pxy12.doe.gov

Working with CNS

➢ All offerers must be registered with the System for Award Management (SAM.) Offerers not registered will be ineligible for award.

  - SAM registrations have to be renewed annually
  - To register or renew: https://www.sam.gov or call: (866) 606-8220
  - For assistance (create an incident report or initiate a live chat) visit the Federal Services Desk at: https://www.fsd.gov.
  - Initiate registration renewal no later than one month before expiration.
  - To avoid delays, register/renew via sam.gov, not a third party.
  - Free assistance is available through local APEX Accelerator (formerly Procurement Technical Assistance Center) and Small Business Development Centers.

➢ Ensure your company information is in the Small Business Administration Dynamic Small Business Search

➢ Provide a one-page capability statement

➢ Visit the CNS, Pantex, and Y-12 websites

➢ Know the CNS mission and how your business can support it

Small Business Program Managers

Pantex Plant

    Randy Crawford
    Randy.Crawford@pxy12.doe.gov

Y-12 National Security Complex

    Greta Ownby
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