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**PANTEXAS DETERRENCE**

# Welcome to Partners In Excellence

## May 1, 2025

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Name: James Carducci

Date: 5/7/2025

Pantex eDC/RO ID: 911597

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## Reminders for All Participants

- **No food or drinks allowed in Auditorium**
- **Please silence all electronic devices**
- **Auditorium and Building Exits**
- **Restrooms**

# Safety Is Our Top Priority

## Importance of Staying Hydrated

- Water makes up about 50% to 70% of our body weight.
- Without enough water, we can become dehydrated.
- Dehydration – a condition that occurs when your body does not enough water to carry out normal functions.
- Dehydration can cause:
  - Muscle cramps
  - Fatigue
  - Thirst
  - Lightheadedness or confusion
  - Loss of appetite
- Water is essential to supply nutrients, remove waste, maintain circulation, body temperature.
- Daily intake of fluids depends on your body, health, medications, and other conditions.
  - Rule of Thumb for how much water daily – divide your body weight by 2 and drink that many ounces.

# Agenda

<p><b>Welcome</b> Safety Share/Housekeeping</p>	<p><b>Randy Crawford</b> Small Business Program Manager</p>
<p><b>Welcome and Opening Comments,</b> Introduction to PXD</p>	<p><b>Scott Kennedy</b> Division Director, Modernization and Infrastructure</p>
<p><b>Procurement Operations Overview and Staff Introductions</b> Question &amp; Answer</p>	<p><b>Justin Schenk</b> Senior Manager, Construction &amp; Services</p> <p><b>Mark Epperson</b> Senior Manager, Commodities, Capital Equipment, Tooling</p>
<p><b>Infrastructure and Capital Projects Forecast</b> Question &amp; Answer</p>	<p><b>David Crump</b> Director, Enterprise Planning &amp; Development</p>
<p><b>Contract Post Award Execution</b> Question &amp; Answer</p>	<p><b>Justin Schenk</b> Senior Manager, Procurement Operations-Construction</p> <p><b>James Hudgens</b> Construction STR Manager</p>
<p><b>Forward Look</b> Question &amp; Answer</p>	<p><b>Brandy Morgan</b> Senior Director, Supply Chain Management</p>
<p><b>Final Comments</b> Poll/Survey</p>	<p><b>Brandy Morgan</b> Senior Director, Supply Chain Management</p>
<p><b>Supplier Introductions / Networking</b></p>	<p><b>Randy Crawford</b> Small Business Program Manager</p>



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## Welcome and Opening Comments

**Scott Kennedy**

Division Director, Modernization and Infrastructure

## Near Term Line Item Construction

### High Explosives Science and Engineering (HESE):

- **Budget:** \$275M
- **Schedule:**
  - **Complete Construction:** Q4 FY25
  - **Approval to Start Operations:** Q2 FY28

### High Explosives Synthesis, Formulation, & Production (HESFP) Scope:

- **Budget:** \$700M
- **Schedule:** Project restarted
  - **Complete Construction**– FY30
  - **Approval to Start Operations** – FY33

### Analytic Gas Laboratory:

- **Budget:** \$36M
- **Schedule:** Project restarted
  - **Complete Construction**– FY27
  - **Approval to Start Operations** – FY28

### Material Staging Capability (MSC):

- **Budget:** \$450M - \$1.8B
- **Schedule:** Project restarted
  - **Complete Construction**– FY30
  - **Approval to Start Operations** – FY33



HESE



HESFP



Analytic Gas Laboratory



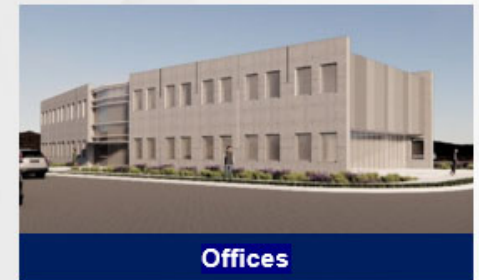
HESE

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## Mission Support Facilities

Build 1 direct funded General Plant Project (GPP) per year, and 2 indirect funded IGPPs per year

- **Master Site Plan – updated in FY24**
  - Includes all Line Items, GPPs, and IGPPs to support the mission for 25+ years
  - Aligned with the Enterprise Blueprint
  - Optimized for affordability and execution bandwidth
  - Includes on-site housing for all employees
    - Site is  $\approx$  500 seats short; lease in Amarillo fill about half the need
- **Single Award Task Order Agreement SATOC**
  - Design/build contract with Jacobs & Hensel Phelps
    - Potential for sub-tier contracting opportunities
  - \$600M over total potential contract span of 9 years
  - Primarily for construction of:
    - Offices
    - Light Labs
    - Warehouses
    - Small Line Items
  - Includes setting “building guidelines” for architecture and aesthetics



# Weapon Assembly and Disassembly – Required Sustaining Infrastructure

## High Risk Plant Infrastructure

### HVAC and Chillers

- 1,390 units, majority beyond their operating design life
- Need to replace 70 units/year

### Electrical Distribution System

- 80 miles of underground and overhead distribution
- Significant recent risk reduction projects with more required

### Fire Protection System

- ≈ 75% complete with Bay/Cell portfolio lead ins and flame detection
- Zone separation of high pressure fire loop (HPFL)

### Zone 4 MAA Life Sustainment

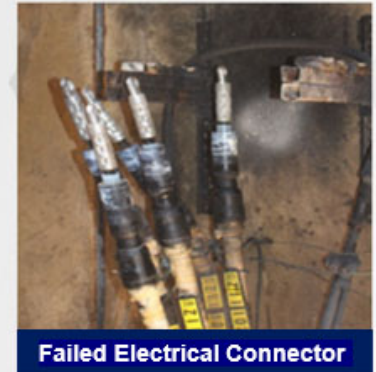
- Zone 4 West Material Access Area (MAA) facilities require maintenance
- Zone 4 East HE inventory exit strategy, including new storage GPPs
- Mobile Guardian Transport (MGT) readiness

### Domestic Water System – Plant Water and Feed to HPFL

- 4 refurbished wells need to be replaced
- 30 miles of underground water mains to be replaced in phases



Temp Chiller at 12-121 HE Machining



Failed Electrical Connector



HPFL Pipe Failure



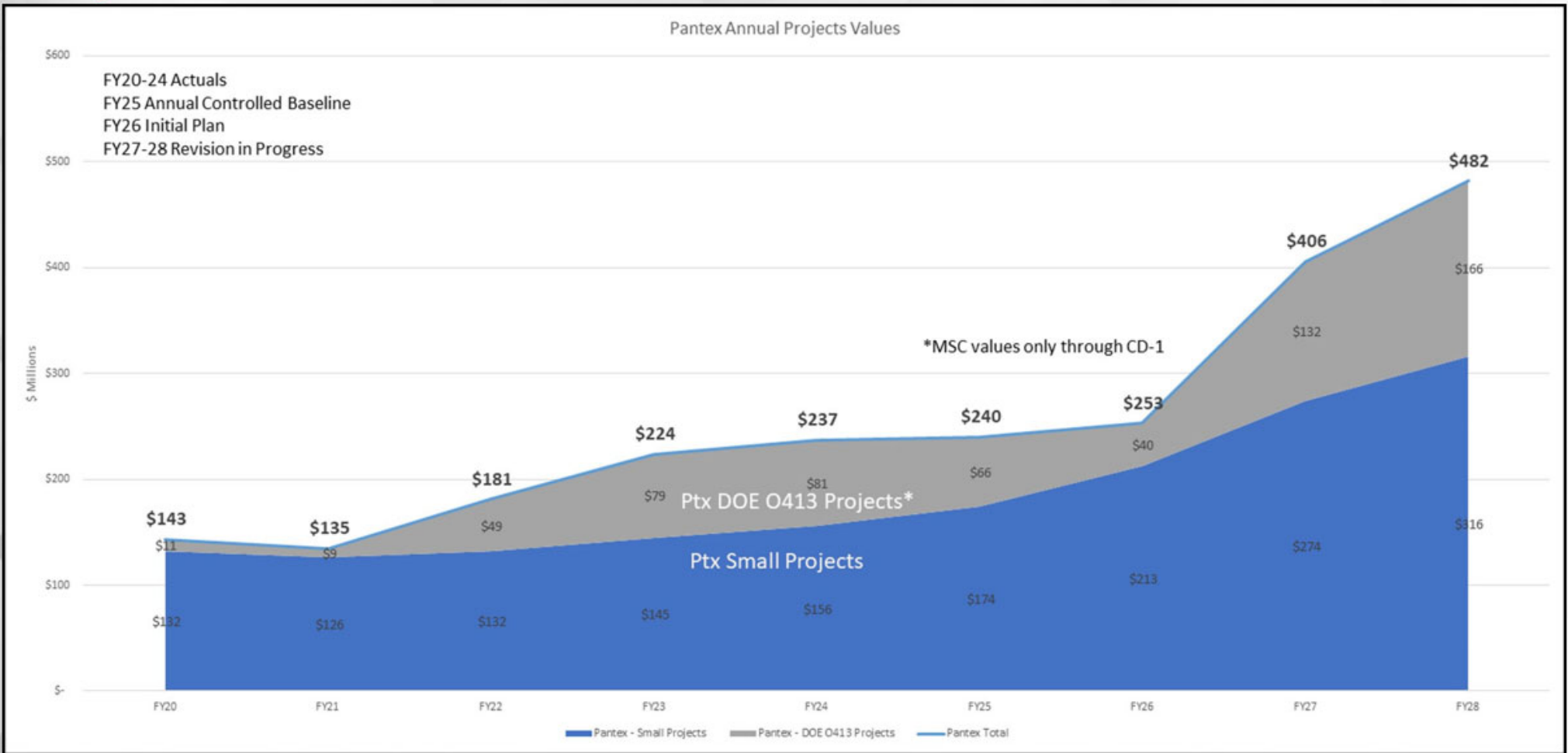
Zone 4 Magazine Degradation



Domestic Water Main Line

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# Project Execution Outlook



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## Forward Look

**Brandy Morgan**

Senior Director, Supply Chain Management

## 83 Years of Procurement & Vendor Relationships



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# SERVICES

Title	Quantity	Anticipated Values
IT Hardware / Software	10 or more	\$500-\$500,000
General Services Legal	3 or more	\$8000-\$300,000
Equipment Maintenance	3 or more	\$3000-\$200000
Vehicle Maintenance	3 or more	\$20,000-\$40,000
Equipment Leases	1 or more	\$100,000-\$200,000
Research & Development Design	1 or more	\$75,000-\$150,000

# COMMODITIES

Title	Quaintly	Anticipated Value
Water Filtration System	2 or More	\$30,000-120,000
Pro Force gear	5 or more	\$1000-\$30,000
Utility Vehicles	6 or more	\$20,000-\$60,000
Ice Machine	1 or more	\$2000-\$4000
Network Switch	2 or more	\$30,000-\$50,000

# CONSTRUCTION

Title	Quantity	Anticipated Values
11-55, Replace Toxic Vapor Monitoring	1	\$500,000-\$700,000
16-13 Boiler Control System and Uninterruptible Power Supply (UPS) Upgrade	1	\$UNK
Complex HVAC	Single Award BOA	\$15,000,000-\$100,000,000
Non-Complex HVAC	Multi Award BOA	\$15,000,000-\$100,000,000

## Become a Pantex Vendor

- Vendor Identification
- Vendor Qualification
- Vendor Review
- Vendor Onboarding
- Vendor Performance
- Vendor Risk Management
- Vendor Relationship
- Vendor Offboarding



Created by Kamin Ginkaew  
from Noun Project



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## Question & Answer Session



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## **Procurement Operations Overview and Staff Introductions**

**Justin Schenk**

Senior Manager, Construction & Services

**Mark Epperson**

Senior Manager, Commodities, Capital Equipment, & Tooling



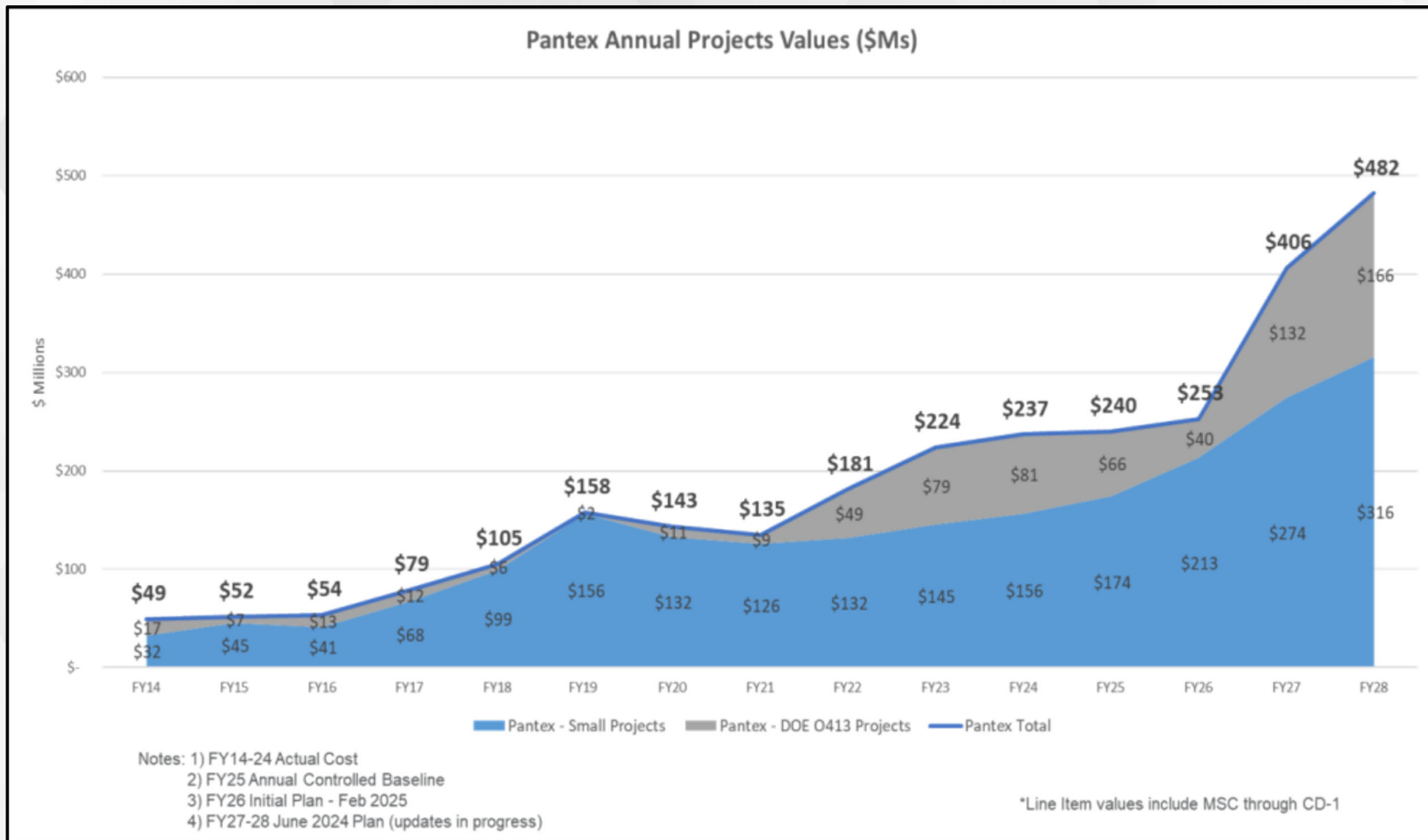
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## **Infrastructure and Capital Projects Forecast**

**David Crump**

Director, Enterprise Planning and Development

# PXD Project Workload



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## Remaining FY25 Pantex Awards

Project Name	Procurement Description	Type of Scope	Competition Strategy	Award Qtr	Award Range
12-011 & 12-011A, 12-003 & 12-001 Sampling & Characterization	Characterization	D&D	BOA	FY25 Q3	\$150K-\$500K
12-84 5 & 7 RAMS	Construction	Construction	SATOC	FY25 Q3	\$150K-\$500K
ALPHA 7P Replacement CAM	Design/Prototype Manufacture	GFE	Sole Source	FY25 Q3	\$150K-\$1M
Building 12-84, Bay 16 RAMS	Construction	Construction	SATOC	FY25 Q3	\$150K-\$500K
Pantex Monitoring & Verification Test Facility (PMVTF)	Construction	Construction	Full & Open	FY25 Q3	\$5M-\$10M
12-063 Complex Disposition	Construction	D&D	Full & Open	FY25 Q3	\$1M-\$5M
12-44 Cell 1 Refurb and Upgrades	Construction	Construction	Full & Open	FY25 Q3	\$1M-\$5M
12-011 & 12-011A Demolition	Utility Reroute / Interior Demolition / Abatement / Demolition	D&D	BOA	FY25 Q3	\$1M-\$5M
11-55, Replace Toxic Vapor Monitoring	Construction	Construction	Full & Open	FY25 Q3	\$1M-\$5M
16-12 HVAC Replacement	Design/Build	Design/Build	Full & Open	FY25 Q3	\$1M-\$5M
12-64 Bays 11, 12, 15 Stage Right Mods	Construction	Construction	Full & Open	FY25 Q3	\$1M-\$5M
16-19 Canopy	Construction	Construction	Full & Open	FY25 Q3	\$500K-\$1M
16-19 Fence, Racks & Lights	Construction	Construction	Full & Open	FY25 Q3	\$500K-\$1M

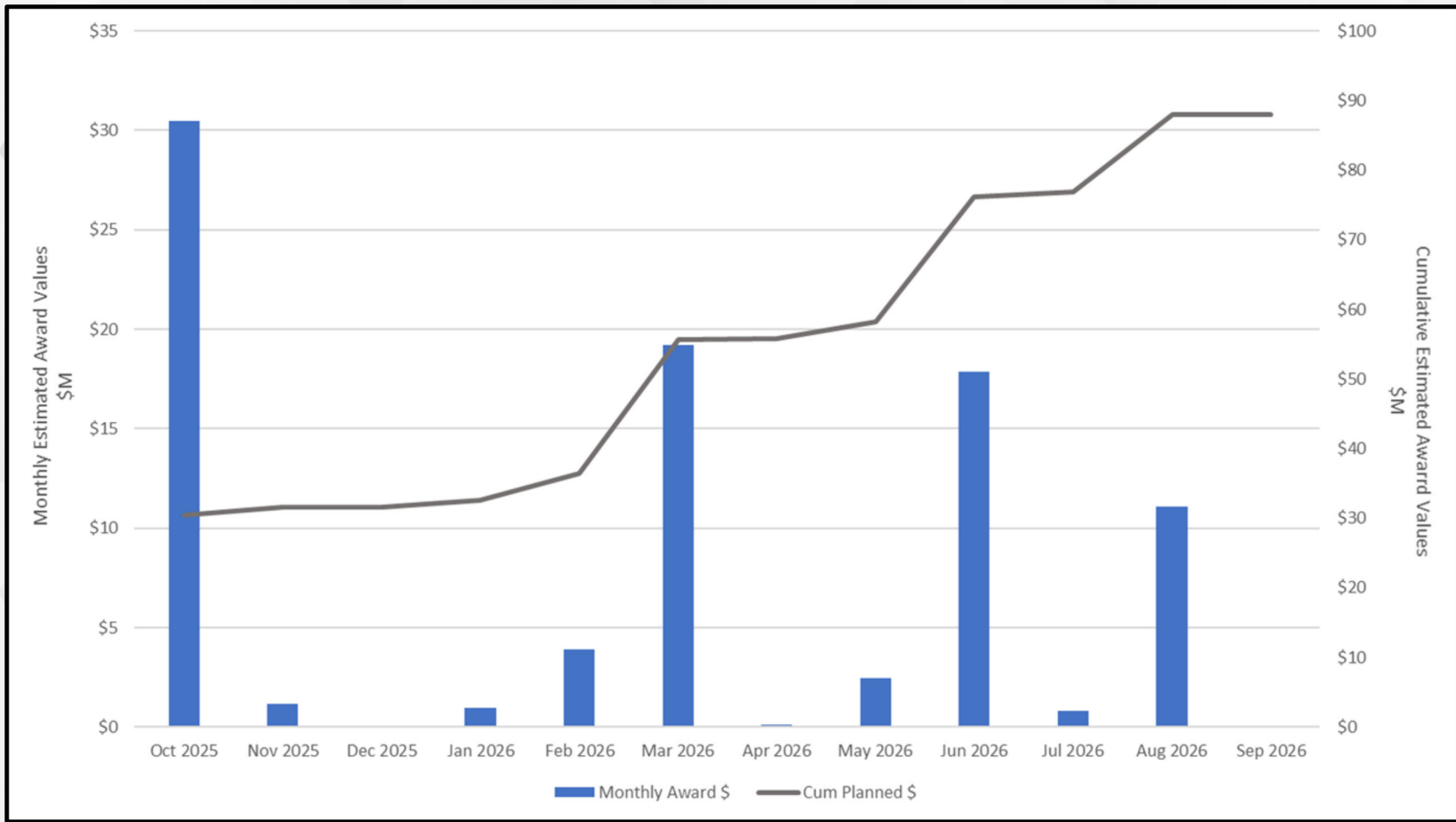
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## Remaining FY25 Pantex Awards

Project Name	Procurement Description	Type of Scope	Competition Strategy	Award Qtr	Award Range
Bldg. 09-023 Replacement	Construction	Construction	Full & Open	FY25 Q3	\$500K-\$1M
WETL Lab Addition	Construction	New Facility	Full & Open	FY25 Q3	\$5M-\$10M
East Gate Restroom	Construction	Construction	SATOC	FY25 Q3	\$500K-\$1M
Bldg 12-104 B12, B14, B16, C4 & ELC5 HPFL Lead-In	Construction	Construction	Release Option	FY25 Q4	\$1M-\$5M
Bldg 12-104 B12, B14, B16, C4 & ELC5 & FDS (B12 & B14) Replacements	Construction	Construction	Release Option	FY25 Q4	\$1M-\$5M
12-44, Cells 4 and 5 and 12-86, Room 159 RAMS	Design Refresh	Design	Release Option	FY25 Q4	<\$150K
Gas Lab	A/E Design	Construction	SATOC	FY25 Q4	\$1M-\$5M
Utility Corridor Installation	A/E Design	Design	SATOC	FY25 Q4	\$1M-\$5M
Bldg 12-104 B12, B14 RAMS	Construction	Construction	SATOC	FY25 Q4	\$500K-\$1M
Pantex Monitoring & Verification Test Facility (PMVTF)	RAMS GFE	GFE	Sole Source	FY25 Q4	\$150K-\$500K
16-1 Downstairs HVAC	Design/Build	Design	SATOC	FY25 Q4	<\$150K
12-44 C2 & C3 FDS Replacement	Construction	Construction	Release Option	FY25 Q4	\$1M-\$5M
Bldg. 15-33 Pump House and Tank Upgrade	A/E Design	Design	SCMC	FY25 Q4	\$500K-\$1M
Bldg 12-104 B12, B14, B16 RAMS	Title III	Design	Release Option	FY25 Q4	<\$150K
12-44 Cell 5 and 6 HVAC Replacement	Construction	Construction	Full & Open	FY25 Q4	\$500K-\$1M
16-1 Downstairs HVAC	Construction	Construction	SATOC	FY25 Q4	\$150K-\$500K

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# Upcoming FY26 Awards



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## Upcoming Pantex Awards

Project Name	Procurement Description	Type of Scope	Competition Strategy	Award Qtr	Award Range
HESFP Site Prep	Construction	Construction	Full & Open	FY26 Q1	>\$20M
Bay & Cell RAMS Replacements – (12-44 C2, C3, C6)	Title III	Design	Release Option	FY26 Q1	<150K
PX - Bay & Cell RAMS Replacements – Package 3 Installations (12-44 C5 & C6)	Construction	Construction	SATOC	FY26 Q1	\$500K-\$1M
12-66 Fire Damper Replacement	Construction	Construction	Full & Open	FY26 Q1	\$500K-\$1M
35 Account Material Tracking System	Hardware	Design	SCMC	FY26 Q1	\$150K-\$500K
12-003, 12-003L, 12-R-003 Disposition	Demolition	D&D	BOA	FY26 Q1	\$1M-\$5M
16-12 Entrance/RR Refurbishment	Construction	Construction	Full & Open	FY26 Q2	\$150K-\$500K
16-19 Office Refurbishment	Construction	Construction	Full & Open	FY26 Q2	\$150K-\$500K
Install 11-61 Pellet Press (CE)	Construction	Construction	Full & Open	FY26 Q2	\$1M-\$5M
PX New Environmental Support Facility	A/E Design	Design	SATOC	FY26 Q2	\$500K-\$1M
Domestic Water Phase III – 15-25/33 HPFL	A/E Design	Design	SCMC	FY26 Q2	\$150K-\$500K
Utility Corridor Installation	Construction	Construction	SATOC	FY26 Q2	\$5M-\$10M
Gas Lab Replacement	Construction	Construction	SATOC	FY26 Q2	\$5M-\$10M
12-84 Restroom/Breakroom Renovation	Construction	Construction	Full & Open	FY26 Q2	\$500K-\$1M
Contractor Entrance Security Building	Construction	Construction	Full & Open	FY26 Q2	\$1M-\$5M

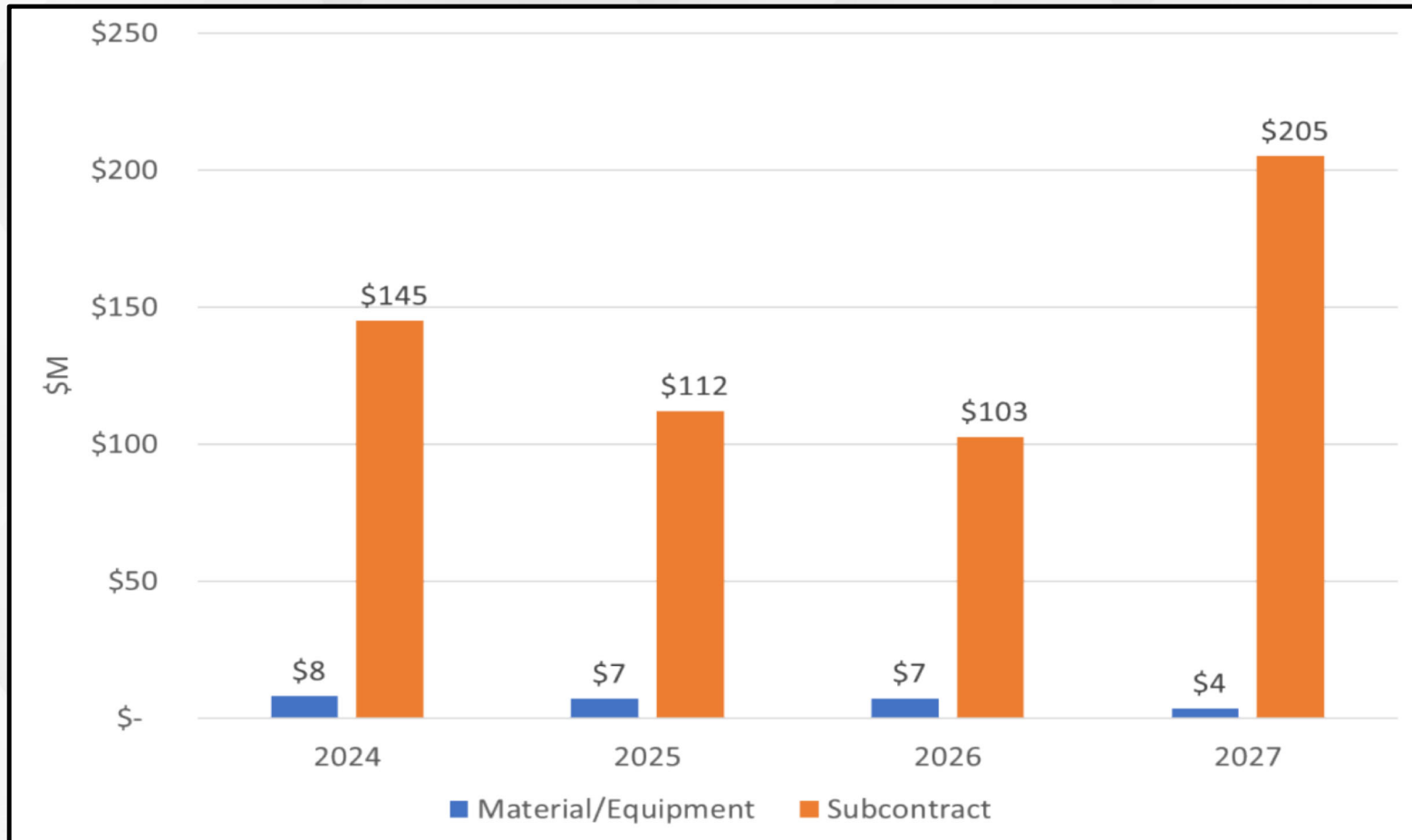
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## Upcoming Pantex Awards

Project Name	Procurement Description	Type of Scope	Competition Strategy	Award Qtr	Award Range
Four Environmental Chamber Replacements	Construction	Construction	Full & Open	FY26 Q2	\$5M-\$10M
Prep for Demo: 11-014/028/R-004/053	Characterization	D&D	BOA	FY26 Q3	<\$150K
12-125 HVAC Replacement	A/E Design	Design	SCMC	FY26 Q3	<\$150K
12-123 Compressed Air System	Construction	Construction	Full & Open	FY26 Q3	\$1M-\$5M
Nickel Plating Cap – Plating Room Upgrade	Construction	Construction	Full & Open	FY26 Q3	\$1M-\$5M
New Paint Facility	A/E Design	Design	SATOC	FY26 Q3	\$150K-\$500K
Production and MC Light Replacement	Construction	Construction	Full & Open	FY26 Q3	\$500K-\$1M
Z12 Vehicle Barrier	Construction	Construction	Full & Open	FY26 Q3	\$1M-\$5M
Z12 North PIDAS	Construction	Construction	Full & Open	FY26 Q3	\$10M-20M
11-50 Subassembly Capability	Construction	Construction	Full & Open	FY26 Q3	\$1M-\$5M
09-001, 09-054, 09-111, 09-149 Disposition	Demolition	D&D	BOA	FY26 Q4	\$150K-\$500K
Bldg 15-33 Pump House and Tank Upgrade	Construction	Construction	Full & Open	FY26 Q4	\$1M-\$5M
Container Storage & Refurbishment Facility	A/E Design	Design	SATOC	FY26 Q4	\$1M-\$5M
11-50 CNC Bandsaw	Construction	Construction	Full & Open	FY26 Q4	\$1M-\$5M
SMS Upgrade – 100 Circuit	Construction	Construction	Full & Open	FY26 Q4	\$5M-\$10M

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## Pantex FY25-27 Projected Spend Plan



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## Question & Answer Session



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## **Contract Post Award Execution**

**Justin Schenk**

Senior Manager, Construction & Services

**James Hudgens**

Construction STR Manager

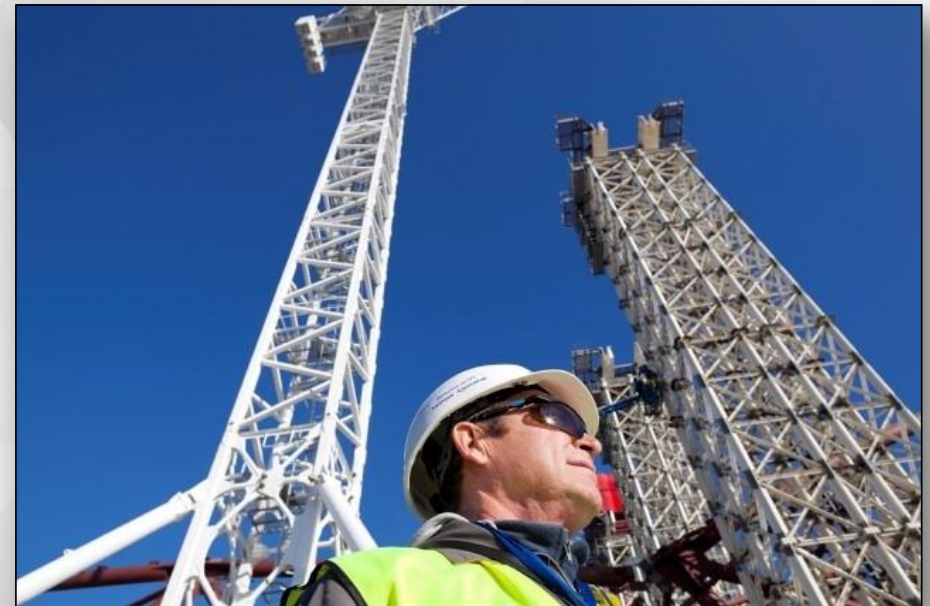
## Post Award Activities

**You won the award... Now what?**

- Safety
- Team
- Mobilization
- Execution
- Closeout

## Construction Safety

- Hazard Analysis
- Safety Task Analysis Risk Reduction Talk (STARRT) Card
- Projects/Construction Safety Improvement Plan
- Construction Safety Compliance and Monitoring



## Safety Performance

- **Zero incidents - for all phases of job – not just construction!!!**
- **Execution essentials**
  - ☑ Safety as a value
  - ☑ Strong start
    - Expectations/ Consequences
    - Procedures/ Plans
    - Subcontractors
  - ☑ Trained People
    - Continuously improve safety knowledge of team

## Construction Team

- Manager of Construction
- Project Construction Manager(s)
- Project Field Engineer
- Project Superintendent
- Subcontracts Manager
- ES&H
- Field Procurement
- Quality Control
- Project Controls (matrix to Construction)

## Construction Team and Current Construction Activities

### Construction Safety

#### Subcontractor Safety:

- 2,618 Days since last LTI
- 266 Days since recordable
- 0.0 TRIR

### Construction Resources

- 53 Construction Craft (Self Perform)
- 83 Subcontractors (Small Projects)
- 166 Subcontractors (Line Item Projects)
- 44 Subcontractor 3<sup>rd</sup> Party
- 41 Construction Management Staff

### Construction Scope

- 26 active construction sites
- 2 active line item
- 4 active 3<sup>rd</sup> party sites

### HESE Construction Site

- 2.5 year lead time for blast tanks
- Industrial forklifts (30k lb.)
- Dual Pick to offload and transport into building



## Prior to Construction Mobilization

### Construction will provide the following prior to mobilization:

- Early constructability participation and effectiveness of program

### Schedule

- Construction schedule and schedule logic developed with subcontractor

### Jobsite facilities planning, including:

- Temporary facilities
- Utility requirements
- Special requirements for access, rigging, etc.
- Construction equipment, crane, laydown, etc.
- Impacts to Operating Facilities

## Construction Work Authorization Activities

- Project Execution Plan Approved
- IFC Design Issued
- Funding Available
- Operational Safety Board/Facility Approvals
- Penetration/Excavation Permits
- USQD Screening Performed
- Material on Hand
- Subcontractor Submittals Received/Approved
- Security Escorts and Escort Agreement
- Waste Management Plan
- IH/Environmental/Beryllium Plans
- Radiological Work Permit
- Hazards Analysis
- Hoisting/Rigging
- Lockout/Tagouts
- Inspection Packages
- Work Packages
- Start-up Test Plans

## Construction Execution

- Weekly Construction Progress / Performance / Issues Meeting
- Facility / Access Approval
- Weekly resource planning
- Coordination of Security Escorts
- Maintenance of Work Inspection Package – Quality Inspections
- Installation Change Request (ICR)
- Nonconformance Reporting (NCR)
- TOPIC/Critique Process
- Outage Requests and Planning



Temporary HVAC trailer to support HVAC replacement

## Construction Execution Attributes

### Construction Management (Subcontractors):

- Subcontractor's responsibility for control and direction of labor forces
- Subcontractor is responsible for their field costs, labor productivity, schedule, labor relations, supervision, finance and accounting, and safety
- Subcontractor is responsible for Quality Control
- **Pantex** is responsible for the following:
  - Subcontractor coordination and interfacing
  - Managing subcontractor claims, extras, and extra work
  - Overall control of cost and schedule and ultimate Safety and Quality of project

## Construction Execution Attributes for GC

### Construction Management of a Third Party General Contractor

- General Contractor is responsible for the following:
  - All field operations, including safety, labor, materials, supervision, tools, etc.
  - Obtaining subcontractors for special work activities and coordinating their work
  - All Quality Control and Quality Assurance
- All design discrepancies and engineering problems will be referred to Engineering organization.
  - Have an obligation to provide a prompt response to avoid impact progress or costs
- **Principle role of Pantex: Manage activities of General Contractor in meeting project milestones, interfacing with client, and job-site safety.**

## Project Completion Activities

- ✓ Final acceptance
- ✓ Performance guarantees and warranties
- ✓ **Turnover of documentation**
- ✓ Warranty period liabilities
- ✓ Project critique and customer feedback
  - Best practices / lessons learned





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## Question & Answer Session



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## Final Comments

**Brandy Morgan**

Senior Director, Supply Chain Management



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## **Supplier Introductions**

**One Intro/Brief per Supplier**

**Company Name, Contact Name(s), Brief Description of Products or Services**

**Please limit to 30 seconds or less.**



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