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Brian P. Gallagher
Division Director
Cyber Intelligence Division
Northrop Grumman Information Systems

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NGC Capabilities at a Glance

- Weaponized Platforms
- Resilient Systems
- Weaponized Payloads
- Non-Kinetic Effects
- Secure Supply Chain
- Cyber Capability
- Training Programs
- Facility Staffing
- CND Operations (IC, DoD, Fed)
- Title 50 & Title 10 Operations
- Intelligence Fusion & Analysis
- NCC, Kinetic & Non-Kinetic C2
- Next Generation Networks

Integrated Cyber Security Goals and Future Vision

Corporate Cross Sector Initiatives
- Project Viceroy
- Project NKE
- Multi-Int, Multi-Sensor Mission Assurance
- Coordinated Non-Kinetic and Kinetic Mission Assurance

Committed to Addressing The Nation’s Challenges
Standardization: The Program Execution Framework (PEF) Reference Model

Reference model shows all activities for all program types
1. **Product Development**. Activities involved in the transformation of customer needs to delivered products or service systems required to deliver services.

2. **Product Maintenance**. Activities involved in the adaptive, corrective, improvement, enhancement and sustainment of delivered products.

3. **Production / Manufacturing**. Activities to repetitively produce products with no or slight variations on an approved core design.

4. **Staff Augmentation**. Activities related to providing consulting expertise with process ownership of program management only; delivering hours only. Management of the activities is done by the customer.

5. **Professional Services**. Activities related to providing services as specified, including ownership of essential processes. Unique program management of the activities is done by NG.

6. **IT Managed Services**. Activities related to providing Information Technology infrastructure services to organizations.

7. **Operations**. Operations, routine maintenance, and / or support to accepted, deployed, operational systems.

8. **Product Line**. Activities to build a set of systems or products sharing a common, managed set of features that satisfy the specific needs of a particular market segment or mission and that are developed from a common set of core assets in a prescribed way.
NGIS Program Execution Framework (PEF)

Reference Model defines:
- Core activities for Programs, Engineering, Mission Assurance
- Review gates
Each activity defined by:
- Policy (Command Media ISP)
- Procedure (Command Media ISO)
- Work products and success criteria

NG PM Pro tool encapsulates:
- Program types
- Work products and success criteria
- Business rules to select applicable work product elements, success criteria, and gates

For each activity, T3G defines:
- Templates
- Tools
- Training
- Guidance
Key Tenets

- Affordability is the practice of ensuring program success through *the balancing* of system performance (KPPs), total ownership cost, and schedule constraints *while satisfying mission needs* in concert with long-range investment, and force structure plans of the DoD.

- To meet these principles we are recommending guidance for *Affordability and SE Tradeoff Analyses* that *yield visibility* into the relationship among the life-cycle phases, the KPPs and mission effectiveness. Key issues to be resolved:
  - Quality of empirical data for estimation
  - Ensuring compatibility of affordability principles with budget and competitive procurement policies and processes
  - Life-cycle RAA (responsible, authority & accountability)
Summary

• CMMI can help diverse cultures establish a common process framework to enable Program Execution success

• Strong, disciplined acquisition and development processes based on CMMI models (ACQ, DEV, SVC) is essential for meeting affordability challenges