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The Purpose of Program Planning and Control is Program and Project Success

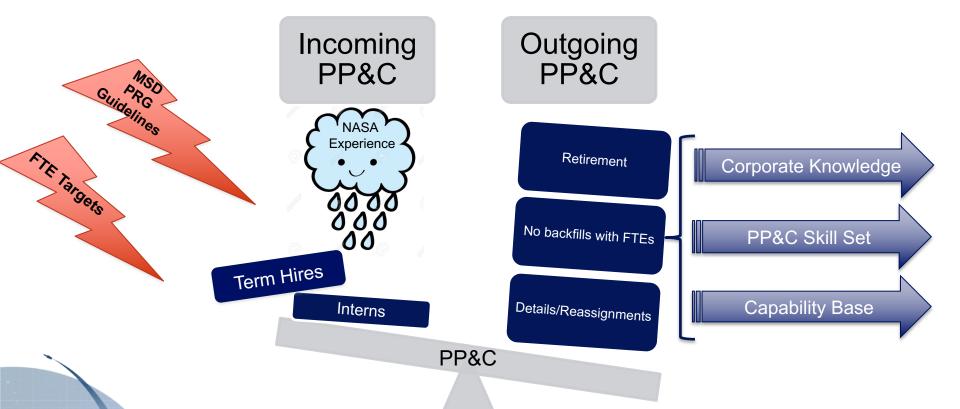


Opening Statement

The value added in PP&C lies in the synthesis, analysis, assessment, and interpretation of information to enable effective program and project management decisions

- PP&C is a core capability for mission success
- PP&C combines inter-related disciplines necessary to developing the plans for executing a project and subsequently assessing and evaluating progress against that plan
- The PP&C Manager is a valuable member of the management team bringing together the budget, cost and schedule performance, risk, technical content, the industrial base, and mission objectives

PP&C and Program/Project Success



MSFC PP&C Capability Erosion

5/13/22

2021 Report



2021 GAO Recommendations

- Establish cost and schedule baselines for additional human spaceflight capabilities in a timely manner to ensure the baselines are a useful programmatic tool and to demonstrate a commitment to improving transparency into long-term human spaceflight costs.
- Implement our recommendations related to its lunar missions, including developing a life-cycle cost estimate for the Artemis III mission, and defining and determining a schedule to ensure requirements are aligned across programs.
- Build capacity by ensuring that NASA's workforce has the right skills to develop project cost and schedule estimates that meet best practices.
- Demonstrate sustained improvement in cost and schedule performance for new, large, complex programs entering the portfolio.

Source: GAO analysis. | GAO-21-119SP

GAO High Risk List

Program Planning & Control (PP&C) Office Manager: Andy Prince Deputy: Mary Duncan CS50 Earned Value Capability **Engineering Stewardship** Management Cost PP&C Leadership for Cost Estimates and EVM Leadership **MSFC** Analyses for NASA Education Cost Models and the REDSTAR Program/Project Library Support Agency PP&C Contract

The MSFC OSAC PP&C Office

- Work Breakdown Structure (WBS)
- Schedule Development and Analysis
- EVM Implementation
- Program/Project Analysis
- Independent Assessment
- Contract Administration
- Business Case Analysis
- Cost/Benefit Analysis
- PP&C Training

- Cost Estimating and Analysis of Science Missions, Launch Vehicles, Space Transportation Systems, and Crewed Systems
- Confidence Level (Cost Risk) Analysis
- Launch Vehicle Industrial Base Analysis
- Data Collection, Normalization & Analysis
- Data Cataloging, Management, and Distribution
- Cost Model Development & Automation

The OSAC PP&C Office provides a high degree of knowledge and expertise in all PP&C disciplines

Knowledge and Expertise

Discipline	Stewardship Org	
Budget Development	OCFO	
Funds Control	OCFO	OSAC has primary stewardship
Project Analysis	OSAC	responsibility for
Risk Management	S&MA/OSAC	these key analytical
Work Breakdown Structure	OSAC	disciplines, and a
Acquisition & Contract Management	OP/OSAC	responsibility to partner with OCFO,
Configuration/Data Management	Engineering	S&MA, OP, and
Scheduling	OSAC	Engineering to support
Earned Value Management	OSAC	the stewardship of the
Cost Estimating & Analysis	OSAC	

PP&C Disciplines

Advocacy

MSFC Focal Point for PP&C Improvement

Education

- PP&C Training Classes*
- MSFC PP&C Website, Handbook, and Community of Practice

Involvement

- EVM Working Group
- PP&C Steering Group Representative
- Cost Analysis Steering Group Representative

Opportunity

 Details and Rotations for future PP&C Leaders and Program/Project Managers* Leverage Center and Agency resources to create knowledgeable and skilled PP&C professionals

*These activities directly support P/PM development

PP&C Leadership and P/PM Development

			Time	Start
Course	Date	Instructor	allotment	Time
WBS	Wed, Jan 12, 2022	Chris Sadler	4hrs	8:30
Planning and Scheduling	Wed, Feb 9, 2022	Melissa Lee	8hrs	8:30
EVM Overview Course	Wed, Mar 2, 2022	Chris Sadler	8hrs	8:30
Cost Estimating	Tuesday, Mar 22, 2022	Andy Prince	4hrs	8:30
Project Performance Analysis	Wed & Thurs, April 13-14	Melissa Lee & Chris Sadler	8hrs	8:30
Using MSP to Manage Your Project	Wed, May 4, 2022	Melissa Lee	8hrs	8:30
Schedule Analysis and Assessment	Wed, Jun 8, 2022	Chris Sadler	5hrs	8:30
WBS	Wed, July 13, 2022	Chris Sadler	4hrs	8:30
Planning and Scheduling	Wed, Aug 10, 2022	Melissa Lee	8hrs	8:30
Cost Estimating	Tuesday, Aug 23, 2022	Andy Prince	4hrs	8:30
EVM Overview Course	Wed, Sep 14, 2022	Chris Sadler	8hrs	8:30
Project Performance Analysis	Wed & Thurs, Oct 5-6, 2022	Melissa Lee & Chris Sadler	8hrs	8:30
Using MSP to Manage Your Project	Wed, Oct 26, 2022	Melissa Lee	8hrs	8:30
Schedule Analysis and Assessment	Wed, Nov 9, 2022	Chris Sadler	5hrs	8:30

FY22 OSAC-led PP&C Training

- Smart fill vacancies to restore capability
- Define an MSFC PP&C development program
- Ensure future MSFC Program/Project Managers have knowledge of and appreciation for PP&C
- Be an active participant in the NASA PP&C community



- The Future of NASA PP&C is Multi-Disciplinary Specialists
 - May have one Preferred Discipline, but able to Work in the Others
- Culture Shift: The PP&C Profession is Universally Recognized as Vital to Program and Project Success
 - Highly Trained, Experienced, and Assertive PP&C Professionals
 - Project Managers who Understand and Appreciate the Value of PP&C, and what brings PP&C to the Table

