

National Aeronautics and Space Administration

NASA UPDATE

**NDIA PMSC Quarterly Meeting
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Topics

NASA's EVM Leadership

Center EVM Points of Contact

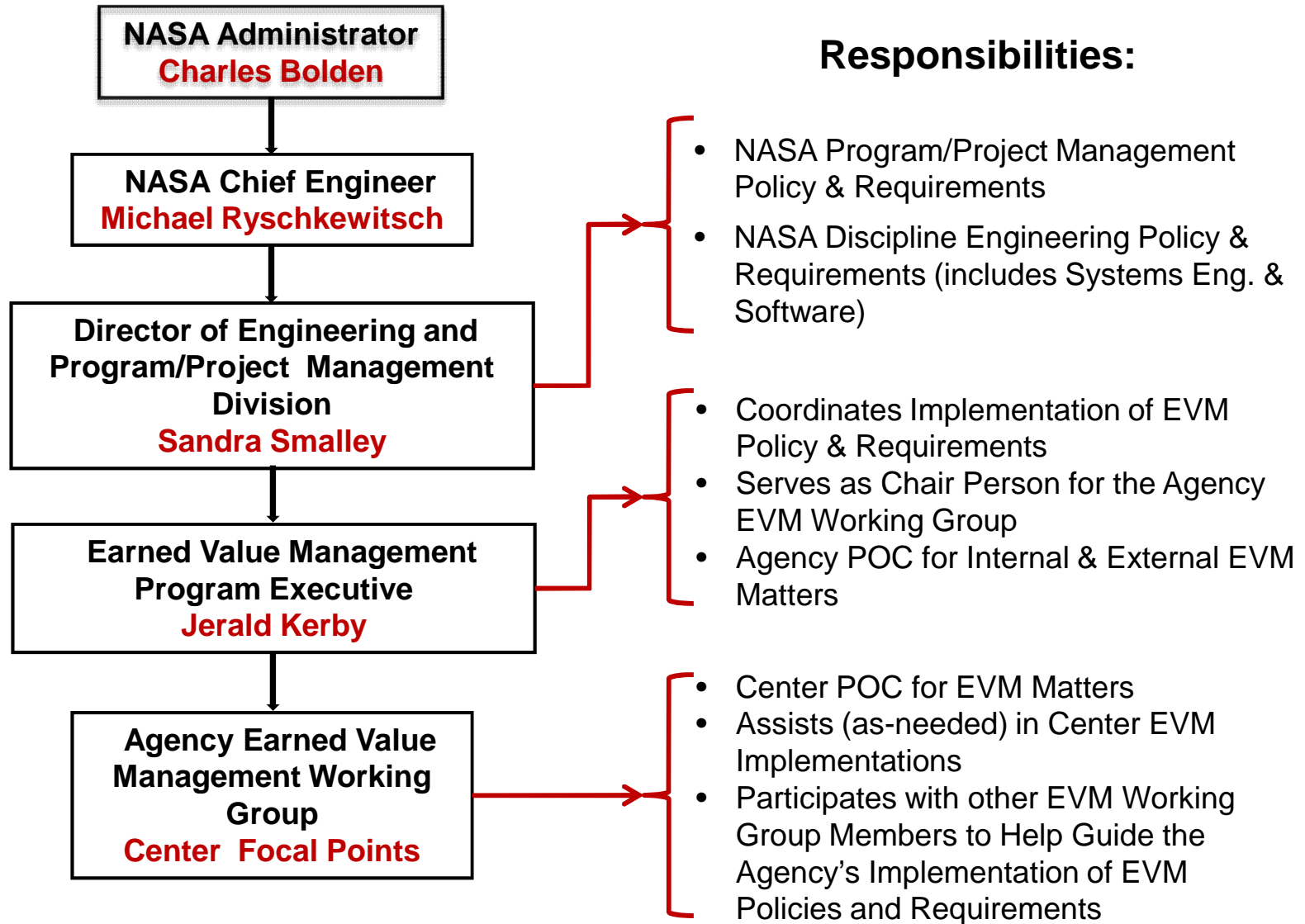
**Update on NASA Management & EVM Policy and
Requirement Activities**

**Current Status of Internal EVM Capability Pilot
Testing**

Issues facing Internal EVM Implementation

Suggestions & Areas of Improvement for Industry

NASA's EVM Leadership



NASA Center EVM Points of Contact

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EVM Policy & Requirement Activity

Policy Updates:

- 1. NASA's Program/Project Management Requirements for Flight Projects, NPR 7120.5 version E has slipped from a 4th Qtr CY2010 completion to a 4th Qtr CY2011 expected finish**

In order to be more responsive to all program/project stakeholders, the following concerns are currently being addressed and incorporated:

- The need for increased NASA Center-level responsibility for program/project implementation
 - The need for increased maturity in Phase B project baseline planning
- 2. The NASA EVM System Description Document (SDD) is currently in Rev. 4 and awaiting the next round of updates to support the Final Peer Review planned for this summer. Final refinements will be incorporated after the Peer Review.**

EVM Policy & Requirement Activity

Policy Updates (cont'd):

3. **NASA has proposed a revision to remove requirements contained in the NASA FAR Supplement (NFS) for contractors to establish and maintain an Earned Value Management System (EVMS) for firm-fixed-price (FFP) contracts.**
 - The proposal recognizes the reduction in risk associated with FFP contracts
 - NASA recognizes that implementation of EVM on FFP contracts potentially results in an unnecessary reporting burden
 - April 11, 2011 was the cut-off date for Interested parties to submit their comments for consideration in formulation of the final rule.

Current EVM Capability Project Status

Currently in Implementation phase (C/D)

1st EVM Pilot complete (Extravehicular Activity (EVA) Project – Johnson Space Center)

EVA pilot canceled in June 2010 because of changes & uncertainty within the Constellation program/project offices

Documented Results/ Lessons Learned/Issues Papers

(Two Issue Papers Submitted for Consideration)

Inconsistency between Plan and Performance

Business Rules and Actual Cost

2nd EVM Pilot in-progress (Ice, Cloud, and land Elevation Satellite II (ICESatII) Project – Goddard Space Flight Center)

Began in Sept. 2010 at GSFC

Pilot on-hold from Nov. 2010 until Jan. 2011 for major re-planning

PMB established end of Feb. 2011

First CPR run early Apr. 2011

Pilot Completion scheduled Jun. 2011

Issue Papers

Inconsistency Between Plan and Performance

Impacts NASA's effective use of the EV approach to enhance project management. Examples of impact to EVM:

Creates artificial variances which reduce the accuracy and value of EVM metrics for meaningful performance measurement

Compromises the predictive value of EVM performance metrics that enable reliable ETC and EAC determination

Business Rules and Actual Costs

Impacts the credibility of Earned Value data and minimizes the value of its use for project management. The following are three effects.

Causes incorrect data

Distorts true performance

Impairs accurate predictive capability of EV metrics

The Path Forward for EVM Capability Development

Complete the ICESat2 Pilot and document findings and lessons learned

Complete updates to all EVM System documentation as-needed

Develop a transition strategy for long-term EVMS implementation

Continue to provide the Agency EVM Steering Committee with information to make effective decisions

Enter into Operations & Maintenance upon successful completion of the Final Peer Review

Project Closeout (Agency-wide implementation IS NOT in-scope for this project)

Suggestions & Areas of Improvement for Industry

Strengthen the Scheduling Discipline – continues to be a industry-wide weakness in project management

Logic networks that accurately models the planned implementation for the total SOW

Ability to identify a project's true critical path

Work through NASA's Center EVM Focal Points and EVM Program Executive to resolve issues (Note: when-ever contacting a Center EVM Focal Point regarding an issue please copy the NASA EVM Program Executive also)

Questions?



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