



# Continuous Risk Management (CRM) Executive Overview



March 1, 2004

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# CRM Executive Overview



## What is CRM?

- A management process that incorporates methods and tools for managing program/project risks
- A systematic decision-making process that increases the likelihood of reducing cost and schedule impacts in order to achieve program/project goals

## CRM Requirements

- NPR 7120.5B, "Program and Project Management Processes and Requirements" Paragraph 4.3.2
- NPR 8000.4, "Risk Management Procedures and Guidelines" Paragraph 1.2
- MWI 7120.6B, "Program/Project Risk Management"
- Data Requirements Document (DRD) STD/MA-RMP, "Risk Management Plan, Analysis and Tracking Reports"



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## CRM creates a disciplined environment for proactive decision making by

- Continuously assessing what can go wrong (risk identification)
- Determining which risks to address first (risk prioritization)
- Implementing strategies to effectively manage risk (risk mitigation)

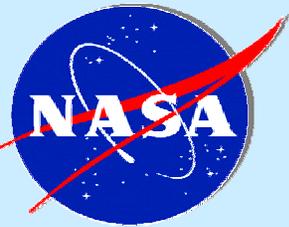


# CRM Executive Overview



## CRM increases likelihood of mission success by

- Fostering a “THINK RISK” mindset aimed at preventing problems before they occur
- Improving product quality
- Enabling better use of resources
- Promoting teamwork



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## CRM Process



**Identify** – Identify risks before they become problems. Develop a project risk list that includes risks from each discipline.

**Analyze** – Evaluate impact/severity, probability and timeframe of each risk and classify and prioritize accordingly.

**Plan** – Decide what should be done about risks. Develop risk mitigation plans, develop risk acceptance rationale and risk tracking requirements.

**Track** – Monitor risk metrics and verify/validate mitigation actions. Develop Risk Status Reports.

**Control** – Make risk decisions. Close risks, invoke contingency plans, or continue to watch or track risks.

**Communicate and Document** – Provide information and feedback internal and external to the project on risk activities and current/emerging risks.



# CRM Executive Overview



## S&MA Responsibilities

- Assist MSFC programs/projects in implementing CRM by providing:
  - Training & Tools
  - Facilitation
  - Assessment



# CRM Executive Overview



## CRM Two Day Class

### Part I

Familiarizes the student with the fundamentals of Continuous Risk Management (CRM) and provides for interactive learning through the use of various methods and tools and a hypothetical space flight project case study.

### Part II

Dedicated to organization-specific activities that will:

- Establish an organization-specific risk baseline
- Practice the functions of the CRM paradigm
- Promote teambuilding and a more cohesive work environment
- Provide risk information that can be acted on immediately upon completion of the course.



# CRM Executive Overview



## CRM One Day Class

### Part I

- Familiarizes the student with the fundamentals of Continuous Risk Management (CRM)
- Classroom instruction on the basic principles of CRM

### Part II

Classroom instruction dedicated to organization-specific activities that will:

- Establish an organization-specific risk baseline
- Practice the functions of the CRM paradigm
- Promote teambuilding and a more cohesive work environment
- Provide risk information that can be acted on immediately upon completion of the course



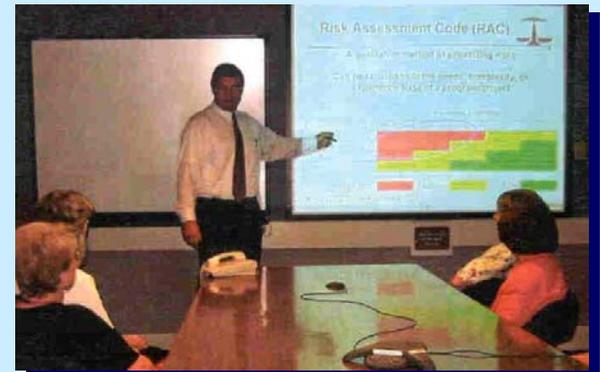
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## CRM Training

- **CRM Executive Overview**

- Familiarizes management with the fundamentals of Continuous Risk Management (CRM).
- This is strictly an overview and will not provide the depth of understanding needed for project implementation.





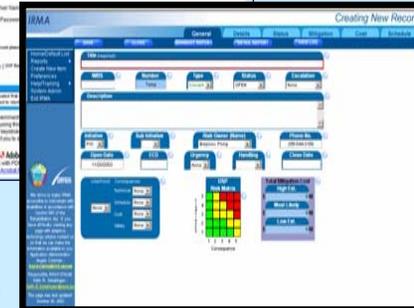
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## CRM Tools

- IRMA

- The Integrated Risk Management Application (IRMA) is a database used by the Orbital Space Plane (OSP) program to identify, plan, track, mitigate and document OSP risks. OSP risks are measures of potential inability to achieve program milestones within program defined cost, schedule, technical and safety constraints.
- IRMA is a web-based database application, which utilizes Microsoft SQL Server and is written in Active Server Page (ASP). The application produces reports in Microsoft applications (Word, Excel and PowerPoint). It incorporates MSFC and OSP unique security requirements.





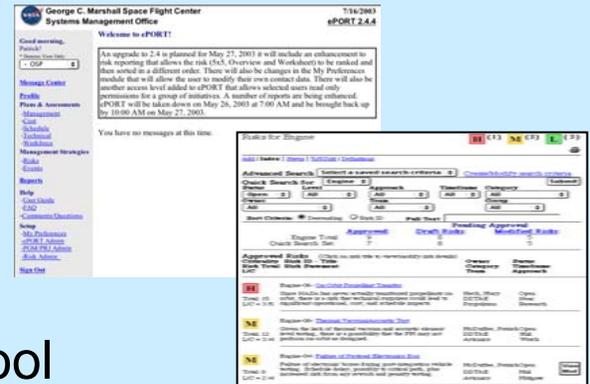
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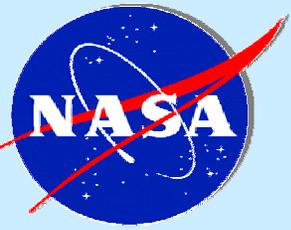


## CRM Tools

- e-PORT

- An electronic Project Online Reporting Tool database application used to provide MSFC Programs and Projects a common framework for capturing their health status, managing technical performance measures and Risk, simplified reporting, trend analysis and archiving of data.
- e-PORT provides necessary capabilities to manage risks effectively, ensures integrity and security of data, cost effective robust solution, tailorable to initiative needs, and has tested and proven capabilities.





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## Facilitation

- Working with program management to establish a risk management process tailored to program needs
  - Aid in Risk Management Plan development
  - Risk identification, tracking, and documentation
  - Provide electronic tools for risk management database

## Assessment

- Working with program management to verify compliance with approved risk management requirements
  - Track risk management metrics for the Center
  - Perform program maturity assessments



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## Points-of-Contact

### CRM Program Manager

Angelia Walker, QS40, 544-1064

**For facilitation, assessment or project-specific questions, contact your project's S&MA lead or:**

Lisa Bonine 544-2544

Space Station, Payloads, Microgravity & Institutional Projects, Shuttle

Keith Layne 544-4801

Next Generation, 2nd Generation, & Advanced Projects



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## Points-of-Contact

- To schedule CRM Training, contact Dena Yell, 544-4655
- Other information about CRM at MSFC can be found on our website:

[https://msfcsma3.msfc.nasa.gov/dbwebs/apps/Virtual\\_S&MA/qs40/crm/](https://msfcsma3.msfc.nasa.gov/dbwebs/apps/Virtual_S&MA/qs40/crm/)

