NASA PRINCIPAL CENTER FOR REGULATORY RISK ANALYSIS AND COMMUNICATION

NASA’s Agency-Wide Strategy for Environmental Regulatory Risk Analysis and Communication

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19 March 2008
Agenda

- Overview: Principal Center for Regulatory Risk Analysis and Communication (RRAC PC)
- Regulatory Tracking and Communication Process
RRAC PC Overview

• NASA’s Agency-wide resource for identifying and managing risks associated with changing environmental regulations

• Goals of the RRAC PC
  ➢ Proactively detect, analyze and communicate environmental regulatory risks to NASA Programs and facilities
  ➢ Communicate with regulators and participate in the mitigation of such risks
  ➢ Provide centralized support on emerging regulations to NASA HQ Environmental Management Division
RRAC PC Focus in Perspective

**Risks posed by the Program to the environment**

- Identified under NEPA through the Environmental Impact Statement (EIS) process prior to Program inception
- The EIS describes programmatic options and addresses environmental considerations associated with each, usually in a one-time effort

**Risks posed to the Program by environmentally-related drivers**

- On-going effort through the life of the Program
- Risk to Program grows with time due to changes in laws and regulations
- Active participation in legislative and rulemaking processes reduces Program risk
Regulations Can Drive Program Risks

Changing regulations have the potential to affect program activities directly and indirectly

- Could restrict certain activities, operations, or right to operate
  - Changes in operational activities
    - High-efficiency spray equipment
    - Quantities of thinner allowed for coating application
  - Limitations on where or how operations can take place
    - In spray booths rather than "in the field"
    - Require dipping or brushing instead of spraying
  - Changes to protective equipment requirements

- Could affect availability and usage of materials
  - Production phase-out or restriction on ability to apply or use materials
    - ODSs, brominated flame retardants, and others
  - Formulation changes by vendors to critical materials and/or components
    - Despite contractual notification clauses, can happen without notification
  - May require material replacement efforts
    - Replacement costs; potential schedule impacts; potential performance variance
Evolving applicability and relevance guidelines

- Programmatic
  - human spaceflight, other space vehicles, aeronautics programs
  - direct and indirect impacts
  - critical supply chain issues

- Facilities
  - NASA Centers
  - Other critical processing facilities
  - Emergency landing sites abroad

Recognize that the requirements of Programs and supporting Facilities CHANGE and that those changes can affect the applicability of emerging regulatory requirements

- Example: Regulatory applicability thresholds
Regulatory Tracking Process

RRAC PC Regulatory Monitoring

- Monitor emerging regulatory information from appropriate sources
  - “Official” Sources
    - Federal Register and Semiannual Regulatory Agenda
    - State regulatory notices
    - Other countries and international organizations
  - Other Sources
    - Regular communication with regulators
    - Networks with other stakeholders, especially other Federal agencies
    - Industry concerns
    - Global trends

1. Statutory and regulatory requirements CHANGE
2. Just because a requirement doesn’t affect you directly, doesn’t mean it will not impact your operations at some point in time
3. The best information on emerging requirements is often found on the “grapevine”
   - Example: European Union regulations and international partnerships

Lessons Learned
When significant regulatory changes are identified, timely communication is essential

- Communication of changing requirements to the regulatory stakeholders – NASA Programs and Facilities
- Communication of potential issues to management and, when appropriate, back to the regulating agency
Regulatory Communications Process

RRAC PC Regulatory Communication

- Communicate regulatory changes to the affected NASA Community
  - General alerts and summaries
  - Specifically-targeted technical working groups

- Solicit feedback on potential impacts from emerging regulatory changes
  - Direct or indirect impacts
  - Short-term or long-term
  - Include worst-case scenario

1. Insist on knowing your technical community; they are the ones who know when a "potential impact" becomes an "issue"
2. For potentially mission-critical impacts, don't assume the information will filter to the right person or organization – HUNT THEM DOWN
3. Don't assume your Program is immune just because the requirement doesn't directly affect you – you rely on your SUPPLY CHAIN
4. In determining potential impacts, be twice as pessimistic as the life of your Program

Lessons Learned
RRAC PC Program Support: "Swim Lanes"
Regulatory Communications Process

RRAC PC Regulatory Communication

- Communicate identified impacts to management
  - Assess mitigation options
  - Follow the "greenest" path that still meets Mission requirements
- When necessary, communicate issues to regulators
  - Sometimes mission-critical technical performance or safety-related factors must be considered
  - Collaboration with regulators can produce effective, innovative regulatory solutions

Lessons Learned

1. Honest, open bilateral communications with regulators is essential
2. Focusing on technical requirements, data, and Mission success goes a long way toward establishing credibility
3. A clear, proven COMMITMENT TO DO THE RIGHT THING speaks volumes
Questions?

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http://www.rracpc.org/