



# **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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# 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*





## RRAC PC Regulatory Monitoring

- **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*

**Lesson  
Learned**

**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**





# 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**



# RRAC PC Regulatory Communication

- **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





# 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**





## 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



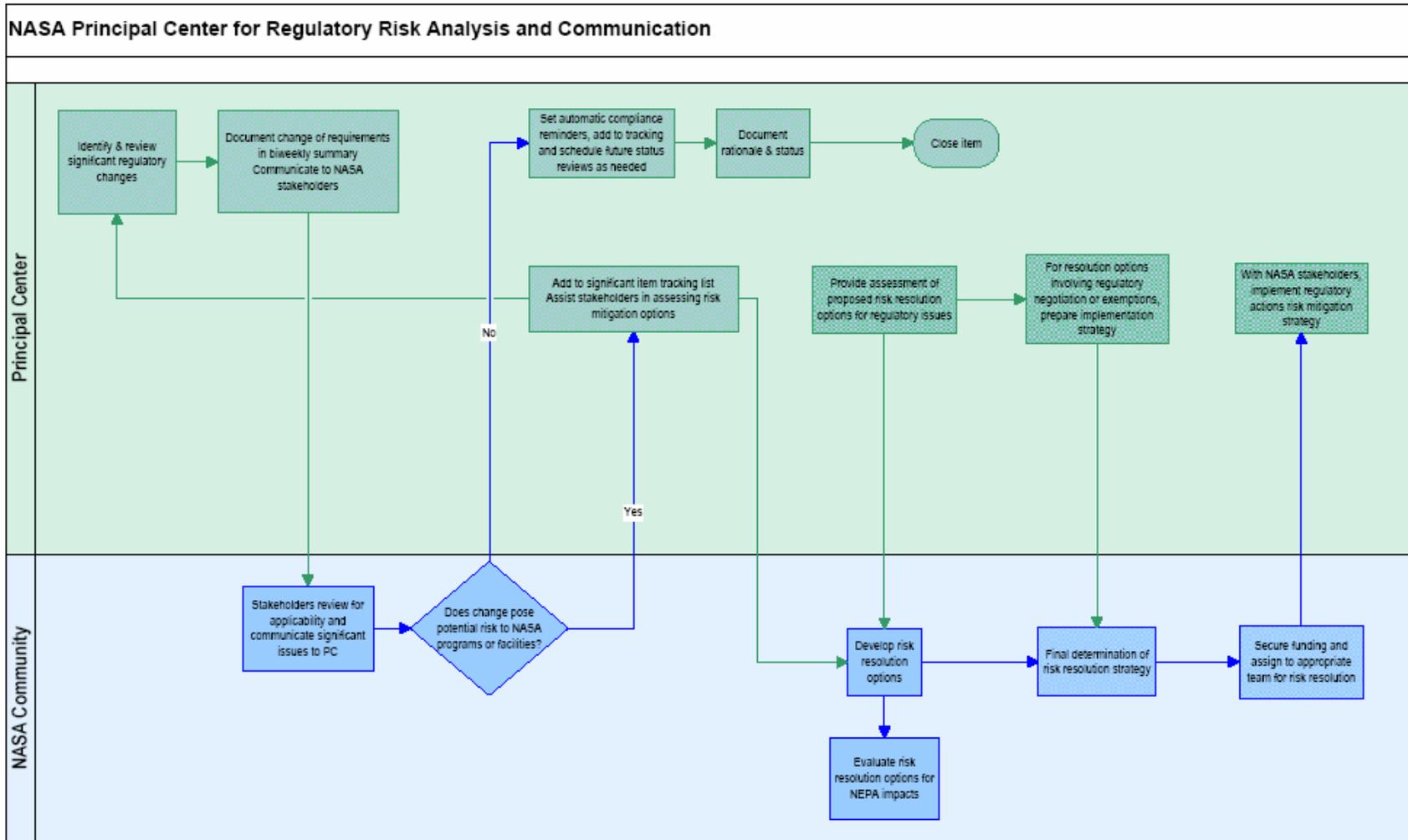
### Lessons Learned

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**





# RRAC PC Program Support: "Swim Lanes"





# RRAC PC Lessons Learned

- **Programs and Centers are dynamic... so are regulations**
  - Just because regulations may not initially apply does not mean they will not in the future
  - Just because regulations may not directly affect operations does not mean they won't affect the program indirectly through the supply chain
- **Communication is key when it comes to regulatory impacts**
  - Up and down the chain of command to ensure the right organizations and people are informed
- **Maintaining a “do the right thing” commitment is critical to the long-term success of programs and should be a significant part of a strategy for compliance**





# Questions?

- **For further information, please contact:**

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