

# Regulatory Oversight by the NRC

# Agenda

<u>Time</u>	<u>Activity</u>	<u>Attendees</u>
8:30 – 09:45 AM	Regulatory Oversight <ul style="list-style-type: none"><li>•Introduction – Honeywell</li><li>•NRC Oversight</li><li>•Conclusion - Honeywell</li></ul>	Honeywell  NRC
9:45 – 10:00 AM	BREAK	
10:00 – 1:00 PM  Lunch - NOON (optional)	Integrated Improvement Plan for Metropolis <ul style="list-style-type: none"><li>• Introduction (purpose/background) – Honeywell</li><li>•Program Review – Honeywell</li><li>•NRC comments</li><li>•Conclusion</li></ul>	Honeywell  NRC

# Key Messages

- **Regulatory Compliance**
  - **Compliance with the regulations and the license is a requirement**
  - We ensure this compliance through comprehensive reviews in licensing, and inspection and enforcement
  - The NRC regulatory approach is proactive, performance based, and risk informed
- **Stakeholders involvement is a key part of the regulatory process**
  - Openness
  - Accountability
  - An active Safety Culture and Continuous Improvement is expected
- **The Licensee is responsible for safety**

# ***NRC Mission***

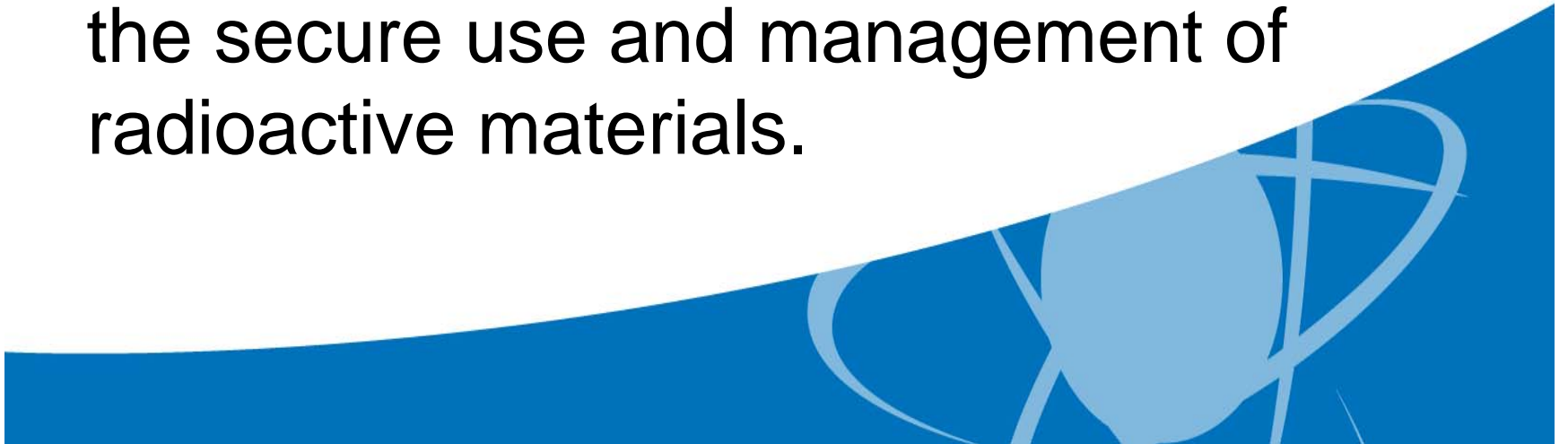


License and regulate the Nation's civilian use of byproduct, source, and special nuclear materials to ensure adequate protection of public health and safety, promote the common defense and security, and protect the environment.

- The NRC's regulatory mission covers three main areas:
  - [Reactors](#) - Commercial reactors for generating electric power and research and test reactors used for research, testing, and training
  - [Materials](#) - *Uses of nuclear materials in medical, industrial, and academic settings and facilities that produce nuclear fuel*
  - [Waste](#) - Transportation, storage, and disposal of nuclear materials and waste, and decommissioning of nuclear facilities from service

# Goals

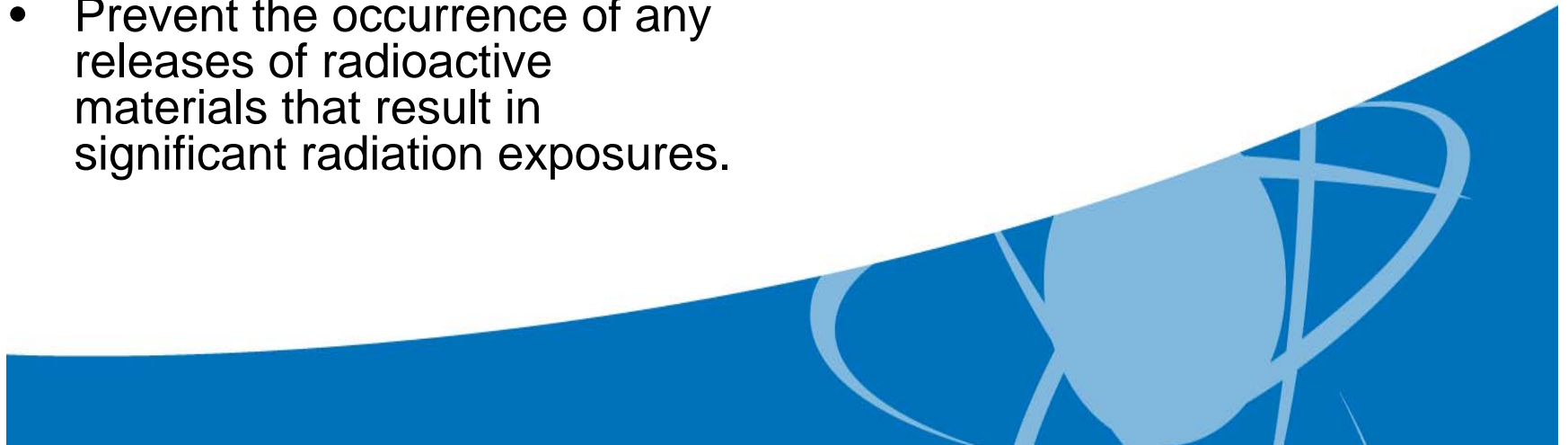
- **Safety:** Ensure adequate protection of public health and safety and the environment.
- **Security:** Ensure adequate protection in the secure use and management of radioactive materials.



# NRC Strategic Goals



- Prevent the occurrence of any nuclear reactor accidents.
- Prevent the occurrence of any inadvertent criticality events.
- Prevent the occurrence of any acute radiation exposures resulting in fatalities.
- Prevent the occurrence of any releases of radioactive materials that result in significant radiation exposures.
- Prevent the occurrence of any releases of radioactive materials that cause significant adverse environmental impacts.
- Prevent any instances where licensed radioactive materials are used domestically in a manner hostile to the United States.



# NRC's Role

- Establishment of Standards, Regulations and Requirements
- Licensing
- Inspection and Enforcement



# NRC Authority

- NRC can take a range of enforcement actions when violations occur:
  - Notice of Violation
  - Fines
  - Orders
    - May halt, or remove a person from, a licensed activity
    - May modify, suspend, or revoke a license

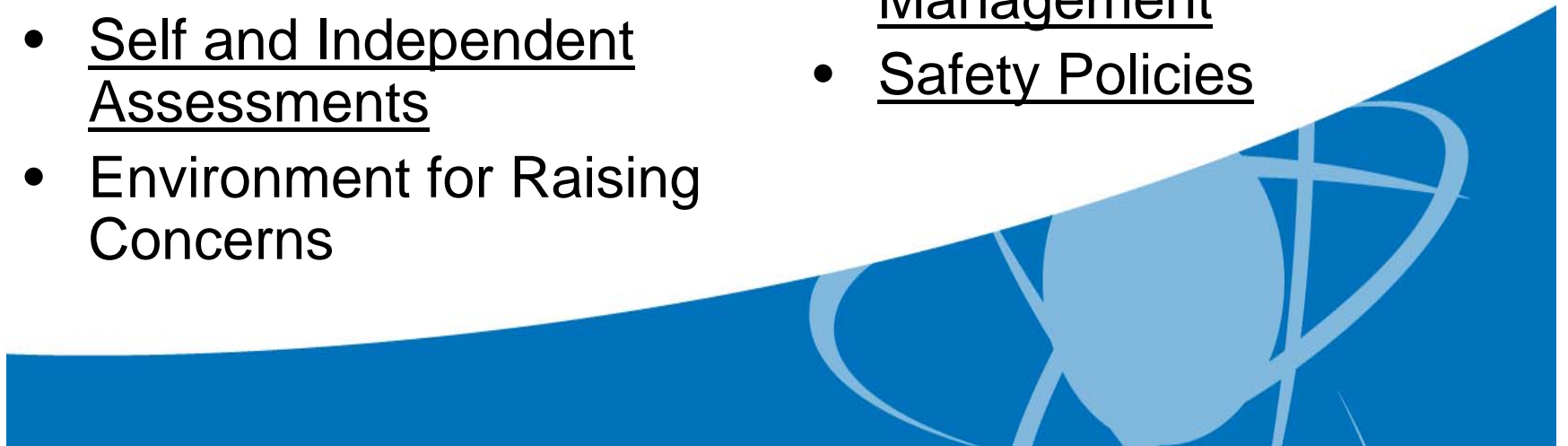


# Stakeholder Involvement in Licensing

- The public can become involved in the licensing of a facility and can make their views known to the Commission at various stages in the process.
- If local interest is strong, the NRC may hold public meetings in the vicinity of a proposed facility. Notices of meetings may be mailed to citizens' groups and civic and government leaders in the community and may be advertised in local newspapers.

# Safety Culture Components

- Decision making
- Resources
- Work Control
- Work Practices
- Corrective Action Program
- Operating Experience
- Self and Independent Assessments
- Environment for Raising Concerns
- Preventing, Detecting, and Mitigating Perceptions of Retaliation
- Accountability
- Continuous Learning Environment
- Organizational Change Management
- Safety Policies



# PART 40--DOMESTIC LICENSING OF SOURCE MATERIAL

# Part 40

- Honeywell Metropolis Works is licensed to operate under 10 CFR Part 40
  - Licensing Documents (commitments)
    - Emergency Plan
    - Integrated Safety Assessment (ISA)
    - Safety Demonstration Report
    - Environmental Report
    - License Application

Renewed Operating License

Dated May 11, 2007 (as amended)

- License Conditions 1-27 (as amended)

# Licensee Performance Review



- Includes inspection results & events
- Results presented in public meeting
- Considers performance in five areas:
  - Safety Operations
  - Safeguards (limited public discussion)
  - Radiological Controls
  - Facility Support
  - Licensing & Other Special Topics

# NRC Inspections at Honeywell

- Verify that operations are safe & secure
- **Areas Inspected (core hours per year):**
  - Radiation Safety: 76
  - Fire Safety: 32 – 64
  - Operations: 60
  - Security: 24
  - Emergency Preparedness: 32
  - Training, Management & Controls,  
Maintenance, Plant Modifications: 82

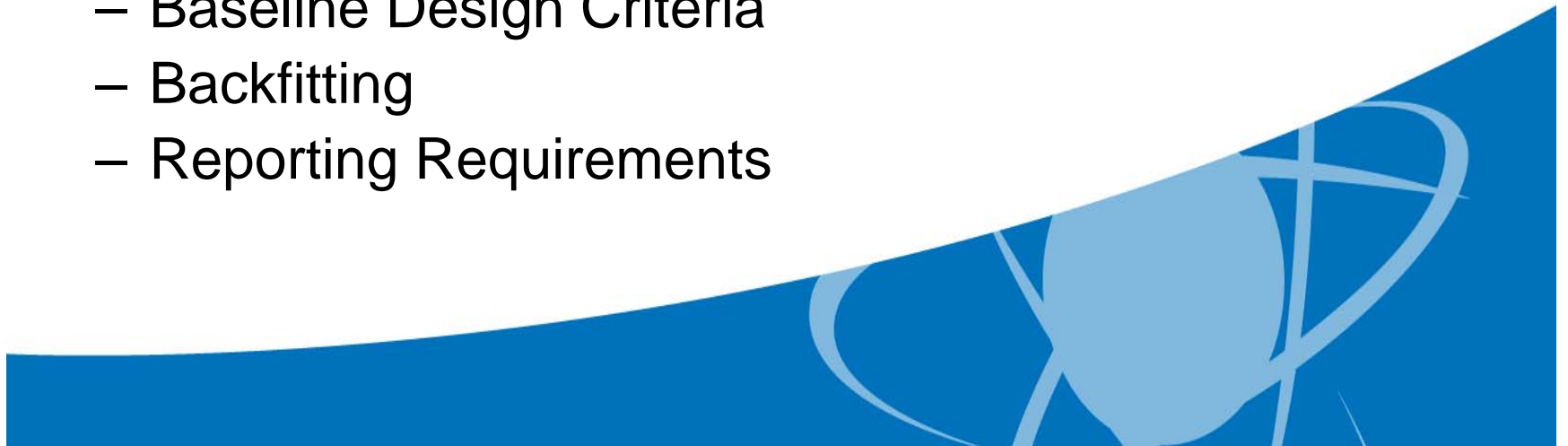
# **Part 40 Rulemaking**

## **10 CFR Part 70, Subpart H**

# Subpart H

## ISA Requirements

- Perform an integrated safety analysis (ISA)
- Comply with performance requirements of 10 CFR 70.61
- Establish management measures
  - Facility Changes
  - Baseline Design Criteria
  - Backfitting
  - Reporting Requirements





# 10 CFR Part 70 Revision (Subpart H)

- Sequoyah accident and GE Wilmington event
- Integrate radiological, criticality, fire, chemical and environmental safety disciplines
- Use systematic methods to: 1) identify all credible accidents sequences with significant consequences, and 2) estimate their likelihoods and consequences
- Identify items relied on for safety (IROFS)
- Apply management measures to IROFS

# Management Measures

- Measures to assure that IROFS are available and reliable when needed
  - configuration management, training, QA, audits, procurement, problem identification/control, corrective actions, etc.
  - maintenance (corrective/preventive), functional testing, surveillance, calibration, etc.
  - written policies and procedures, signs, tags, etc.
  - material handling, shipping, storage, etc.
  - human factors, work environment, workload, etc.

# ISA-Based Licensing Outcomes

- Annual ISA Summary updates could significantly reduce the need and/or scope of renewals
  - 40 Year renewals for 10 CFR Part 40 Facilities
- 10 CFR 70.72 “facility change” analyses could reduce the number of amendments

# Rulemaking

- Proposed rule is being developed and will be published for public comment
- When issued, the rule will require compliance by Honeywell!



# Questions?

