



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**  
REGION II  
245 PEACHTREE CENTER AVENUE NE, SUITE 1200  
ATLANTA, GEORGIA 30303-1257

May 12, 2016

MEMORANDUM TO: George T. Hopper, Chief  
Reactor Projects Branch 4  
Division of Reactor Projects

FROM: Jim Dodson */RA/*  
Senior Project Engineer  
Reactor Projects Branch 4

SUBJECT: PUBLIC MEETING SUMMARY - 2015 ANNUAL ASSESSMENT  
PUBLIC MEETING REGARDING BRUNSWICK STEAM  
ELECTRIC PLANT, DOCKET NOS. 50-325 and 50-324

On May 10, 2016, at 5:00 pm, the Nuclear Regulatory Commission (NRC) staff met with members of the public at the Duke Media Center, 8520 River Road SE, Southport, NC 28461. The purpose of the open house and poster board session was to provide opportunities to discuss the annual assessment of the Brunswick Steam Electric Plant with the public for the period of January 1, 2015, through December 31, 2015. The meeting notice and agenda are available in the Agencywide Documents Access and Management System at Accession Number ML16091A394. Enclosed are a list of attendees and copies of the poster boards displayed at the meeting.

Docket Nos.: 50-325, 50-324  
License Nos.: DPR-71, DPR-62

Enclosures:  
1. List of Attendees  
2. Poster Boards

CONTACT: Jim Dodson, RII/DRP/RPB4  
404-997-4655

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☒ PUBLICLY AVAILABLE      ☐ NON-PUBLICLY AVAILABLE      ☐ SENSITIVE      ☒ NON-SENSITIVE  
ADAMS: ☒ Yes      ACCESSION NUMBER: ML16134A174      ☒ SUNSI REVIEW COMPLETE      ☐ FORM 665 ATTACHED

OFFICE	RII:DRP	RII:DRP				
SIGNATURE	JSD	GTH				
NAME	JDodson	GHopper				
DATE	5/11/2016	5/13/2016				
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

OFFICIAL RECORD COPY DOCUMENT NAME: G:\DRPI\RPB4\BRUNSWICKMEETINGS\BRU 2015 EOC MEETING SUMMARY MEMO.DOCX



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**Brunswick Annual Assessment Public Meeting**  
 Southport, NC  
 May 10, 2016

Name (Print)	Title and Organization
1. Thomas Sherrill	Duke Reg Affairs
2. Lee Cox	NC SLO
3. John Timmyer	retired
4. Karen Williams	Duke Energy
5. Randy Glen	Duke Energy
6. Brian Stetson	Duke Energy
7. Annette Pope	Duke Energy
8. JEFF NOLIN	DUKE ENERGY
9. KARL MOSER	DUKE
10. Bill Smith	Leland Resident
11. Michael Rice	Save the Cape
12. Kit Adcock	Bald Head Island resident
13. Fran Nolen	Public
14.	
15.	
16.	
17.	
18.	
19.	
20.	



# Nuclear Security & Safeguards

## Physical Protection

- Security Inspections
- Force-on-Force Exercises
- Interagency Cooperation
- Intrusion Detection & Assessment
- Response & Offsite Assistance
- Threat Assessment



## Information Security

Preventing Unauthorized Disclosure





## Assured By

- Comprehensive Regulations
- Detailed NRC Review
- Robust Cask & Package Designs
- Significant Experience Base
- Continued Oversight

**LEGEND**

- As of August 2007:
- 31 Operating Research Teams at EPSCoR of Member Sites
- 16 Member Sites Participating in Research (MSP)
- 15 Research Teams (RT) at Non-Operating Research Sites
- The location of one participating team (Research Team 18)
- 12 member offices located at non-member sites supporting MSP
- 32 Member Offices (MO) (not MSP)

Source: National Science Foundation, Division of Earth Sciences

**DISCLAIMER:** This map provides general information regarding the locations of the 32 teams. It does not constitute a guarantee or warranty by the IASBEP or its members.

**Scale:** 0 to 200 Miles / 0 to 200 Kilometers

**Inset Map:** Shows the location of the research sites relative to the rest of the United States.

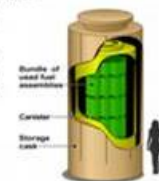
**Team List:**

Team Number	Location
1	Alaska
2	Arizona
3	California
4	Colorado
5	Connecticut
6	Delaware
7	District of Columbia
8	Florida
9	Georgia
10	Hawaii
11	Idaho
12	Illinois
13	Indiana
14	Iowa
15	Kansas
16	Kentucky
17	Louisiana
18	Maine
19	Maryland
20	Massachusetts
21	Michigan
22	Minnesota
23	Mississippi
24	Montana
25	Nebraska
26	Nevada
27	New Hampshire
28	New Jersey
29	New Mexico
30	New York
31	North Carolina
32	Ohio

## Spent Fuel Dry Storage Single & Dual Purpose Cask

At some nuclear reactors across the country, spent fuel is kept on site, above ground, in systems basically similar to the ones shown here.

- 1 Once the spent fuel has cooled, it is loaded into special casks that are designed to hold Pressurized-Water Reactor and Boiling-Water Reactor assemblies. Water and air are removed. The cask is filled with inert gas, welded shut, and rigorously tested for leaks. It may then be placed in a "cask" for storage or transportation.



- 
- Concrete storage bunker

**2** The canisters can also be stored in above-ground concrete bunkers, each of which is about the size of a one-car garage. Eventually they may be transported elsewhere for storage.



# NRC Strategic Plan

## Strategic Goals

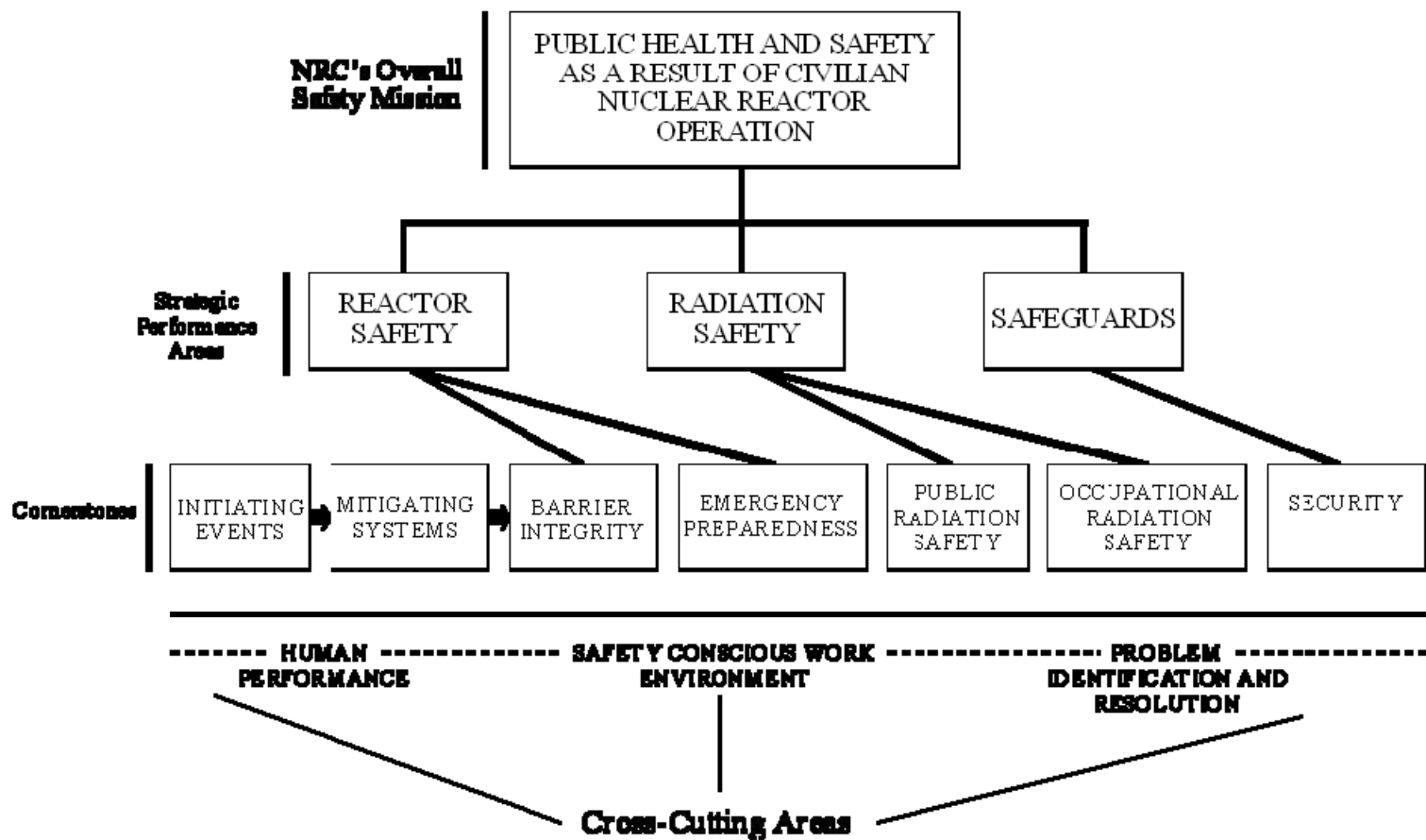
- **Safety:** Ensure adequate protection of public health and safety and the environment.
- **Security:** Ensure adequate protection in the secure use and management of radioactive materials.

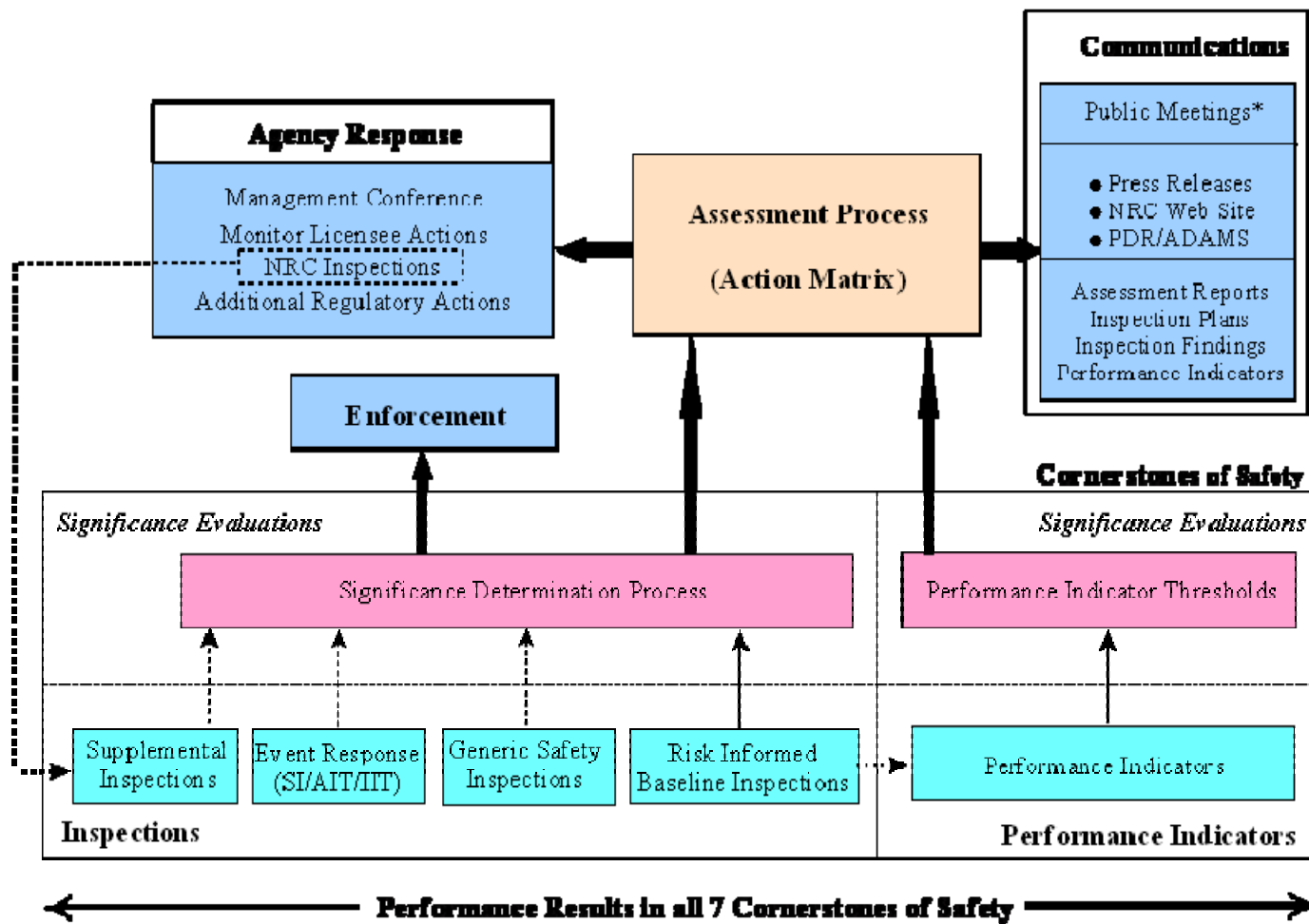


## Strategic Objectives

- **Openness:** The NRC appropriately informs and involves stakeholders in the regulatory process.
- **Effectiveness:** NRC actions are high quality, efficient, timely, and realistic, to enable the safe and beneficial use of radioactive materials.
- **Operational Excellence:** NRC operations use effective business methods and solutions to achieve excellence in accomplishing the agency's mission.

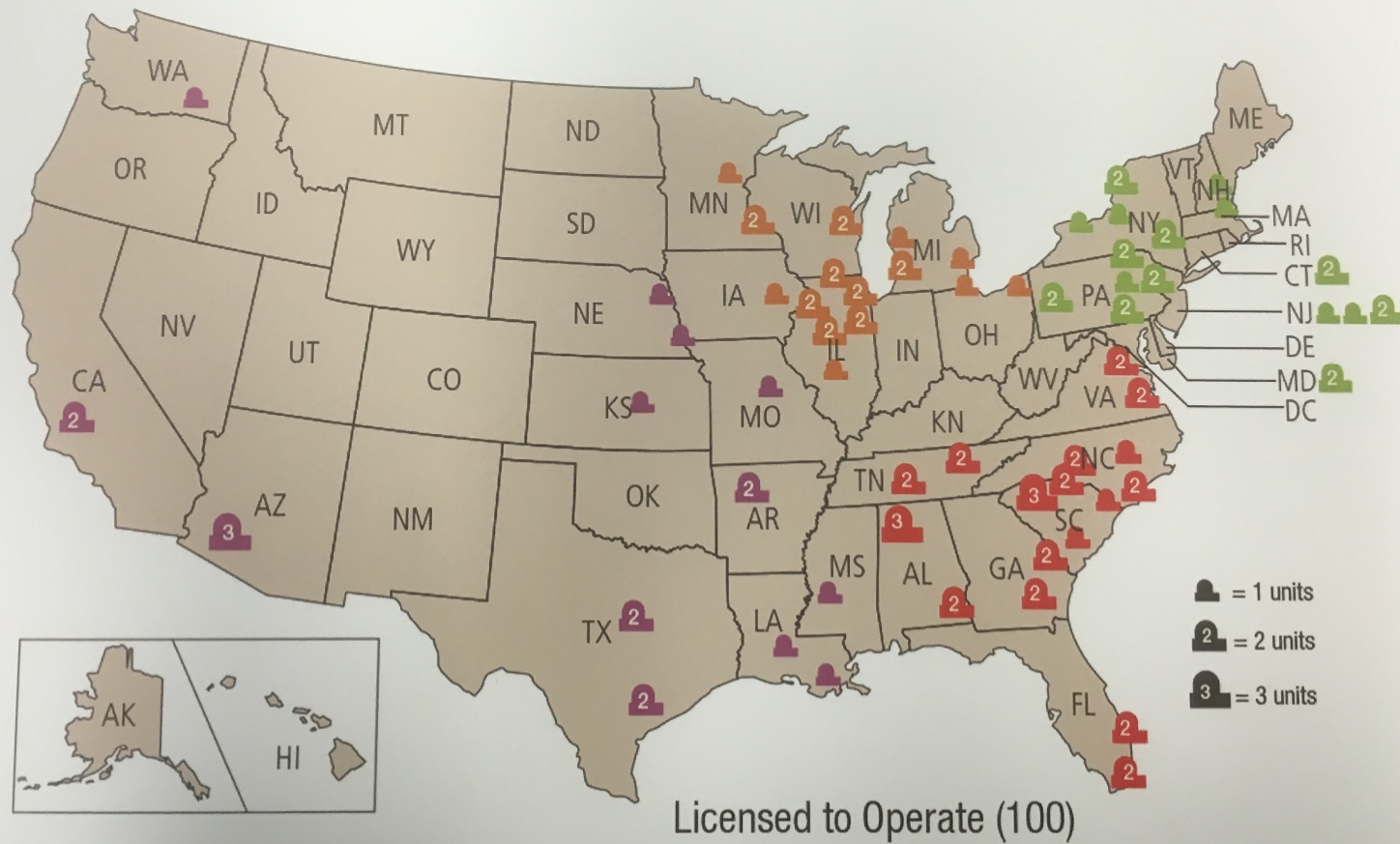






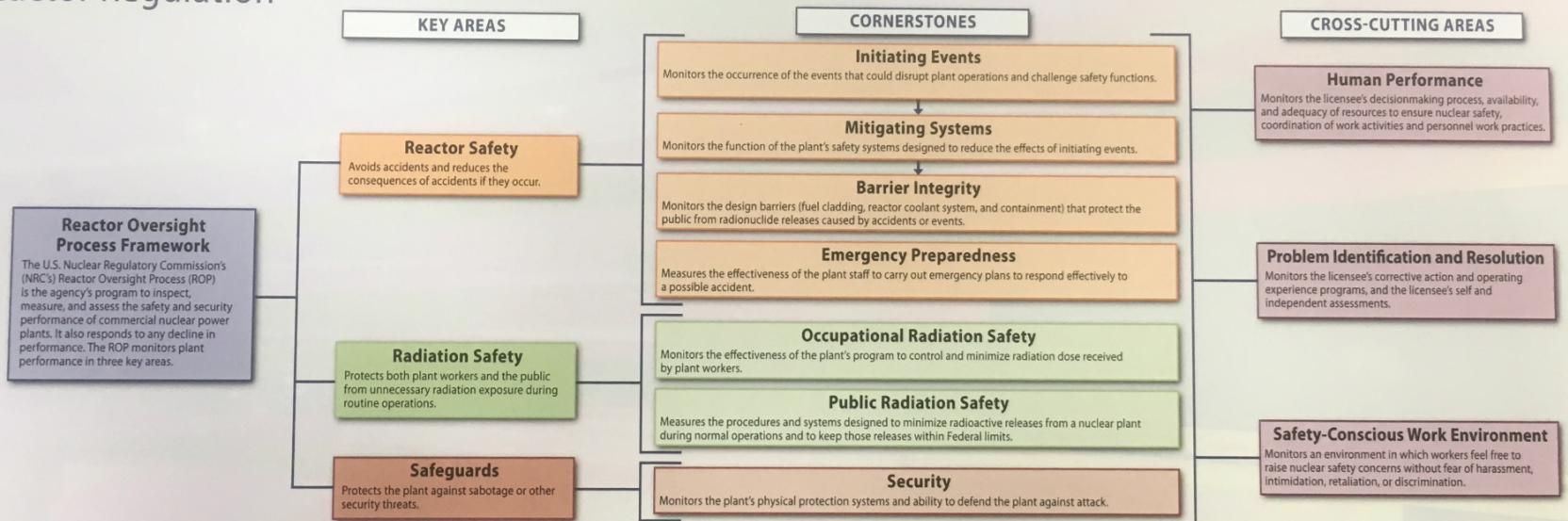


## U.S. Operating Commercial Nuclear Power Reactors



## Office of Nuclear Reactor Regulation

# Reactor Oversight Process



## Plant Assessment

The NRC's plant evaluations are based on two distinct inputs:

- Findings from the NRC's inspection program
- Performance indicators (PIs) reported by the licensee

The NRC gives both PIs and inspection findings a color designation based on their safety significance.

**Green:** very low safety significance (for findings), expected performance (for PIs)

**White:** low-to-moderate safety significance

**Yellow:** substantial safety significance

**Red:** high safety significance



## NRC Response to Plant Performance

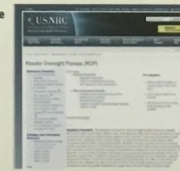
The NRC evaluates plant performance through performance indicators and NRC inspection findings to determine what action, if any, the NRC will take if there are signs of declining performance. This approach is defined by the ROP's Action Matrix. The Action Matrix provides consistent, predictable, and understandable agency responses to licensee performance.

ROP Action Matrix Assessment of Plant Performance	NRC Response
<b>Column 5: Unacceptable Performance</b>	<b>Response at Agency Level</b>
Column 5: Multiple/Repetitive Degraded Cornerstone	• Meeting with NRC Executive Director for Operations and senior plant management
Repetitive degraded cornerstone, multiple degraded cornerstones, or multiple YELLOW inputs, or one RED input	• Order to modify, suspend, or revoke license
<b>Column 4: Degraded Performance</b>	<b>Response at Regional Level</b>
One degraded cornerstone shows WHITE inputs or one YELLOW input in a cornerstone or three WHITE inputs in any strategic area	• Meeting with NRC Regional management and senior plant management
<b>Column 3: Regulatory Response</b>	• Plant operator improvement plan with NRC oversight
Column 3: Regulatory Response	• NRC team inspection focused on performance issues at the site
No more than two WHITE inputs in a strategic area	• Demand for information, conformity action letter, or order
<b>Column 2: Licensee Response</b>	<b>Response at Regional Level</b>
All performance indicators and cornerstone inspection findings GREEN	• Meeting with NRC and plant management
	• Plant operator corrective actions to address WHITE inputs
	• NRC inspection to follow up on WHITE inputs and corrective actions
	<b>Normal Regional Oversight</b>
	• Meeting with NRC and plant management
	• Routine inspector and staff interaction
	• Routine inspection program
	• Annual assessment public meeting

## Communications

The NRC assesses plant performance continuously and communicates assessment information through the performance summary public Web site for each plant. Information available through the plant's Web site includes the following:

- Quarterly performance indicator data
- Significant inspection findings
- Inspection reports
- Assessment letters



## Recent ROP Activities

**Risk-Informed Framework for New Reactors** – implementing Commission directives to develop appropriate revisions to the significance determination process and performance indicators for new reactors.

### ROP Enhancements

- **Assessment Program** – implementing elements of the assessment program to better align NRC response to licensee performance.
- **Baseline Inspection Program** – monitoring revised baseline inspection procedures to evaluate oversight effectiveness.
- **Communications** – continuing to revise and develop communication products for public outreach about the ROP.
- **Self-Assessment Program** – implementing revised scope and approach to better assess ROP performance, including updated performance metrics.
- **Significance Determination Process** – implementing recommendations to improve timeliness and efficient use of resources in risk-informed decisionmaking.