

Revised Fuel Cycle Oversight Process

Public Meeting
June 11, 2015
8:30 – 10:30 AM

AGENDA

<u>Time</u>	<u>Topic</u>	<u>Presenter</u>
8:30	Welcome	Margie Kotzalas
8:35	Review of Progress	DyLanne Duvigneaud
8:50	RFCOP Cornerstones Development	Steve Vaughn
9:30	Open Discussion	All
10:25	Closing Remarks	Margie Kotzalas
10:30	Adjourn	All

Progress

- ▶ NRC staff continues to meet milestones according to the project plan.
- ▶ CAP
 - Staff developed IP 88161, “Corrective Action Program (CAP) for Fuel Cycle Facilities,” for evaluating the effectiveness of CAP implementation.
 - Staff issued Regulatory Guide 3.75, “Corrective Action Programs for Fuel Cycle Facilities,” which describes elements of an acceptable CAP for fuel cycle facilities.
 - Staff has used this process to determine that LES has an adequate CAP.

Progress

- ▶ NRC staff and industry preliminarily aligned on a definition of performance deficiency.

“An issue that is the result of a licensee not meeting a requirement or written commitment where the cause was reasonably within the licensee's ability to foresee and correct, and therefore should have been prevented.”

Progress

- ▶ The RFCOP cornerstone basis document has been completed and release for public comment.
 - ACRS Sub-Committee meeting – September 25, 2015
 - ACRS Full-Committee – November 5, 2015
 - Commission Notation Paper – January 11, 2016
- ▶ A working group has been established for fuel cycle SDP development and is actively developing the framework.
- ▶ The NRC staff will establish a working group for the performance assessment process.

Revised Fuel Cycle Oversight Process – Cornerstones

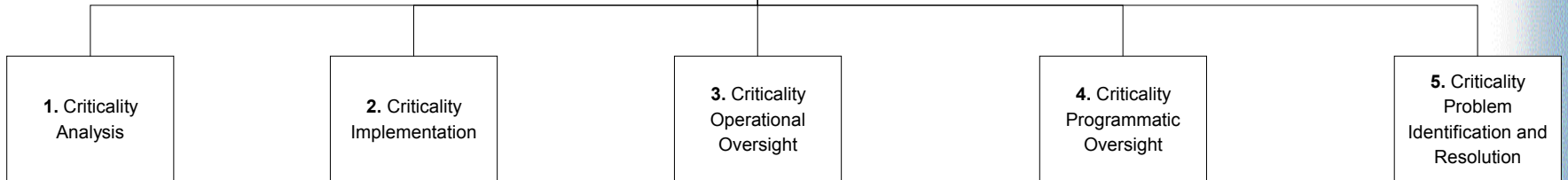
RFCOP Cornerstones – Updates

- ▶ Each cornerstone has key attribute related to problem identification and resolution (PI&R).
- ▶ Each cornerstone has key attributes and/or inspectable areas related to human performance and training.
- ▶ Inspectable areas of key attributes of most cornerstones have some changes.

Criticality Safety



ISA—Integrated Safety Analysis
 NCS—Nuclear Criticality Safety



- Inspectable Areas
- a. Identifying credible abnormal conditions
 - b. Demonstrating subcriticality for normal and credible abnormal conditions
 - c. Demonstrating compliance with double contingency principle
 - d. Specifying controlled parameters, controls, and limits

- Inspectable Areas
- a. Flowdown of engineered and administrative controls
 - b. Establishing quality assurance and management measures
 - c. Interface with ISA

- Inspectable Areas
- a. Preventive and corrective maintenance
 - b. Functional testing and surveillance
 - c. Configuration and change control
 - d. Process monitoring, sampling, and nondestructive assay
 - e. Fissile material operator training

- Inspectable Areas
- a. Walkthroughs, inspections, and program audits
 - b. Review of new operations and proposed changes
 - c. Training and qualification of NCS staff

- Inspectable Areas
- a. Criticality alarm placement, design, testing, and maintenance
 - b. Problem reporting, incident investigation, and corrective action

Operational Safety

Operational Safety

IROFS—Items Relied On For Safety
 ISA—Integrated Safety Analysis

1. Operational Design

2. Human Performance and Procedure Quality

3. Human Performance and Training

4. Performance of Management Measures

5. Configuration Control

6. Problem Identification and Resolution

Inspectable Areas
 a. Operational design development
 b. Operational design implementation

Inspectable Area
 a. Human performance
 b. Procedure quality and use

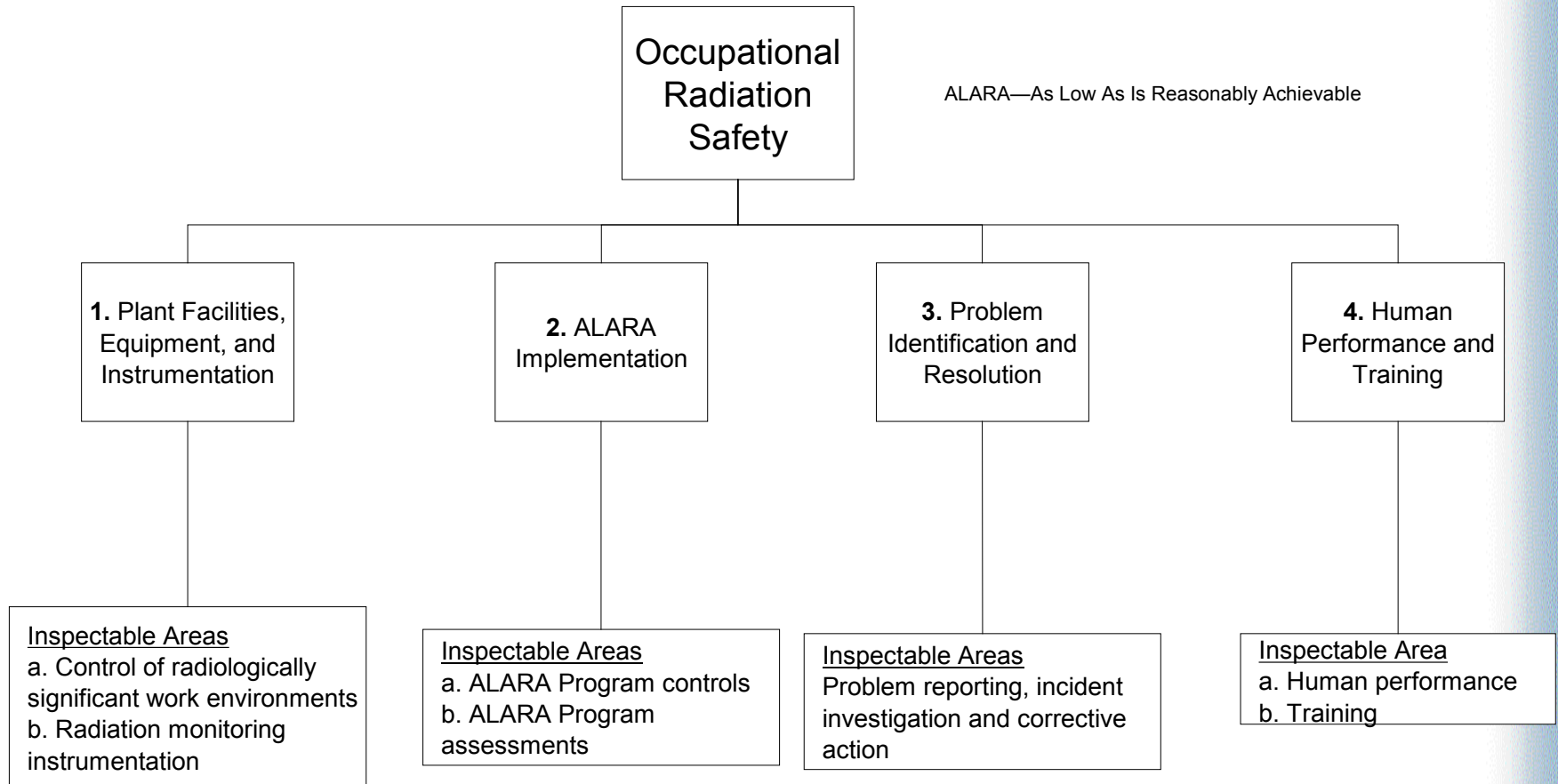
Inspectable Areas
 a. Human performance
 b. Training

Inspectable Areas
 a. Maintenance
 b. Surveillance
 c. Fire protection
 d. Flood protection
 e. Cold or hot weather protection
 f. Protection from other natural phenomena and external events
 g. Offsite and onsite power reliability

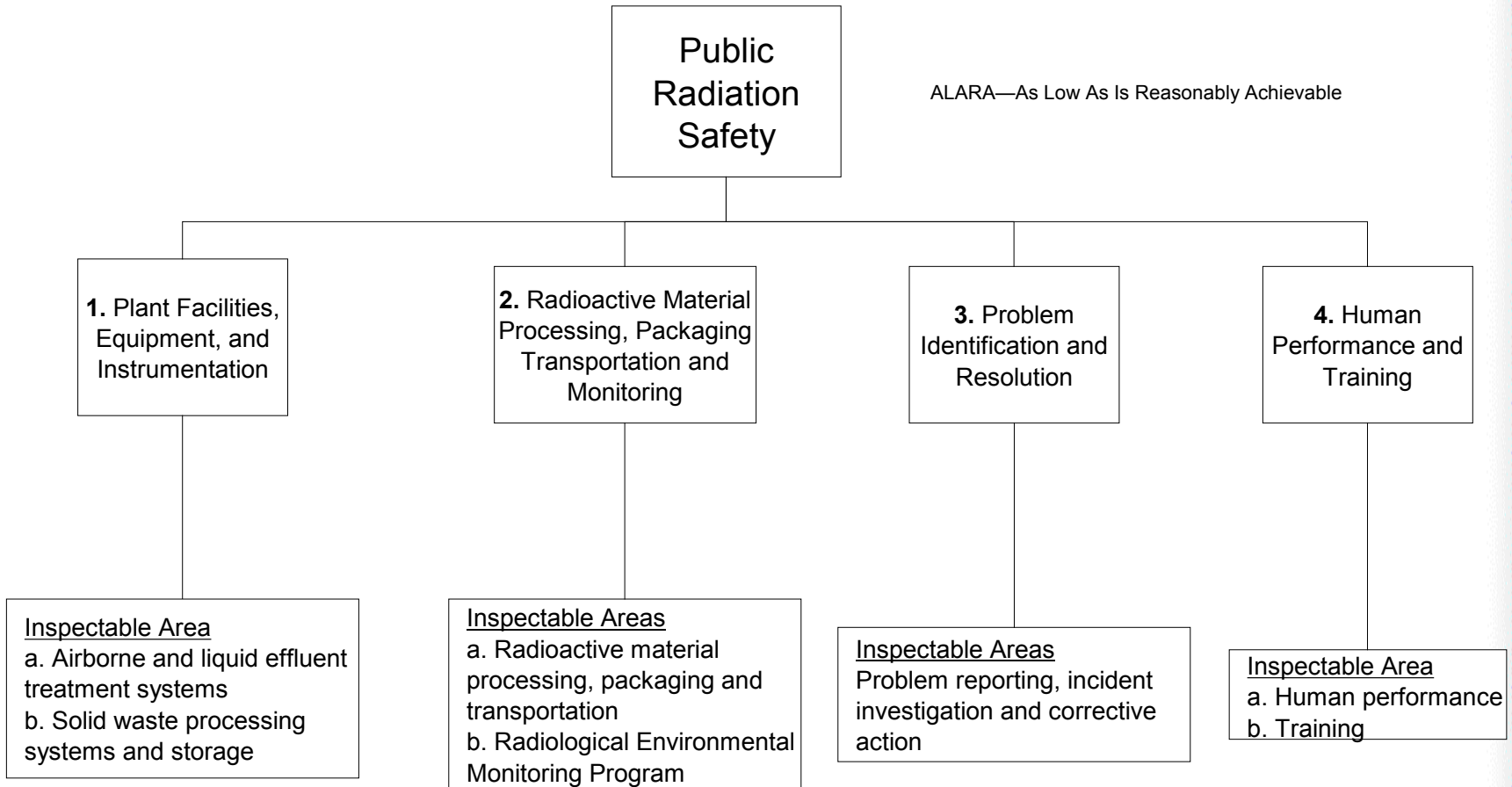
Inspectable Areas
 a. Permanent plant modifications
 b. Temporary plant modifications
 c. Equipment alignment

Inspectable Area
 Problem reporting, incident investigation, and corrective action

Occupational Radiation Safety



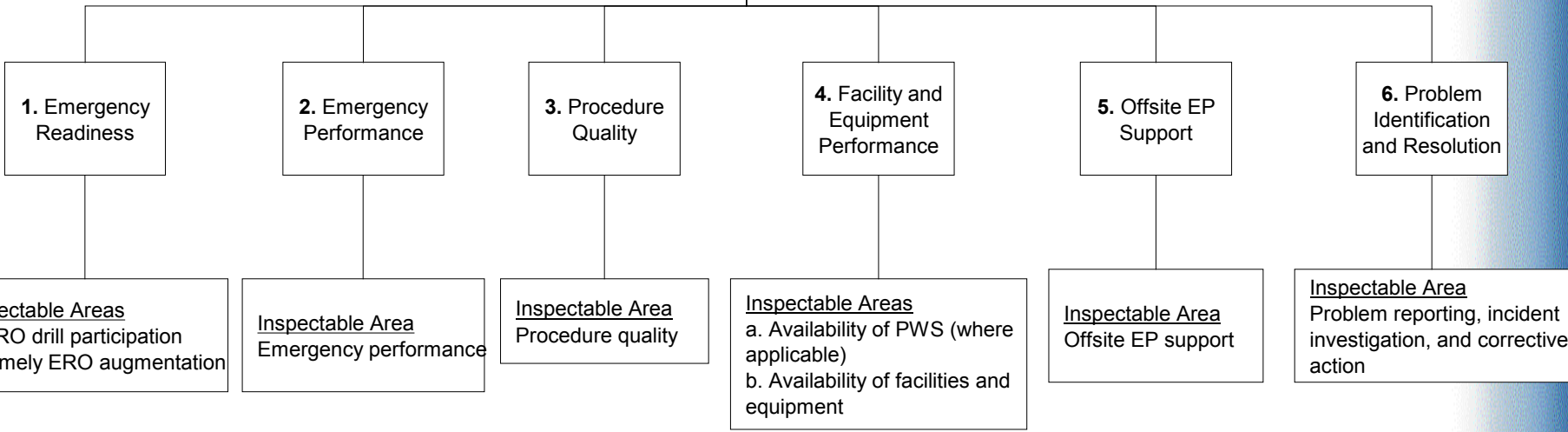
Public Radiation Safety



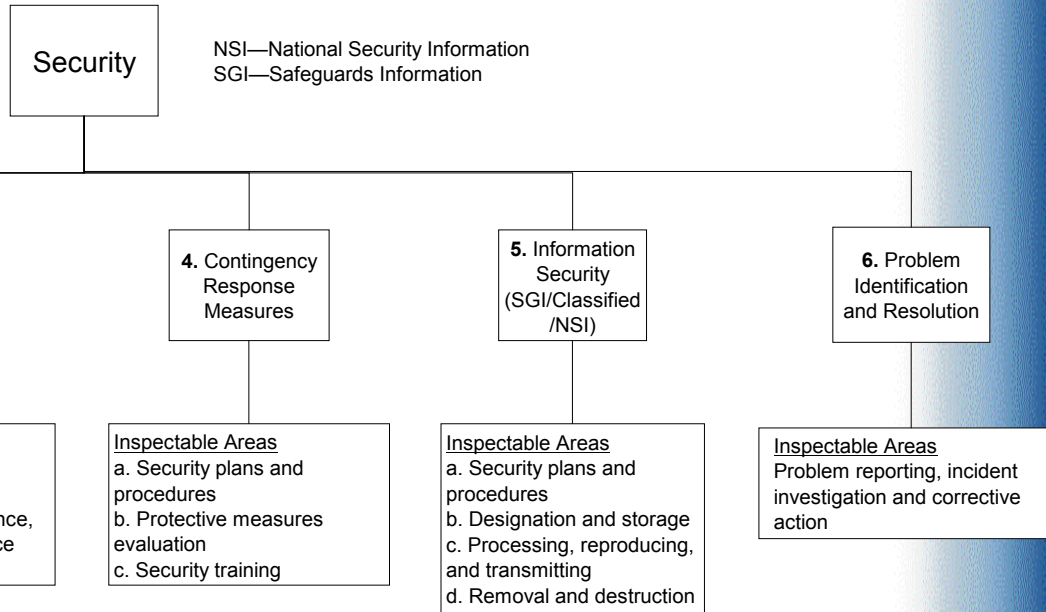
Emergency Preparedness

Emergency Preparedness

CAP—Corrective Action Program
 EP—Emergency Preparedness
 ERO—Emergency Response Organization
 PWS—Public Warning System

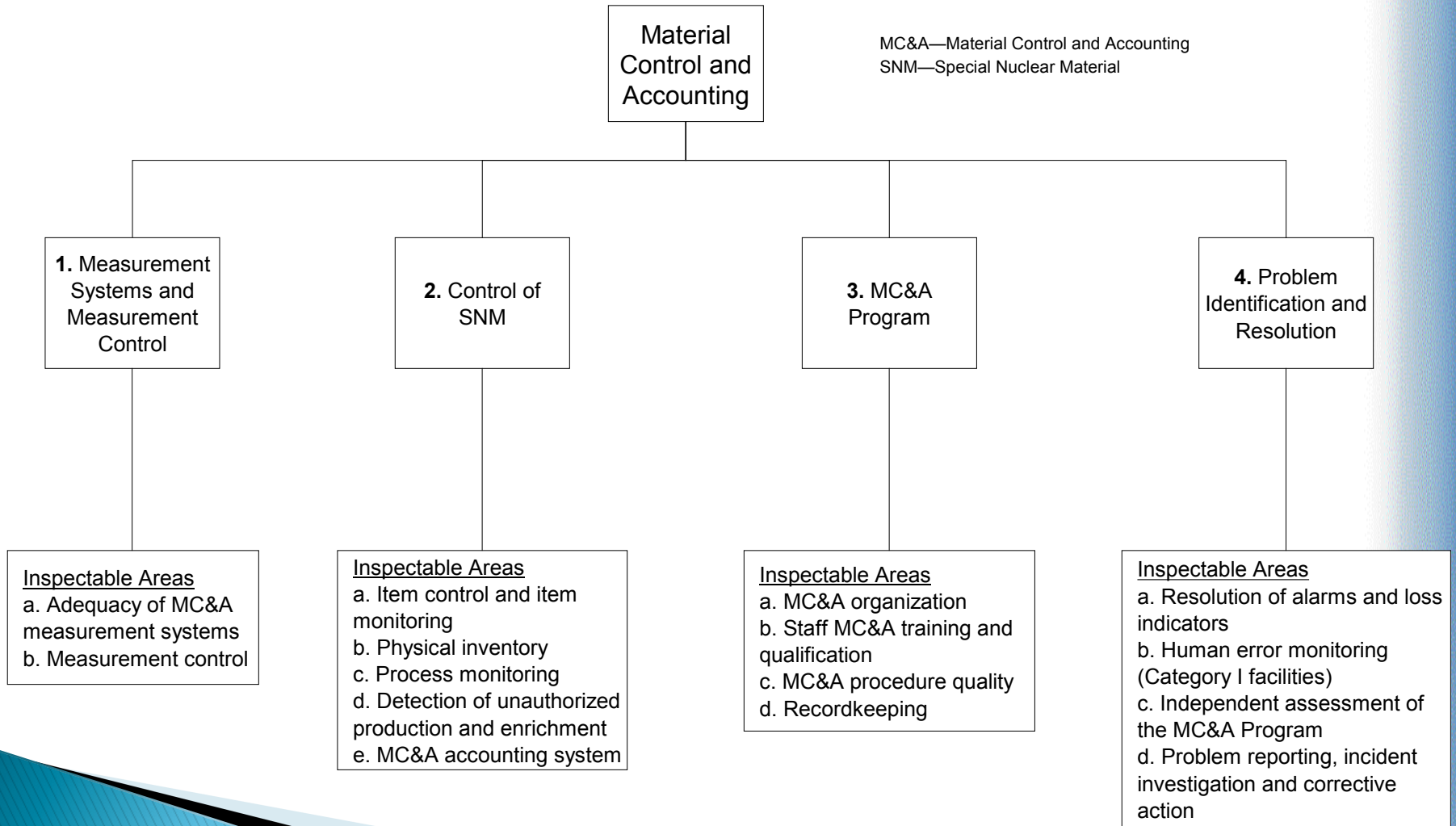


Security



Note: Because there are various categories of licensees, the regulatory and license requirements will vary. Therefore, either all or a subset of the inspectable areas will apply, depending on the licensee category.

Material Control and Accounting



QUESTIONS?

Background Slides

Cornerstones Sub-Working Group Members

- ▶ Jonathan DeJesus / April Smith, NMSS
- ▶ Chris Tripp, NMSS
- ▶ Mary Thomas, RII
- ▶ Greg Chapman, NMSS
- ▶ Richard Gibson, RII
- ▶ F. Scot Sullivan, NSIR
- ▶ Rebecca Richardson, NSIR
- ▶ Glenn Tuttle, NMSS
- ▶ Suzanne Ani, NMSS
- ▶ Jim Isom, NRR

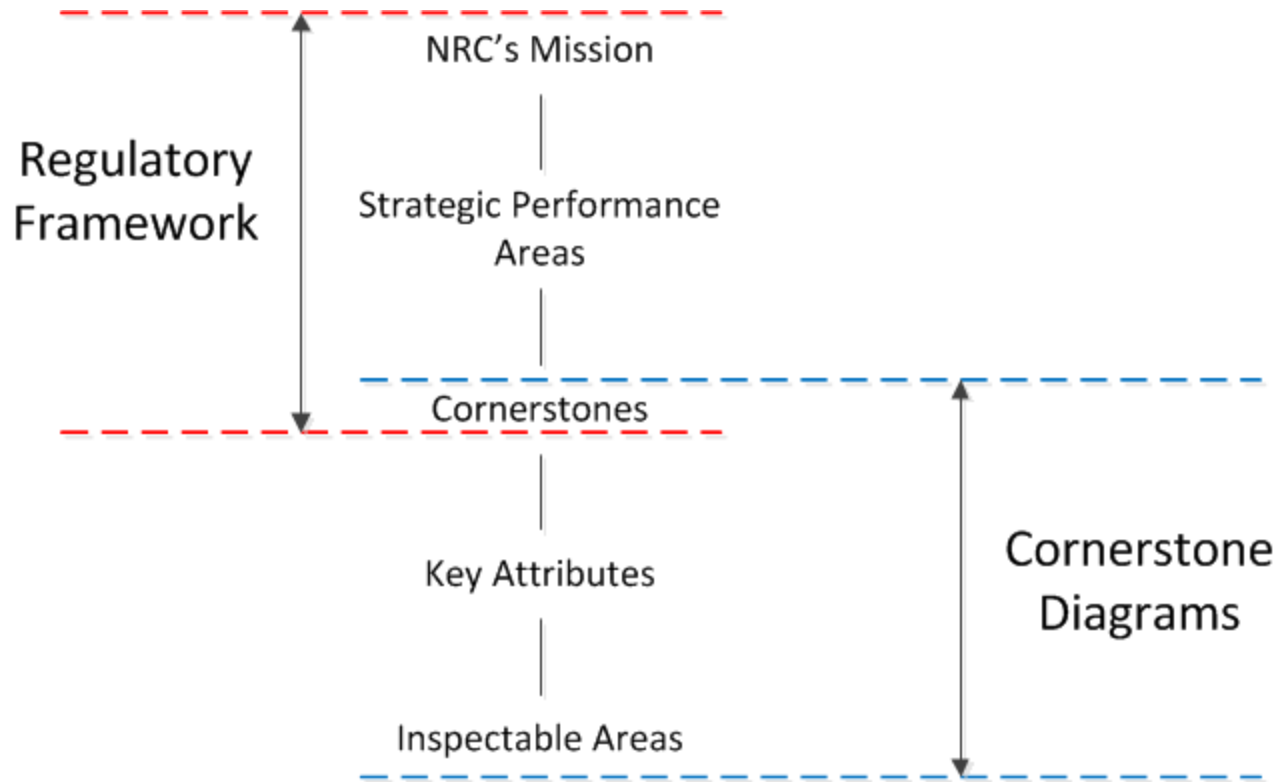
Background

- ▶ **OIG-07-A-06**
 - Fully develop and implement a framework for the Fuel Cycle Oversight Program that is consistent with a structured process, such as the ROP.

- ▶ **SRM-SECY-10-0031**
 - Develop a set of cornerstones that could be applied to the FCOP.
 - Implement revisions to baseline inspection program to credit licensee's [adequate corrective action programs].

- ▶ **SRM-SECY-11-0140**
 - Develop the optimal basis for the cornerstones.
 - Consider how cornerstones would be understood in context of fuel facility operation and less whether they resemble those of the ROP.
 - Provide notation vote paper to close this issue.

Regulatory Framework and Cornerstone Structure

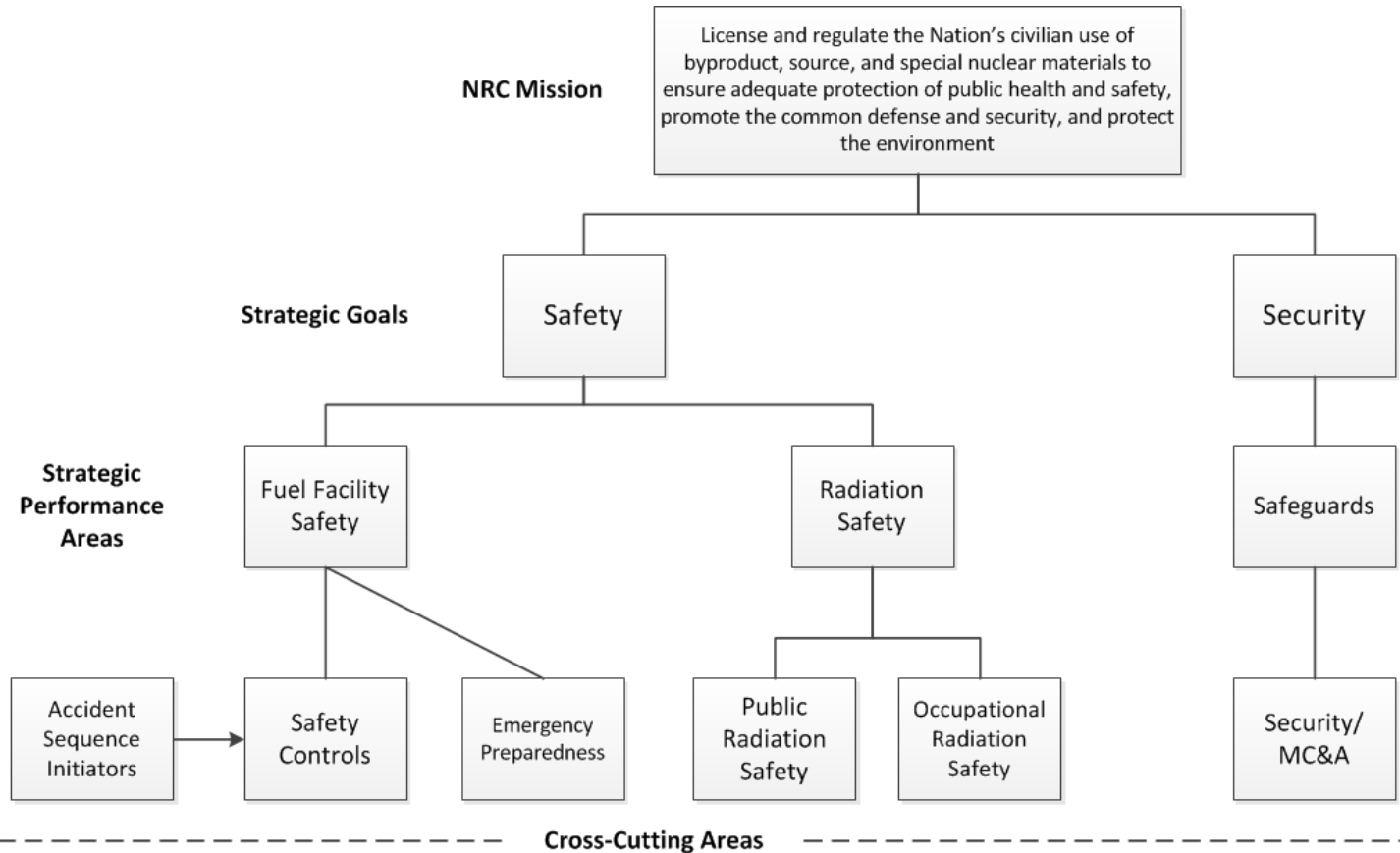


- ▶ Each level is defined – including “What is a cornerstone?”

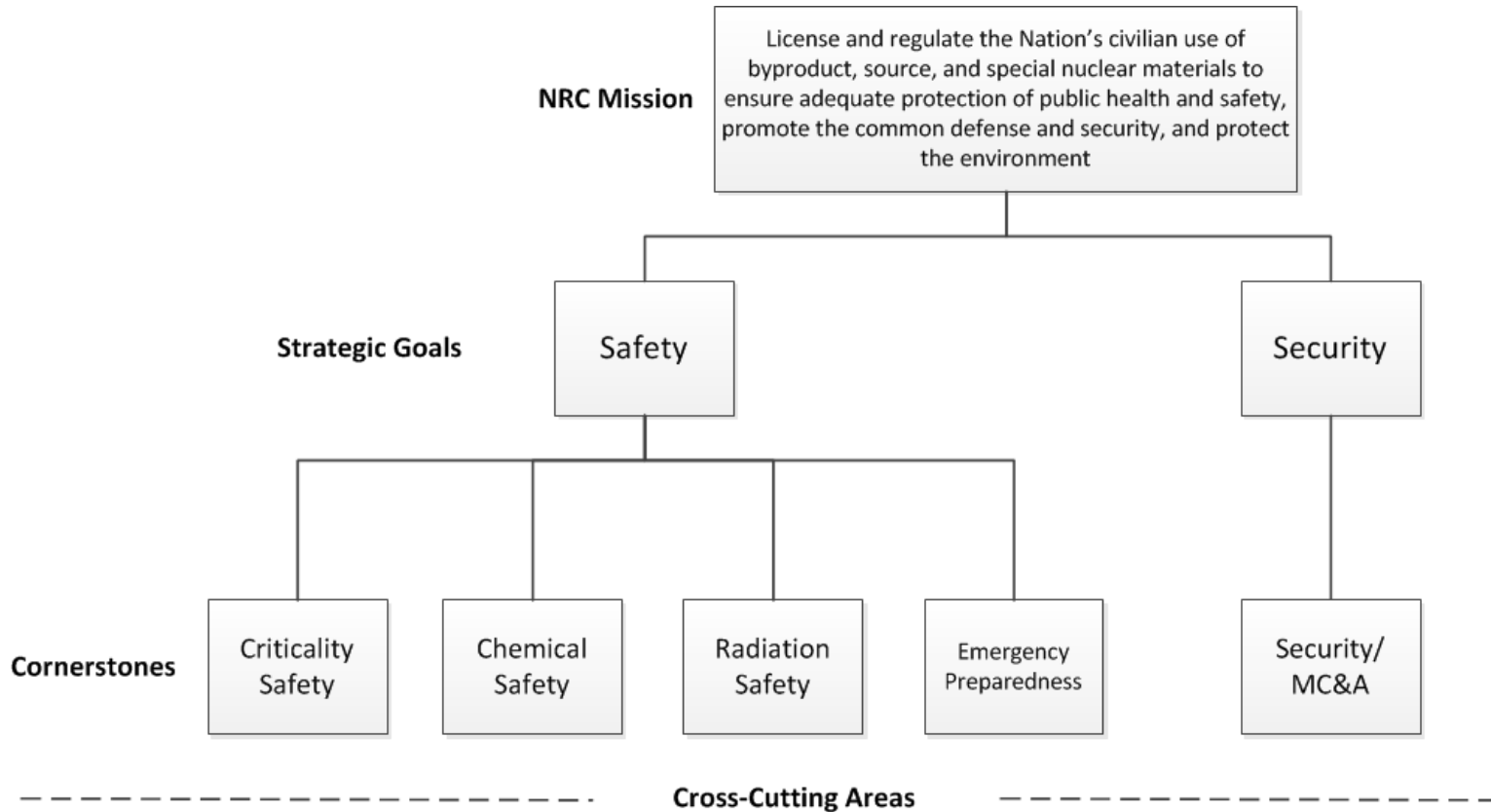
Cornerstone Development

- ▶ Used NRC's Strategic Plan (NUREG-1614, Vol. 6)
- ▶ In addition to radiological objectives, considered chemical hazards at fuel facilities
- ▶ Cornerstone – “what is it?”
 - Objective
 - Key attributes
 - Inspectable areas
 - Scope
 - Basis
- ▶ Different cornerstones approaches
 - Hazards analysis-based
 - Operations-based
 - Combined
 - Staff's Recommendation → similar to operations-based

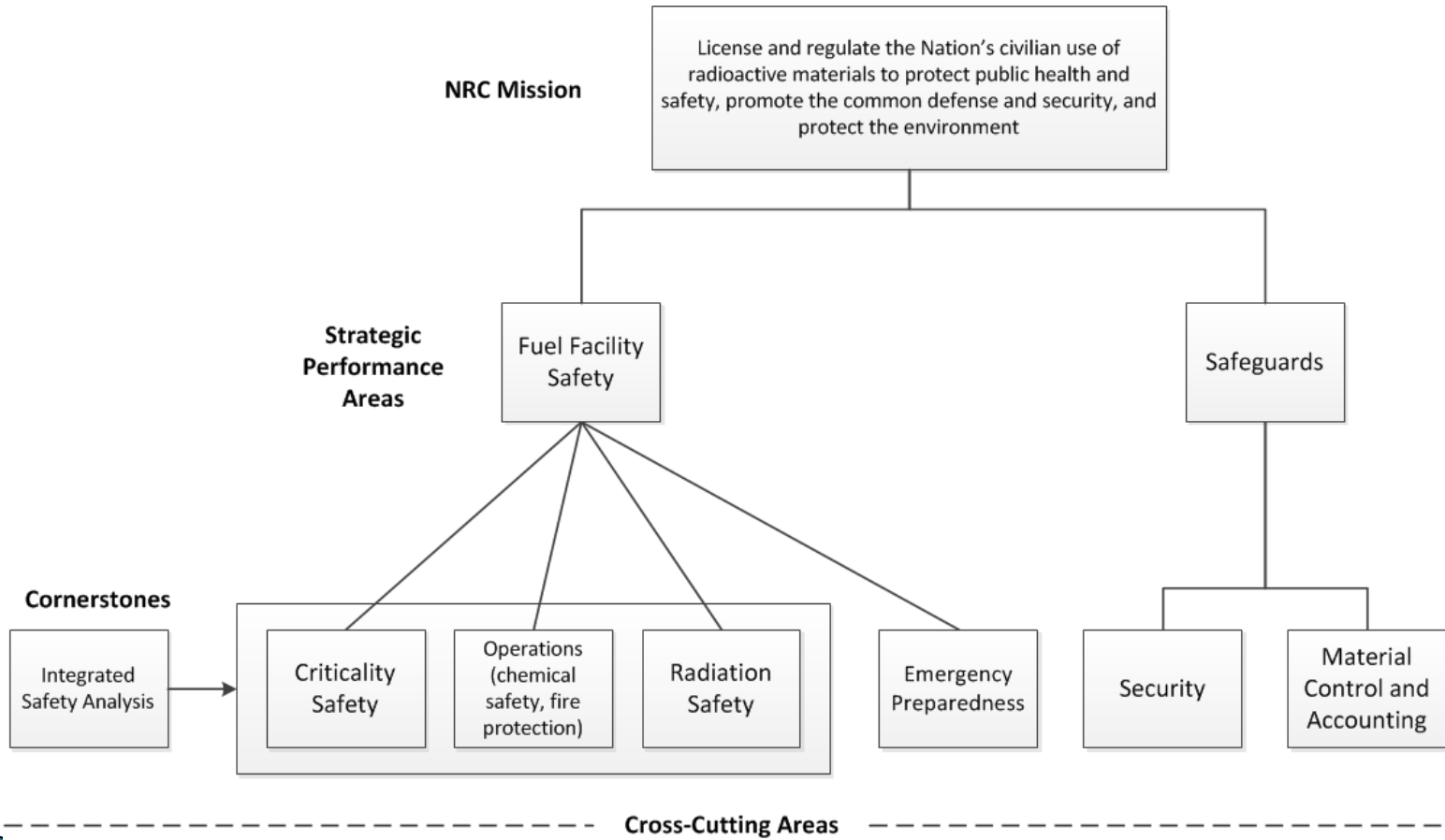
Hazards Analysis–Based Cornerstones



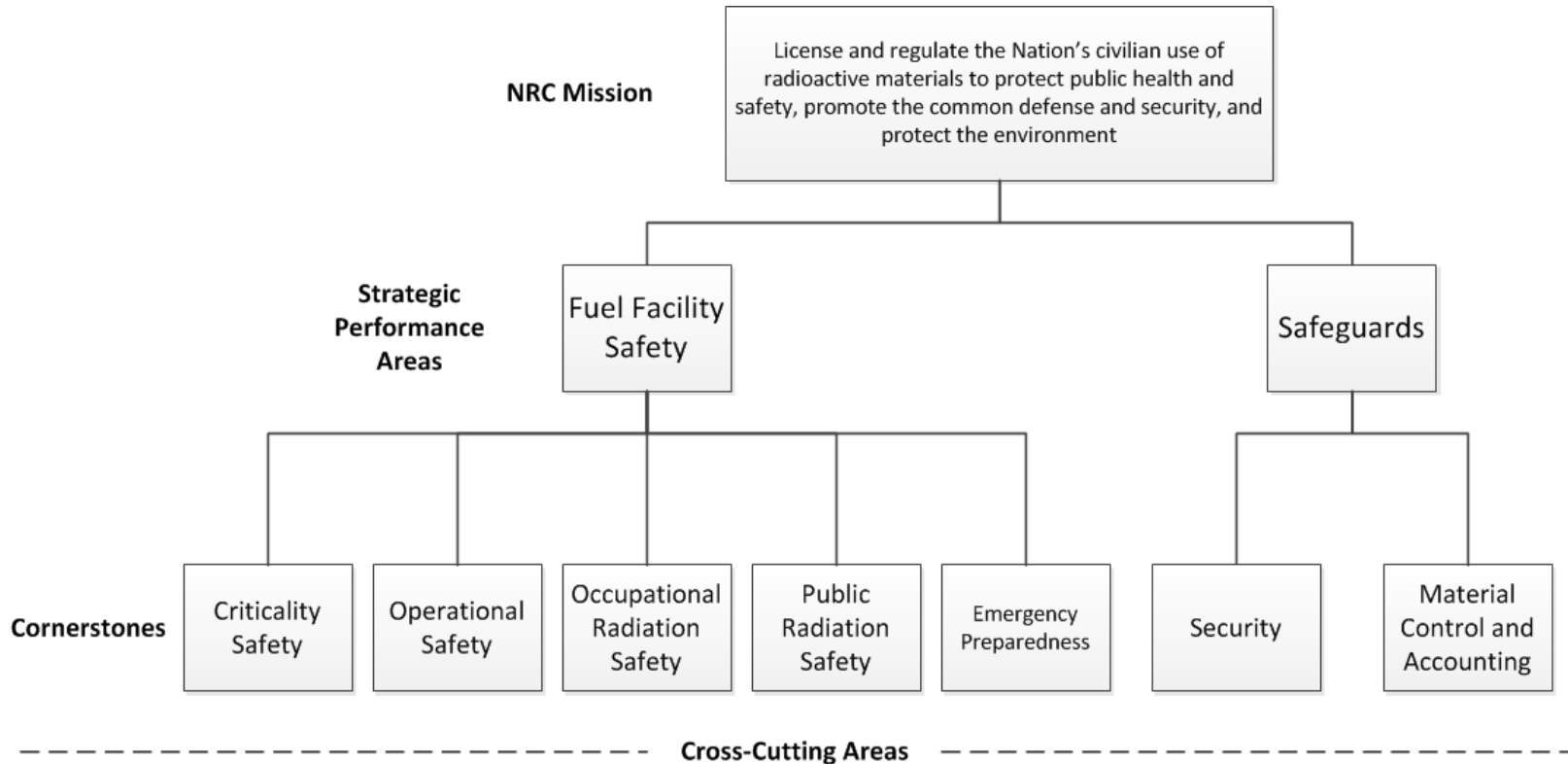
Operations-Based Cornerstones



Combined Cornerstone Approach



Staff's Recommendation



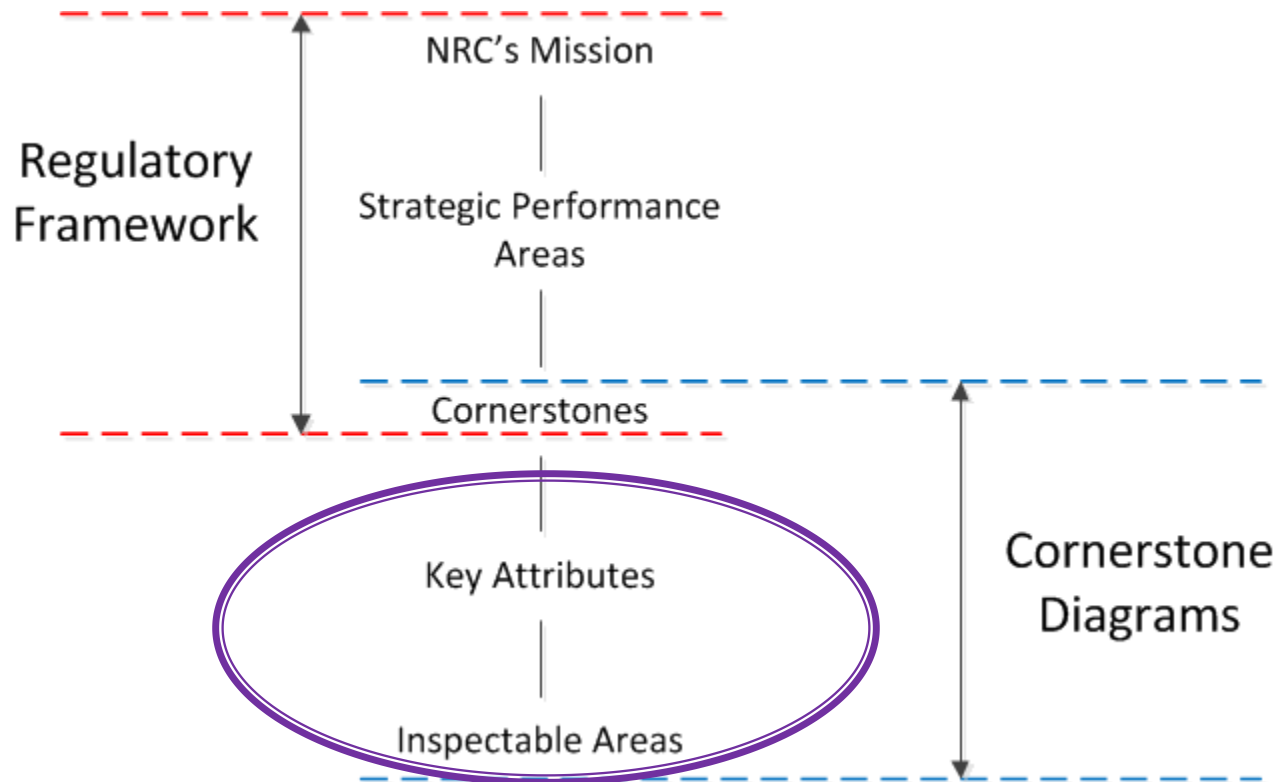
Relationship Between Cornerstones and NUREG-1520

Cornerstones	NUREG-1520 Chapters
Criticality Safety	5, "Nuclear Criticality Safety" 3, "ISA and ISA Summary" 11, "Management Measures"
Operational Safety	6, "Chemical Process Safety" 7, "Fire Safety" 3, "ISA and ISA Summary" 11, "Management Measures"
Occupational and Public Radiation Safety	4, "Radiation Protection" 9, "Environmental Protection" 3, "ISA and ISA Summary" 11, "Management Measures"
Emergency Preparedness	8, "Emergency Management"

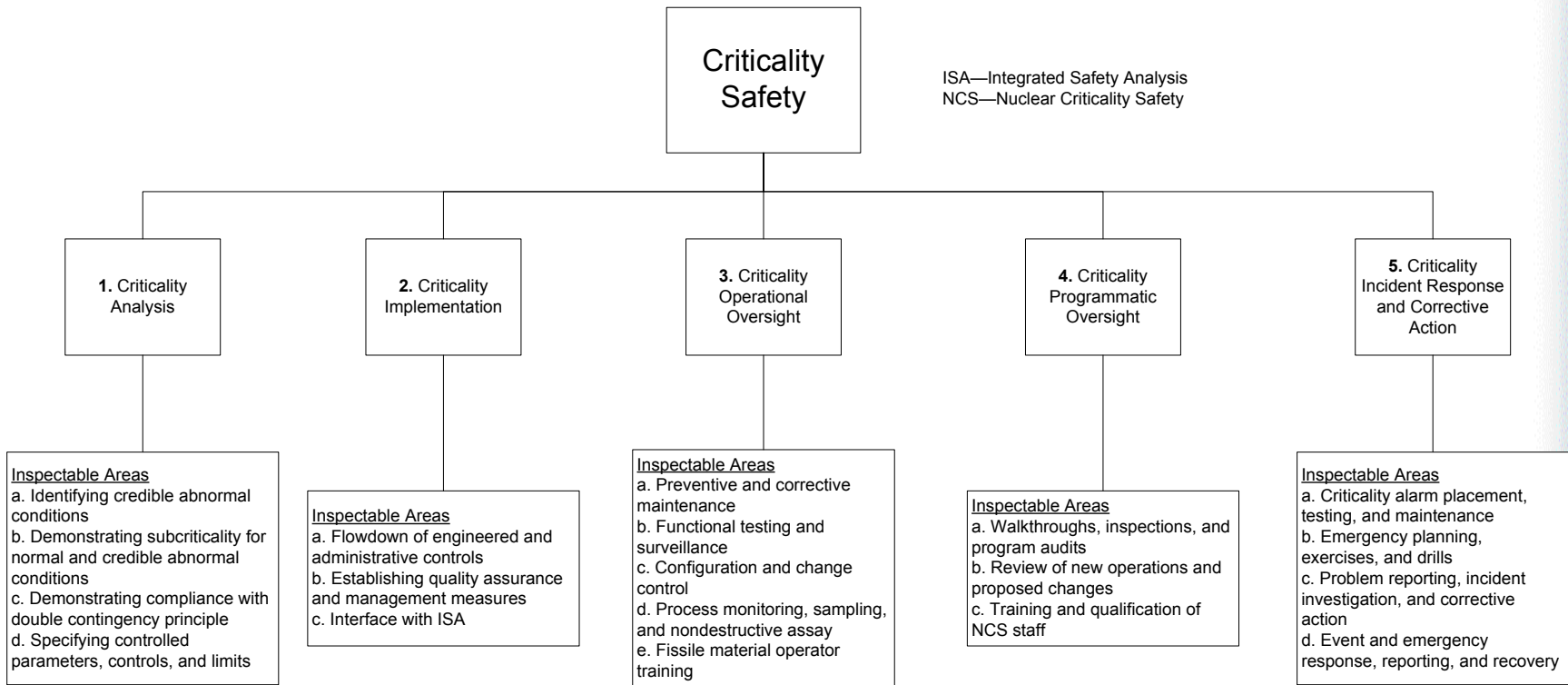
Relationship Between Cornerstones and Safeguards / Security Guidance

Cornerstones	Guidance Document
<p>Security</p>	<p>Regulator Guide (RG) 5.52, “Standard Format and Content of a Licensee Physical Protection Plan for Strategic Special Nuclear Material at Fixed Sites (Other than Nuclear Power Plants)”</p> <p>RG 5.59, “Standard Format and Content for a Licensee Physical Security Plan for the Protection of Special Nuclear Material of Moderate or Low Strategic Significance”</p>
<p>Material Control and Accounting</p>	<p>NUREG-1280, “Standard Format and Content Acceptance Criteria for the [MC&A] Reform Amendment”</p> <p>NUREG-1065, “Acceptable Standard Format and Content for the [FNMC] Plan Required for Low-Enriched Uranium Facilities”</p> <p>NUREG/CR-5734, “Recommendations to the NRC on Acceptable Standard Format and Content for the FNMC Plan Required for Low-Enriched Uranium Enrichment Facilities”</p>

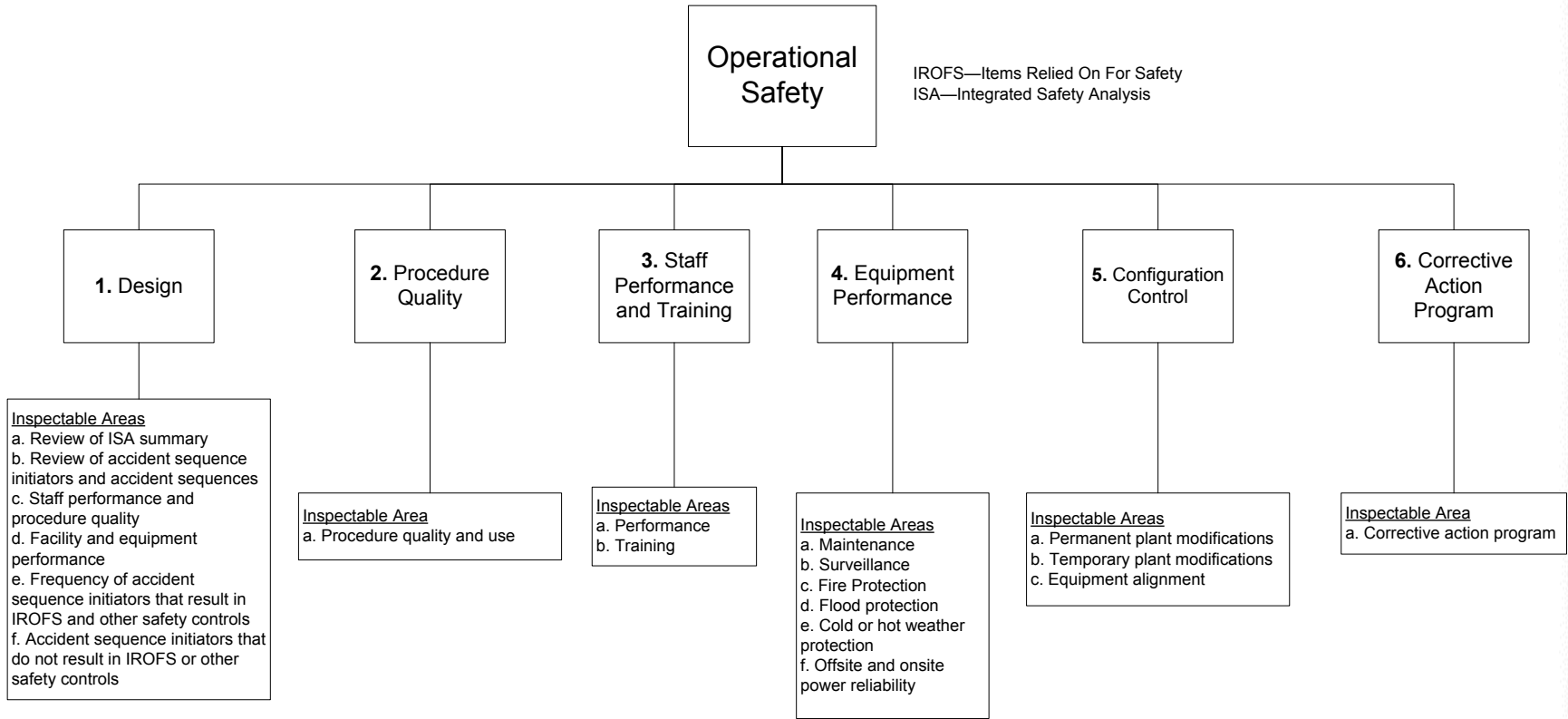
Key Attributes and Inspectable Areas



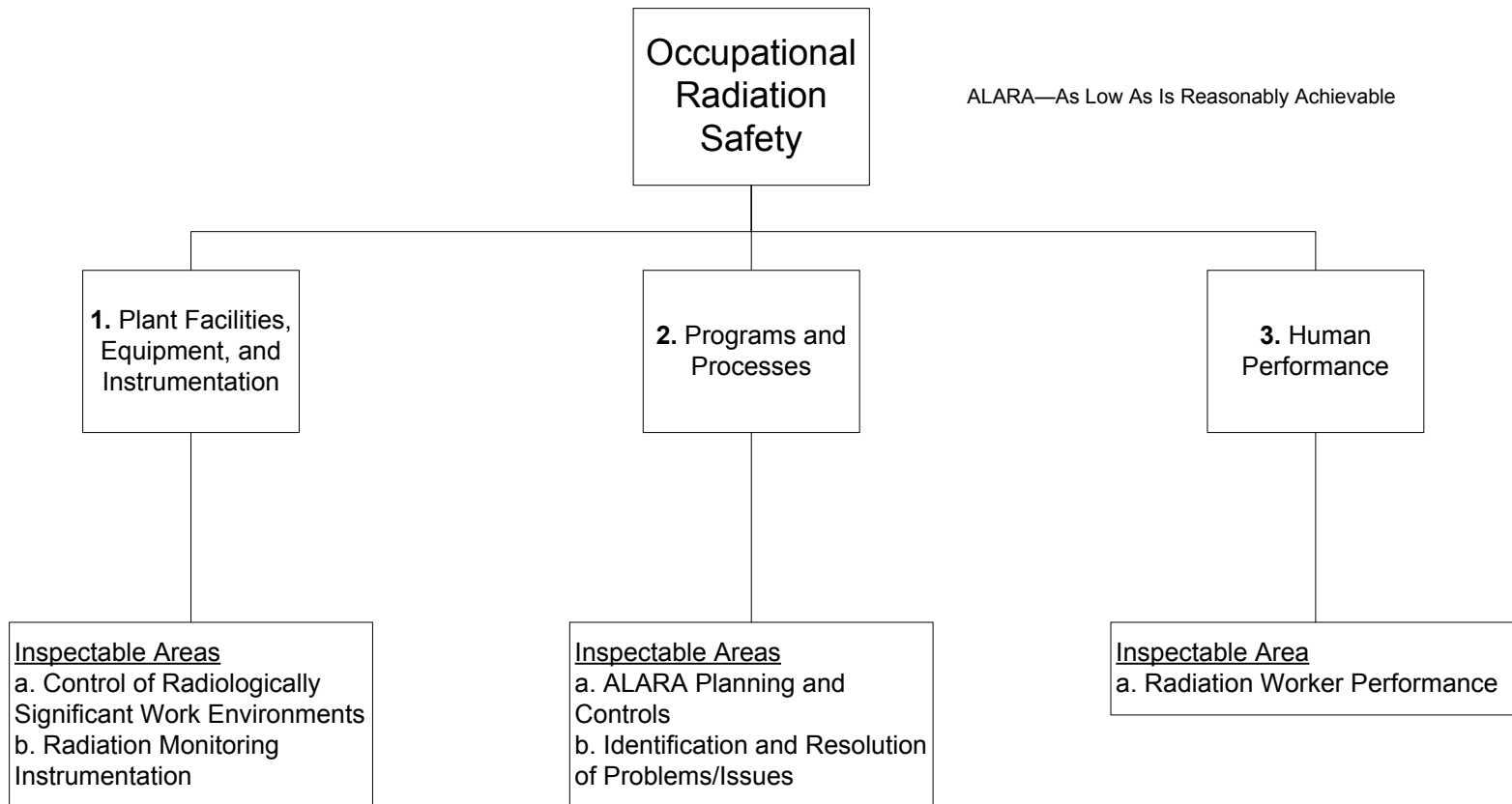
Criticality Safety



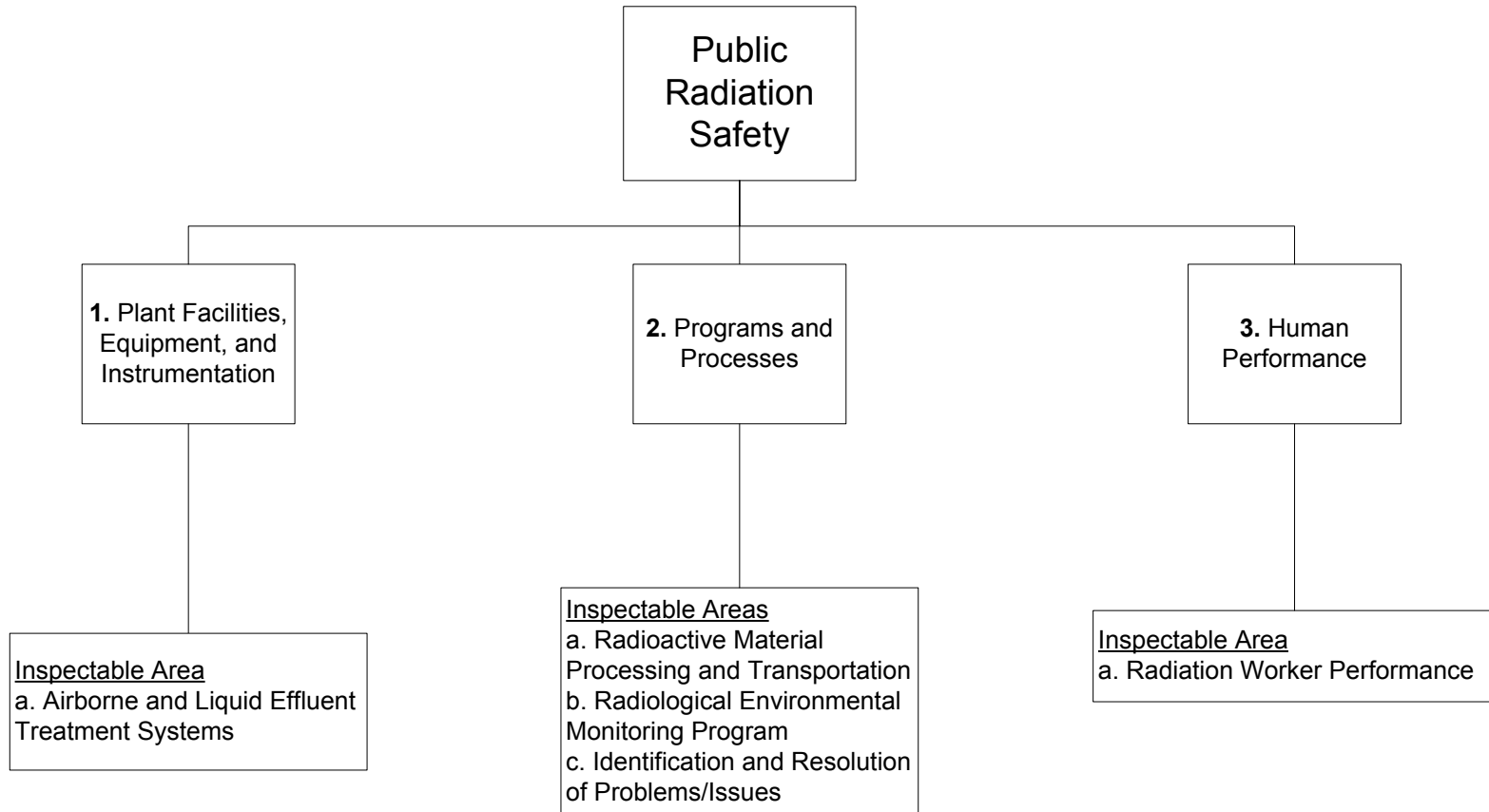
Operational Safety



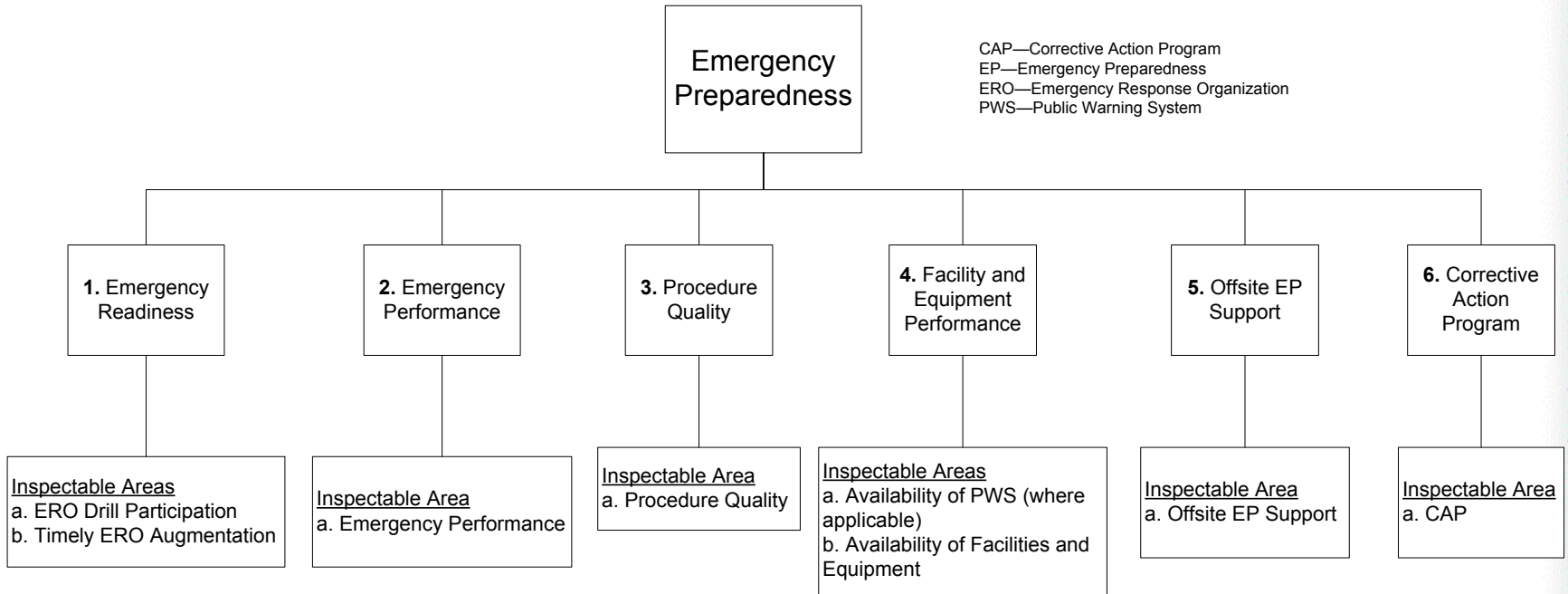
Occupational Radiation Safety



Public Radiation Safety

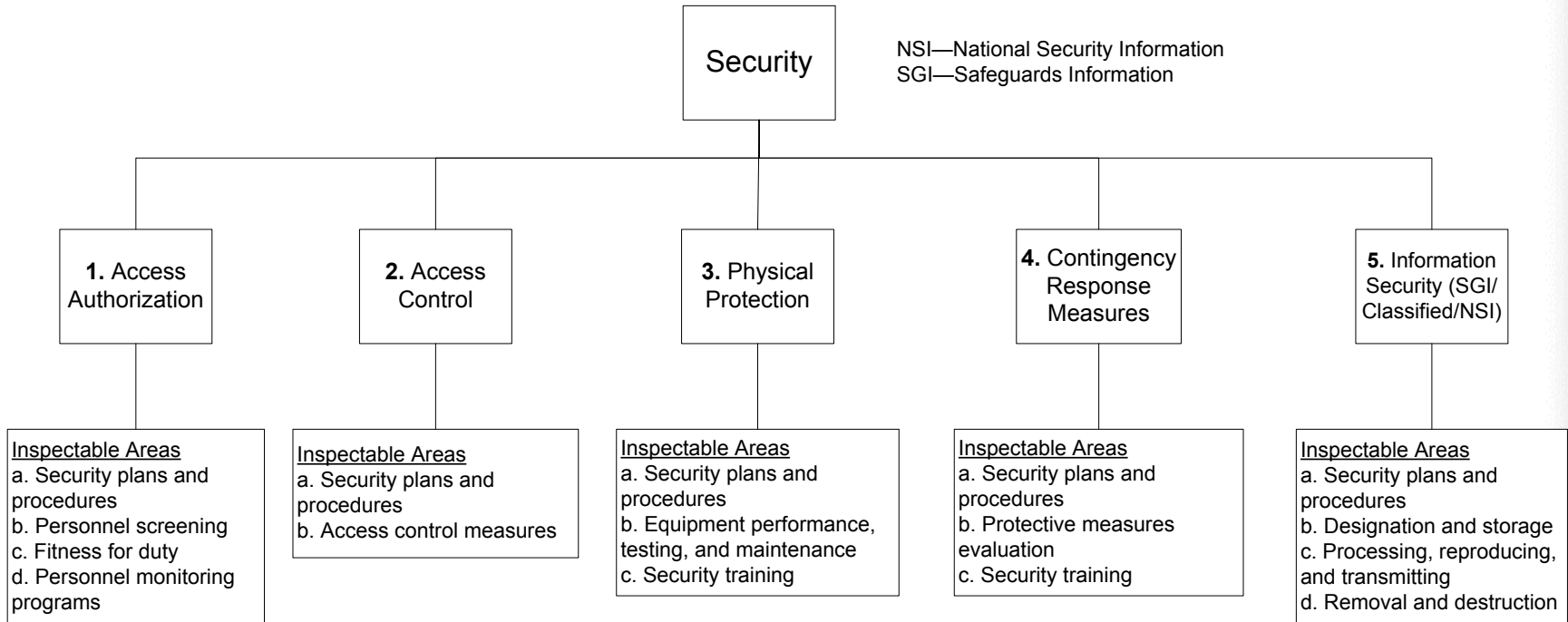


Emergency Preparedness

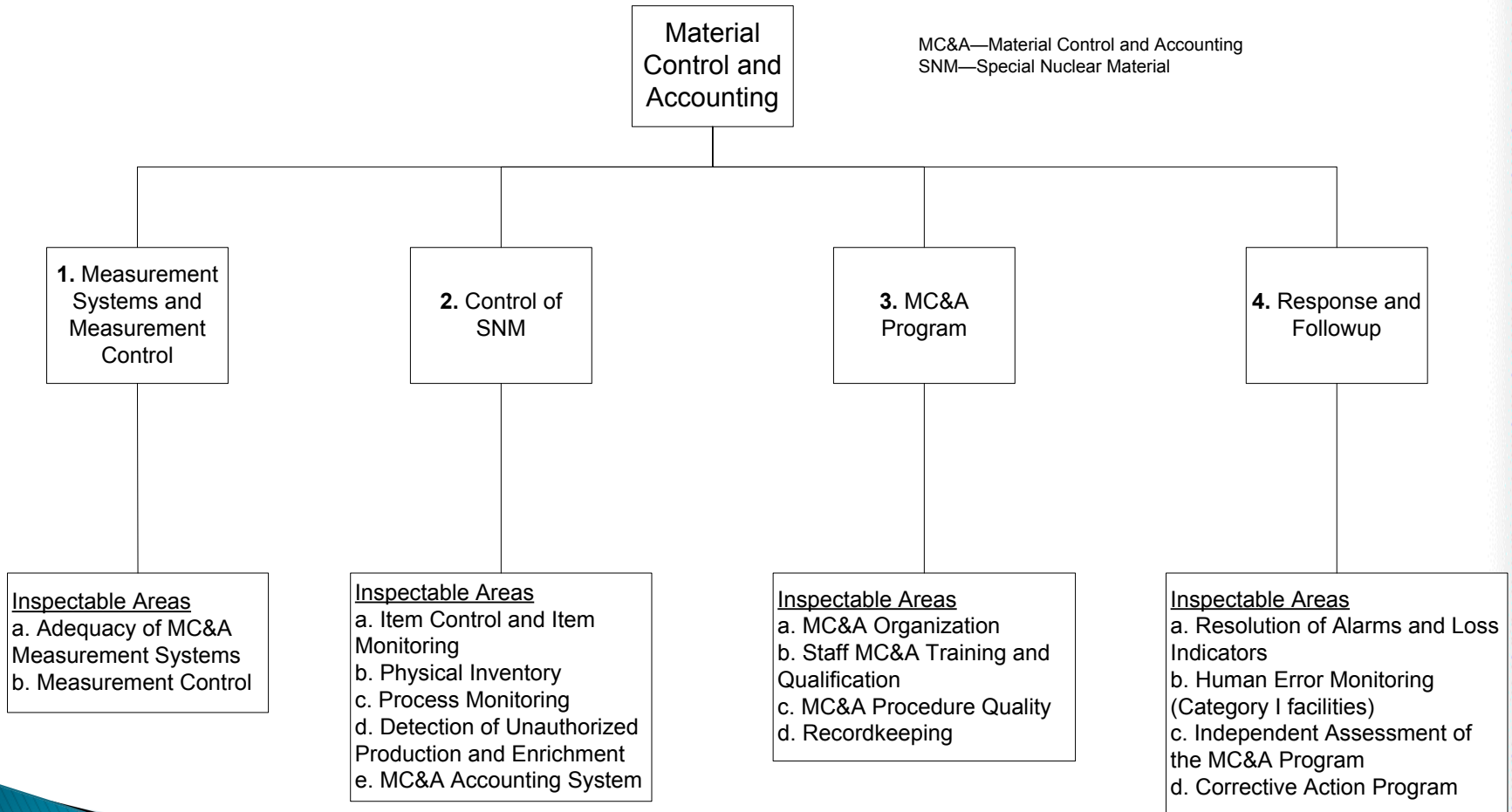


Security

NSI—National Security Information
 SGI—Safeguards Information



Material Control and Accounting



10 CFR Part 26

Fitness for Duty Program

HHS Guidelines Rulemaking

“A Direct Contribution to Safety and Security”

June 11, 2015

Paul Harris, Senior Program Manager
Office of Nuclear Security and Incident Response



Need for this Rulemaking

- Health and Human Services (HHS) issued an update to the *Mandatory Guidelines for Federal Workplace Drug Testing Programs* on November 25, 2008 (effective October 1, 2010)
- NRC has historically relied on the HHS Guidelines to establish the technical requirements for urine specimen collection, testing, and evaluation.
- NRC held four public meetings to discuss possible regulatory updates and to present draft rule changes along with the technical basis.
- Since the 2008 HHS Guidelines were published 8 months after the 10 CFR Part 26 final rule, NRC chose to evaluate the effectiveness of the changes and to provide licensees with time to implement the 2008 Part 26 rule.

Summary of Changes

Significant Changes

1. Lower testing cutoffs (Amphetamine, Cocaine, Methamphetamine)
2. Initial testing for the Heroin metabolite, 6-acetylmorphine (6-AM)
3. Expand testing panel to include Ecstasy (MDMA, MDEA, MDA)
4. Implement additional subversion attempt detection measures (require special analyses testing of dilute & suspect specimens)
5. Donor protection (use of LOQ and MRO review of high pH specimens)

Guidance: draft Regulatory Guide (DG-5040)

Timing: 2015 (proposed rule); 2016 (final rule); 2017 (rule effective)

Estimated Benefits and Costs

Benefits

Estimated 10+ percent increase in detection of illegal drug use, misuse of legal drugs, and subversion attempts

- Addresses multi-year increasing trend in amphetamine/methamphetamine use
- Enhances ability to identify use of the illegal drug Heroin
- Addresses multi-year increasing trend in subversion attempts
- Improves pre-access testing (65-75% of all positives occur at pre-access)
- Better aligns Part 26 with Federal workplace drug testing programs and comparable safety-sensitive worker populations being testing (e.g., U.S. DOT)

Costs

- One-time (average \$5,300): Update contracts, FFD program policy, and procedures; conduct employee training
- Annual (average \$6,000): Per test cost increase to test for two new substances (Ecstasy, 6-AM); additional MRO reviews for additional positives and legitimate medical use of amphetamines

10 CFR Part 26 D&A Rulemaking – Technical Issues

NRC Currently Developing Technical Basis

1. Prescription use and evaluation (including marijuana)
2. Expand testing panel (e.g., oxy's)
3. Use additional specimens for drug testing (oral fluids, hair)
4. Incorporate lessons learned from 2008 rule
5. Address several petitions for rulemaking

HHS published draft updated HHS Guidelines on May 15, 2015

- Expand urine drug testing panel to include additional Schedule II drugs (semi-synthetic opiates)
- Enable the use of oral fluids for drug testing
- Public comment period closes July 14, 2015

Cyber Security Rulemaking

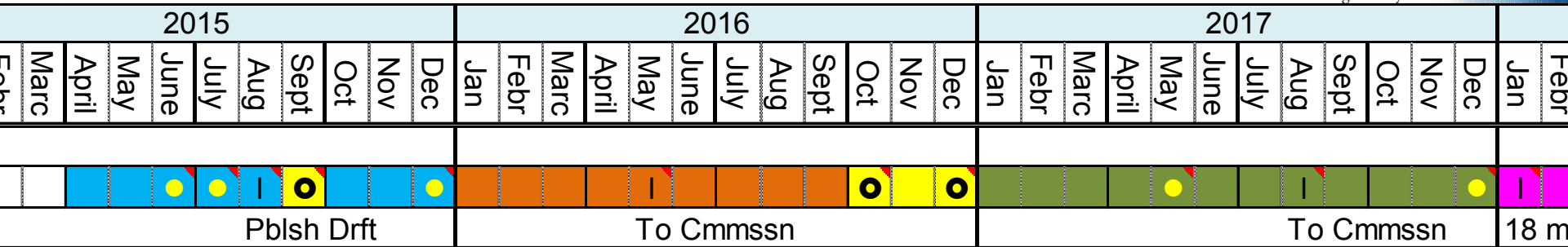
Thursday June 11, 2015
1:30pm-2:30pm

Matt Bartlett
Brian Smith

Agenda

- Rulemaking Overview
- Major Milestones
- Technical Approach
- Regulatory Basis Development
- Voluntary Initiative

- **SECY-14-0147, Cyber Security for Fuel Cycle Facilities (ML14177A264)**
 - Option 1, orders followed by rulemaking
 - Option 2, rulemaking
 - Option 3, voluntary initiative only
- **SRM-SECY-14-0147 (ML15083A175)**
 - High priority, expedited
 - Comprehensive technical basis,
 - “Graded, consequence based,”
 - Monitor “voluntary” efforts, and
 - Consider an 18 month implementation period.



Regulatory Basis:









Publish Draft for Comment – August 2015

Proposed Rule and Guidance:

Submit SECY to Commission – May 2016

Final Rule and Guidance:

Submit SECY to Commission – August 2017

	= Reg. Basis/Draft Guidance
	= Proposed Rule/Draft Guidance
	= Final Rule/Final Guidance
	= Public Interaction
	= Implementation
	= Meeting occurs
	= Marks a milestone with text
	= Change occurred below arrow

2015					2016					2017																									
April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Febr	Marc	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Febr	Marc	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan		
			V	V						A	A																								

- Apply to safety, security, emergency preparedness, and material control and accounting (SSEPMCA)
- Adapt draft order language and 73.54
- Develop a graded, consequence based approach
- Informed by reactor lessons learned
- Considering use of consensus standards in guidance

- Develop the regulatory framework – graded, consequence based
- Backfit with exception – adequate protection and common defense
- Cost Estimates
- Guidance – NIST-800, others?

- **Status of voluntary action plan**
 - (1) formation of a cyber security assessment team
 - (2) training personnel
 - (3) establishing portable media controls for high consequence events, and
 - (4) establishing a cyber security incident response and recovery capability.

- **Identify facilities to visit**

- **Goals for site visits**
 - Evaluate implementation of voluntary measures
 - Review use of consensus standards
 - Inform backfit and cost determinations

- NRC proceeding with expedited rulemaking
- Seeking multiple interactions in Summer of 2015
- Goal to publish Regulatory Basis for comment by end of August, 2015
- Seeking site audits to begin in July (need industry/NEI input)

Cumulative Effects of Regulation

Soly I. Soto, NRC Project Manager

NMSS/FCSE/FMB

301-415-7528, Soly.Soto@nrc.gov

Introduction

- **CATEGORY 2 MEETING**

- The primary discussions are expected to be between the NRC and representatives of licensed fuel cycle facilities. Members of the public will be invited to participate in this meeting at designated points during the meeting.

- **REMINDER**

- The information contained herein is for discussion purposes only and does not represent the final NRC position.
- We will not be discussing the merits of the regulatory activities during this meeting.

CER Agenda

- **Updated Integrated Schedule**
- **Updates to the Integrated Schedule**
- **Next Quarterly Meeting**
- **Summary**

Updated Integrated Schedule

Regulatory Activity	Revised	2015												2016												2017												2018												2019												Comments	
		Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec		
Part 20-Rdtn Protection POC: Cardelia Maupin Driver: SRM	06/04/2015	Pre-rulemaking analysis ongoing												Seek Commission Approval of Draft Reg. Basis																																					regulations.gov docket #: NRC-2009-0279												
Part 21-Quality Assurance POC: Sabrina Atack Driver: Staff	06/04/2015	Draft RgBs												Final Reg. Basis												Issue Proposed Rule												Review by Commission												Issue final rule													regulations.gov docket #: NRC-2012-0012
Part 26-Fatigue POC: A. Sapountzis Driver: SRM	06/04/2015	NRC is reviewing the proposed alternative to rulemaking provided by Category I licensees.																																																													Alternative fatigue proposal for security officers submitted by Category I licensees. NRC responded with RAIs (ML15013A128). Category I licensees responded to RAIs. NRC requested an update to the Category I proposal in June 2015. If an agreement is not reached soon, the NRC will restart the rulemaking effort and deliver the 10 CFR Part 26 regulatory basis to NMSS for a 30 day review in Feb. 2016.
Part 61 - LLW Disposal POC: Gary Comfort Driver: SRM	06/04/2015	Proposed Rule to SECY for signature												Issue final rule																																																	regulations.gov docket #: NRC-2011-0012 2015 http://www.nrc.gov/about-nrc/regulatory/rulemaking/potential-rulemaking/uw-streams.html Proposed rule (80 FR 16082) and related guidance (80 FR 15930) published on
Part 73-Mtrl Attractiveness POC: Keith McDaniel Driver: SRM	06/04/2015	Develop Proposed Rule												Proposed Rule to Commission												Draft Final Rule to Commission																									regulations.gov docket #: NRC-2014-0118 http://www.nrc.gov/security/domestic/phys-protect/reg-initiatives/10cfr73.html Final Regulatory Basis (ML14321A007) regs.gov docket #: NRC-2011-0012												
Part 73-Cyber Security Rulemaking POC: Matt Bartlett Driver: SRM-SECY-14-0147	06/04/2015	Publish Draft												To Commission												To Commission												18 months for implementation													SRM-SECY-14-0147												
Part 74-MC&A POC: Tom Pham Driver: SRM	06/04/2015	Issue draft reg analysis												Final rule due to Commission																																					regulations.gov docket #: NRC-2009-0096												
Chemical Security POC: Larry Harris	06/04/2015	Waiting for direction from the Commission.																																																	SECY-11-0108: (ML111400109) SRM-SECY-11-108: (ML120470207) SECY-14-112: (ML14198A037)												
ANS 57.11 (ISA) POC: Kevin Morrissey Driver: SRM	06/04/2015	Draft to WG												Draft ISG, if Applicable												Final ISG, if Applicable																									www2.ans.org (search ANS 57.11)												
NUREG-1520 POC: Soly Soto Driver: Staff	06/04/2015	Final NUREG																								Begin Revision 3																									SECY-12-0091 (ML12128A343) SRM-SECY-12-0091 (ML12284A033) regulations.gov docket #: NRC-2012-0220 Staff expects to publish final NUREG-1520 on June 2015.												
Acute Chem. Exposures (ISG) POC: Marilyn Diaz Driver: Staff/SRM	06/04/2015	Issue Draft ISG												Issue ISG																																					In parallel with Part 40 rulemaking consistent with SRM-SECY-12-0071: (ML13123A127) (Working to establish an appropriate path forward) Public comment period on the ISG was extended to July 1, 2015.												
Soluble Uranium (ISG) POC: Chris Ryder Driver: SRM	06/04/2015	ACRS Issue ISG																																																	In parallel with Part 40 rulemaking consistent with SRM-SECY-12-0071: (ML13123A127) Staff expects to publish the final ISG on June 2015.												
RFCOP POC: DyLanne Duvigneaud Driver: SRM	06/04/2015	ACRS												ACRS												ACRS												Pilot Testing and Interactions												ACRS													For additional details see RFCOP Project Plan Status in ADAMS (ML13207A212) Cornerstone basis document is expected to be published for public comment in June 2015 with a 30 day comment period.
MC&A Reg. Guides POC: Glenn Tuttle Driver: SRM	06/04/2015	60 day comment for 8 RGs												Eight RGs issued separately																																					SECY 13-0031: (ML13063A051)												
Natural Phenomena Hazards POC: Jonathan Marciano Driver: Staff & SRM	06/04/2015	Issue GL - Start 90 and 180 days to respond																																																	Staff awaits for Commission direction on the issuance of the Generic Letter. See Supplemental Document http://www.nrc.gov/materials/fuel-cycle-fac/supplmnt-fcp-is.pdf												
ISG for Natural Phenomena POC: Jonathan Marciano Driver: Staff & SRM	06/04/2015	Draft ISG												Final ISG																																					Draft ISG (ML15026A136)												
FCIX POC: Leira Cuadrado Driver: Staff	06/04/2015	FCIX Meeting												FCIX Meeting												FCIX Meeting												FCIX Meeting													http://www.nrc.gov/public-involve/conference-symposia/fcix.html												

- **Removed from Integrated Schedule:**
 - **Part 40**
 - The Commission approved the staff's request to terminate the Part 40 rulemaking on April 27, 2015.
 - **Chemical Security**
 - The Commission disapproved the staff recommendation and directed the staff to monitor changes in the DHS CFATS listing of chemicals of interest (SRM-SECY-14-0112).
 - **Regulatory Guide 3.55**
 - It only applies to one facility

Part 20 “Standards for Protection Against Radiation”

2015												2016												2017												2018												2019											
Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Febr	Marc	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Febr	Marc	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Febr	Marc	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Febr	Marc	April	May	June	July	Aug	Sept	Oct	Nov	Dec
Pre-rulemaking analysis ongoing																								Seek Commission Approval of Draft Reg. Basis																																			

- No updates

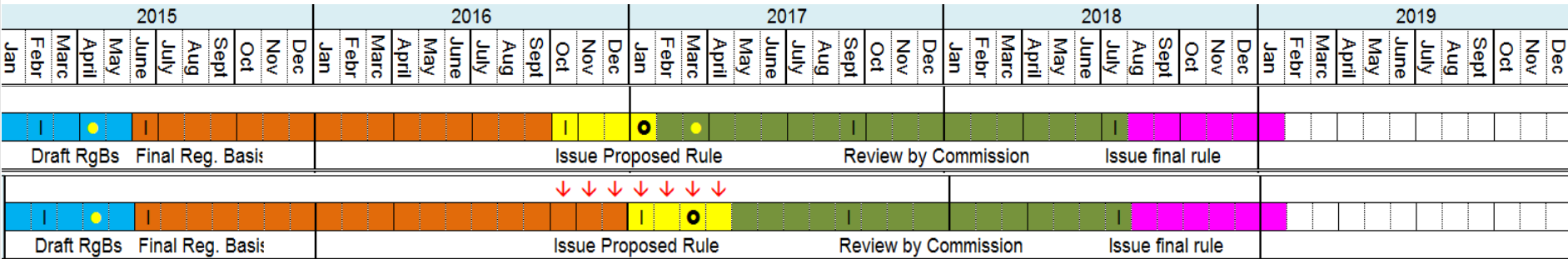
Key Information	<ul style="list-style-type: none"> The regulatory basis for the Part 20 rulemaking to update the radiation protection thresholds is under development. Once the regulatory basis has been completed by the staff, it will be provided to the Commission for a vote some time in 2015. December 2014 – March 2015: The comment period on the Advanced Notice of Proposed Rulemaking has been extended till March 2015. Individuals may provide comment by visiting the www.regulations.gov website and searching NRC-2009-0279.
Meeting Information	<ul style="list-style-type: none"> None Scheduled.

Contact:
 Cardelia Maupin
 FSME/DILR/RPMB
 301-415-2312



Part 21 “Reporting Defects and Non-Compliance”

Top 03-05-2015, Bottom 06-04-2015



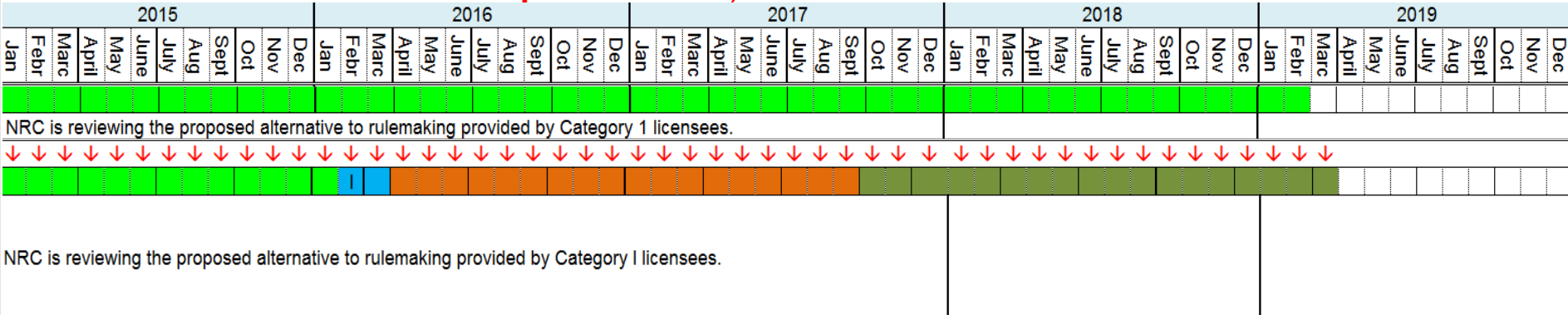
Key Information	<ul style="list-style-type: none"> Staff to issue final Regulatory Basis in June 2015 and begin work on proposed rule and regulatory guides. Finalize proposed rule – January 2017. October 2016 – January 2017, 75 day comment period on the proposed rule. July 2018, Expect to finish rulemaking.
Meeting Information	<ul style="list-style-type: none"> To-Be-Determined (later in 2015) – Meetings to discuss development of Regulatory Guides on evaluation and reporting and commercial grade dedication with industry. March – May 2017 – Meeting(s) to discuss resolution of comments on the proposed rule.

Contact:
 Sabrina Atack,
 NMSS/FCSE/PORSEB
 301-415-7241



Part 26 “Subpart I Managing Fatigue”

Top 03-05-2015, Bottom 06-04-2015



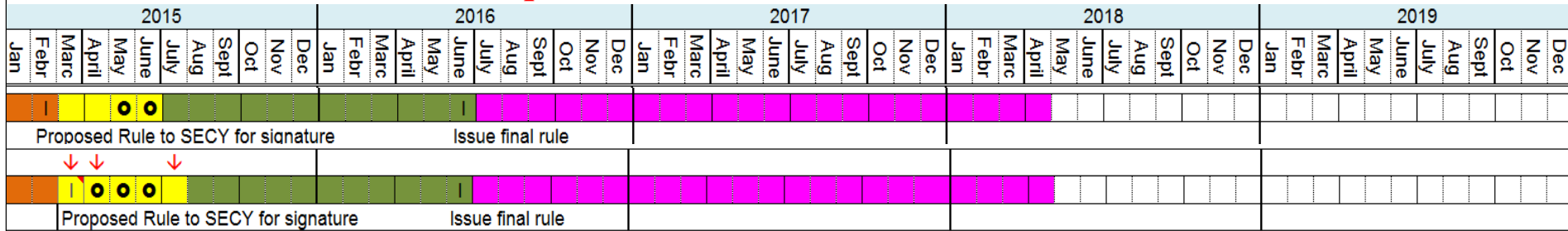
Key Information	<ul style="list-style-type: none"> Staff is reviewing the proposed alternative to rulemaking for fatigue measures provided by the Category I licensees for security officers. Staff removed the Part 26 basis from the final Part 73 regulatory basis rulemaking effort pending review of the proposed fatigue measures. NRC responded with RAIs (ML15013A126) to the proposed alternative to rulemaking. Staff reviewed Category I licensees responses to NRC RAIs dated February 26, 2015. On May 12, 2015, the NRC had a conference call with the Category I licensees to discuss their revised proposal. Based on discussions, the Category I licensees will revise their proposal and submit it to the NRC in June 2015.
Meeting Information	<ul style="list-style-type: none"> None Scheduled.

Contact: Alex Sapountzis,
NSIR/DSP/FCTSB,
301-287-3660



Part 61 “Proposed Rule: Low-Level Radioactive Waste Disposal”

Top 03-05-2015, Bottom 06-04-2015



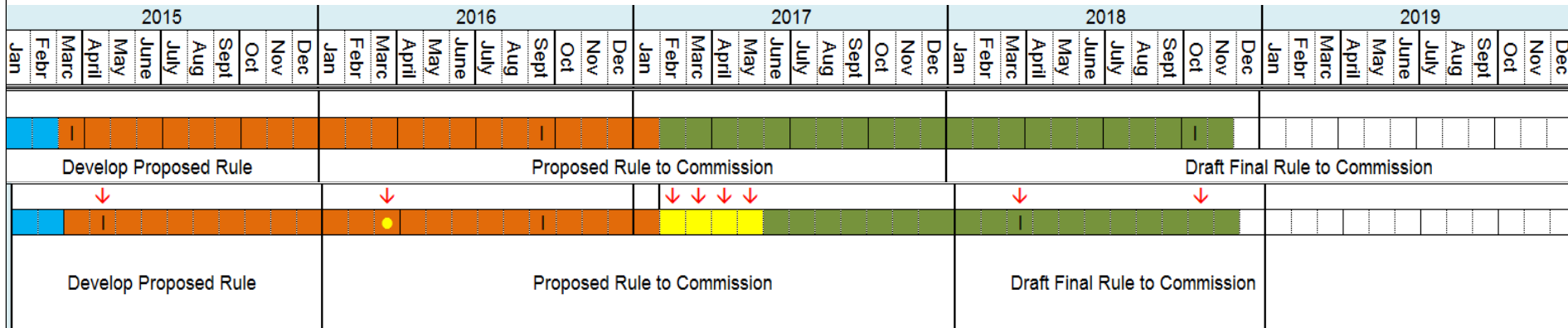
Key Information	<ul style="list-style-type: none"> The Commission directed the NRC staff to revise the draft rule language and make other directed changes prior to publication as a proposed rule. Proposed rule (80 FR 16082) and related guidance (80 FR 15930) were published in the Federal Register for public comment on March 26, 2015. The comment period ends on July 24, 2015.
Meeting Information	<p>Meetings held on:</p> <ul style="list-style-type: none"> March 20, 2015 – Phoenix, AZ April 28, 2015 – Rockville, MD May 12, 2015 – Austin, TX May 20, 2015 – Webinar on Guidance Document June 2, 2015 – Columbia, SC June 9, 2015 – Richland, WA June 10, 2015 – Salt Lake City, UT.

Contact:
 Gary Comfort,
 FSME/DILR/RPMB,
 301-415-8106



Part 73 “Part 73-Enhanced Security for SNM”

Top 03-05-2015, Bottom 06-04-2015



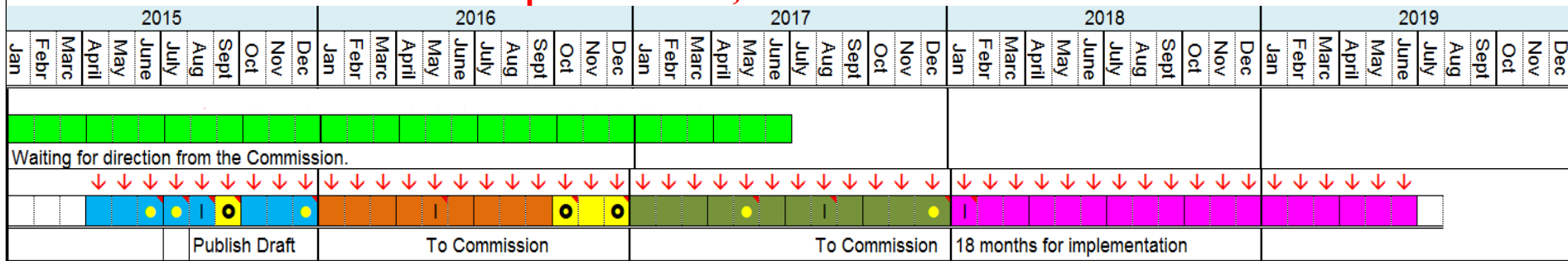
Key Information	<ul style="list-style-type: none"> NMSS has reviewed the regulatory basis and determined that it provides adequate justification to initiate the rulemaking. Proposed rule to the Commission on September 2016. Final rule to the Commission by March 2018.
Related Documents	<ul style="list-style-type: none"> http://www.nrc.gov/security/domestic/phys-protect/reg-initiatives/10cfr73.html. SRM-SECY-09-0123 – Material Categorization and Future Fuel Cycle Facility Security-Related Rulemaking, dated July 8, 2010 (ML101890711). SRM-COMSECY-05-0058 – Schedule and Resources for Security Rulemakings, dated November 16, 2005. Part 73: Final Regulatory Basis (ML14321A007). The Notice was published on April 22, 2015.
Meeting Information	<ul style="list-style-type: none"> None Scheduled.

Contact: Keith McDaniel, NMSS/MSTR/RPMB, 301-415-5252



Part 73 “Cyber Security”

Top 03-05-2015, Bottom 06-04-2015



Related Documents	<ul style="list-style-type: none"> • June 2012 – SECY-12-0088, “Cyber Security Roadmap,” (ML12135A050) • December, 2014 – SECY-14-0147, Cyber Security For Fuel Cycle Facilities (Non-public) • March, 2015 – SRM-SECY-14-0147, “Staff Requirements – Secy-14-0147 – Cyber Security for Fuel Cycle Facilities” (ML15083A175) <ul style="list-style-type: none"> – Commissioner Baran's Vote on SECY-14-0147 – Cyber Security for Fuel Cycle Facilities (ML15118A921) – Commissioner Ostendorff's Vote on SECY-14-0147 – Cyber Security for Fuel Cycle Facilities (ML15132A632)
Meeting Information	<ul style="list-style-type: none"> • June 11, 2015, Cyber Security meeting to discuss NRC plans for the rulemaking • July 2015, Call with stakeholders to discuss status of voluntary cyber security efforts • September 2015, 30 day comment period on draft regulatory basis • September 2015, Public meeting during the comment period to discuss comments on the regulatory basis • December 2015, Public meeting to discuss final regulatory basis October – December 2016, 75 day comment period on proposed rulemaking • October and December 2016, Public meeting to support comment period • May 2017, Public meeting to discuss the proposed rule comments and how they were addressed • December 2017, Public meeting to discuss completion of the final rule and implementation period

Contact:
 Matthew Bartlett,
 NMSS/FCSE/ECB
 301-415-7154



Part 74 “Material Control & Accounting of Special Nuclear Material”

Top 03-05-2015, Bottom 06-04-2015

2015					2016					2017					2018					2019															
Jan	Feb	Marc	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Marc	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Marc	April	May	June	July	Aug	Sept	Oct	Nov	Dec
Issue non-fuel guidance																																			
●																																			
Issue draft reg analysis					Final rule due to Commission																														
↓ Issued non-fuel guidance																																			
●																																			
Issue draft reg analysis					Final rule due to Commission																														

Key Information	<ul style="list-style-type: none"> The comment period on draft rule and guidance was extended and now ends on March 10, 2014. The schedule has been rebase-lined to extend the completion date by one year to allow resolution of comments. The NRC plans to issue the revised regulatory analysis for the draft rule, including the revision of the backfit analysis exclusion. Regulatory Guide for non-fuel cycle facilities was issued in May 2015 for comment (ML13130A077).
Meeting Information	<ul style="list-style-type: none"> July – August 2015 – Meeting to discuss the implementation schedule for the rule.

Contact:
Tom Pham,
NMSS/FCSE/MCAB
301-415-7254



ANS 57.11 “ISA Standard”

Top 03-05-2015, Bottom 06-04-2015

2015					2016					2017					2018					2019																							
Jan	Febr	Marc	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Febr	Marc	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Febr	Marc	April	May	June	July	Aug	Sept	Oct	Nov	Dec								
Draft to WG					Draft ISG, if Applicable					Final ISG, if Applicable																																	

- No changes ANS continues to work on the draft ISA Standard
- No upcoming meetings

Contact:
 Kevin Morrissey,
 NMSS/FCSE/FMB
 301-415-0260



Acute Chemical Exposures (Dermal and Ocular)

Top 03-05-2015, Bottom 06-04-2015

2015												2016												2017												2018												2019											
Jan	Feb	Marc	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Marc	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Marc	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Marc	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Marc	April	May	June	July	Aug	Sept	Oct	Nov	Dec
Issue Draft ISG												Issue ISG																																															
Issue Draft ISG												Issue ISG																																															

Key Information	<ul style="list-style-type: none"> The draft ISG was published in the <i>Federal Register</i> (80 FR 11692; March 4, 2015). The public comment period was originally scheduled to close on May 18, 2015. The NRC extended the public comment period to July 1, 2015, on this action to allow members of the public to review the additional information on backfitting before submitting any comments. The ISG will discuss the criteria staff will apply when reviewing the ISA chemical safety analysis and proposed quantitative standards used to demonstrate compliance with 10 CFR 70.61 and 70.65(b)(7).
Related Documents	<ul style="list-style-type: none"> Federal Register Notices (80 FR 11692; March 4, 2015 and 80 FR 21274; April 17, 2015) OGC Response to NEI regarding the backfitting concerns (ML15126A070)
Meeting Information	<ul style="list-style-type: none"> None Scheduled.

Contact:
Marilyn Diaz,
NMSS/FCSE/FMB
301-415-7110



Soluble Uranium

Top 03-05-2015, Bottom 06-04-2015

2015												2016												2017												2018												2019											
Jan	Febr	Marc	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Febr	Marc	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Febr	Marc	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Febr	Marc	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Febr	Marc	April	May	June	July	Aug	Sept	Oct	Nov	Dec
ACRS Issue ISG																																																											
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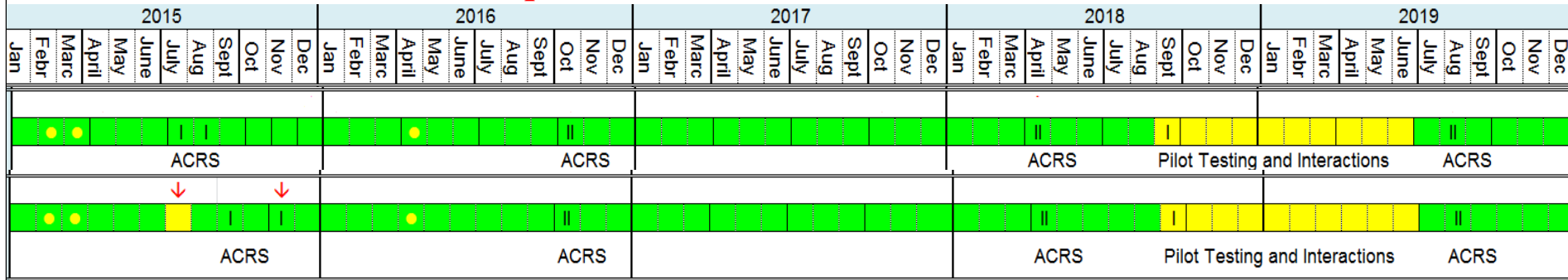
Key Information	<ul style="list-style-type: none"> • NRC is finalizing an Interim Staff Guidance (ISG) document on acute exposure to soluble uranium for compliance with 70.65(b)(7). • The draft ISG on acute uranium exposure standards was published for public comment in the Federal Register, (FRN Vol. 79, September 17, 2014, pg. 55834). • Staff expects to publish the final ISG on June 2015.
Meeting Information	<ul style="list-style-type: none"> • None Scheduled.

Contact:
 Christopher Ryder,
 NMSS/FCSE/FMB
 301-415-8729



Revised Fuel Cycle Oversight Process (RFCOP)

Top 03-05-2015, Bottom 06-04-2015



<p>Key Information</p>	<ul style="list-style-type: none"> More transparent and risk informed process taking advantage of 15 years of implementing integrated safety analyses. Right-size core inspection w/focus on risk significant systems, structures and, and components.
<p>Meeting Information</p>	<ul style="list-style-type: none"> June 11, 2015, Public meeting to discuss cornerstone development. Cornerstone basis document public comment period closes in mid July 2015. September 2015, Planned meeting with ACRS Sub-Committee to discuss draft cornerstones. November 2015, Planned meeting with ACRS Full-Committee to discuss draft cornerstones. Spring 2016, Begin discussing proposed Qualitative SDP with external stakeholders. Fall 2016, Planned briefings of ACRS Sub-committee and Full-committee on Qualitative SDP. Fall 2016, Begin engaging stakeholders on the action matrix thresholds. Fall 2016, Begin engaging external stakeholders on how the cross-cutting issues are proposed to be incorporated into the RFCOP. Fall 2018, Planned briefings of ACRS Sub-committee and Full-committee on proposed Pilot Program. Fall 2018 – February 2019, conduct Pilot Program. Summer 2019, Planned briefings of ACRS Sub-Committee and Full-committee on Pilot Program results. Fall 2019, Communicate to industry plan and schedule to implement RFCOP. Fall 2019, Implement RFCOP.

Contact:
 DyLanne Duvigneaud,
 NMSS/FCSE/PORSB
 301-415-4010
 (Rotation)



Material Control and Accounting Regulatory Guides

Top 03-05-2015, Bottom 06-04-2015

2015												2016												2017												2018												2019											
Jan	Feb	Marc	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Marc	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Marc	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Marc	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Marc	April	May	June	July	Aug	Sept	Oct	Nov	Dec
60 day comment for 8 RGs												Eight RGs issued seperately																																															
60 day comment for 8 RGs												Eight RGs issued seperately																																															

Key Information

- 27 MC&A guidance documents are consolidated into 8 documents.
- DG 5049 - [Independent Assessment](#) of Nuclear Material Control and Accounting Systems. Out for public comment [7/5/2015](#).
- DG-5056 - Material Control and Accounting Physical Inventories and Material Balances. Out for public comment [8/15/2015](#).
- DG-5051 - Shipping, Receiving, and Internal Transfer of Special Nuclear Material. Out for public comment [8/30/2015](#).
- DG-5052 - Determination of Uranium or Plutonium: Methods based on the Analysis of Samples. Out for public comment in [October/November](#) 2015.
- DG-5053 - Determination of Uranium or Plutonium: Nondestructive Assay Methods. Out for public comment in [October/November](#) 2015.
- DG-5054 - Design Considerations to Minimize Residual Holdup of Special Nuclear Material in Process Equipment. Out for public comment in [October/November](#) 2015.
- DG-5055 - Statistical Concepts for Material Control and Accounting. Tentative - four statistics related regulatory guides may be deleted.
- DG-5050 - Selection of Material Balance Areas and Item Control Areas. Delayed until 2016 pending Part 74 rulemaking.

Meeting Information

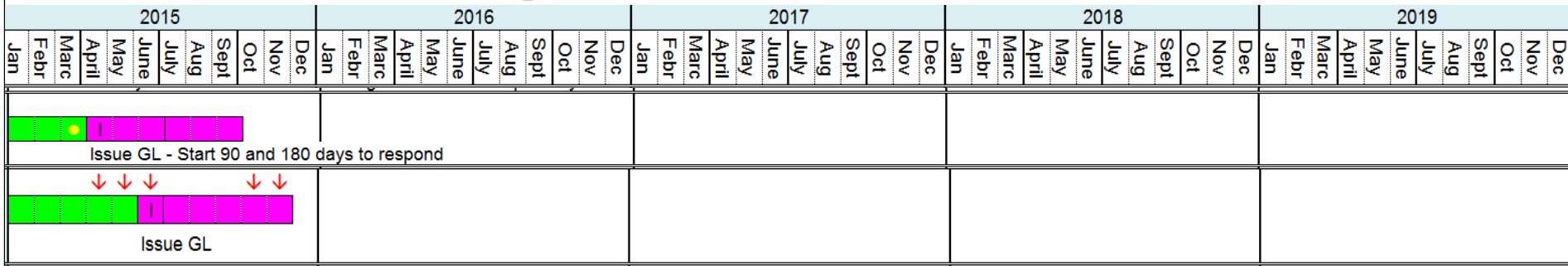
- [July](#) 2015 – DG-5049; 60 day comment period.
- [August-September](#) 2015 – DG-5056; 60 day comment period.
- [August-September](#) 2015 – DG-5051; 60 day comment period.
- [October-December](#) 2015 – DG-5052, DG-5053, and DG-5054; 60 day comment period.

Contact:
Glenn Tuttle,
NMSS/FCSE/MCAB
301-415-7230



Natural Phenomena Hazards (Generic Letter)

Top 03-05-2015, Bottom 06-04-2015



Key Information	<ul style="list-style-type: none"> The Generic Letter will serve as the basis to close Unresolved Items (URIs) from post-Fukushima Temporary Instruction 2600/15 regarding the natural phenomena events accident sequence and how licensees are in compliance with regulatory requirements. The NRC staff awaits for Commission direction with regards to the issuance of the Generic Letter.
Meeting Information	<ul style="list-style-type: none"> No upcoming meetings.

Contact:
Jonathan Marcano,
NMSS/FCSE/PORSB
301-415-6731



ISG Natural Phenomena Hazards Generic Letter

Top 03-05-2015, Bottom 06-04-2015

2015												2016												2017												2018												2019											
Jan	Febr	Marc	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Febr	Marc	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Febr	Marc	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Febr	Marc	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Febr	Marc	April	May	June	July	Aug	Sept	Oct	Nov	Dec
 Draft ISG Final ISG																																																											

- No changes
- No upcoming meetings

Contact:

Jonathan Marcano,
 NMSS/FCSE/PORSEB
 301-415-6731



FCIX

Top 03-05-2015, Bottom 06-04-2015

2015												2016												2017												2018												2019											
Jan	Febr	Marc	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Febr	Marc	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Febr	Marc	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Febr	Marc	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Febr	Marc	April	May	June	July	Aug	Sept	Oct	Nov	Dec
FCIX Meeting												FCIX Meeting												FCIX Meeting												FCIX Meeting																							

- FCIX 2016

Contact:
 Soly I. Soto,
 NMSS/FCSE/FMB
 301-415-0597



Next Quarterly Meeting

- **Conference call on September 2015**
- **Bridge information will be made available before the meeting**

Summary

- **Main Integrated Schedule and Supplement**
- **CER Public website:**

<http://www.nrc.gov/materials/fuel-cycle-fac/regs-guides-comm.html#cumeffects>
- **Next Quarterly Meeting in September 2015**

Basic Component

- System, Structure, or Component in which a defect or failure to comply *could* create a substantial safety hazard

Basic Component

- IROFS failure or defect does not necessarily create a substantial safety hazard
- **TRUE!**
- Basic component is a SSC whose failure *could* create a SSH

Substantial Safety Hazard

- Major reduction in the degree of protection provided to the public health and safety
 - Moderate exposure to, or release of, licensed material.
 - Major degradation of essential safety-related equipment.
 - Major deficiencies involving design, construction, inspection, test or use of licensed facilities or material.
 - To the extent that failures to comply or defects in a security system can contribute to a substantial safety hazard, such failures and defects are within the scope of Part 21.

Substantial Safety Hazard

Moderate Exposure

- Exposure in excess of 25 rem whole body and exposure to an individual in an unrestricted area of 0.5 rem

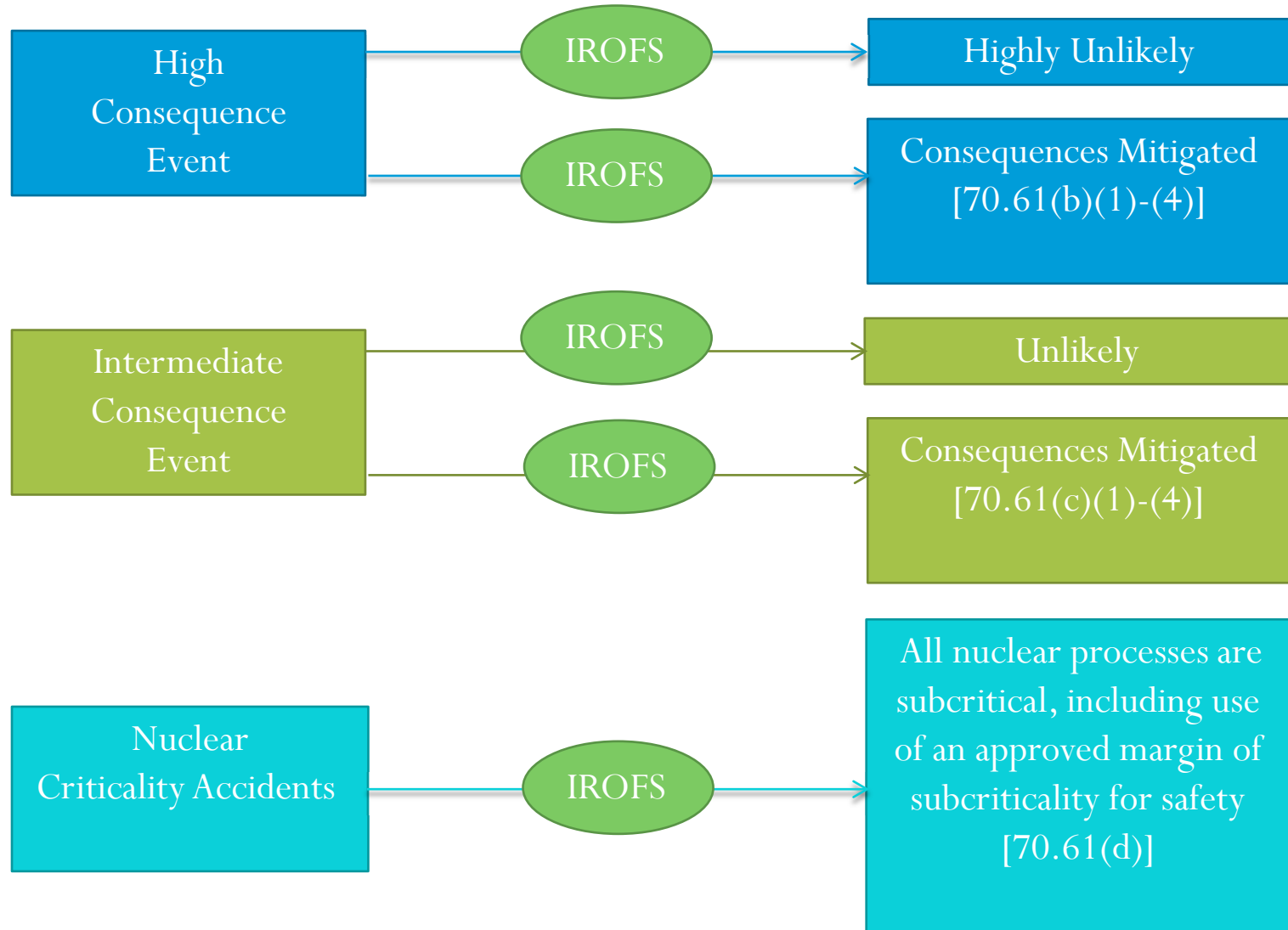
Major Degradation

- Loss of redundancy if, in conjunction with a single failure, a required safety function could not be performed

Major Deficiency

- Condition or circumstance which, under normal operating conditions or anticipated transients, could: contribute to exceeding a safety limit or cause an accident, or in the event of an accident due to other causes could, considering an independent single failure, result in a loss of safety function necessary to mitigate the consequences of the accident

IROFS



Basic Component

- Defect in an IROFS or failure of an IROFS does not mean that there is an actual consequence – it means that the risk of a consequence is increased (higher likelihood or reduced mitigation)
- **TRUE!**
- Defect in an IROFS means that it may not perform its safety function
- Failure frequency assumed in ISA is compromised

Commercial Grade Dedication

- DG-1292
- Endorse EPRI guidance for reactors
- Revision 1 will address fuel facilities
 - Plan to identify that implementation of existing management measures programs satisfies dedication process requirements for Subpart H facilities
 - Appendix B facilities will be expected to implement a more rigorous dedication program that aligns with their QA requirements

Notifications

- Part 70
 - Failed or degraded IROFS such that performance requirements are not met
- Part 21
 - Defect in an IROFS that could cause major reduction in protection to public health and safety (substantial safety hazard)
- If issue has been reported under Part 70 requirements, it does not have to be reported separately under Part 21 – just note applicability of Part 21 in report and include relevant information