



**ANS** Meetings

**IT'S GO TIME**

*Creating Momentum Toward  
Transformational Change*

# Regulatory Security Initiatives

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# NRC Security Initiatives

- Target Set Development
- Security Bounding Time/Reasonable Assurance of Protection Time
- Evaluation of New/Emerging Technologies

# NRC Security Initiatives: Target Set Development

- A target set is a minimum combination of equipment, or operator actions, which, if prevented from performing their intended safety function or prevented from being accomplished, would likely result in radiological sabotage.
- Reassessing current approach to developing and identifying target sets based on operating experience while applying risk informing concepts and reasonable assurance methodology.
  - Crediting additional operator actions
  - Calculation of adversary timelines
  - Revision of Regulatory Guide 5.81, “Target Set Identification and Development for Nuclear Power Reactors”

# NRC Security Initiatives: Security Bounding Time/Reasonable Assurance of Protection Time

- Risk-informed, holistic approach to assessing an operating power reactor licensee's ability to counter a design basis threat attack by taking into account operator actions, the use of Diverse and Flexible Mitigation Capability (FLEX) equipment and law enforcement response
  - Recognizes the existing layers of protection available to sites along with how the safety and security of the site would evolve over time following initiation of an attack
  - Will allow licensees to refine protective strategies to focus on the most risk-significant target sets while continuing to maintain physical protection of the site
- Commission paper with commitment to update RG 5.76, "Physical Protection Programs at Nuclear Power Reactors," to incorporate Reasonable Assurance of Protection Time concept; voting options for Security Bounding Time

# NRC Security Initiatives: Evaluation of New/Emerging Technologies

- Conducting timely assessments to enable the use of technology where appropriate in security programs
  - Remote Operated Weapons Systems (ROWS)
  - Unmanned Aerial Systems (UAS)
  - Vulnerability assessment (VA) modeling software
  - Firearms Training Simulators (FATS)



| Requirement                       | Non-firearms-based FATS | Firearms-based FATS | Firearms with live ammunition |
|-----------------------------------|-------------------------|---------------------|-------------------------------|
| Use of force                      | ✓                       | ✓                   | ✓                             |
| Familiarization                   | ✓                       | ✓                   | ✓                             |
| Other firearms & weapons training | ✓                       | ✓                   | ✓                             |
| Range activity                    | ✗                       | ✓                   | ✓                             |
| Qualification                     | ✗                       | ✗                   | ✓                             |