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# PROTECTING AMERICA'S FUTURE

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Y-12 National Security Complex**



# Mission

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- Safeguards and Security protects
  - special nuclear material (SNM)
  - classified matter
  - personnel
  - DOE property
- Program includes
  - Nuclear Materials Control and Accountability (NMC&A)
  - Security
    - Physical
    - Personnel
- Layered protection concept

# Safeguards and Security responsibilities

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- BWXT Y-12
  - Overall program responsibility for Safeguards and Security since November 2000
- Wackenhut Services, Inc.-Oak Ridge
  - Protective Force services
  - Technical surveillance countermeasures (TSCM)
  - Human Reliability Program (HRP)
  - Clearance processing

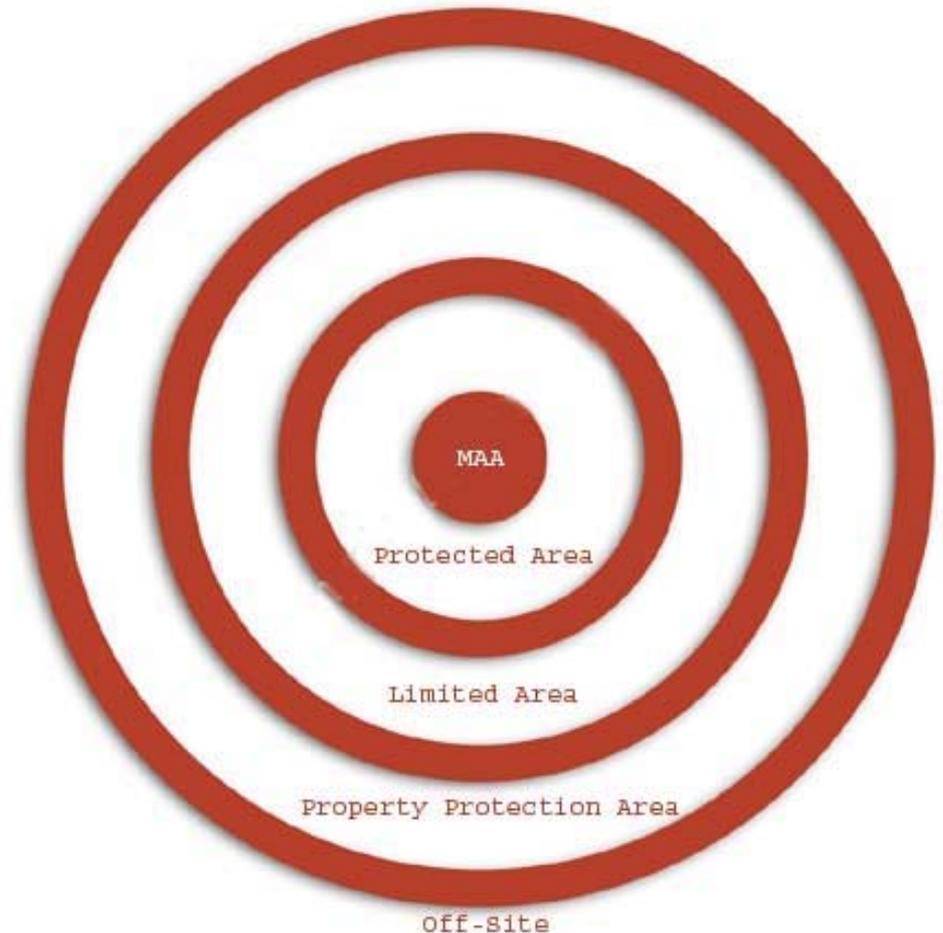
# Safeguards and Security



- Protected area encompasses 150 acres
  - 2.5 miles of PIDAS fencing
- 4 material access areas (MAAs) 60 material balance areas (MBAs)
- Reduced footprint through modernization

# Security 101

- Concentric circles of security concept
  - layered
  - balanced
- Assets requiring greatest protection located in the center

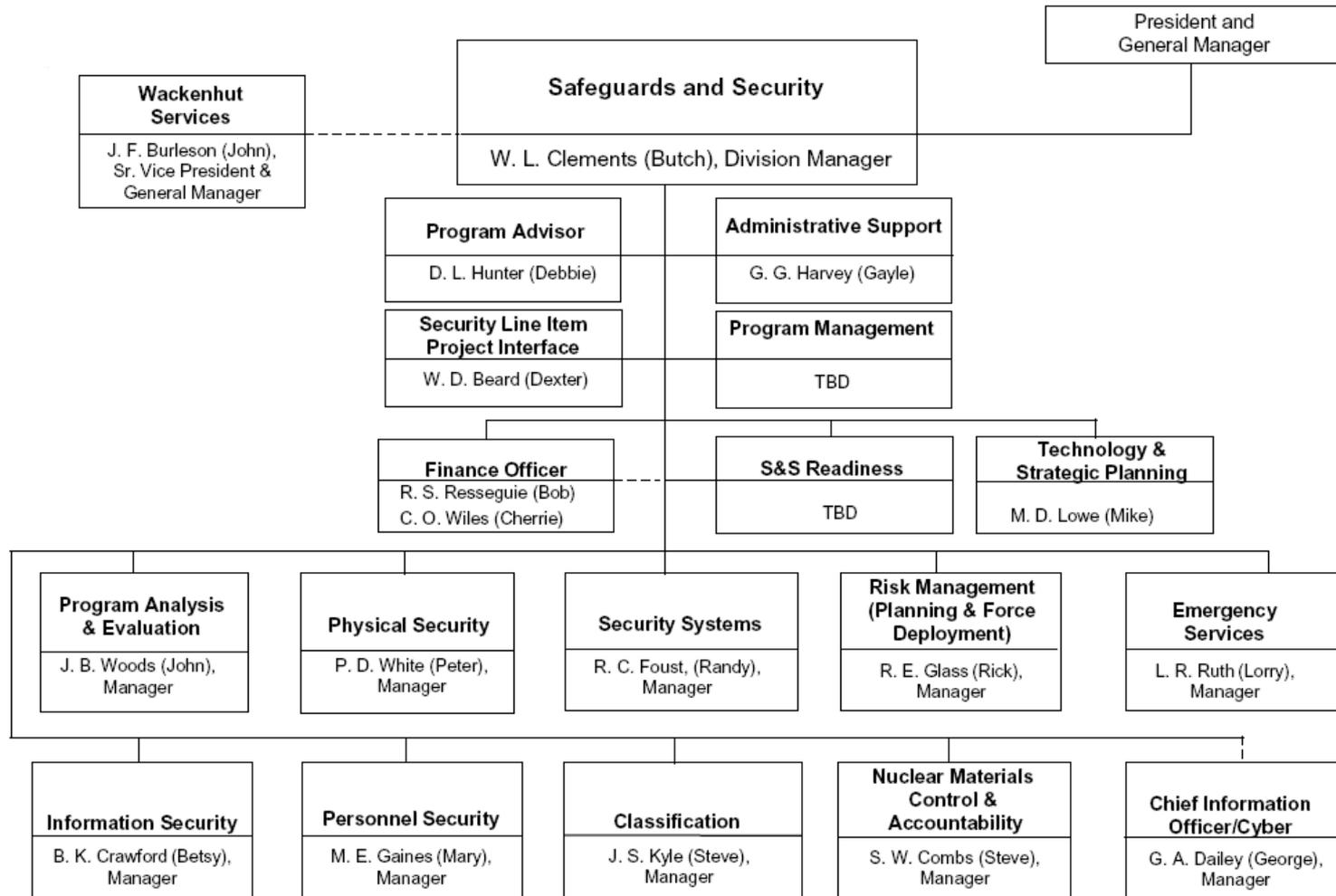


# Y-12 secures most HEU

- Majority of DOE's highly enriched uranium stored at Y-12



# Safeguards and Security division



# Program Management

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- Prepare and annually update protection strategies
- Perform vulnerability assessments
- Interpret DOE directives for operational application and provide field guidance

# Personnel Security

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- Implement a fully developed program for the issuance and maintenance of access authorizations
- Ensure implementation of procedures by which individual security clearances are requested
- Provide support for authorized visitors (visitor control)
- Manage the Foreign National Visits and Assignments program

# Security awareness

- Develop annual security refresher training
- Maintain employees' security awareness through various means:
  - *Safeguards and Security Sentinel*
  - security topics on the intranet
  - awareness campaigns
  - Security Interface Committee



# Information Security

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- Ensure adequate protection and control of classified and unclassified sensitive information
- Maintain the following program elements:
  - Classified Matter Protection and Control (CMPC)
  - TSCM
  - Classification and Technical Information Office (TIO)
  - Operations Security (OPSEC)

# Nuclear Materials Control and Accountability

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- Maintain control and accountability for nuclear materials
- Deter and detect theft and diversion of nuclear material against external and internal adversaries
- Consider NMC&A requirements, systems, and technologies in the planning, design, construction, and operation of new or renovated facilities

# Physical Security

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- Provide physical barriers to control, deny, impede, or delay unauthorized access
- Apply protective measures in a graded manner to support the protection strategy
- Interpret DOE directives and provide field guidance
- Provide oversight and approval of all facility-specific security plans

# Security Systems

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- Ensure Y-12's security systems effectively detect adversaries
- Achieve compliance with applicable DOE directives
- Manage the life cycle, scheduled testing, and corrective and preventive maintenance of security systems to ensure effectiveness and operability

# Performance Testing

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- Validate the Protective Forces used to protect Category I and II SNM and/or secret matter
- Evaluate Protective Force response, investigation, neutralization timing, knowledge, and decisions
- Perform limited-scope performance tests as well as force-on-force and other exercises
- Analyze simulations and Protective Force upgrades
- Test and validate protective systems

# We value innovation

- ACREM destruction
- Technology deployment



# We encourage process improvement

- New blood chemistry machines return HRP medical results quicker
- All security upgrade projects on schedule and on or under budget



# We deploy state-of-the-art technology

- Weapons Detection and Response System
- Remote Operated Weapons System
- Sniper detection
- Vehicle detection



# Emerging issues in information protection

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- Accountability of classified parts
- Operation of vault-type rooms
- Search procedures for the property protection area (PPA)
- Escort responsibilities