



U.S. DEPARTMENT OF **ENERGY**

Consolidated Protective Force Services Contract *Site Briefing*

Presented by

DOE-Oak Ridge Office – Pauline Douglas

NNSA Y-12 Site Office – Donat St. Pierre



May 17, 2012

Welcome

**Department of Energy Oak Ridge
Office & NNSA Y-12 National Security Complex
Protective Force Procurement
Site Tours and One-on-One Meetings**

Oak Ridge - Agenda

May 17, 2012

- **Registration** **0730 hrs**
- **General Information/Ground Rules** **0800 hrs**
 - Catherine Waters, NNSA Contracting Officer
- **Site Tour Briefing Presenters** **0805 hrs**
 - DOE-OR Site - Ms. Pauline Douglas, AMSEM
 - NNSA Site – Mr. Donat St. Pierre , AMSS
- **Break** **0845 hrs**
- **DOE/NNSA Oak Ridge Site Tours** **0900 hrs**
- **Lunch** **1230 hrs**
- **One-on-one meetings** **1400 hrs**

General Information and Ground Rules

- **Site Briefing**
- **Presentation of Information**
- **Question and Answer Session**
- **Facility Safety Briefing**
- **Restrooms**
- **Vending Machines/Water Fountain**

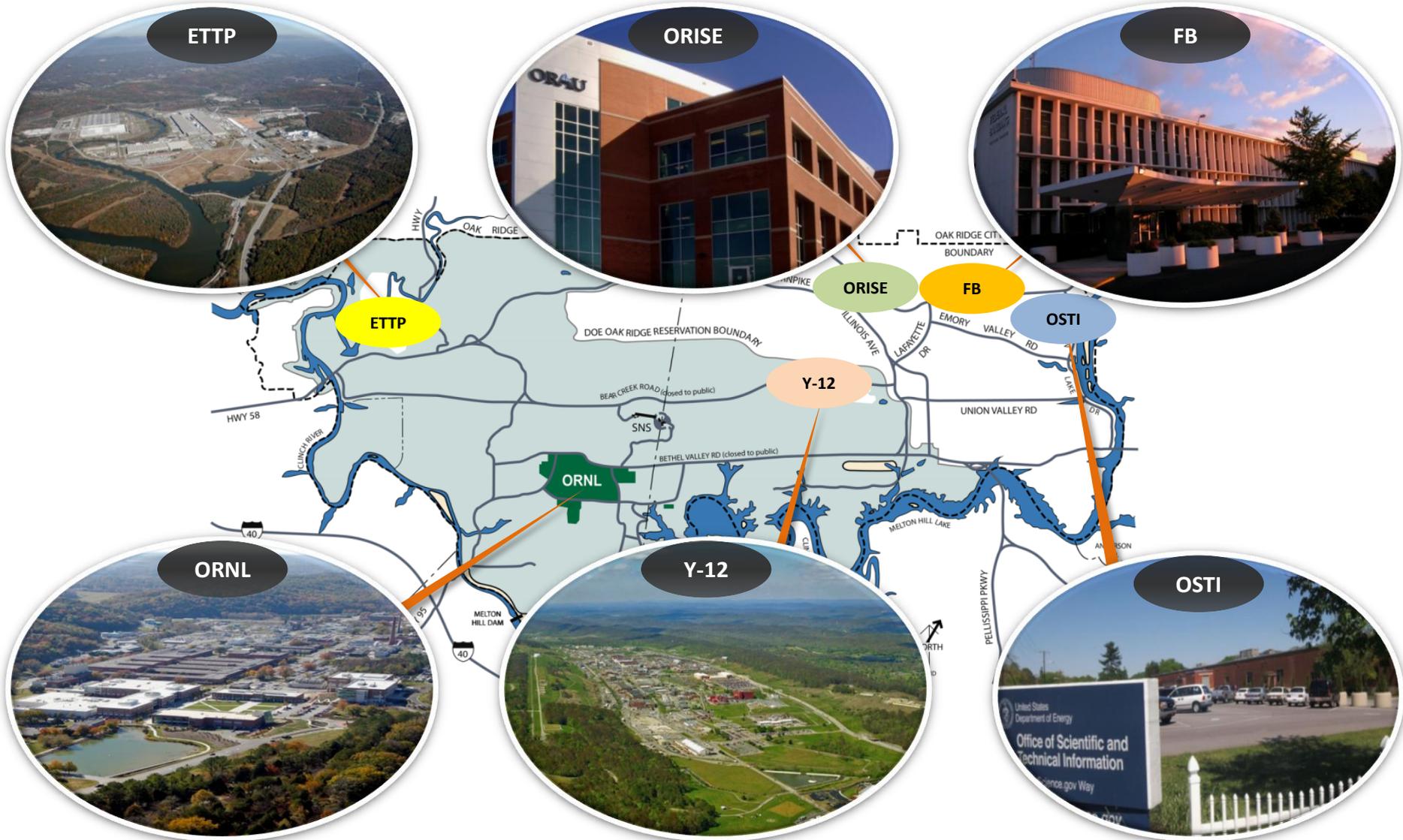
One-on-One Meetings

- **One-on-one meetings:**
 - will begin promptly at 2:00p.m.
 - will be held in Room 240 located to the left as you exit the auditorium.
 - will only be held with attendees who pre-registered at our website prior to May 4th.
 - timeframes can be reconfirmed with Krystal Maestas, Contract Specialist, at the break.

SEB Members

- **SEB Chairperson – Mr. Steve Wanzer, NNSA NA-70**
- **SEB Team Members**
 - Ms. Roxanne Steward, NNSA Production Office (Pantex)
 - Mr. Dan Reeves, NNSA Production Office (Y-12)
 - Mr. Mark Ott, DOE Oak Ridge Office (DOE-OR)
 - Ms. Catherine Waters, NNSA Contracting Officer

The Oak Ridge Reservation is DOE's Most Diverse



Key DOE-ORO Missions

- **Science & Technology**
- **Science Education**
- **Environmental Cleanup**
- **Energy & Nuclear Fuel Supply**
- **National Security**
- **Reindustrialization**
- **Technology Transfer & Economic Development**



DOE-OR Protective Force

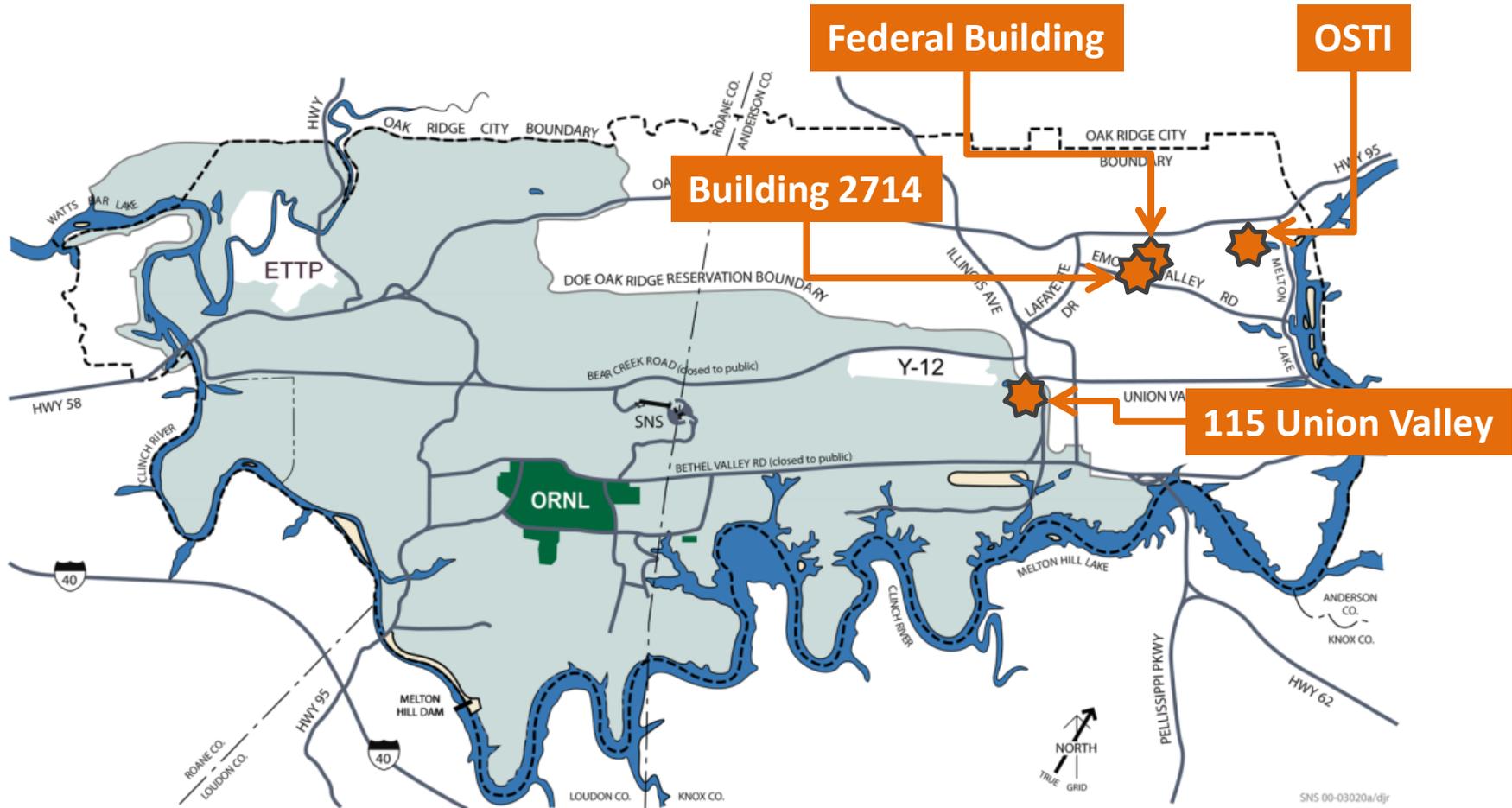
- **DOE-OR Protective Force (PF) is a separate prime contract to DOE**
- **Program Offices supported by DOE-OR PF**
 - DOE Office of Science (SC)
 - DOE Office of Environmental Management (EM)
 - DOE Office of Nuclear Energy (NE)
 - NNSA Office of Secure Transportation (NA-15)
- **Protective Services Oversight is provided by the Office of Security and Emergency Management**
- **DOE-OR facilities range from Category 1 to SPL4**
- **Security footprint decreasing as missions are completed**

DOE-OR Protective Force(Cont)

- **DOE-OR Protective Force is represented by two separate unions, and three separate locals**
 - International Guards Union of America (IGUA)
 - Oak Ridge National Laboratory (ORNL) PF
 - Federal Building Complex PF
 - Central Alarm Station Operators (DOE-OR and Y-12)
 - International Union Security, Police and Fire Professionals of America (SPFPA)
 - East Tennessee Technology Park (ETTP) PF



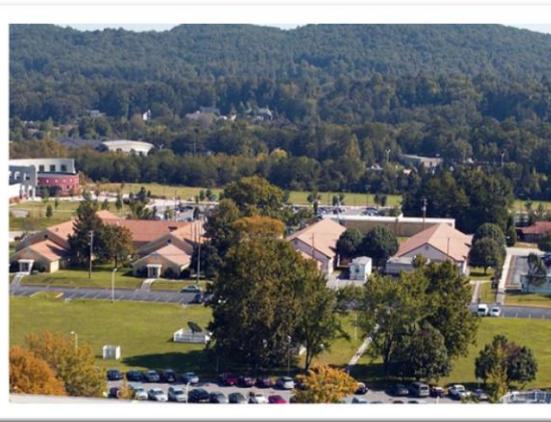
Federal Building Complex



Federal Building Complex Facilities



Federal Office Building



2714 Complex



115 Union Valley Rd



Building 1916-T2



OSTI

Secure Transportation Center

- Managed by the NNSA Office of Secure Transportation (OST)
- OST Eastern Command Headquarters
- Access is controlled by a manned portal



Oak Ridge National Laboratory



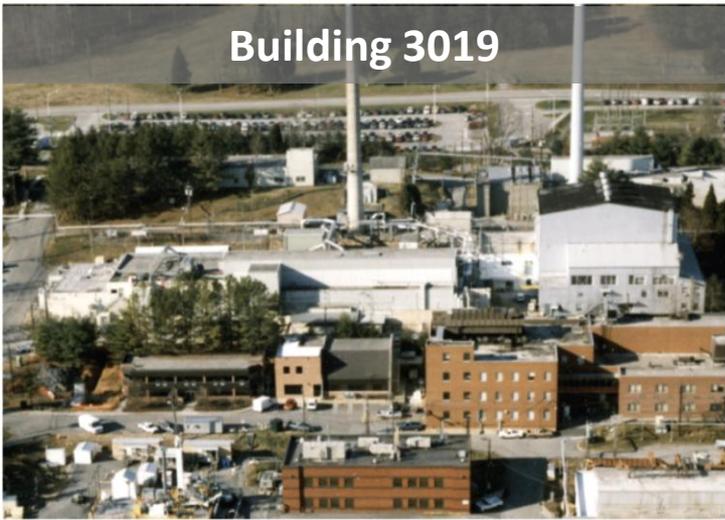
ORNL Security

- **3 Prime Contractors – Tri-Party Agreement**
 - UT-Battelle - ORNL
 - WSI-OR - PF
 - Isotek – Building 3019
- **7,500 Employees**
- **36,000 Visitors per year**
- **8,000 Foreign National Visitors per year**
- **1,900 Classified Visits per year**
- **37,000 Vehicles enter the site per week**



ORNL Areas of Security Interest

Building 3019



High Flux Isotope Reactor (HFIR)



Multiprogram Research Facility



Science & Technology Park



EAST TENNESSEE TECHNOLOGY PARK



ETTP Current Status

Facilities demolished

246

Waste removed

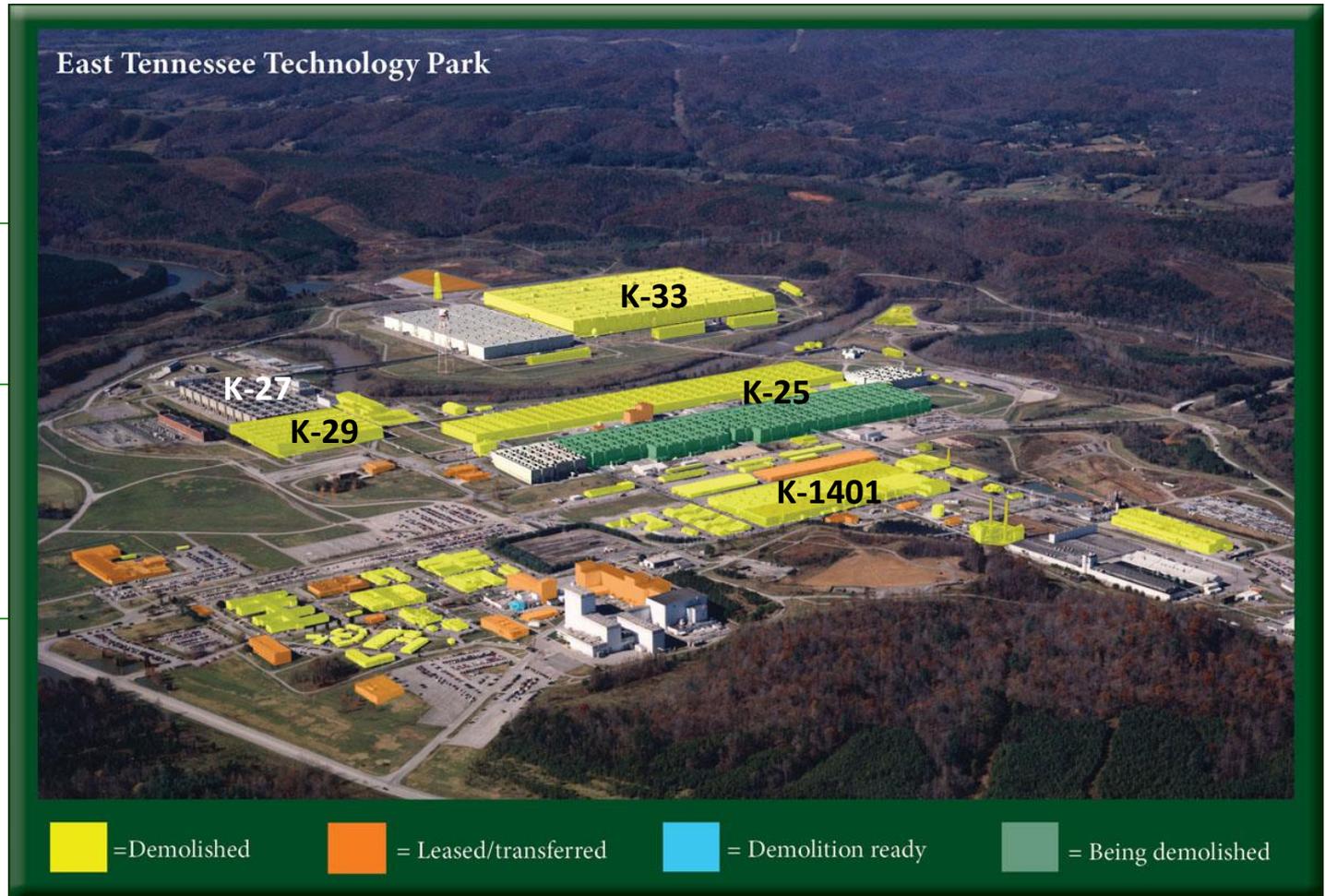
1.6 million yd³

UF₆ cylinders removed

7,000

Area cleared for unrestricted use

1,400 acres



ETTP Security Interests

- **Building K-25 (Category III-C)**

- East End – expected completion – FY2013
- TC-99 Area
- North End

- **Building K-27 (Category III-E)**

- Currently in static mode
- Conducting surveillance/maintenance
- Beginning characterization of process system to build waste profiles for decontamination and decommissioning

- **Burials Grounds**

- K-1070 C, D – static mode
- K-1070B

- **Limited Areas (In Static Mode)**

- K-1037
- K-1210/1220
- K-1065
- As D&D efforts are completed security requirements will be reduced.

- **USEC**



Environmental Management Waste Management Facility (EMWMF) Operations



- Operated by UCOR
- Reduced transportation risks – Haul Road
- Contains classified interests and special nuclear material
- Has 134 different waste lots
- 21 “clean” fill sources
- Over 1 million yd³ of waste and fill placed
- Greatly reduced environmental impacts at DOE-ORO
- Active Cell 5 recently opened
- Cell 6 due to open by FY2013

Welcome to the Y-12, National Security Complex & Central Training Facility

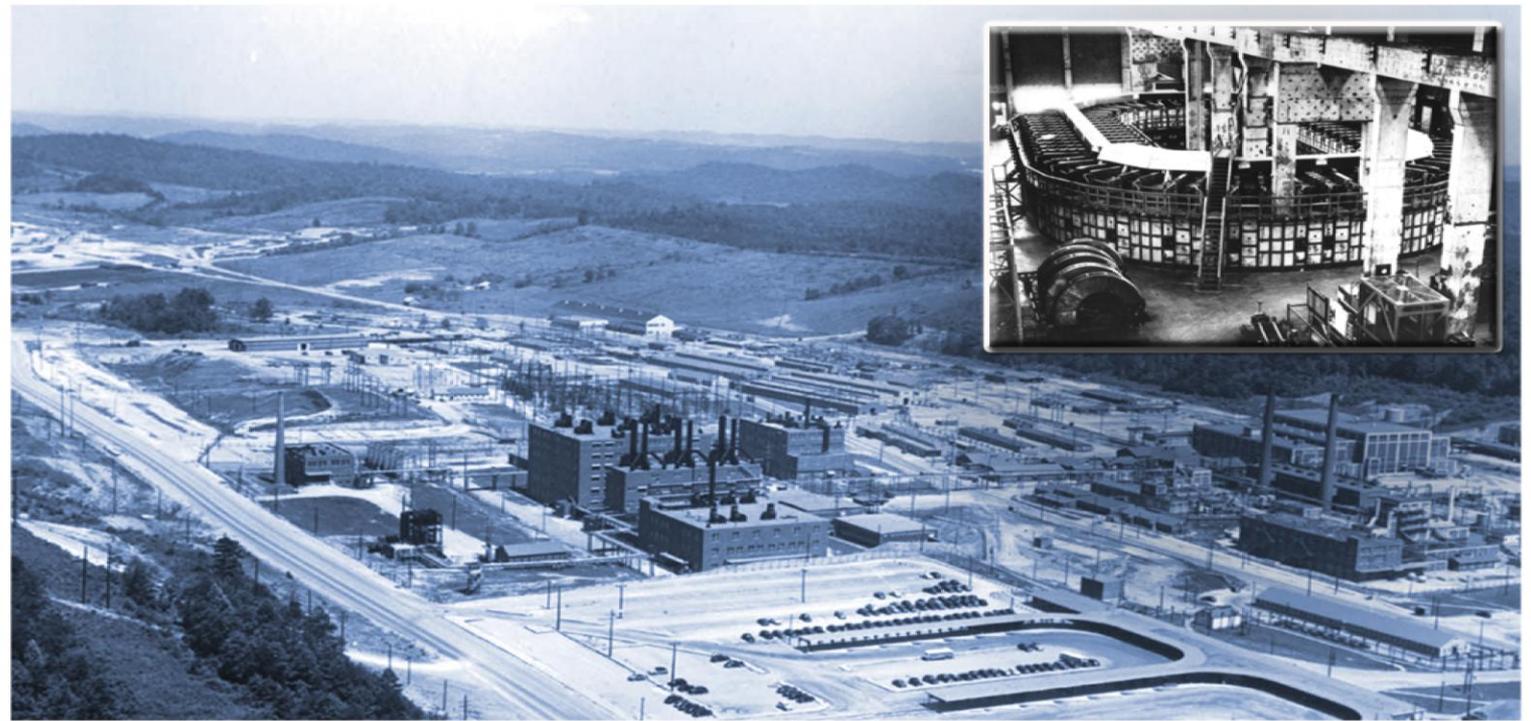
- **Donat St. Pierre**
- **Assistant Manager for Safeguards and Security**

Y-12 National Security Complex



Historical Perspective

- Created in 1943 as part of the Manhattan Project
- Provided the enriched uranium for “Little Boy,” the atomic bomb used to end WWII to help America and her allies stop a war that had taken 63 million lives worldwide.



Y-12—A Modern Marvel for Its Time

\$480 million + 1,152 calutrons + ~4 million sq. ft. of floor space + 22,000 workers = 50 kg of U²³⁵



Y-12 Through the Decades

- 1950s move to thermonuclear weapons
- 1960s and 70s Cold War construction surge
- 1980s and 90s process and utility upgrades
- 1990 – 1995 Cold War ends; U. S. moratorium on underground nuclear testing



Today's Missions at Y-12 NSC

- Sustain a safe, secure and effective nuclear arsenal
- Supply the U.S. nuclear Navy
- Prevent nuclear proliferation and nuclear terrorism
- Solve global security challenges



Sustain a Safe, Secure and Effective Nuclear Arsenal

- Chemical processing
- Casting
- Rolling and forming
- Machining
- Component manufacturing
- Testing, evaluation and quality assurance
- Disassembly, dismantlement and disposition
- Packing and storage



Supply the U.S. Nuclear Navy

- **Y-12 is the only supplier of highly enriched uranium**
 - Navy's current annual requirement is more than 3.7 Metric Tons of Uranium
 - MOA between Defense Programs and Naval Reactors requires HEU through 2050



Prevent Nuclear Proliferation and Nuclear Terrorism

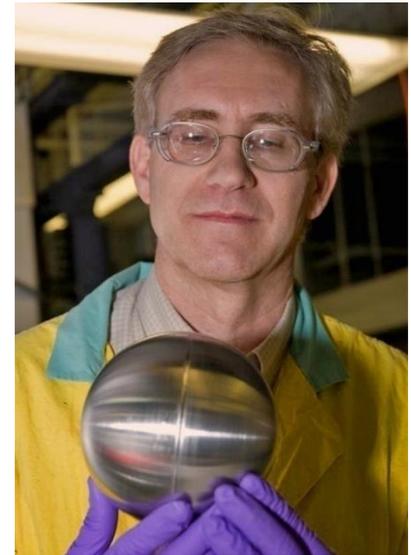
- Convert and supply uranium for peaceful uses
- Secure and recover nuclear materials globally
- Detect uranium and the proliferation of weapons of mass destruction



Rolling Mill



Training Exercise



Radiological Signature Training Device

Solve Global Security Challenges



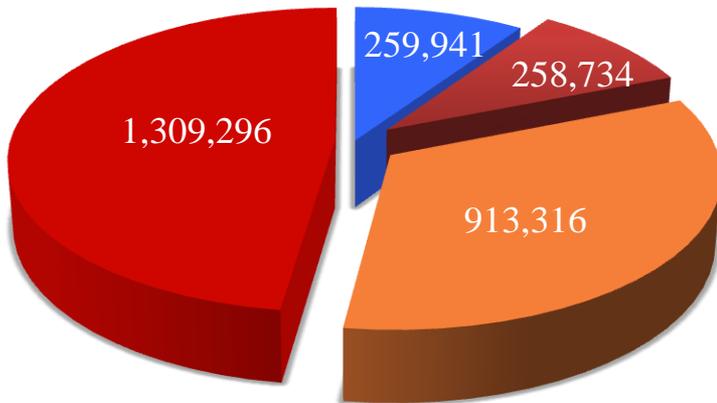
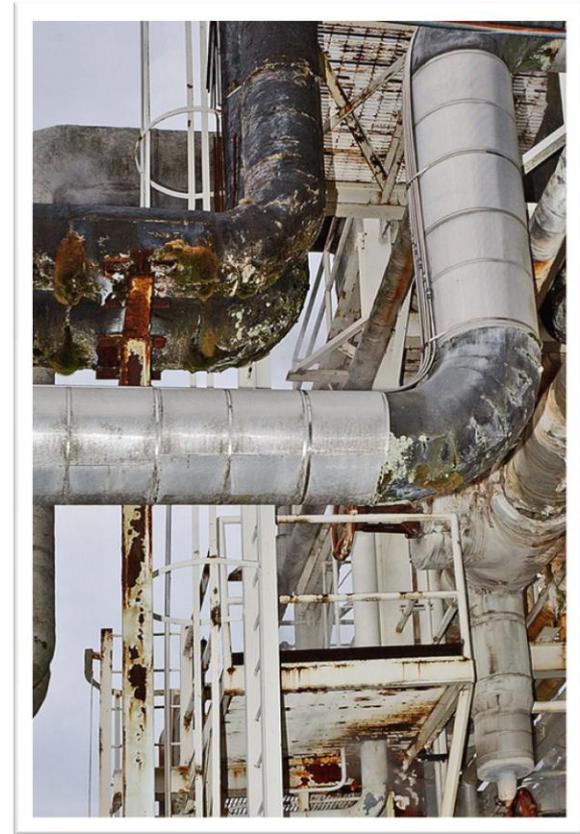
- Nuclear technology and materials
- Manufacturing and technical services
- Physical and radiological protection

Current Projects at Y-12

- Infrastructure Line Items/projects
 - Nuclear Facilities Risk Reduction
 - Security Improvement Project
 - Production Microwave
- 50+ General Plant Project/Equipment
 - Roofing
 - Demolitions
 - Deferred Maintenance reduction
- Uranium Processing Facility



Why Transformation of Y-12?



- 0-39 YEARS
- 40-49 YEARS
- 50-59 YEARS
- 60-65 YEARS

VALUES IN FT²

Transform the Site: Completed Facilities

*Highly Enriched Uranium
Materials Facility*

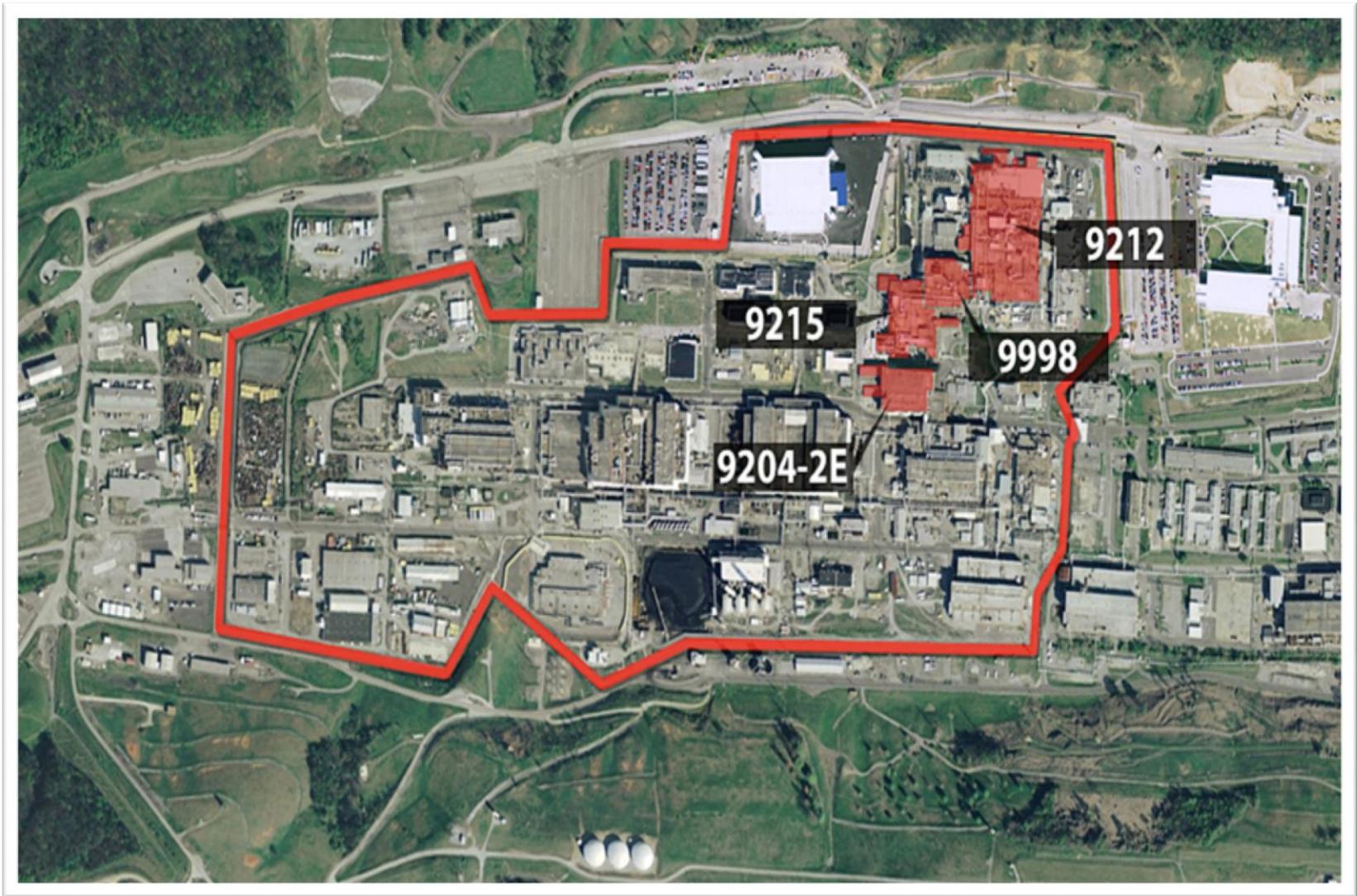


New Hope Center

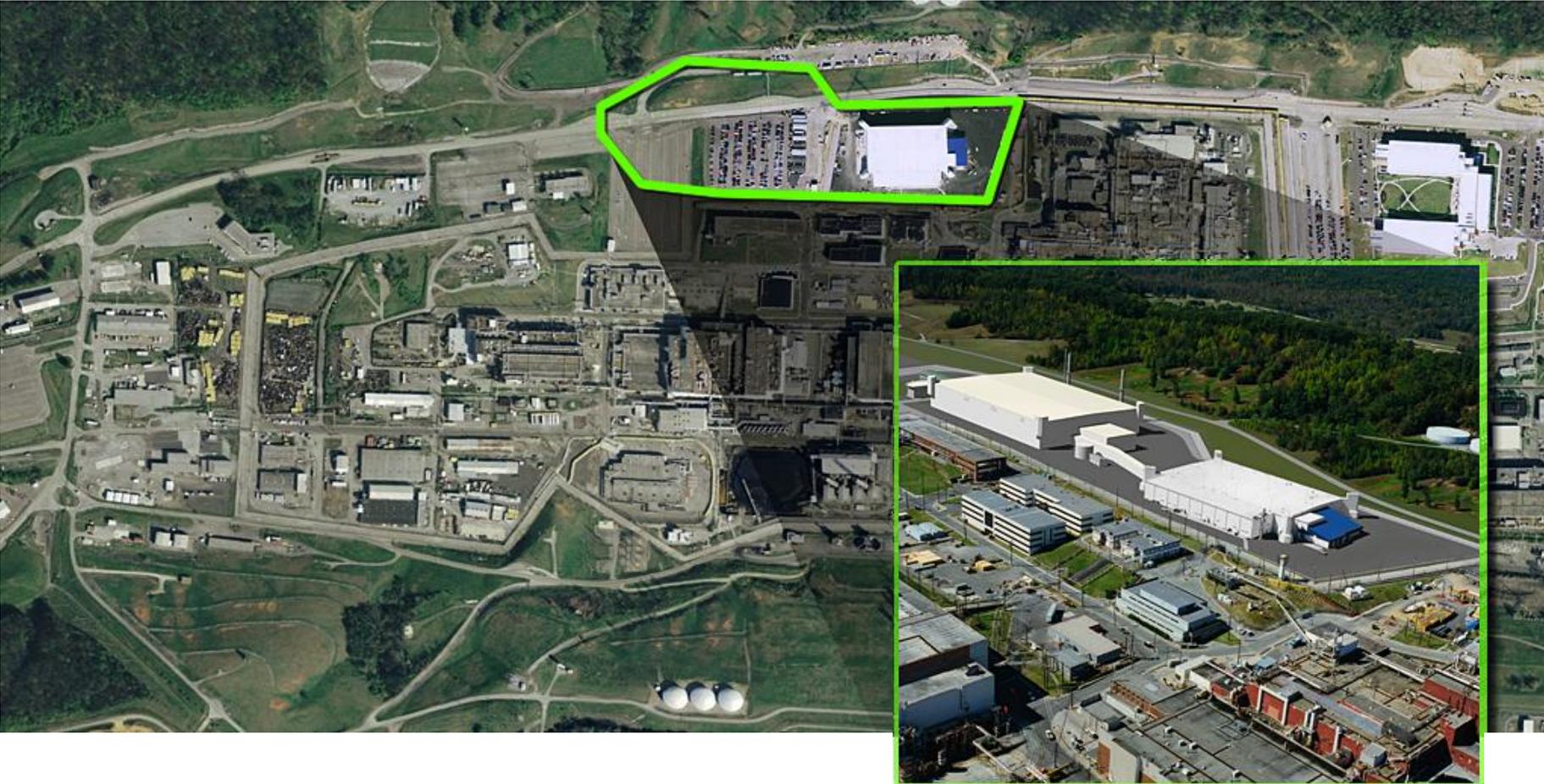


Jack Case Center

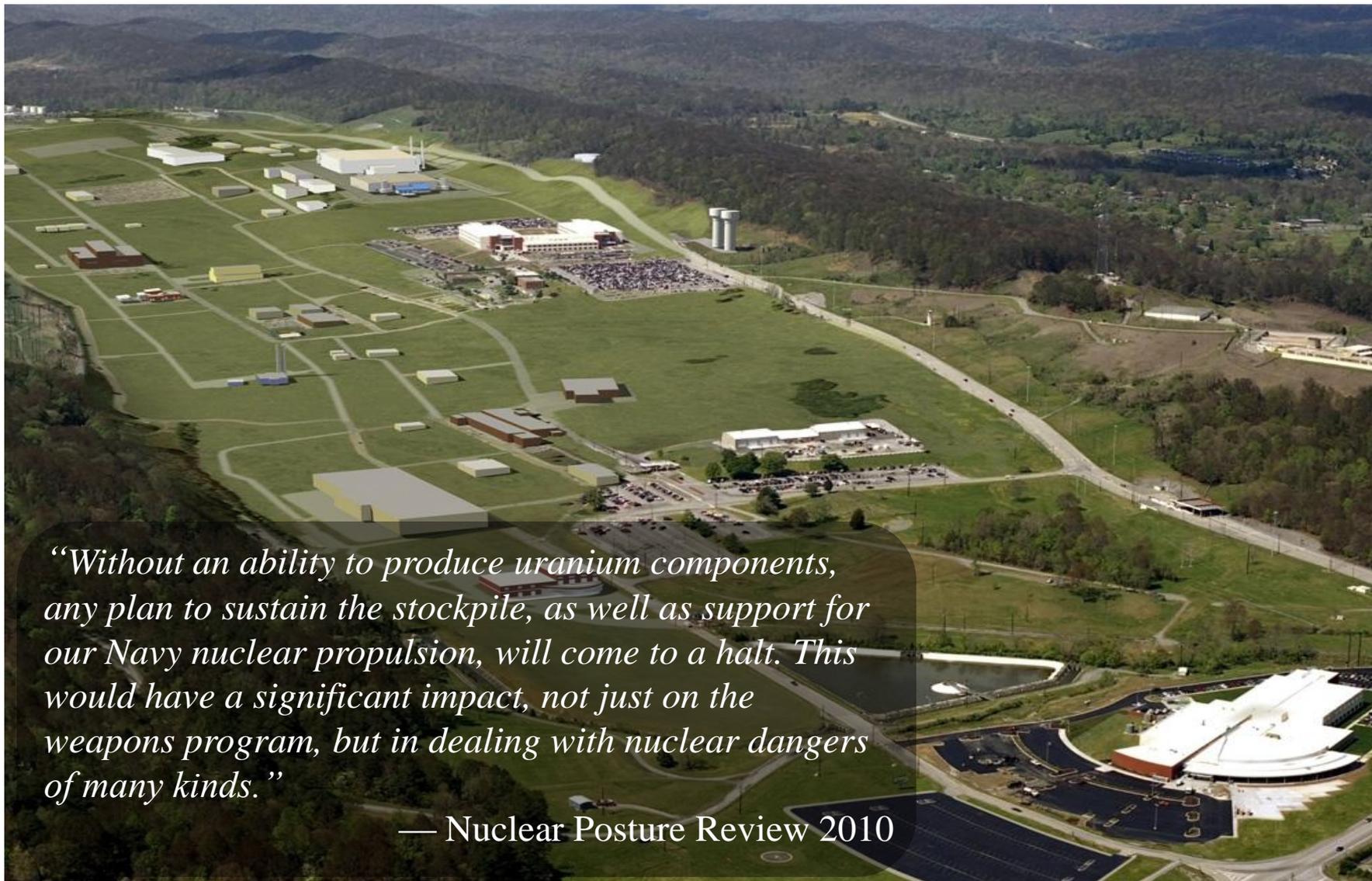
Reducing the Security Footprint



Future Protected Area



Y-12 Transformation – Vital to Future



“Without an ability to produce uranium components, any plan to sustain the stockpile, as well as support for our Navy nuclear propulsion, will come to a halt. This would have a significant impact, not just on the weapons program, but in dealing with nuclear dangers of many kinds.”

— Nuclear Posture Review 2010

Central Training Facility

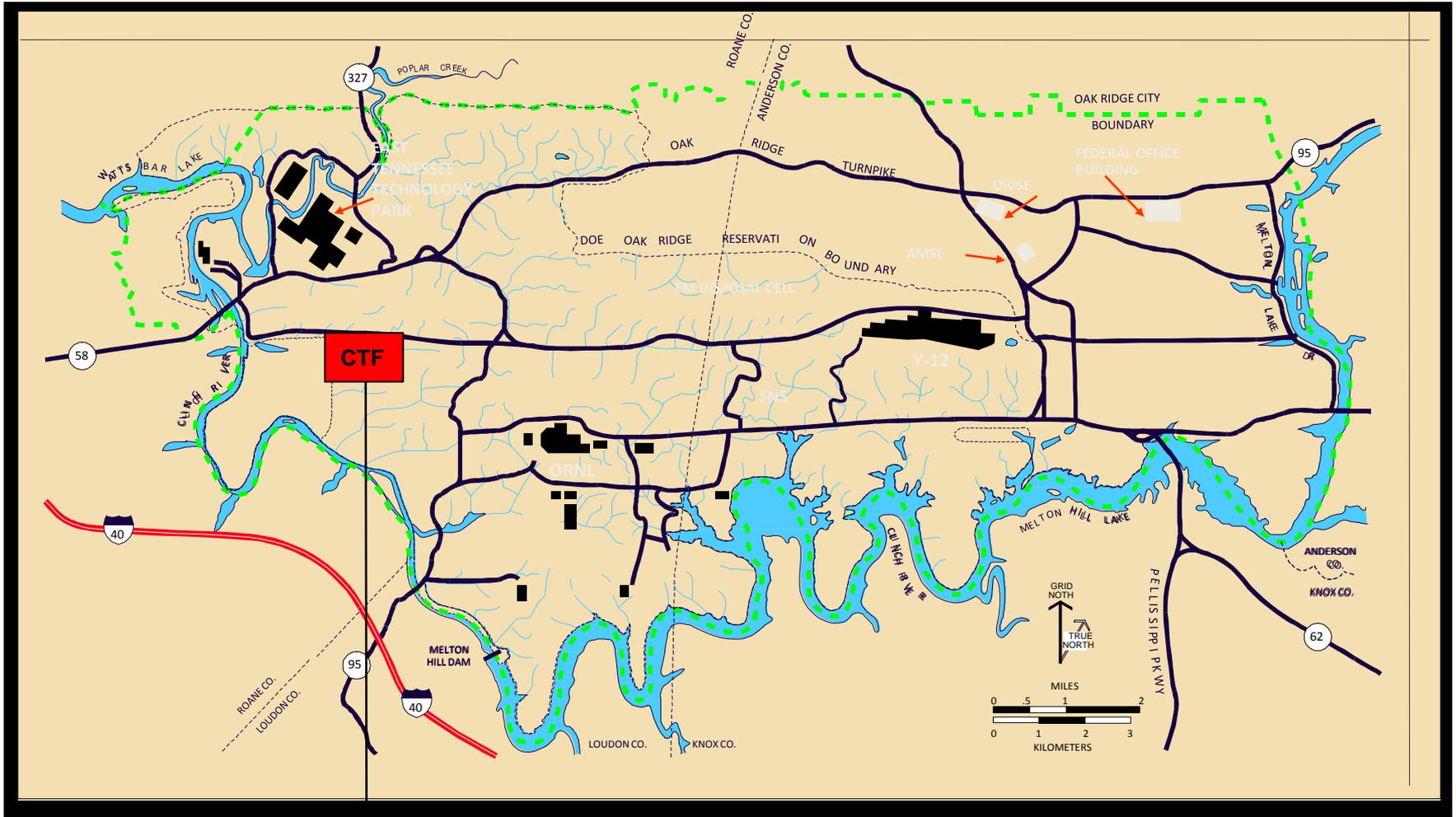


DOE/NNSA Partnership

- DOE-Oak Ridge retains land ownership of the CTF.
- NNSA provides the facilities and administers operations through contract management by providing oversight through the Y-12 Site Office.



CTF Location

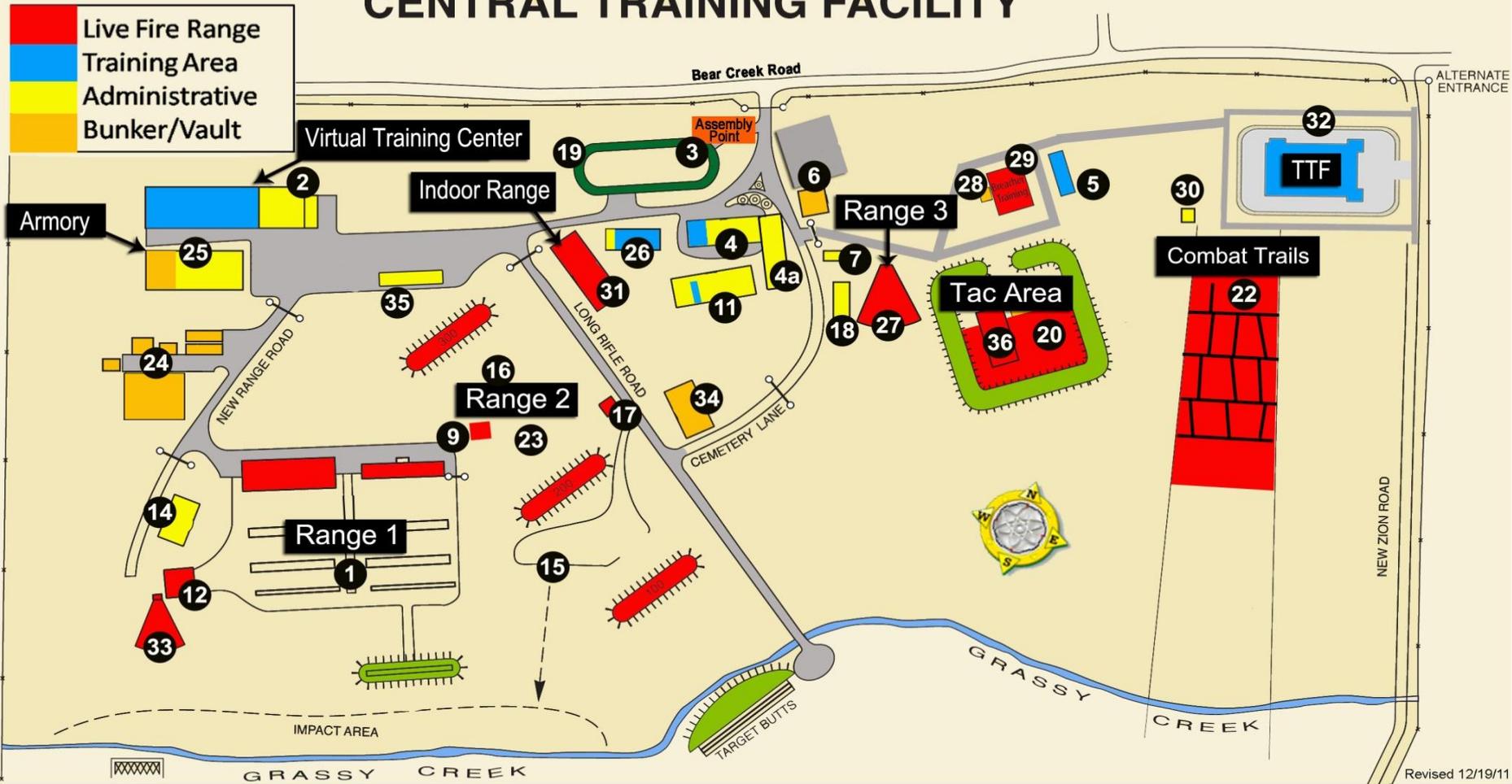


Central Training Facility

The mission of the CTF is to develop and conduct DOE Standardized firearms, basic, and in-service training for DOE/NNSA Protective Forces. Training conducted at the CTF provides Protective Force personnel with the knowledge and skills necessary to perform various security tasks that meet DOE requirements, orders, and standards criteria.



CENTRAL TRAINING FACILITY



- | | | | |
|--|---|---|---|
| <ul style="list-style-type: none"> ① Live Fire Range #1 ② K-1654-A Virtual Training Center ③ CTF Assembly Point ④ K-1654-D Range Office, Classroom 1 and 2, Staff Offices ④a K-1654-DD Annex ⑤ K-1654-EE Tactical Training Classroom 5 ⑥ E.S.S. Storage Magazine ⑦ K-1654-G Shed Storage (Green Maintenance Bldg.) ⑨ Dillon Tower | <ul style="list-style-type: none"> ⑪ K-1654-LL Computerlab, Resource Library, Staff Offices ⑫ K-1654-N Storage Shed ⑭ K-1654-T Storage Conex ⑮ Armored Vehicle/Dillon Machine Gun Range ⑯ Live Fire Range #2 ⑰ Live Fire Range #2 Observation/Shooting Tower ⑱ K-1654-R Maintenance Building ⑲ 1/8 Mile Track ⑳ Live Fire Tactical Stress Course | <ul style="list-style-type: none"> ㉒ Combat Trail ㉓ Helicopter Landing Zone ㉔ Ammunition Magazines ㉕ K-1654-CC Armory, Student Lunchroom, Weapons Cleaning Area ㉖ K-1654-BB Classroom 3 and 4 ㉗ Live Fire Range #3 ㉘ Tactical Storage Magazine ㉙ Breaching Area | <ul style="list-style-type: none"> ㉚ Tactical Trail Storage Magazine ㉛ K-1654-AA 20 Point Indoor Firearms Facility, Classroom 6 ㉜ K-1654-FF Tactical Training Facility ㉝ S.A.A.T.F ㉞ K-1654-Z Ammunition Storage Bunker ㉟ K-1654 U Remote Operated Weapons ㊱ Live Fire Shoot House ⊙ Flag Poles |
|--|---|---|---|

Revised 12/19/11

Site Certified/Approved Courses

- **Basic Security Police Officer Training**
- **Security Police Officer III Basic Course**
- **Basic Tactical Entry**
- **Basic Instructor Training**
- **Security Police Officer Refresher Training**
 - Compliance
 - Mission Essential Task List
 - Job Task Analysis
 - Supervised On-The-Job Training



Overview of Range Capabilities



- 20 point Indoor Range
- Live-Fire Shoot House
- Tactical Training Facility
- 3 Outdoor Ranges
- Virtual Reality Training Center
- 5 Classrooms for Instruction

Current Weapons Systems



M249 Squad Automatic Weapon 5.56mm



Bushmaster M4 5.56mm with EOTech Holographic Sight



M240B Medium Machine Gun 7.62mm



M134D Dillon Aero Mini-gun 7.62mm



M67 Fragmentation Grenade



Remington 870 12 gauge Breaching Shotgun



M-4 w/M203



Sig Sauer P226 9mm

Windshield Site Tour

- **Prohibited & Controlled Articles**
- You may take notes, but you may not take photographs, video, or any other electronic recordings during the windshield tour. Cell phones, PDAs, two way radios must be left in your private vehicles. If anyone has an electronic recording or communications device, please take it to your car for safe-keeping.



Windshield Tour

Next:

- Bathroom Break (15 minutes)
- Load up in bus out front
- Start Windshield Tour

