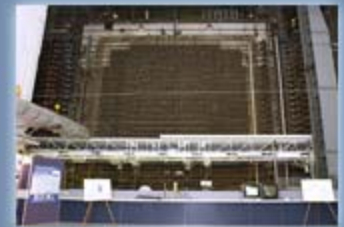


B Reactor and Beyond:

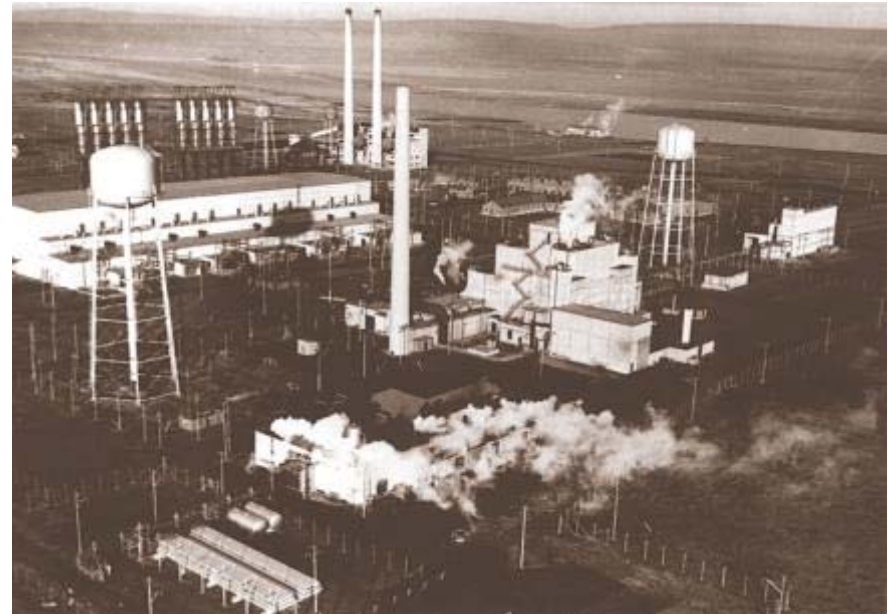
How DOE and the Tri Cities Community are Working to Redefine Hanford's Post-Cleanup Future

Colleen French
*DOE Richland Operations Office
Government Programs Manager*



Hanford

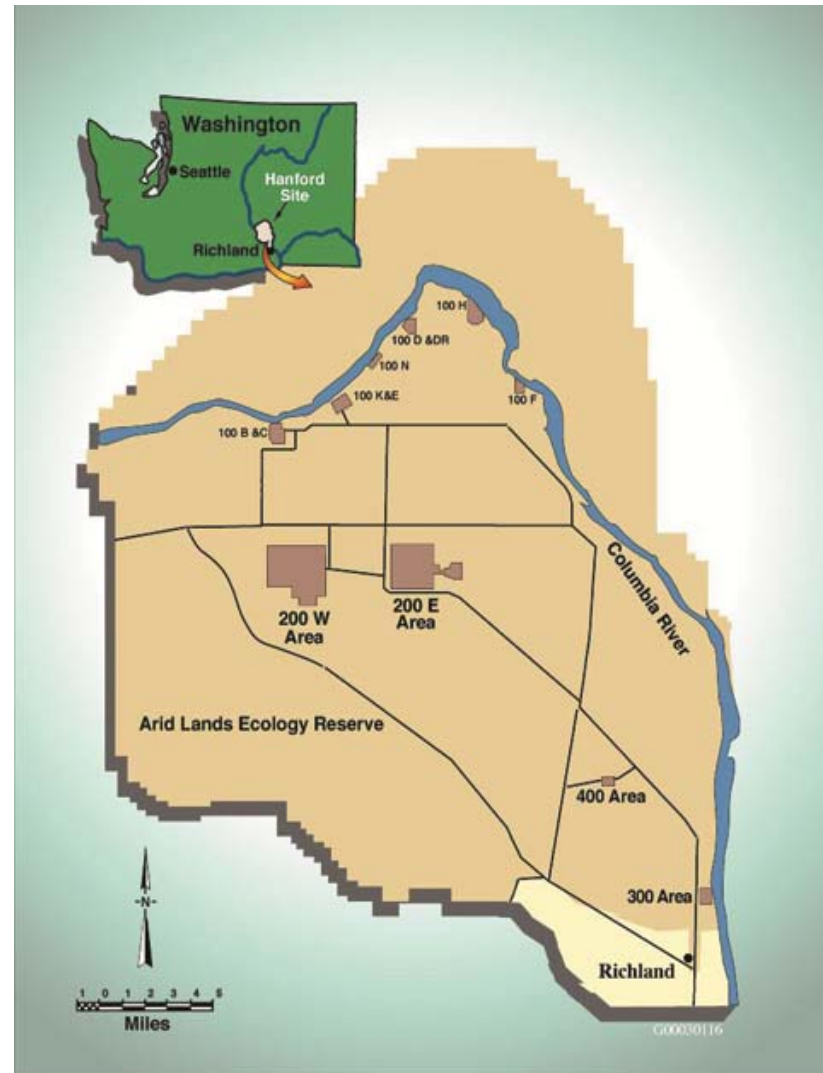
- Hanford was created in 1943 as part of the top secret Manhattan Project
- 586 square miles
- Production of plutonium increased during Cold War (peaking between 1959-1965)
- Hanford produced 2/3 of the nation's plutonium between 1945-1985
- Home to the first full-scale nuclear production reactor — the B Reactor, now a National Historic Landmark



B Reactor Complex during operations (1940s-1960s)

The Hanford Site

- Fuel fabrication and irradiation in nuclear reactors along the Columbia River
- Chemical separations in canyon facilities to dissolve fuel and extract plutonium in the Central Plateau
- Liquid and solid wastes disposed of in Central Plateau
- Eventually, 9 reactors were built and Hanford operated for defense production through 1988



Hanford Cleanup Overview

Two Department of Energy Offices

Office of River Protection

- Tank Waste

Richland Operations Office

- River Corridor
- Central Plateau



Cleanup Work

- Treat contaminated groundwater
- Demolish facilities
- Move buried waste, contaminated soil away from Columbia River
- Isolate contamination from environment on Central Plateau
- Treat underground tank waste

Workforce

- 8,500 total Department of Energy and contractor employees



HANFORD SITE CLEANUP BY THE NUMBERS

SIX of Hanford's nine reactors have been "cocooned"



TWO more reactors will be cocooned in the coming years



100 percent of the site's spent fuel has been moved to dry storage



743 buildings have been demolished



859

waste sites have been remediated



12K

cubic meters of underground waste have been removed



49K

visitors have toured the B Reactor National Historic Landmark

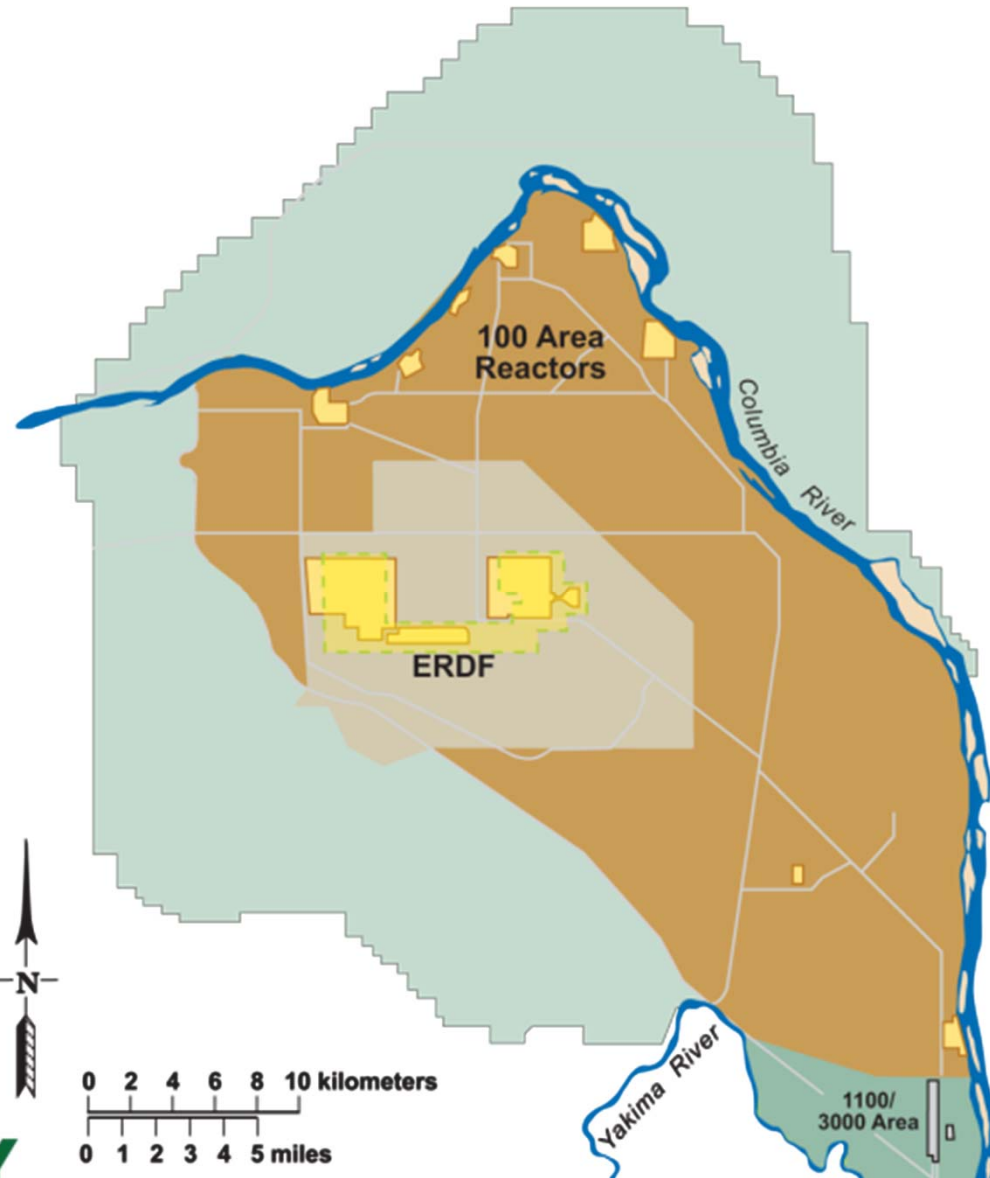


10

billion gallons of contaminated groundwater have been treated



What are Hanford's "Assets"?



Hanford Site Post 2015 Cleanup Vision for Access and Use

Controlled Access to Some of the Cleaned-up River Shoreline

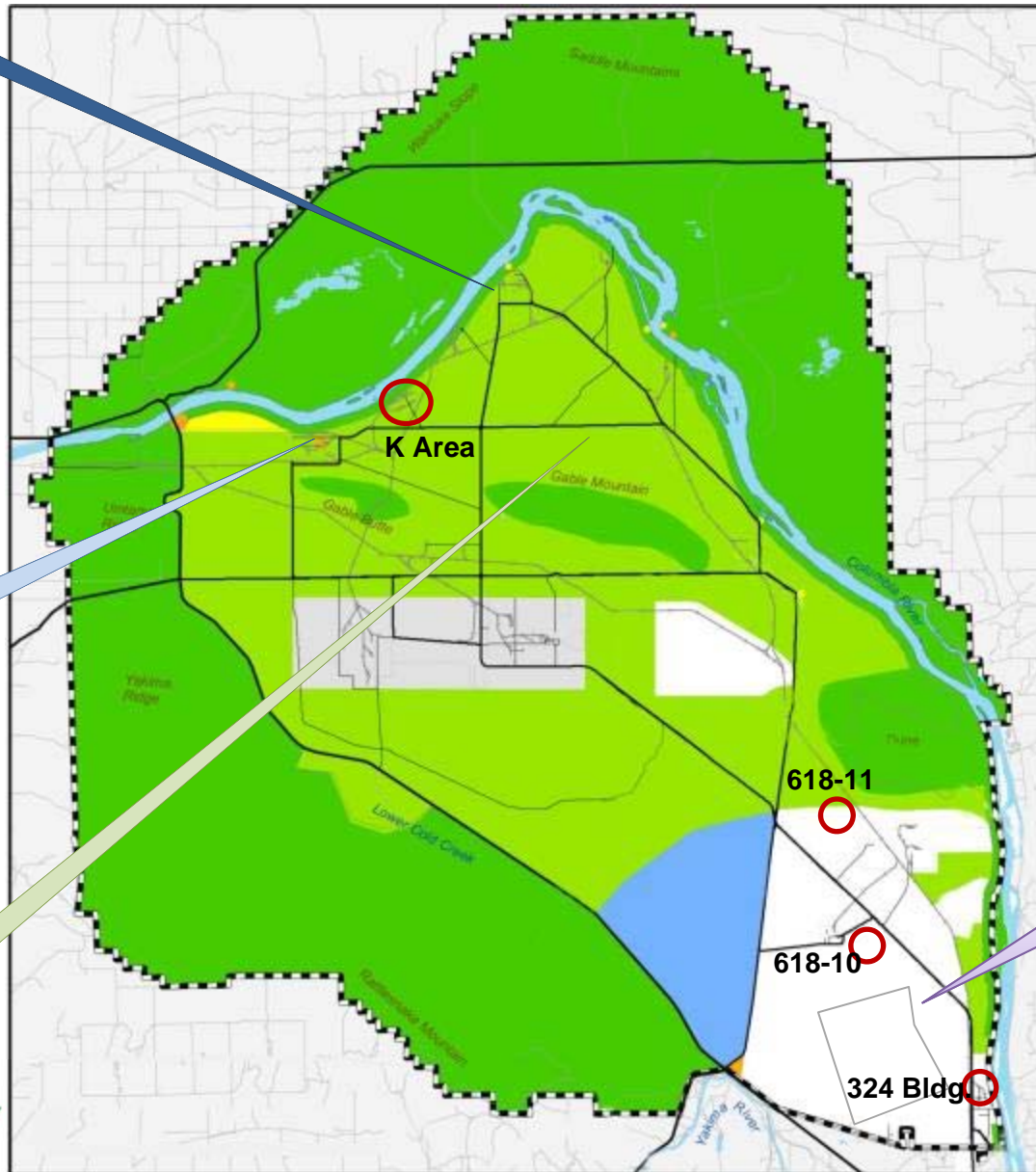
1. Phase in controlled access so the public can enjoy the area for the first time since the 1940s
2. Several cleanup areas will remain

Heritage Tourism

1. Provide broadest possible public access to B Reactor and the Pre-Manhattan Project facilities
2. Continue to reduce restrictions on site access (e.g. age limits) to encourage more visitors to historic sites
3. Support passage of the proposed Manhattan Project National Historical Park

Tribal Cultural Use

Increase Tribal use of the River Corridor for religious and cultural activities of their choosing



Natural Resource Preservation

- Conserve Hanford's unique ecological and biological resources
- Work with U.S. Fish and Wildlife and stakeholders to evaluate whether additional Hanford land should be added to the Hanford Reach National Monument in the future

Use Industrial Lands to Transition the Economy and Create Jobs

- About 60 square miles available
- 1,641 acres being evaluated for conveyance to the community
- Work with the Community Reuse Organization to evaluate opportunities to lease land for suitable projects

Use Industrial Lands to Transition the Economy and Create Jobs

- About 60 square miles zoned industrial
- Includes land still being cleaned up, as well as buffer zone lands
- Currently working on an Environmental Assessment in support of community's request for 1,641 acres of buffer zone land for development
- Also working with TRIDEC and a developer on solar project on cleaned-up 300 Area land
 - Potential to utilize some existing infrastructure (cost avoidance to DOE if we don't have to demolish)
 - Ability to connect to BPA grid is attractive



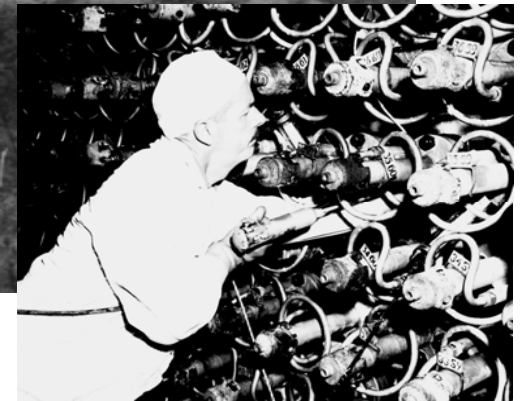
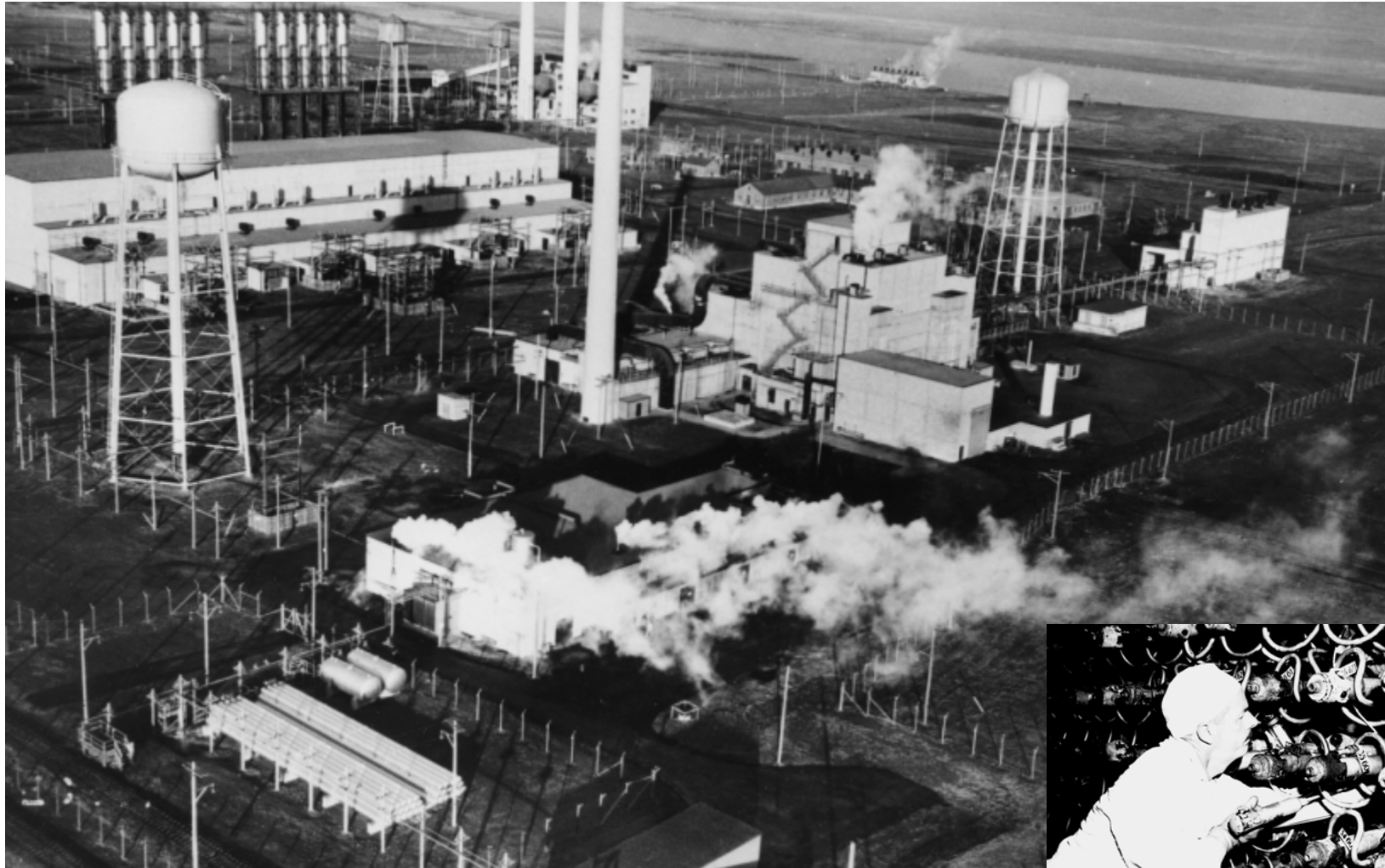
Cleanup of the 300 Area will enable beneficial reuse

Controlled Public Access

- DOE is kicking off an Area Management Plan for the Hanford River Corridor
 - Will enable controlled public access and increased Tribal use of cleaned up lands
- Goal is to recognize the unique character of the land and provide ongoing protections, while phasing in expanded in controlled access over time
 - Safety and accountability requirements will remain



B Reactor



B Reactor's Path to Preservation

- Strong support for preservation from B Reactor Museum Association, local elected officials, community leaders
- DOE reluctant to demolish
- 2008 National Historic Landmark designation was the transformational opportunity



B Reactor Preservation Project Est. 2008

- Mission: preservation and long term public access
- All work undertaken in partnership with Washington State Historic Preservation Office and the National Park Service to ensure the facility's historic integrity is respected
- 2011 Chairman's Award for Historic Preservation from President's Advisory Council on Historic Preservation



B Reactor Public Tours

- First tours March 2009; 3,000 tickets claimed via the internet in minutes
- Annual tours now April-September
- 10,000 visitors per year

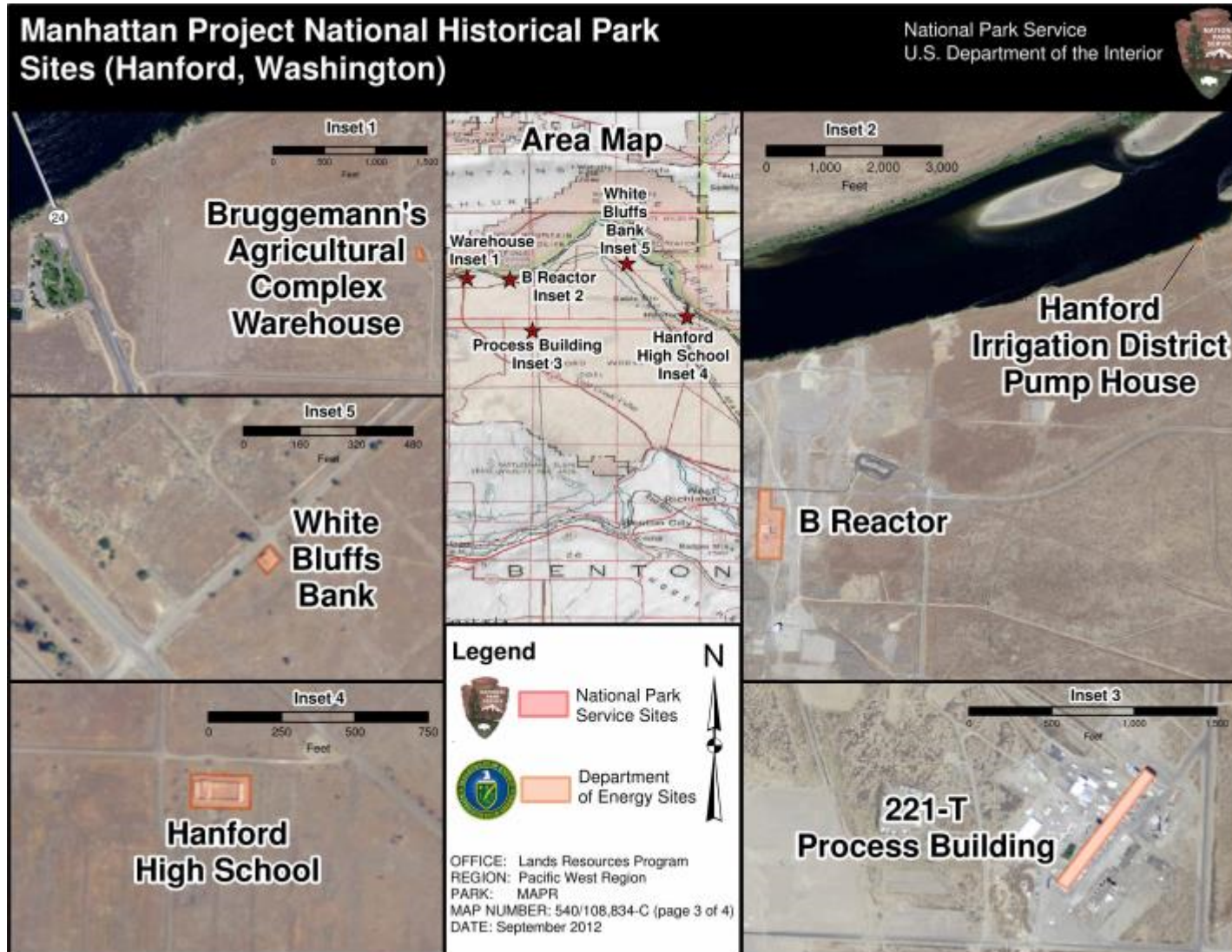


- More than 50,000 visitors to date
- 72 countries worldwide represented
- Age limit lowered from 18 to 12; developed learning materials to work with school tours
- Visitors bring economic benefits to the area

Other Historic Hanford Structures



Proposed Manhattan Project National Historical Park



What Has Made the Difference for Us

- Comprehensive Land Use Plan is a road map
- DOE Senior Management position created to focus on future use issues and work with the community
- We have common goals
- There is alignment in the community on vision and priorities

