AMWTP Mission

- Prepare 65,000m$^3$ of plutonium-contaminated waste for shipment to permanent disposal in New Mexico
  - 54,000m$^3$ is located in the Retrieval Enclosure under an earthen-covered berm
  - 11,000m$^3$ is located in the Type II Storage Modules
- Support DOE in Meeting their Court-mandated milestones in the Settlement Agreement between DOE, the State of Idaho, and the U.S. Navy
  - Complete construction by December 2002
  - Start operations by March 2003
  - Complete treatment of waste by 2015 but NLT 2018
- Located at the INEEL Radioactive Waste Management Complex (RWMC)
  - 166 acre radioactive waste storage and disposal facility
AMWTP Contract

- Awarded in 1996 by DOE-ID
- Design, construct, and operate the Treatment Facility
- Privatized, fixed price, single award/life cycle
- Four Phases
  - Phase 1: permits and safety basis documentation approved (completed July 19, 2000)
  - Phase 2: complete design, construction, and start-up
  - Phase 3: operation
  - Phase 4: D&D of facility (DOE option)

Option: process additional 120,000 m$^3$ of DOE waste (as of the time of writing the...
Timeline for AMWTP

- 10/95 Settlement Agreement Signed
- 06/96 Request for Proposal Issued
- 2/96 Contract Awarded
- 07/00 Final Permits Issued
- 09/00 Start Construction
- 06/99 Preliminary Safety Analysis Report Approved
- 07/98 ES&H Operating Plan Approved
- 10/98 NESHAPs Authorization Received
- 09/97 Facility Siting License Issued
- 03/99 EIS and ROD Issued
- 06/99 EIS and ROD Issued
- 10/02 Start Retrieval
- 09/03 Start Shipping (Agreement Milestone)
- 03/03 Start Supercompaction/facility operation
- 10/02 Completion of Processing (Agreement Milestone)

- 06/99 Preliminary Safety Analysis Report Approved
- 03/99 EIS and ROD Issued
- 10/98 NESHAPs Authorization Received
- 07/98 ES&H Operating Plan Approved
- 09/97 Facility Siting License Issued

x - activity complete

Note 1 - project baseline shows processing complete in 2012
Schedule Performance

- 07/22/00 Permits Issued - completed 2 days early
- 08/07/00 Transfer WMF-634 - completed on time
- 08/22/00 Start Excavation - completed on time
- 10/27/00 Funding Approval - completed 2 days early
- 01/02/01 Transfer TSA-RE - completed 6/1/01
- 03/01/01 Building Slab Complete - completed 8 weeks ahead of baseline
- 12/24/01 Building Enclosed - projecting 3 months early
- 09/01/02 Complete Construction - projecting 08/02 (4 months ahead of Agreement Milestone)
- 10/01/02 Start Retrieval
- 03/31/03 First WIPP Shipment
- 10/01/03 Start Process Ops
- Spring 2013 Complete processing/shipping 65,000 m³
  (5 years ahead of Agreement Milestone)
AMWTP Previous Flowsheet

Retrieve
- Characterize
- Store

Open → Sort → Size Reduce

Box Line

Open → Sort → Size Reduce

Drum Line

Micro Encapsulate
- Incinerate
- Macro Encapsulate

Super-compact

Product Certification

Ready for Disposal

BNFL Inc.

Rev 28/7/98
Pucks
Cross-Sectioned Pucks
Safety

- Safety is integral to meeting project commitments
  - Construction craft have worked in excess of 750 days w/o a day-away-from-work accident
  - AMWTP has worked in excess of 600,000 hours w/o a day-away-from-work accident
  - LWCR = 0.0 & TRIR = 2.3
    - 28% below 2000 DOE construction rate
    - 72% below 1999 BLS construction rate
- Employee involvement critical to success
  - Safety meetings with crafts 2x/week
  - Employee suggestions reviewed & implemented (rebar protection).
  - Incentives for safely working
AMWTP Groundbreaking
August 21, 2000
Retrieval Project Status
Construction Status
(Mid July 2001)
Next 4-6 Month Look Ahead

• Complete structural steel erection in August
• Complete siding installation in early September
• Start special coatings in cells in August
• Complete second floor CIP walls in August (3 months early)
• Start electrical conduit installation this summer
• Install roof and siding this summer
• Receive RTRs in August and drum assays in November

• **Goal**: Enclose building no later than **October 15** (3 months early) & turnover WMF-634/WMF-636 for commissioning 12/31/01.
Summary

Imagine what it will look like in another 11 months...

August 21, 2000

11 Months Later (7/23/01)
Summary

- AMWTP continuing success because of:
  - Partnership between the State, DOE-ID, and BNFL
  - Innovative construction techniques
  - Building support across region and community
  - Flexibility of private industry managing work within defined boundaries
- DOE-ID evaluation of AMWTP for 2000: 3.2
- Moving forward to hire operational crews in late 2001/early 2002
- Project accelerating towards August 2002 construction completion