



PORTSMMOUTH D&D PROJECT



- ▶ Built from 1952-56
- ▶ Operations began in 1954
- ▶ Production ceased in 2001
- ▶ Cold Standby in 2001
- ▶ Cold Shutdown in 2006
- ▶ D&D Contract awarded in 2010
- ▶ D&D began in March 2011
- ▶ Completion scheduled for 2033





INTRODUCTION



- ▶ Current Site Activities
 - ▶ Decontamination and Decommissioning (D&D)
 - ▶ DUF_6 Conversion Plant
 - ▶ American Centrifuge Plant





INTRODUCTION



▶ Plant Facts & Figures

- ▶ 9M ft² of Category II nuclear facilities
- ▶ 1M ft² of industrial facilities
- ▶ About 7,200 HEU/LEU contaminated process gas equipment components to be dispositioned off-site
- ▶ About 3,600 process gas equipment components planned for on-site disposal
- ▶ 1.5 metric tons of uranium holdup in process gas equipment
- ▶ 160 Solid Waste Management Units
- ▶ About 21,000 Depleted Uranium Hexafluoride cylinders
- ▶ 410 acres of trichloroethene plumes
- ▶ 100 acres of existing landfills under cap
- ▶ 2.2M yd³ of waste estimated for D&D
 - ▶ Radiological debris
 - ▶ Non-radiological debris
 - ▶ Radiologically and chemically contaminated soils
 - ▶ Hazardous industrial waste
- ▶ Proposed OSDC would be largest engineered cell in eastern U.S.



INTRODUCTION



- ▶ DOE awarded Fluor-B&W Portsmouth (FBP) the D&D contract on August 16, 2010.
- ▶ Original contract value was \$2.1B.
- ▶ Includes initial five-year contract and a potential five-year option.





TRANSITION



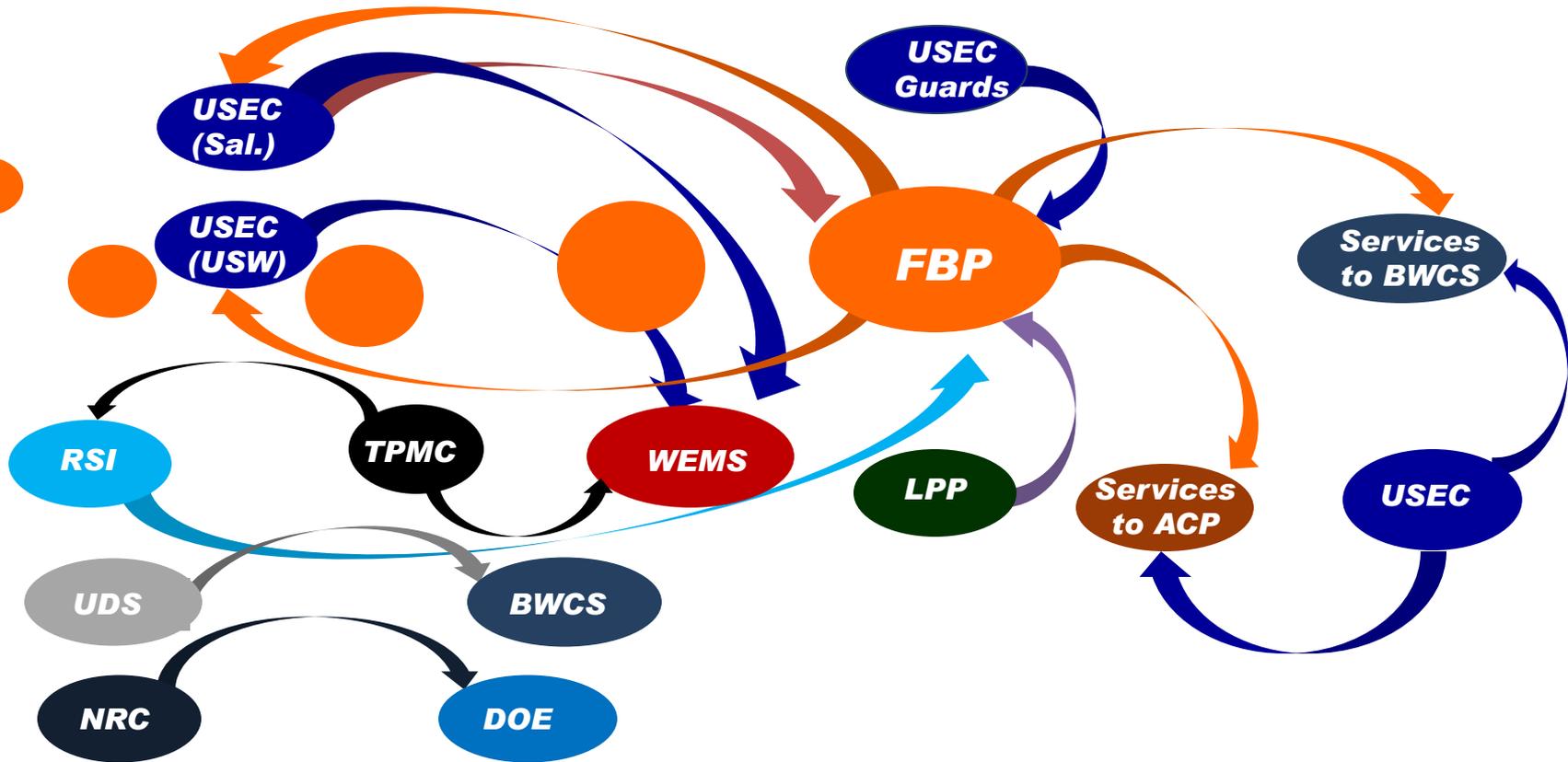
De-Lease process with USEC and DOE/ORO/PPPO

Master Binding Facility Agreement

Safety Authorization Basis (NRC to DOE)

- ▶ **Environmental Regulatory Transfer**
- ▶ **Security Program Transfer**
- ▶ **Infrastructure Program Transfer**
- ▶ **Work Force Continuity**
- ▶ **Multiple Contract Transitions**

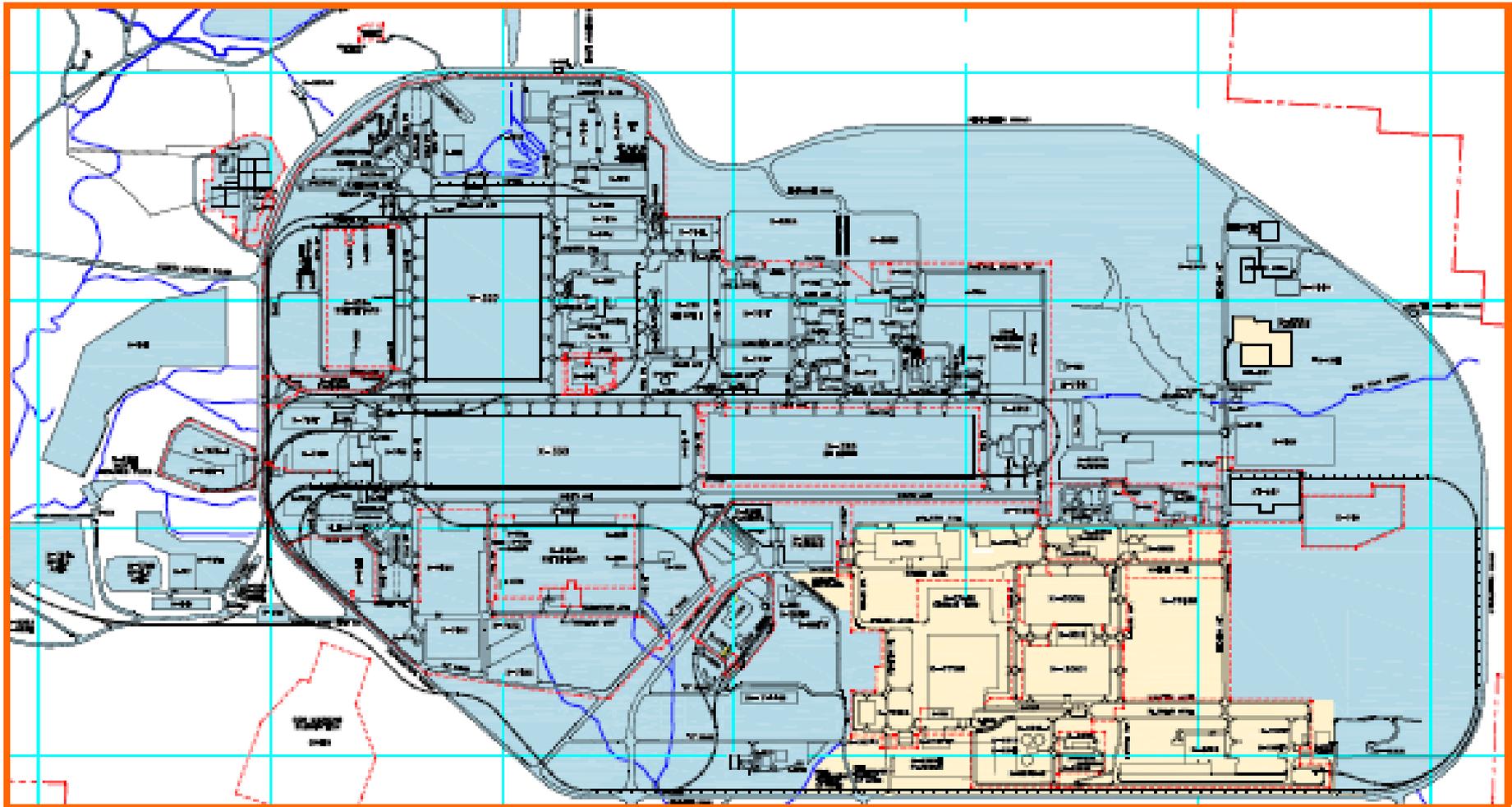
TRANSITION



TRANSITION



FY 11





TRANSITION



FY 2012-2016



7/13



6/16



FY 2017-2020

12/17



6/19



12/20



FY 2021-2024

6/22



12/24



10/11
De-Lease
Complete

*D&D and WD
Record
of Decisions*

X-326 Demolition

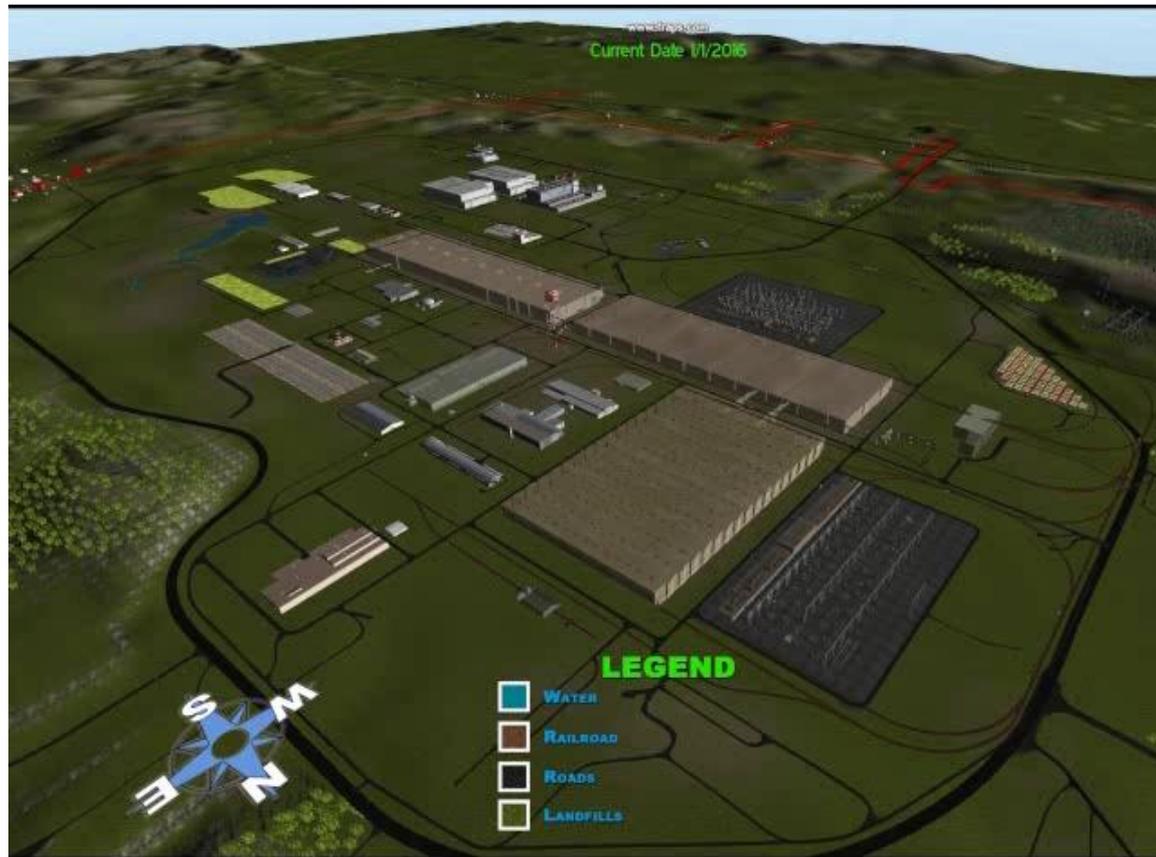
*X-326 Soil
Remediation*

X-330 Demolition

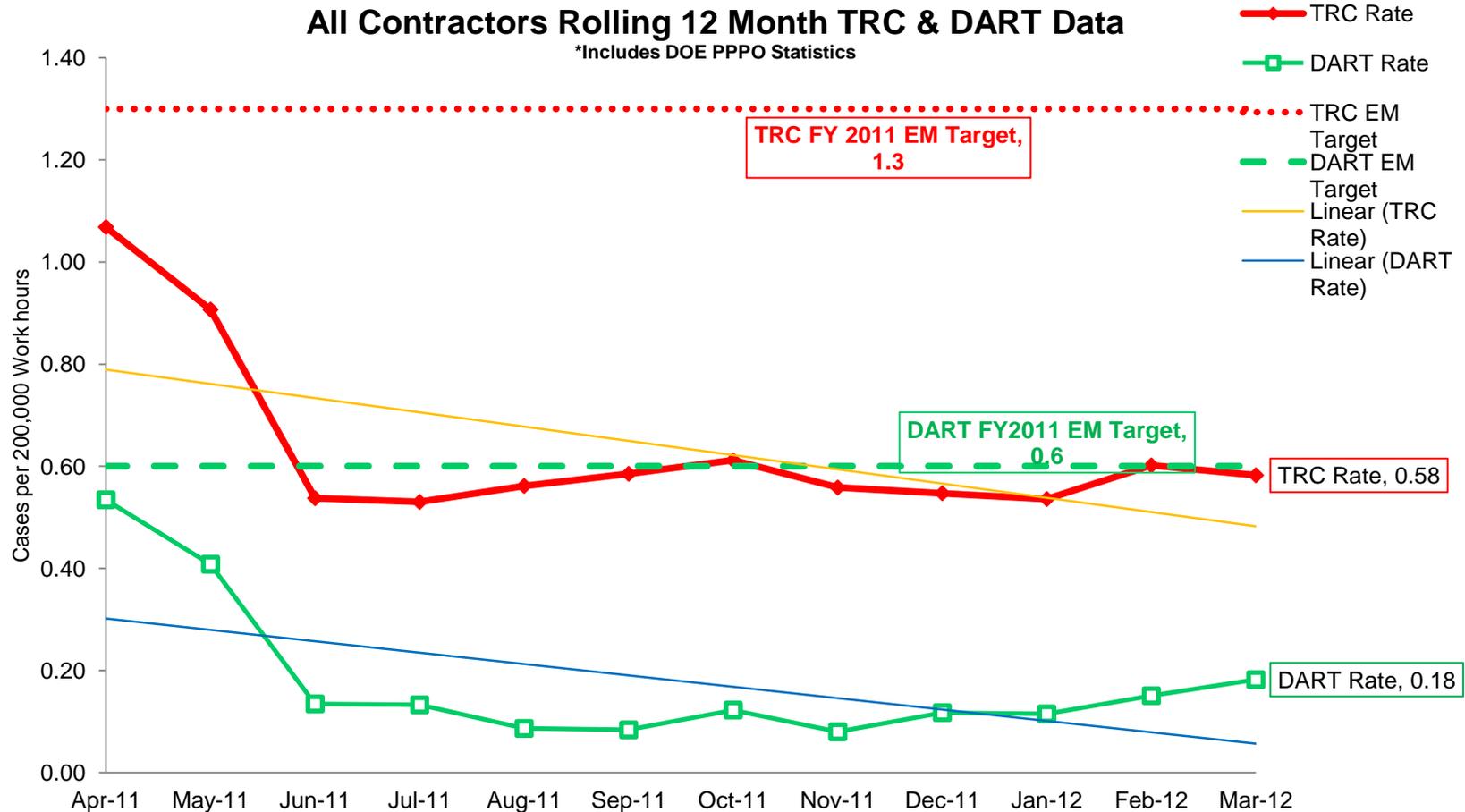
*X-330 Soil
Remediation*

X-333 Demolition

*X-333 Soil
Remediation*



TRANSITION



Favorable Safety Trend
 Hot Operational Transfer
 Hot Transfer of Utilities
 Significant Field Activities

ARRA Completion
 8M lbs. of Recycle Materials
 Waste Shipments
 Multiple Safety Management Programs

PORTSMOUTH D&D



3,714 acre federal reservation – 1,200 acres within the 7-mile long perimeter road around the facilities

Building X-326
~½ mile long
30-acre roof
2,600,000 ft² of floor space

Building X-330
~½ mile long
33-acre roof
2,800,000 ft² of floor space

Building X-333
~¼ mile long
33-acre roof
2,824,640 ft² of floor space

3 process buildings, floor size about 200 football fields



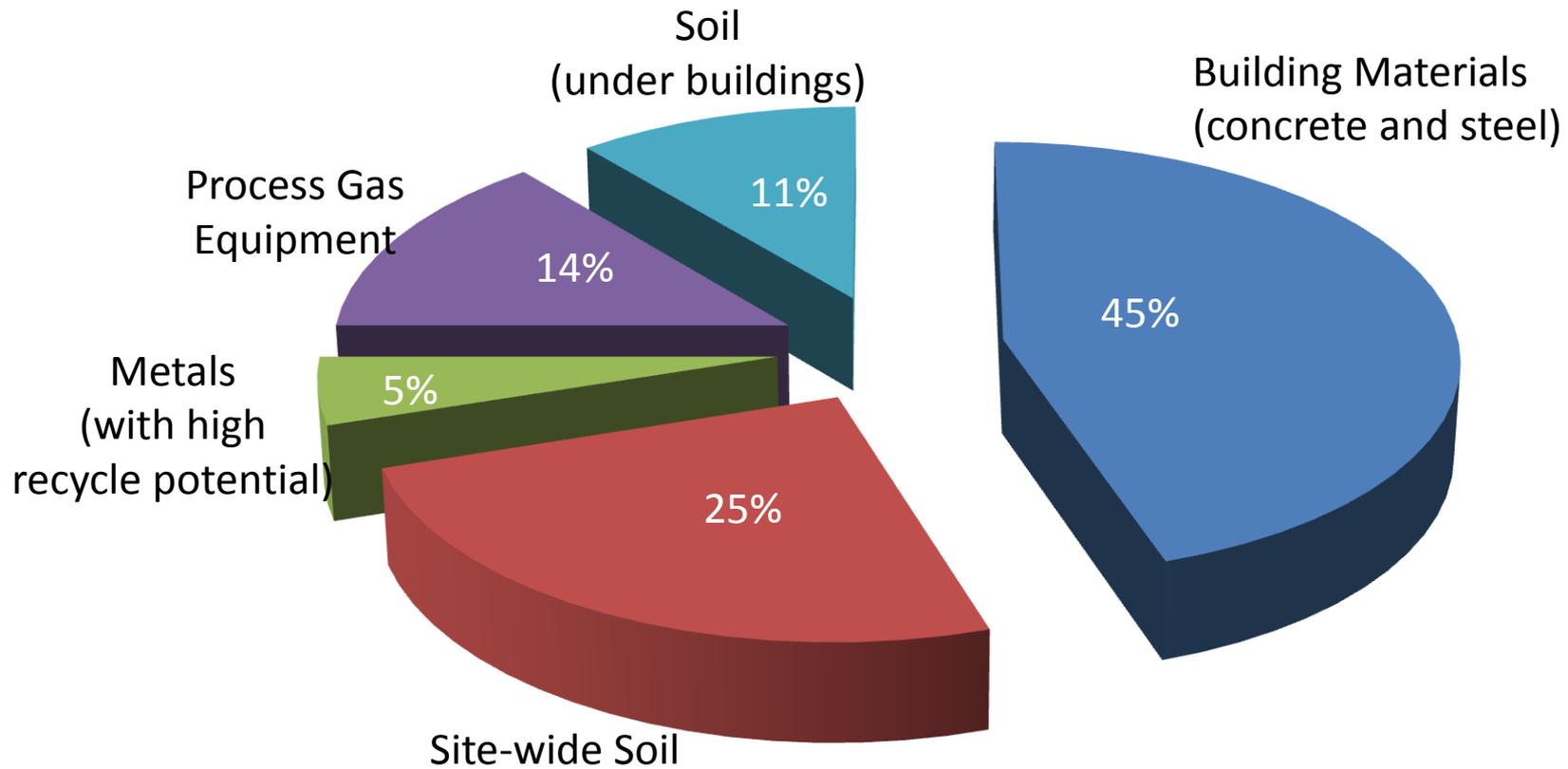


PORTSMOUTH D&D



WASTE STREAMS

(Estimated Volume – 2.2M yd³)

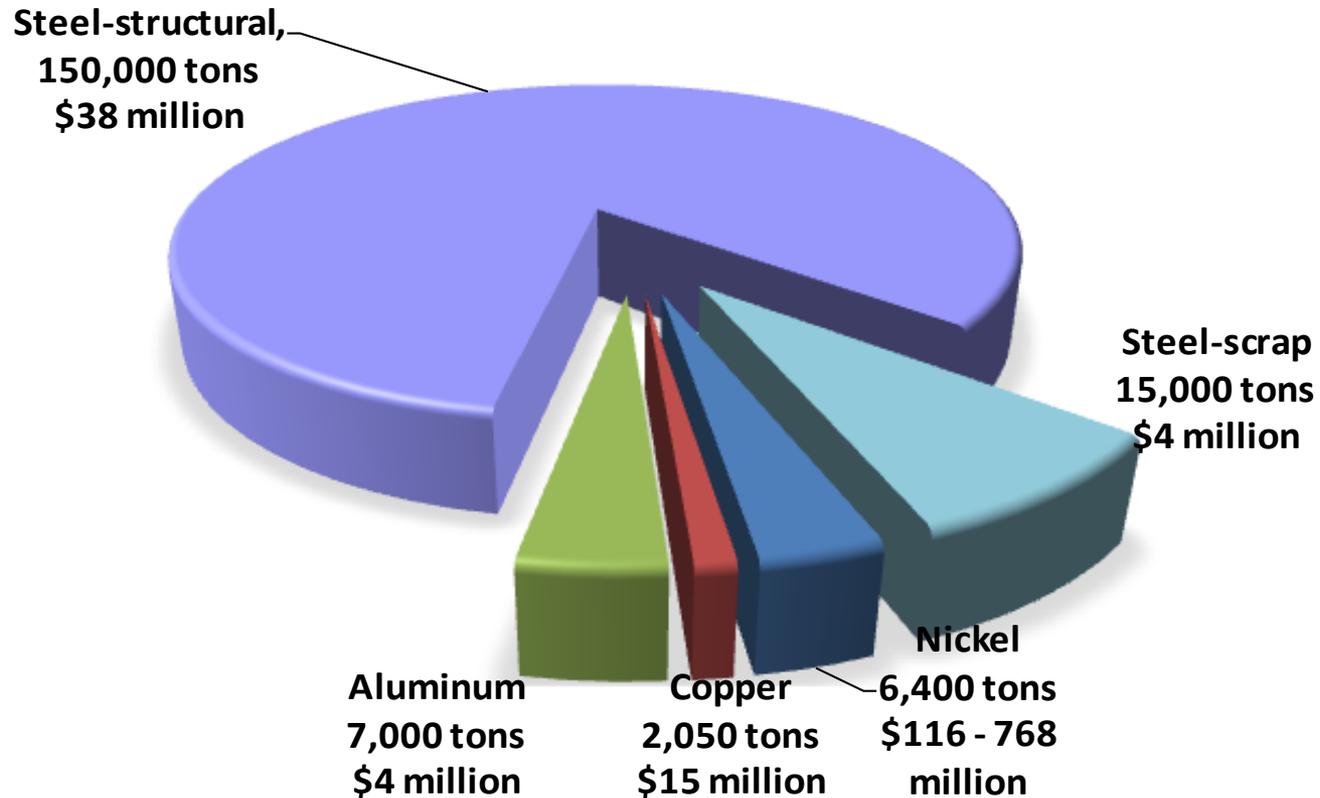




PORTSMOUTH D&D



Metals at PORTS (180,450 tons)





SUMMARY OF SUCCESSES



- ▶ **Safe Transition**
- ▶ **ARRA – Completed \$138M Worth Of Scope For \$118M**
- ▶ **GFS&I Savings – 14% Reduction**
- ▶ **Accelerated De-Lease Has Created Long-Term Advantages**
- ▶ **Avoidance Of Large Scale Layoffs**
- ▶ **Extensive Public Outreach Efforts Has Led To Community Engagement**
 - ▶ Elected Officials
 - ▶ Labor
 - ▶ SSAB
 - ▶ SODI
 - ▶ Regulators
 - ▶ Media
 - ▶ Schools – STEM programs, Science Fair, Scholarships, Internships, Tours
 - ▶ Monthly Public Tours
 - ▶ Quarterly Public Meetings
 - ▶ Other Stakeholders