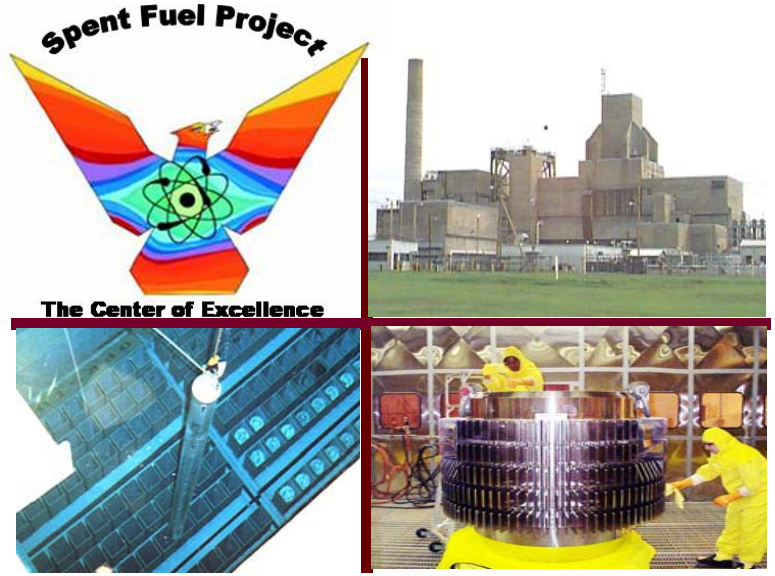
A Presentation to the
National Spent Nuclear Fuel Program
March 4, 2008

Spent Fuel Project Status



Michael D. Dunsmuir
FRR / DRR Receipt Management, WSRC

EM Environmental Management
safety ❖ performance ❖ cleanup ❖ closure

SRS

Spent Fuel Project Status

- Spent Fuel Project Timetable
- FRR and DRR Receipt Forecast
- SNF Storage Capability
- SNF Infrastructure
- Summary

Spent Fuel Project Timetable

- Maintain safe interim SNF storage through 2019
- Receive Al-based FRR, DRR, and INL SNF until 2019
- Deinventory SRS Non-Al SNF to INL by 2019
- Disposition Al-based SNF through H-Canyon by 2019

FRR/DRR Receipt Forecast

FRR: 41 Shipments since May 1996

- 6709 Assemblies
  - ~73% of total inventory projected to be returned from participating countries
- ~2,500 assemblies forecast through 2019

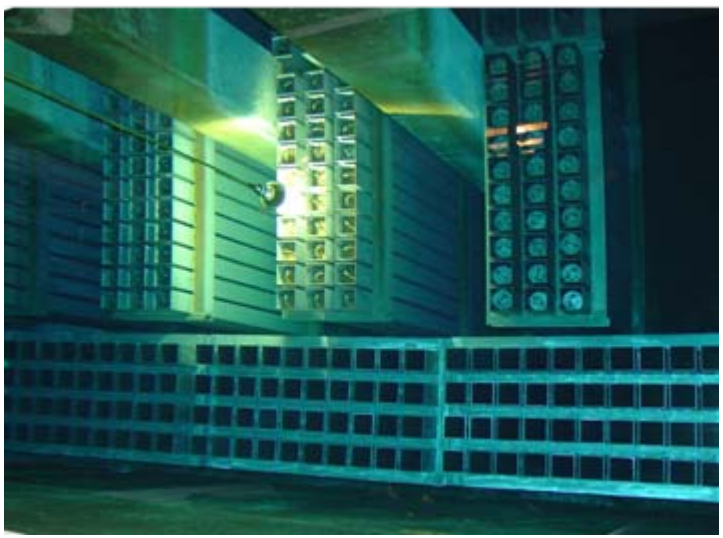
DRR: 210 Shipments since 1996

- 2398 assemblies
  - ~ 33% of total inventory projected to be returned through 2019
- ~ 800 MTR,
- ~ 4000 ATR,
- ~ 115 HFIR assemblies forecast through 2019

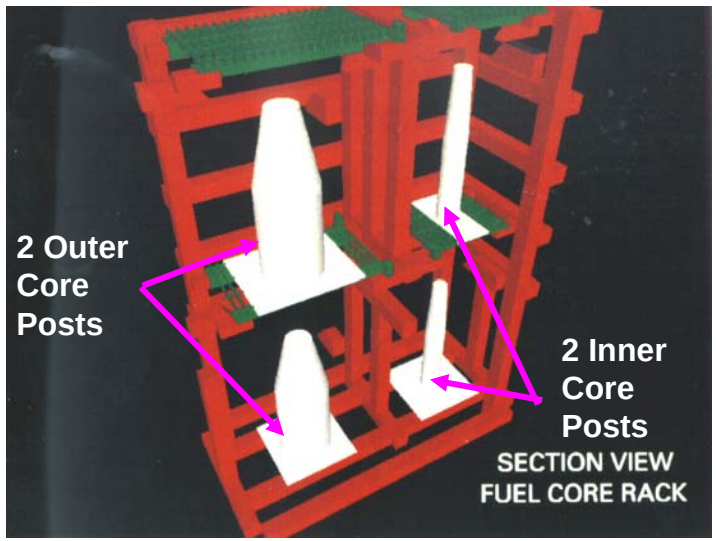
SNF Storage Capability

Storage Type	Total Positions	Positions Filled	Positions Available	Percent Filled
HFIR	120	78	42	65%
VTS (Positions)	3650	2804	846	77%
Bucket Row Storage	23	0	23	0%
Bucket Racks	36	6	30	17%
Oversized Can Racks	42	23	19	55%
Dry Fuel Storage Area	30	23	7	77%

3 x 10 and 4 x 10 VTS racks



HFIR racks



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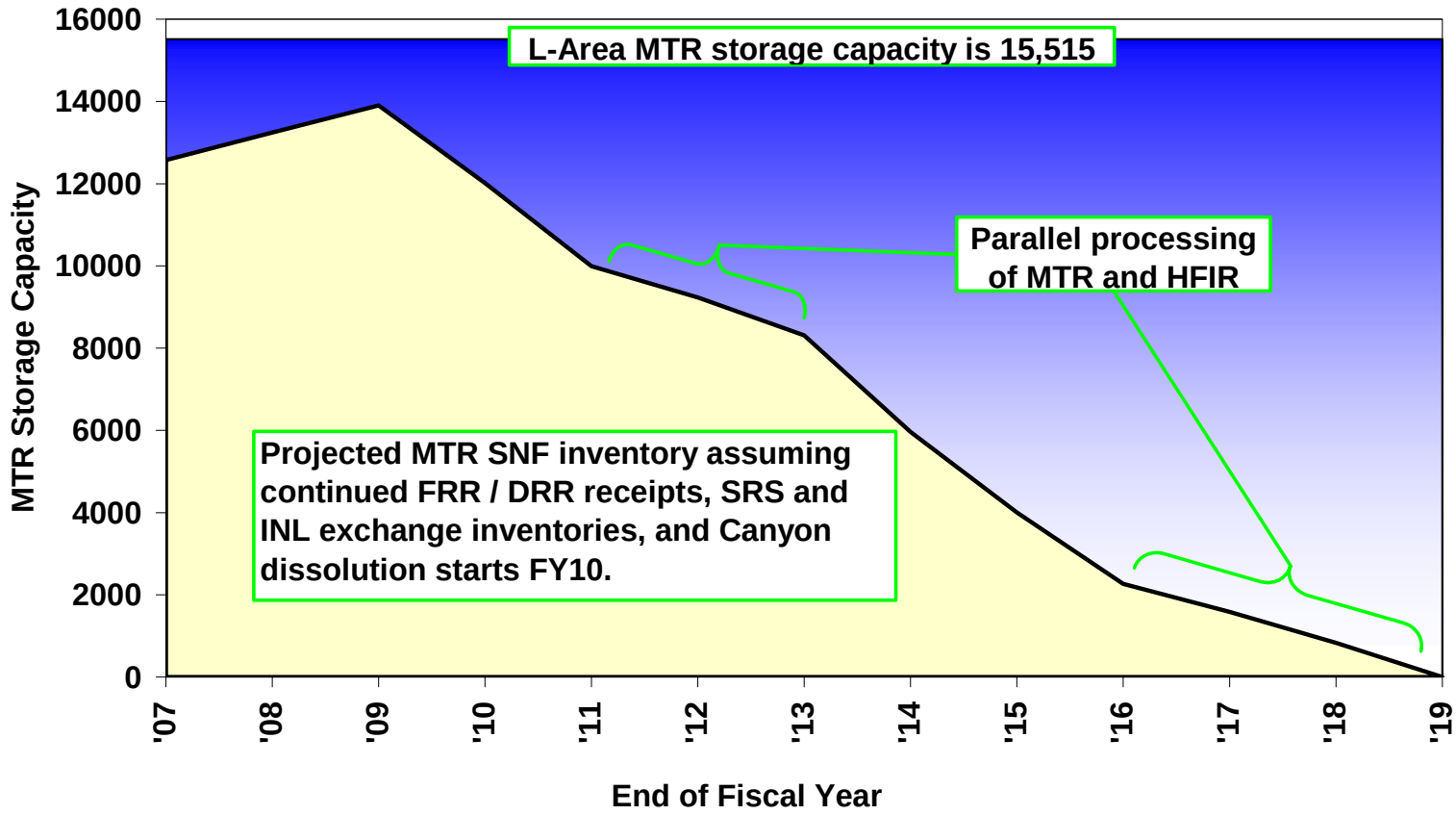
SNF Storage Capability Continued

L-Area MTR Storage Capacity and Projected MTR Inventory



MTR: Material Test Reactor

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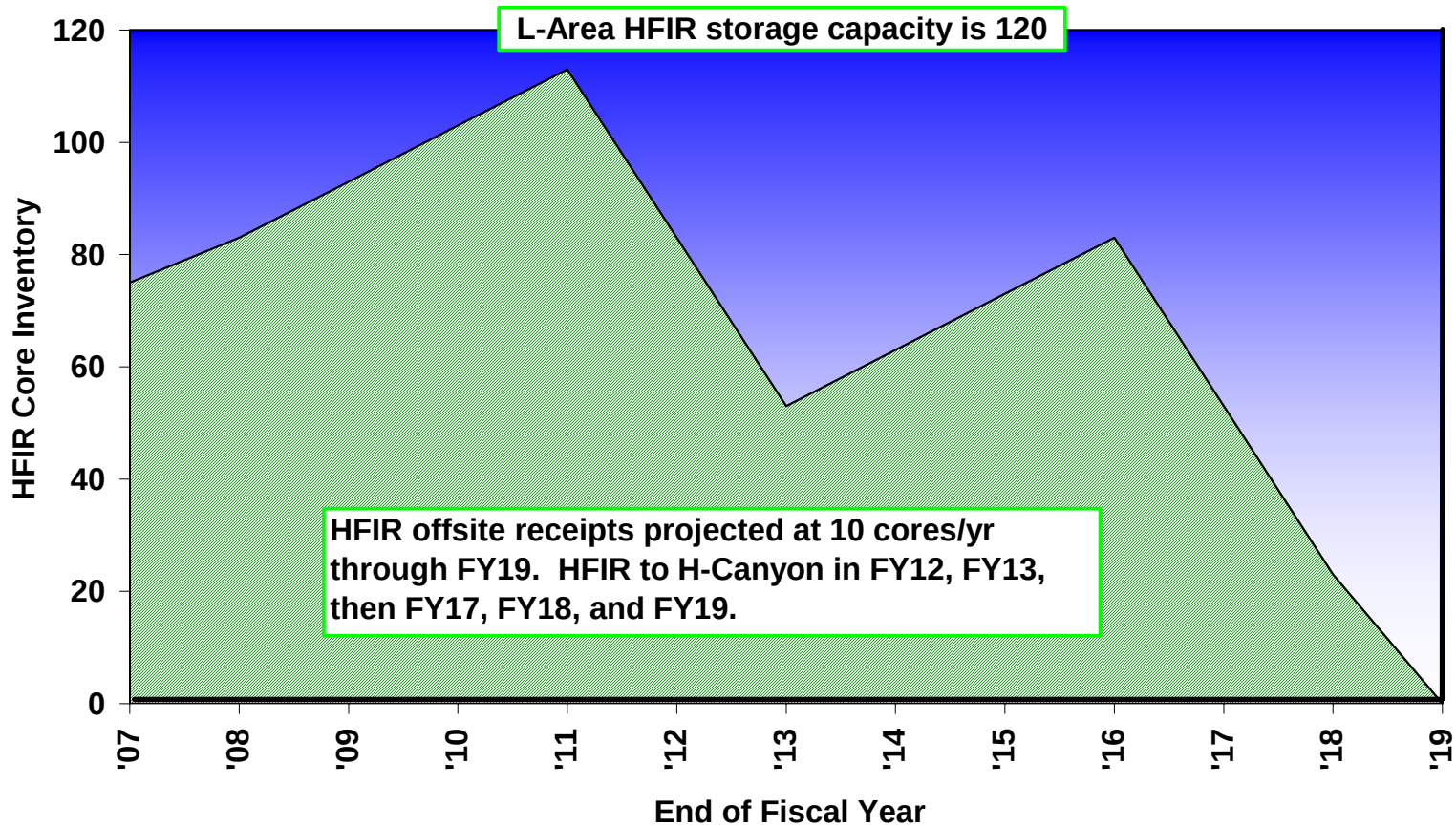
SNF Storage Capability Continued

L-Area HFIR Storage Capacity and Projected HFIR Inventory



HFIR: High Flux Isotope Reactor at Oak Ridge National Laboratory

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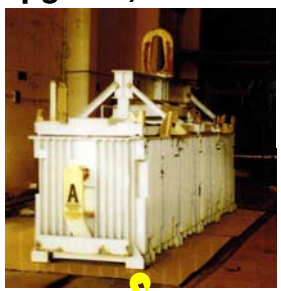
SNF Infrastructure

70-Ton Cask Internal Upgrade, 4/99



LASR - Storage Racks 10/99 - 2005

Sand filter Replacement, 2/04

STS Modifications 9/06

Domestic Water Pipe Replacement, 6/07

120-Ton Crane Upgrade, 11/00

1999 2000 2001 2002 2003 2004 2005 2006 2007 2008

85-Ton Crane Upgrade, 8/99

TN-7 Upgrade Transfer Bay, 11/00

DFSA Project 6/06

NIMs/GA6 Replacement 11/06

Air Compressor Conversion, 9/07

Summary

- L-Area existing storage capacity is sufficient for projected SNF receipts with H-Canyon disposition.
- L-basins infrastructure can safely support DOE's SNF interim storage needs until final disposition.
- WSRC is supporting DOE SNF disposition planning.