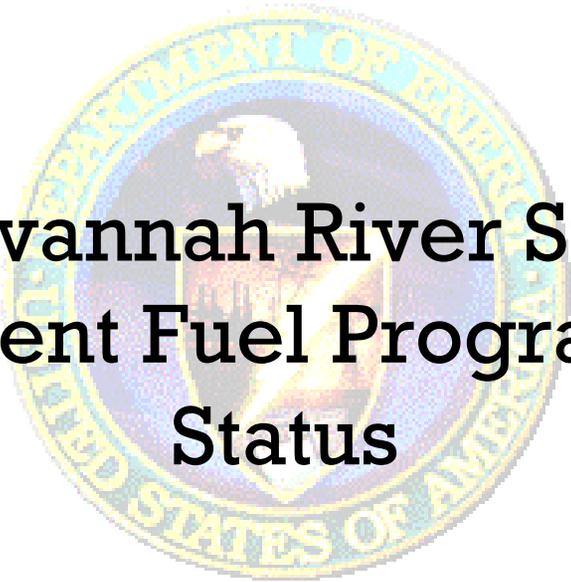
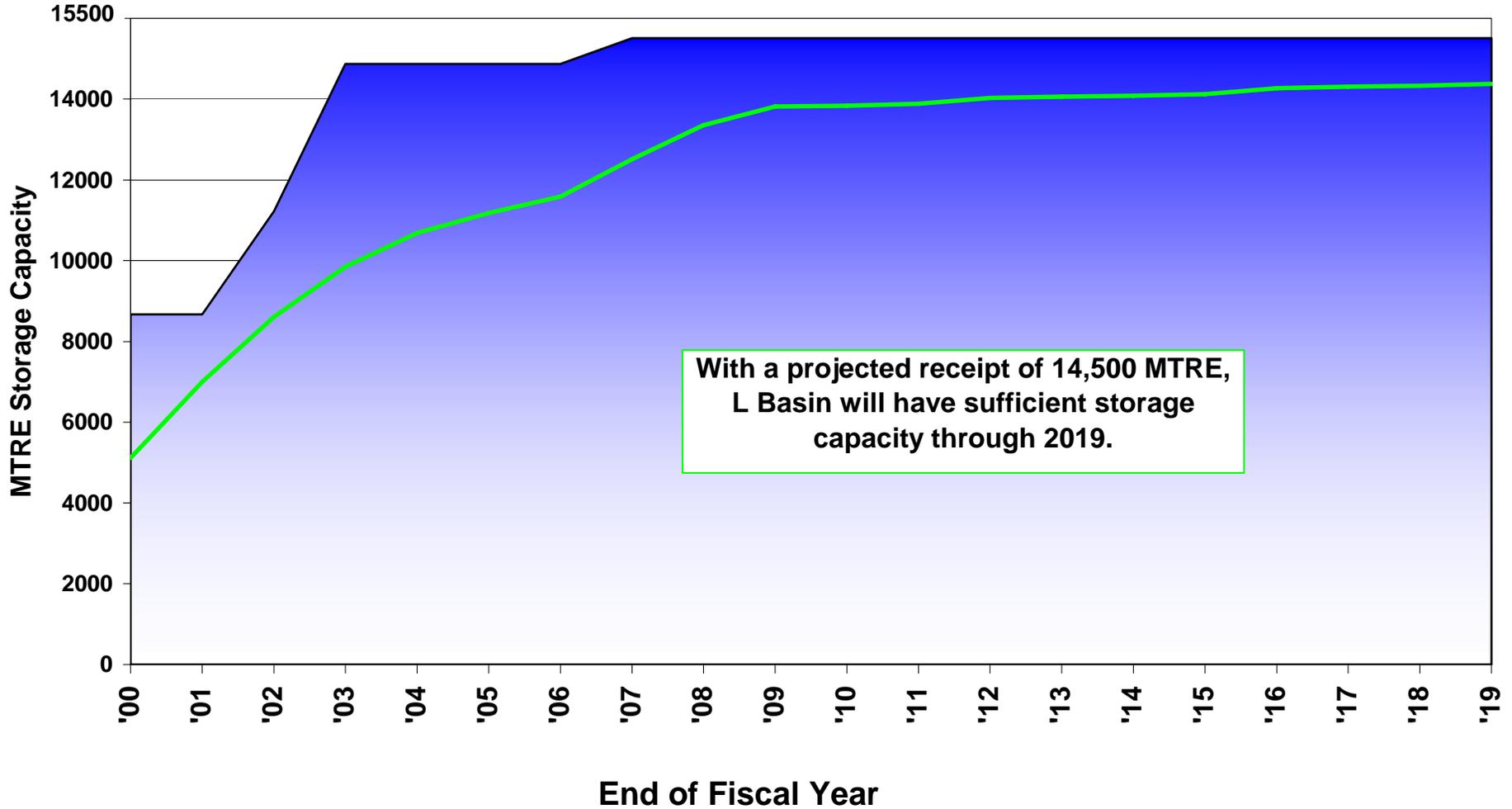


Savannah River Site Spent Fuel Program Status



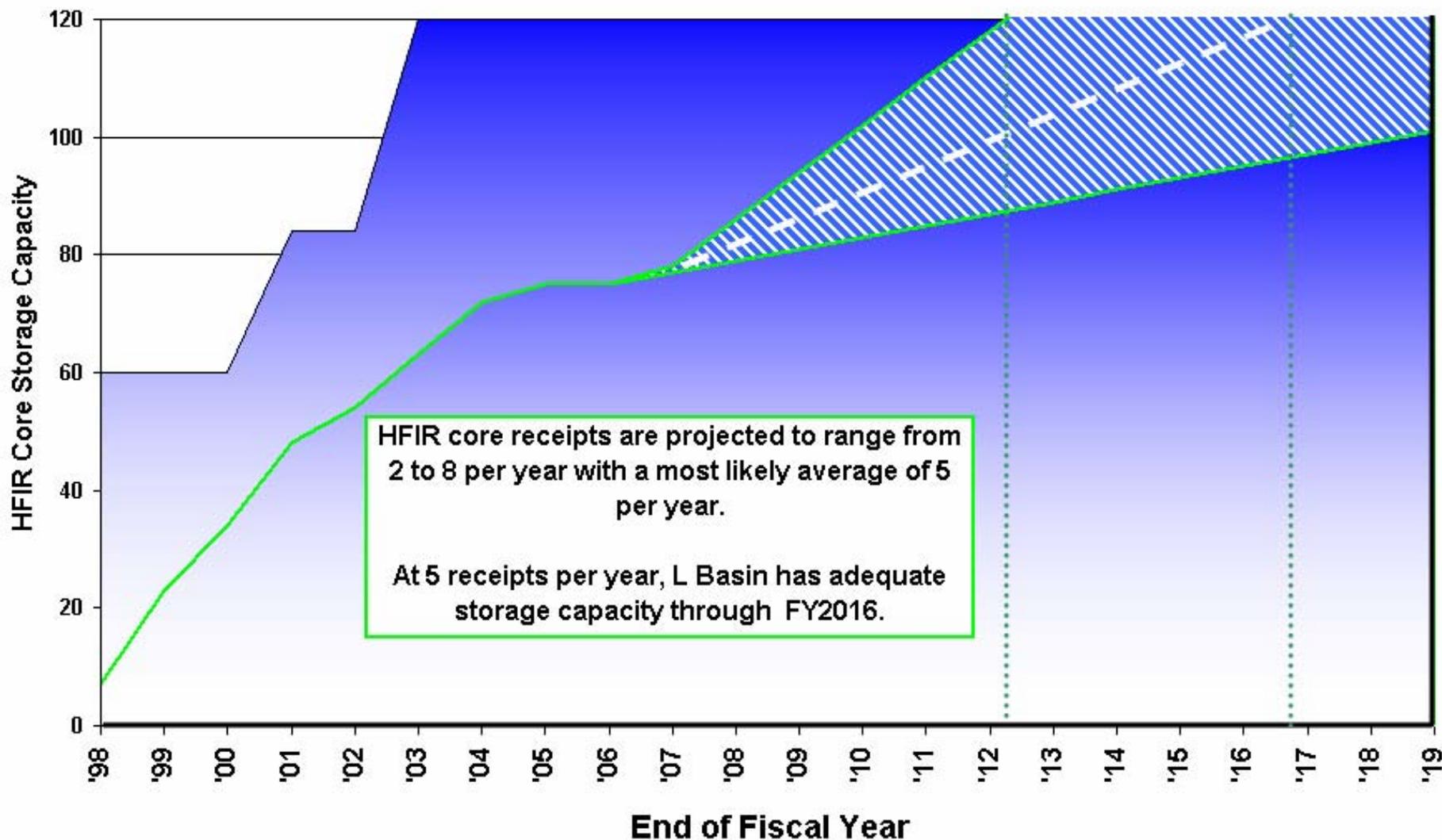
**INL SNF
Fuel Swap
Technical Discussion**

L-Basin MTRE Storage Capacity and Projected MTRE Receipts



MTRE: Material Test Reactor Equivalent

L-Basin HFIR Storage Capacity and Probable HFIR Receipts



HFIR: High Flux Isotope Reactor at Oak Ridge National Laboratory



Spent Fuel Project

Where Excellence Has a Future

DRR & FRR Fuel Receipt Projection

	07	08	09	10	11	12	13	14	15	16
DRR	50	160	52	31	52	147	42	21	42	147
FRR	800	495	283	186	120	381	33			113

10-Year Plan

1976 SS
100 Casks
8-10 years

INL

~ 100 AI Shipments
8-10 years

AL SNF to process
9000 L-area
2000 INL
3000 DRR&FRR
70-Ton Cask
7-10 years

L-Basin

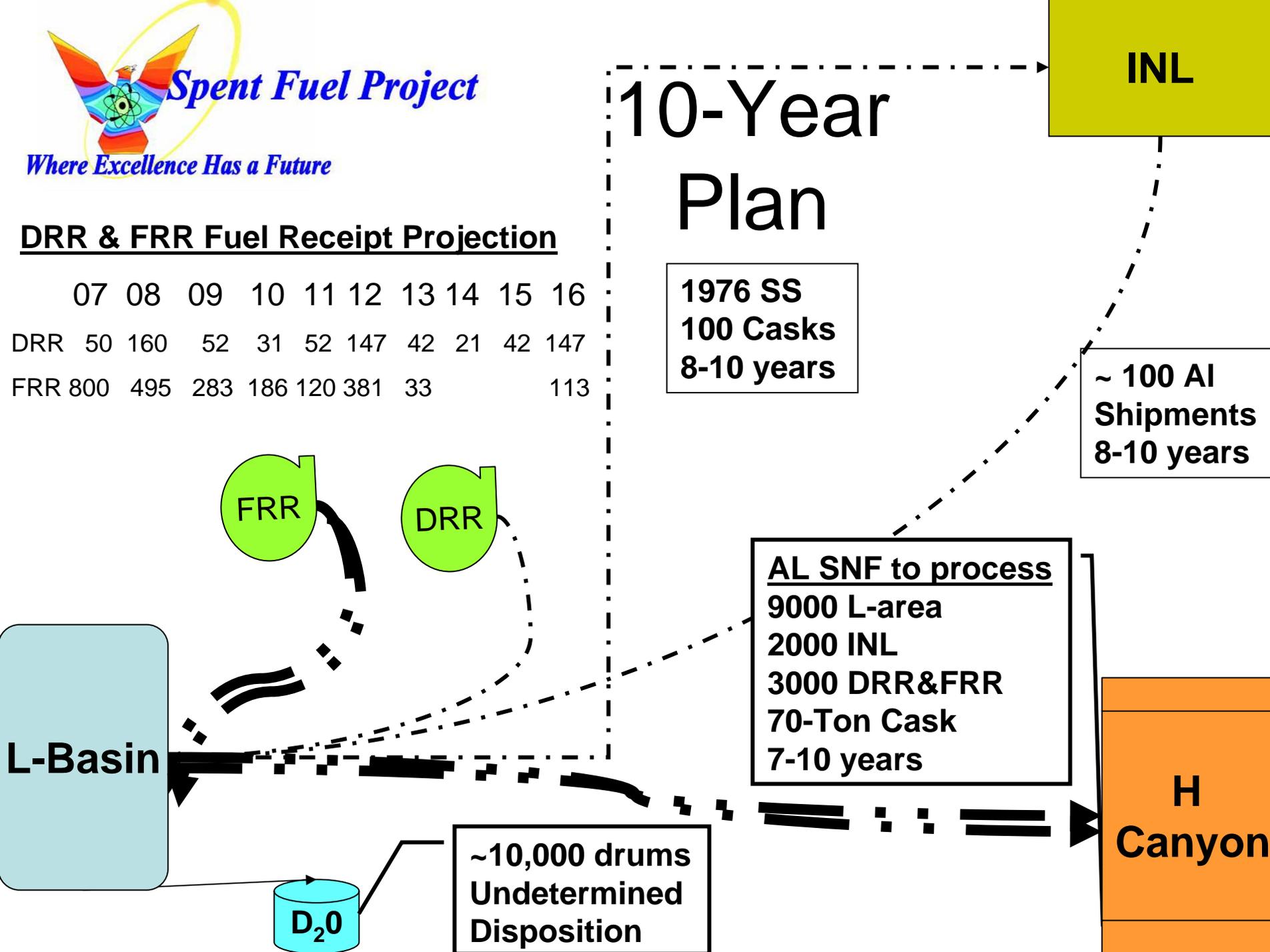
FRR

DRR

D₂O

~10,000 drums
Undetermined
Disposition

H Canyon





Spent Fuel Project

Where Excellence Has a Future

INL Swap Technical Discussion

- 1976 Stainless Steel Assemblies at SRS
- ~ 100 shipments

Preshipment Activities 6-12 months prior

**Engineering
Review**

**Stage SS
MTRE**

**Engineering
Review**

**Stage AI
MTRE**

Shipping Timeline

5 days

5 days

5 days

5 days

5 days

5 days

**SR Unload
AI LWT**

**SR Load
SS LWT**

**SRS to
INL**

**INL Unload
SS LWT**

**INL Load
AI LWT**

**INL to
SRS**



Spent Fuel Project

Where Excellence Has a Future

Monthly Basin Activities

Unload Aluminum				Load SS		
Load SS			Fuel Staging		Railcar Load	
DRR/FRR Receipt Processing				Fuel Staging		
Railcar Load		PM	DRR/FRR Receipt Processing			



INL SWAP Program Initiation Requirements

- Stainless Steel Fuel Review
- Concurrent Engineering Review with INL
- Cask Selection
- Licensing Cask by NRC
- Safety Documentation
- Procedures for Loading
- Increase Staff and Train them
- Readiness Assessment



12 – 18 months



Stainless Steel Technical Data

1976 Assemblies

~ 30 Nuclear Safety Data Sheets

Varying dimensions and shapes

Potential for using multiple casks

- LWT
- GE 2000



INL SWAP Path Forward

Upon receiving Approval of CD-0/CD-1 Mission Need Statement, Detailed Project Scope, Schedule and Cost estimates will be determined and options evaluated.

The SS/Al Swap has been studied in great detail. Published assumptions will be reevaluated and costs updated.

Project Charter collaboration from SRS, INL, NSFP and HQs, Feds and Contractors, required for unified effort.



Summary

CD-0/CD-1 Approval

12-18 months Preshipment Preparations

Cask Shipping 8-10 years

H-Canyon AI SNF Processing 7-10 years

Complete SRS EM Mission by 2019