

# Infrastructure Review

**Presented to  
Citizens Advisory Board  
Waste Management Committee**

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**Wyatt Clark  
Chief Engineer  
LWO Engineering  
Washington Savannah River Co.**



# Infrastructure Review

- Overview
- Liquid Waste Operations
- Management Process
- Budget Overview
- Summary

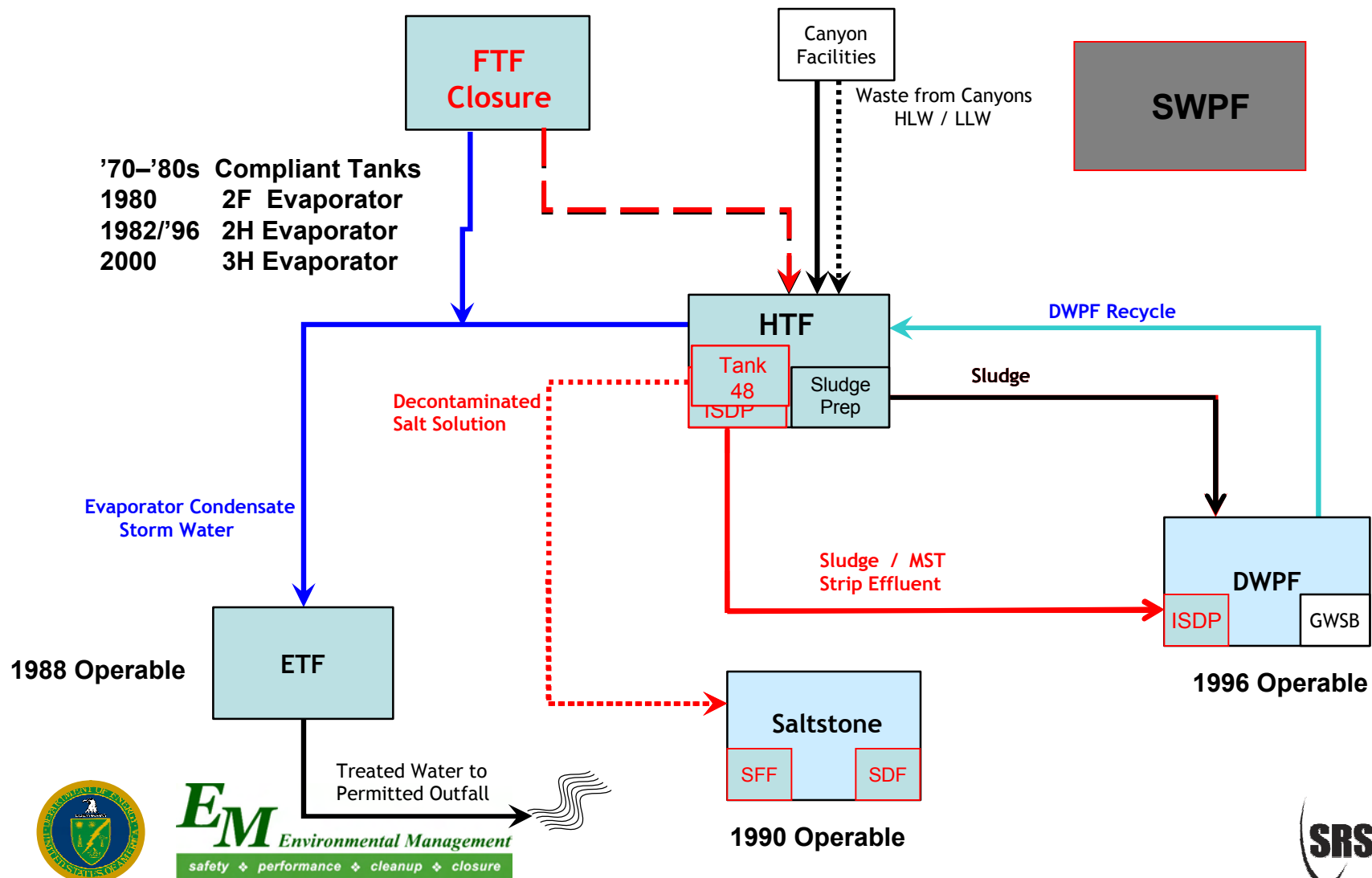


# Overview

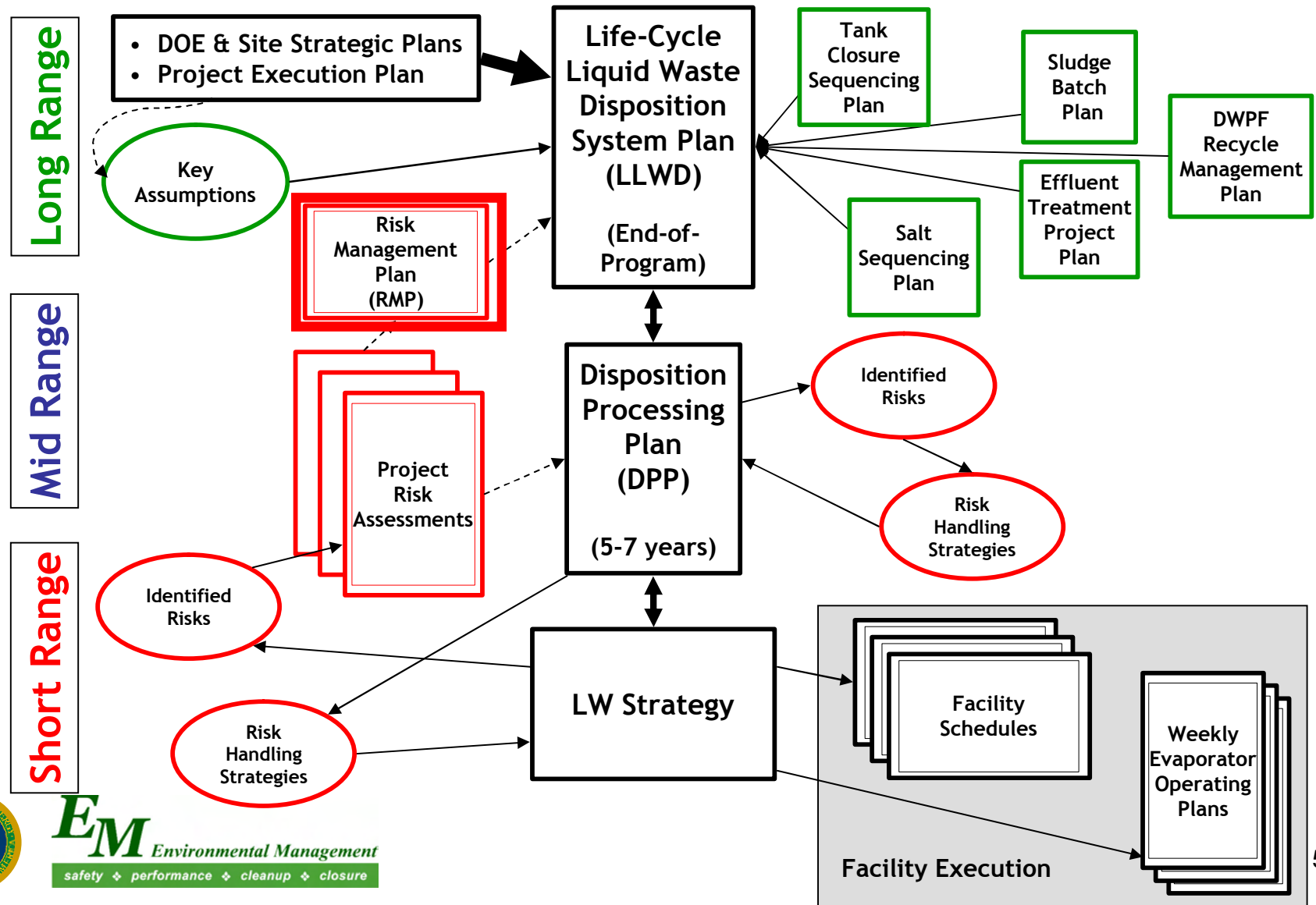
- Plant infrastructure
  - Requires investment due to age of facilities
  - Relies on mature process planning and risk management to avoid program impacts
  - Reduced through “closure projects”



# Liquid Waste Operations



# LW System Planning Process



# Approach to Risk Management

- Risk Planning – Disciplined approach
- Assessment – Major risk categories include:
  - Tank Space
  - Equipment Failures
  - Technology
  - Process Performance
  - Project Integration
  - External Coordination
  - Capture emergent risks into Risk Register
- Integration with Planning
- Dealing with Residual Risk



# Typical Risk Assessment

Event: Tank Farm Equipment Failure

Handling Actions

- Establish and **monitor system health**
- Implement requirements of system health reviews
- Identify & procure critical spares



# Funding Perspective

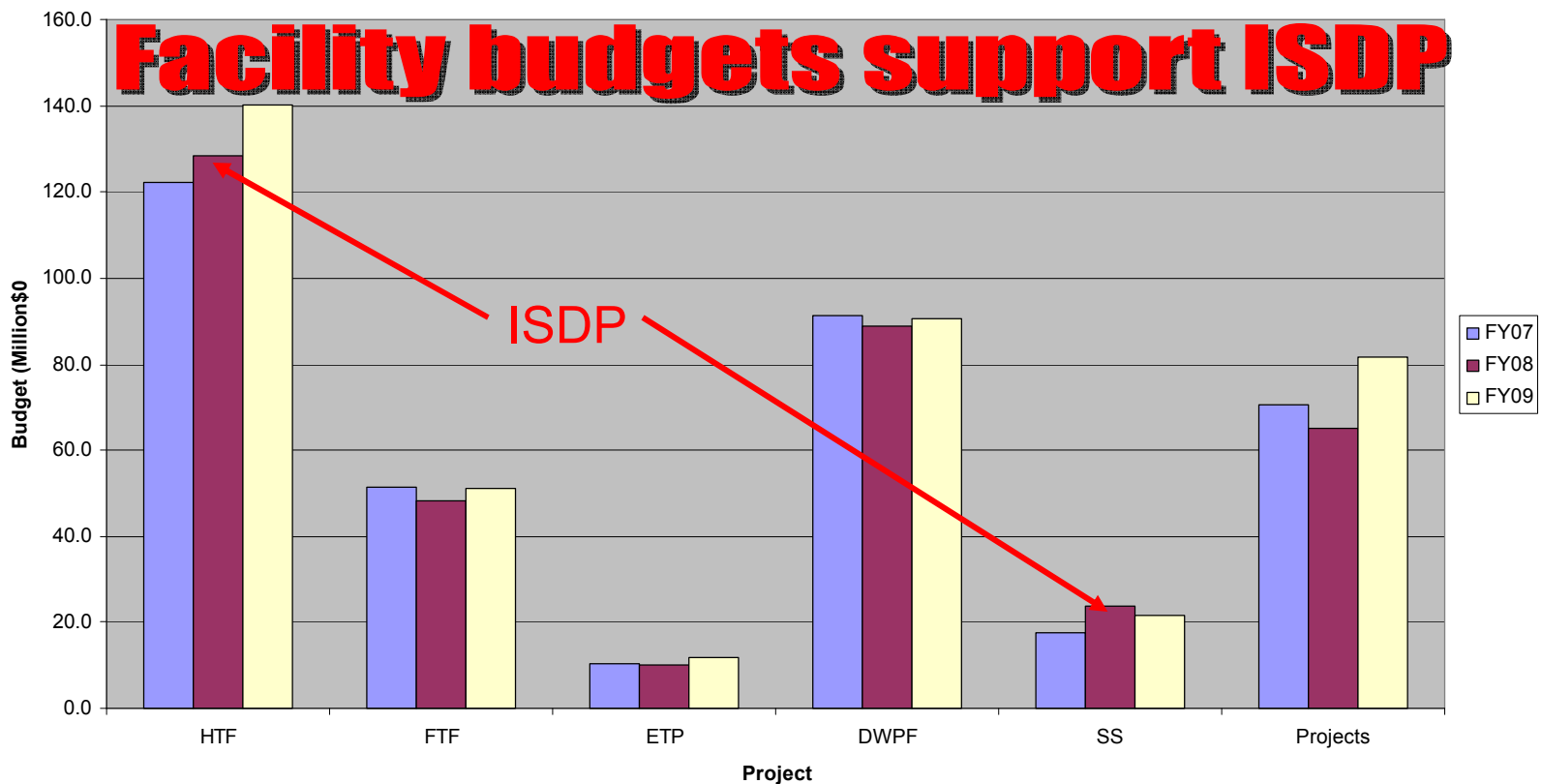
- 1996 – 2002
  - Facility operations stable
  - 3H evaporator startup
  - Tank Farm Services (FTF / HTF west)
- 2003 – 2008
  - Active waste removal / transfers
  - Infrastructure investments minimal (risk driven)
  - Operational projects focus (ISDP)
- 2008 – 2012
  - Closure project focus (project addresses infrastructure)
  - Active waste removal / transfers / treatment
  - Infrastructure focus to support SWPF integration
  - Life Extension program focuses long range planning





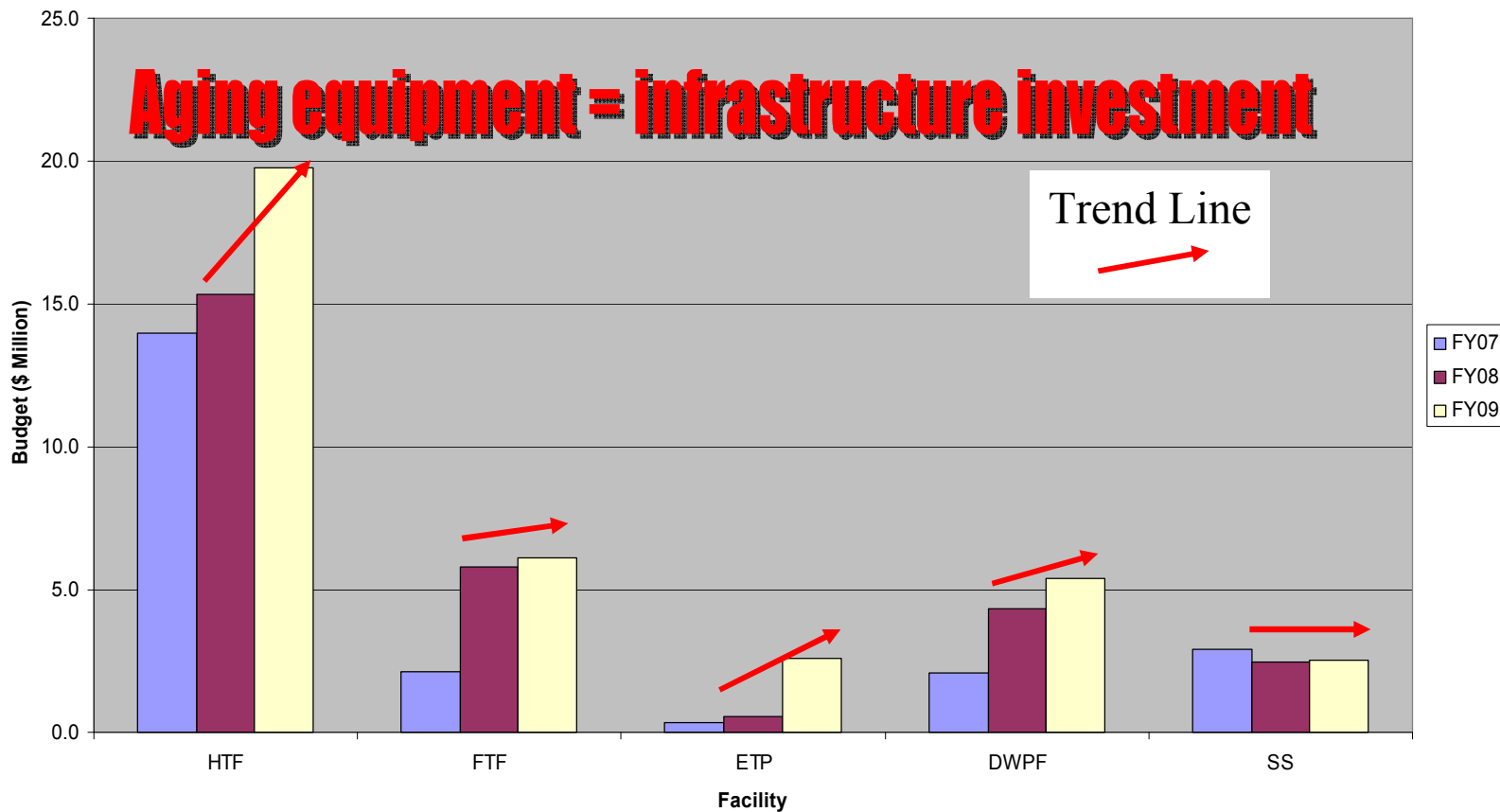
# Facility / Project Funding

LWO Funding Level



# Infrastructure Investment

Infrastructure Budget



# Major FY 09 Infrastructure Activities

- **HTF**
  - Slurry Pumps (40)
  - East Hill Steam / Air permanent modification
  - 2H Evaporator Controller Replacements
- **DWPF**
  - Transfer pumps
  - Ventilation / Building repairs
  - PLC availability
- **Saltstone**
  - Admix / Power permanent modifications
  - Plant air drier
  - Hopper cameras / flushing improvements
- **ETF**
  - Basin reline
  - H12 Outfall
  - Fire system upgrade
- **FTF**
  - 2F Evaporator steam / condensate
  - Cooling Tower Nalco system permanent modification
  - Annulus Preheaters
  - Process water supply (F Area)



# Summary

- Prevent program impacts through continued use of mature
  - Process Planning
  - Risk Management
- Utilize system health monitoring (including “Life Extension” teams) to systematically approach long range investment (expect investments to trend up)
- Continue “closure projects” to reduce infrastructure maintenance



# Acronyms

- HTF – H Tank Farm
- FTF – F Tank Farm
- ETF – Effluent Treatment Facility
- DWPF – Defense Waste Processing Facility
- HLW – High Level Waste
- LLW – Low Level Waste
- ISDP – Interim Salt Disposition Project
- SWPF – Salt Waste Processing Facility
- GWSB – Glass Waste Storage Building
- SFF – Saltstone Feed Facility
- SDF – Saltstone Disposal Facility

