

Pilgrim Decommissioning

Upcoming Milestones

Pilgrim Nuclear Decommissioning Citizens Advisory Panel Briefing
September 19, 2018

Contents

- Safety Commitment – (Topic)
- Decommissioning Process (10 CFR 50.82)
- Holtec Decommissioning Strategy
- Regulatory Submittals
- Decommissioning Planning (Current Activities)
- Summary

Safety Commitment – (Topic)



- Carry out safe operations through transitions.
- Commitment to continuing safe operations after LT

Decommissioning Process

(10 CFR 50.82)



NRC Evaluated Decommissioning Phases

NRC Requirements

- License Termination Plan required to be submitted to NRC no less than 2 years prior to requesting license termination
- Radiological decommissioning must be completed within 60 years

SAFSTOR

- Plant placed in a safe, stable condition
- Maintained until it is decontaminated to a level that permits radiological release
- 14 plants currently in SAFSTOR

DECON

- Equipment, structures, etc. are promptly removed or decontaminated to a level that permits radiological release
- 6 plants currently in DECON

Ref: NRC Decommissioning Presentation to Pilgrim NDCAP in October 2017

Holtec Decommissioning Strategy

Establish, Implement & Advance the Industry Decommissioning Baseline

"Fleet-Based" Approach

Based on nuclear industry fleet model

Drive lessons learned operating the fleet model

Maximize standardization

Drive technology innovation

Qualified and Experienced Personnel

Existing Holtec nuclear-experienced personnel

Additional nuclear plant experienced personnel

Partner with SNC-Lavalin

Integrate site organization at license transfer

Industry vendors

Procedures & Processes

Adopt NRC-approved site programs, processes and procedures

Maintain compliance with site license & NRC regulations

Maintain, protect & control spent nuclear fuel

Ensure environmental & personnel protection

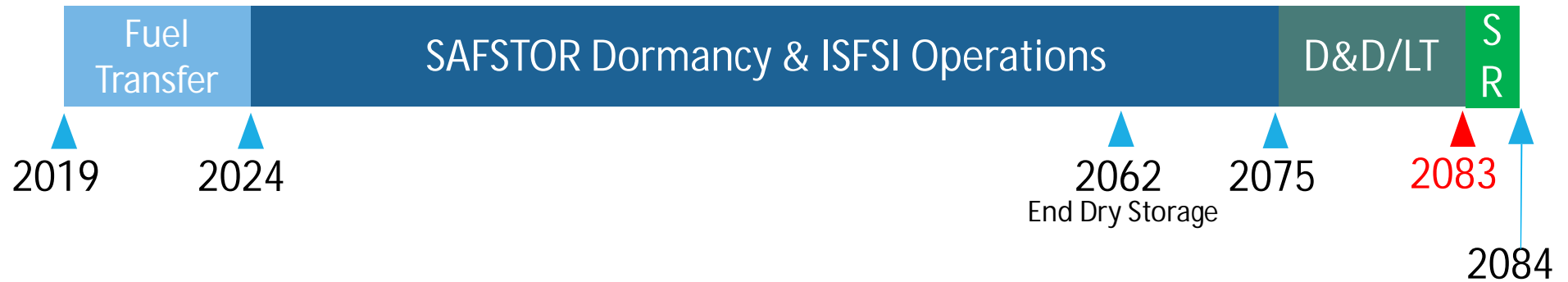
Benefits of Holtec Decommissioning Strategy



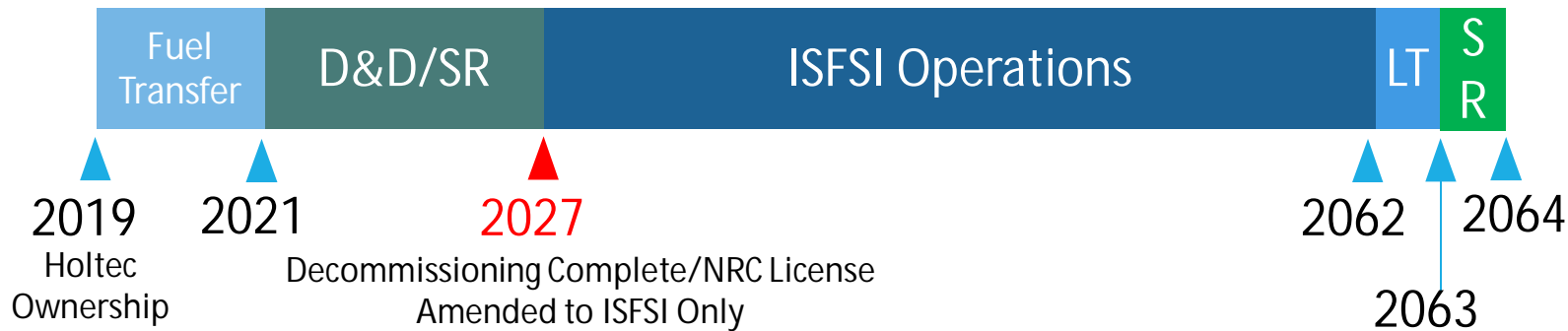
- Uses a qualified, experienced decommissioning team to manage and perform decommissioning and manage spent fuel, supported by incumbent Pilgrim employees
- Demonstrates sufficient decommissioning funding assurance and spent fuel management funding plan
- Accelerates the decommissioning and waste removal from site
- Targets NRC license amendment to ISFSI only within 8 years of shutdown
- Results in an earlier NRC final license termination

Holtec's Decommissioning Timeline

SAFSTOR Timeline



Holtec's Planned Accelerated DECON Timeline



Accelerates Decommissioning from 2083 to 2027

License Termination Complete – 2063 vs. 2083 *

* Assumes DOE Fuel Pick-Up Complete in 2062

Holtec Regulatory Submittals



Required Regulatory Submittals

- Required within 2 years of permanent shutdown:
 - Post-Shutdown Decommissioning Activities Report (PSDAR)
 - Site-Specific Decommissioning Cost Estimate (DCE)
 - Decommissioning Environmental Impact Evaluation
 - Spent Fuel Management Plan Update
- Exemption Request to permit NDT funding for spent fuel management and site restoration

Holtec Regulatory Submittals

- License Transfer Application (Jointly prepared and submitted with Entergy)
- Holtec's submittals reflecting DECON approach:
 - Post-Shutdown Decommissioning Activities Report (PSDAR)
 - Site-Specific Decommissioning Cost Estimate (DCE)
 - Decommissioning Environmental Impact Evaluation
 - Spent Fuel Management Plan Update
- Exemption Request to permit Pilgrim NDT funding for spent fuel management and site restoration

Next Steps: Regulatory Submittal Plan

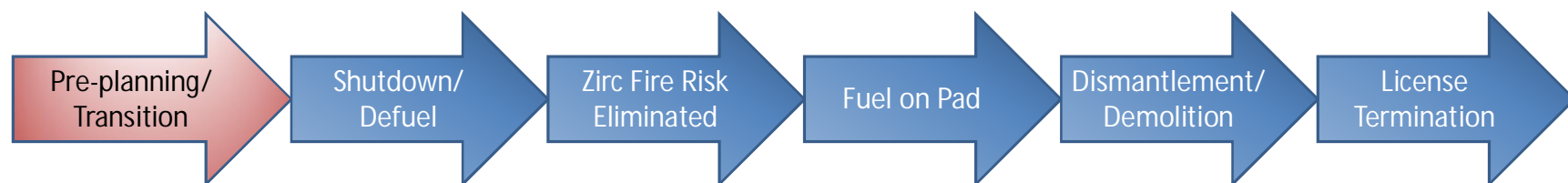
Activity	Target Date
License Transfer Application (joint submittal with Entergy)	October 2018
DECON PSDAR including site-specific DCE	October 2018
Revised Spent Fuel Management Plan	October 2018
Exemption request to use NDT funds for SFM and Site Restoration	October 2018
Request License Transfer Application approval	April 2019

LTA pre-submittal meeting scheduled for September 25th

Decommissioning Planning

(Current Activities)

- Integrating plant team (Holtec, CDI and Entergy)
- Applying the Holtec Governance Plan
- Identifying Risks & Mitigations
- Normalizing Holtec & CDI Decommissioning Planning/Project Management Team(s) with Entergy employees
- Establishing DECON Detailed Baseline Schedule and Cost Strategizing Fuel Management Strategy & ISFSI



Summary

- Planning will continue through to license transfer
- Filings covered herein as “Topics of Public Interest”
- Continued focus on safety and planning for future decommissioning milestones like:
 - ✔ Permanent shutdown/reactor permanently defueled
 - ✔ Zirc Fire risk reduction
 - ✔ Spent fuel moved from pool to pad
 - ✔ NRC License Termination (partial site release to ISFSI-only)
 - ✔ ISFSI Decommissioning/License Termination

Thank You