

Enclosure 2

FPL Presentation Slides



FPL

Fleet ISFSI Project Update

July 18, 2007

Objectives

- **Introduction**
- **Project principles**
- **ISFSI project status**
- **NRC demonstration dry run plans**
- **Project licensing (72.48s, CoC amdmts)**
- **Open Discussion**

Used Fuel Storage Status

	LOFCR Date	ISFSI	
		Start	Load
PSL Unit 1	2008	2006	2008
PSL Unit 2	2010	2006	2009
PTN Unit 3	2012	2009	2011
PTN Unit 4	2012	2009	2011
SBK	2009	2006	2008
DAEC	2011	done	2011

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Project Principles

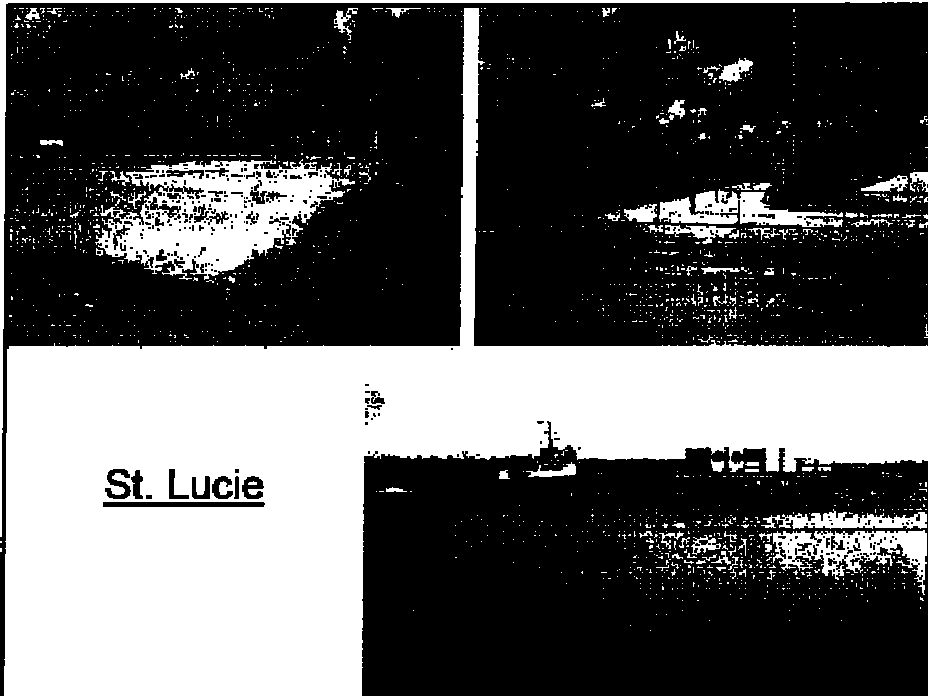
- Nuclear safety (cranes, flood levels)
- Maintain full core offload capability
- Personnel safety
- Avoid first-of-a-kind design
- Minimize licensing (GL, 72-1030)
- Follow precedent (benchmarks)
- Accommodate other dry storage systems
- Lessons learned (OE, experienced staff)
- Transparency (public mtgs, outreach)

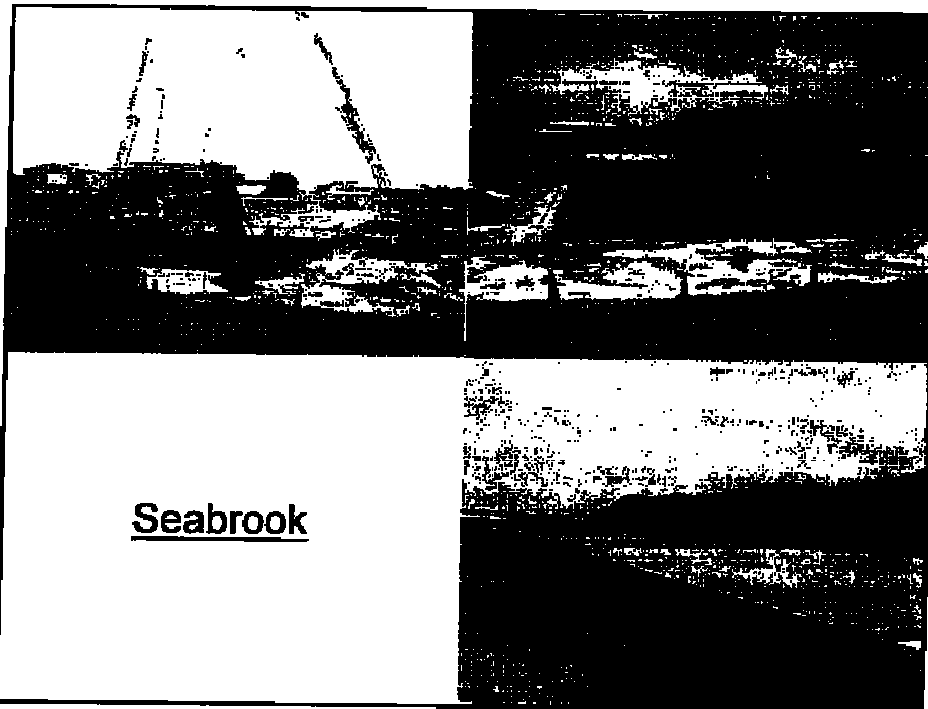
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Used Fuel Project Status

	St. Lucie	Seabrook	Turkey Pt
Cask Crane	√ 2004	Sep-07	2009
Concrete Pour	√ May-07	√ Jun-08	2010
Const. Complete	Nov-07	May-08	2011
NRC Dry Run	Feb-08	Jul-08	2011
Cask Load	Mar-08	Aug-08	2011

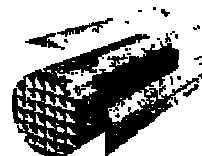
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TN Fabrication Progress

- Horizontal Storage Modules (HSMs)
 - Delivery in progress
- Dry Shielded Canisters (DSCs)
 - start shipping in October
- Transfer Cask (TC)
 - delivered to PSL in November



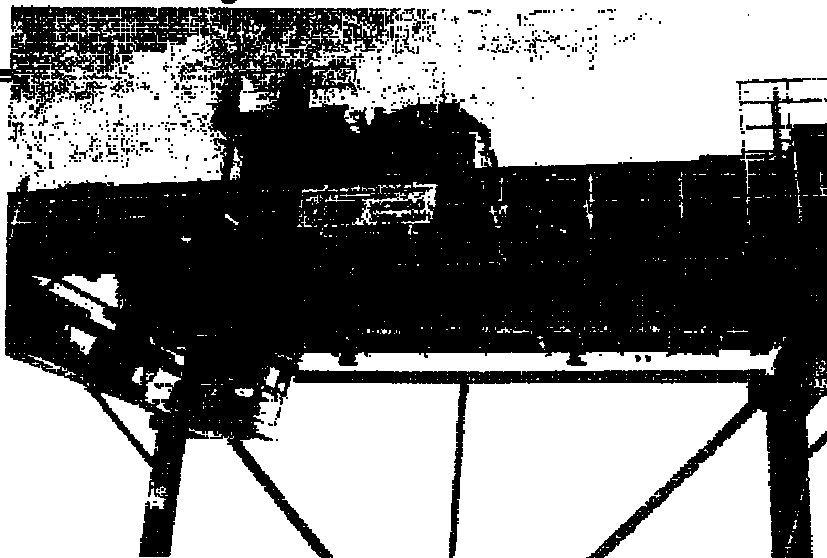
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FPL Fleet Crane Upgrades

- New ACECO single-failure-proof trolleys
- NUREG-0554 compliant
- NUREG-0612 compliant
- Previously-deployed design
- Capacities 125T or greater

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St. Lucie Unit 1
Single-Failure-Proof Cask Crane



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FPL Fleet Dry Runs

- **First campaign - St. Lucie then Seabrook**
- **Common leased equipment**
- **Common Pool-to-Pad vendor**
- **Portions of NRC demo dry run offsite**
 - **Welding & canister cutting**
- **Site-specific portions at FPL sites**

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St. Lucie Crane 50.59

- **License Amendments 190 & 134**
 - **Relocated TS to licensee-controlled UFSAR**
 - **Based on NUREG-0554 qualification**
 - **Elimination of cask drop accidents**
- **50.59 review**
 - **Cask drop accidents removed from UFSAR**
 - **Crane capacity increase to 150 tons**

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Seabrook Crane 50.59

- **50.59 review based on:**
 - **No crane Technical Specifications**
 - **No cask drop accident, no consequences**
 - **NUREG-0554 / 0612 compliant**
 - **Structure analysis methodology change**
 - **Previously-approved RG 1.92 methodology**
- **Concludes - no prior NRC approval required**

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Part 50 License Amendments

- **St. Lucie – None required**
 - **Unit 1 LCO 3.9.14 to be removed later**
- **Seabrook – None required**
- **Turkey Point cask crane amendments**
 - **Unit 3 & 4 LCO 3.9.12 (single element cask)**
 - **Increased crane capacity (105T – 130T)**
 - **Plan to submit LAR in early 2008**

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72.48 Evaluations by TN

- **Change: ~ 7" longer DSC and TC**
 - TC shielding is radially and longitudinally similar
 - Loading process unchanged
 - Re-evaluated using approved methods
 - Radiation dose rate bounded
- **Change: TC model no.**
 - Resolved (OS-187 Type 1)
- **Conclusion: No prior NRC approval reqd**
- **All 72.48s reviewed by FPL**

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72.48 Reviews by FPL

- **Appurtenances on HSM**
- **Site-specific loading processes**
 - Support interfaces between fuel handling building and cask handling facility, e.g., vacuum exhaust process, cask reflood process

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CoC 1030 Amendment 1

- **Scope**

	<u>Need date</u>	<u>For</u>
• Low ambient temp (-21F vs. -20F)	7/08	SBK
• CE 16x16 St. Lucie Unit 2 fuel type	3/09	PSL-2
• HSM temp monitoring surveillance	~	All
• Startup source assemblies	10/10	PSL-1
• CE 14 x 14 low enrichment fuel	10/10	PSL-1
• CE fuel >385 kg uranium	10/10	PSL-1

- **Schedule**

- Submit October 2007

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Part 72 Exemptions

- **St. Lucie Unit 1**
 - None expected
- **Seabrook**
 - Low ambient temperature

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CoC 1030 Amendment 2

- **Scope**
 - CE fuel inserts
 - **Schedule**
 - Submit after Amendment 1 approved
- Need date For
—— PSL-1

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NRC Activity

- **Initial contacts**
 - SFST, Region 1 & 2, Resident Inspectors
- **Routine updates**
- **ISFSI Security Orders received**
- **ISFSI pad inspections (Region 1, 2)**
- **Part 50 QA program use (10-11-06)**
- **Next notice – 90-day prior to cask loading**

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Conclusion

- Q&A
- NRC Expectations

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