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**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**  
WASHINGTON, D.C. 20555-0001

December 11, 1997

**MEMORANDUM TO:** Charles J. Haughney, Acting Director  
Spent Fuel Project Office  
Office of Nuclear Material Safety  
and Safeguards

**FROM:** Mark S. Delligatti, Senior Project Manager  
Spent Fuel Licensing Section  
Spent Fuel Project Office  
Office of Nuclear Material Safety  
and Safeguards *Mark S. Delligatti*

**SUBJECT:** SUMMARY OF THE DECEMBER 2, 1997, MEETING BETWEEN  
THE NUCLEAR REGULATORY COMMISSION STAFF AND  
SOUTHERN NUCLEAR OPERATING COMPANY

On December 2, 1997, the Nuclear Regulatory Commission staff met with representatives of Southern Nuclear Operating Company (SN) at NRC Headquarters in Rockville, Maryland, to discuss SN's plans for dry cask storage at its Edwin I. Hatch Nuclear Power Plant (Hatch). Representatives of Holtec International (Holtec), British Nuclear Fuels Ltd. (BNFL), Ihex, Westinghouse, and Bechtel also attended the meeting. An attendance list is included as Attachment 1. SN's briefing slides are included as Attachment 2. This meeting was noticed on November 18, 1997.

A representative of SN described its plans for dry cask storage at Hatch and its other nuclear plants. SN believes that applying for a general license will allow it to maintain its reactor licenses through the projected time when the U.S. Department of Energy (DOE) will take the waste, pursuant to contracts it established with the utilities in this regard. The NRC staff noted that SN is also a member of the Private Fuel Storage, LLC (PFS) consortium, which has applied for a license to build an independent spent fuel storage installation (ISFSI) on the reservation of the Skull Valley Band of Goshute Indians. SN affirmed its membership in the consortium and cited it as one reason for choosing the Holtec Hi-Storm dual-purpose cask system for use at the proposed Hatch ISFSI. The Holtec Hi-Storm is one of two designs that would be compatible with both DOE's repository design plans and PFS's storage plans.

The SN representative also discussed SN's spent fuel storage program organization, schedular concerns, and preparations made to undertake a dry cask storage program. The staff noted that Hatch personnel appeared to be taking appropriate preliminary steps to provide for a smooth implementation of its dry storage program. The NRC staff and SN representatives agreed to take all steps necessary to maintain good communication between the organizations and to ensure the appropriate NRC Region II personnel are involved in the process.

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Following the public meeting, a brief session was held to discuss proprietary information about specific technical aspects of the Holtec Hi-Storm cask system design. A representative of Holtec participated in the proprietary session.

Please contact me at 301-415-8581 if you wish to discuss the contents of the meeting summary.

- Attachments: 1. Attendance List
- 2. SN Slides

Dockets 72-1008  
 71-9261  
 72-1014

Distribution:

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C = COVER                      E = COVER & ENCLOSURE                      N = NO COPY  
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12/11/97 :dd

**ATTENDANCE LIST**  
**Meeting Between Holtec International and NRC Staff**  
**December 2, 1997**

<u>Name</u>	<u>Organization</u>
Mark S. Delligatti	NRC/NMSS/SFPO
Charles J. Haughney	NRC/NMSS/SFPO
David Tang	NRC/NMSS/SFPO
Marissa Bailey	NRC/NMSS/SFPO
Michael Waters	NRC/NMSS/SFPO
Eric Leeds	NRC/NMSS/SFPO
Sue Gagner	NRC/OP
Terry Sides	Southern Nuclear
Ben George	Southern Nuclear
Christen Howard	Southern Nuclear
David Bland	Southern Nuclear
J. C. Vance, III	Southern Nuclear
Gary Tjersland	Holtec
Rita Bowser	Westinghouse
Steve Schulin	IBEX
Alice Carson	Bechtel
Colin Jones	BNFL

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# Plant E. I. Hatch Spent Fuel Storage

ATTACHMENT 2

Presentation to  
U. S. NRC  
Spent Fuel Project Office





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# Agenda

- Introductions Bland
- Meeting Objectives Bland
- Hatch Status Bland
- Project Activities Bland
- Licensing Options Howard
- Hatch Review Priority Howard
- Discussion All
  
- Closed Session



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# Meeting Objectives

- Provide status of Hatch fuel storage situation
- Discuss SNC activities to date and anticipated licensing approach
- Brief NRC on selected vendor status
- Develop future action plans



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# Hatch Status

- Operating License
  - Unit 1 - 1974
  - Unit 2 - 1978
  
- Individual spent fuel pools
  - common floor
  - transfer canal between
  - function as one pool



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# Spent Fuel Pool

- 6026 licensed locations
- 5946 locations installed
- 1251 remaining for storage
- Major milestones
  - 2 core reserve loss - Fall 1998
  - single core reserve loss - Fall 2000
  - pool filled - Spring 2003
- Rack addition limited benefit





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# Project Activities

- Major considerations
  - industry experience - lessons learned
  - quality assurance oversight
  - dual purpose container
  - single core offload



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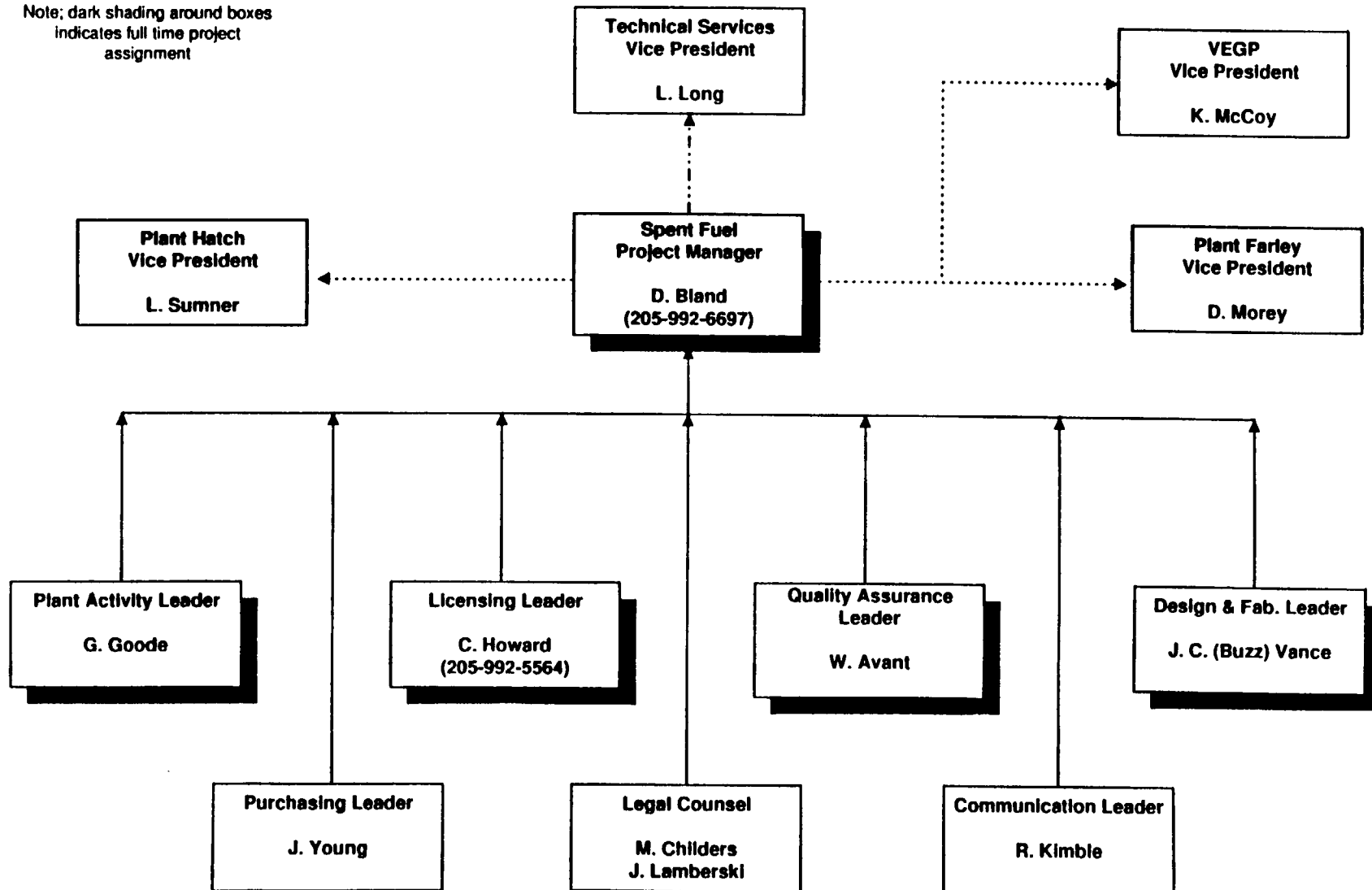
# Project Resources

- Company resources
  - Executive management oversight
  - Project management
  - Quality assurance
  - Licensing expertise
  - Technical expertise
  - Operations expertise
  
- Third party inspectors



# Project Organization

Note; dark shading around boxes indicates full time project assignment





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# Activities

- SFPO briefing -- September 4, 1997
- Cask vendor procurement
  - Vendor proposal request issued -- August 22, 1997
  - Offers received -- October 3, 1997
  - Holtec International negotiations
  - Contract signatures by January 1998



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# Licensing Options

- 10 CFR 72
  - general versus site specific
- Selection --- General License
  - flexibility
  - simplicity
  - timeliness
- Selection considerations
  - 10 CFR 50 licensee
  - DOE performance expectations



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# Hatch Priority

- NRC review priority
  - 1 - safety issues
  - 2 - operating plant needs
  - 3 - shutdown plant needs
  - 4 - applications w/o utility sponsors
  
- Hatch needs
  - ideal loading - 24 months away
  - deadline - 31 months away



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# Vendor Status

- Hi-Star 100
  - docketed - March 1994
  - 2nd RAI - November 1997
  - supported by Dresden
- Hi-Storm 100
  - docketed - October 1995
  - Hi-Star RAIs incorporated into Hi-Storm
  - NRC technical review not yet started
  - supported by Hatch



# **NRC Review & Oversight**

- **Definitive need for NRC involvement**
- **SNC/NRC interaction**
  - “no surprise” philosophy
  - Holtec correspondence distribution to SNC
  - organizational interaction
- **NRC inspection activities**
  - vendor/fabricator
  - Hatch site preparation
- **NRC recommendations**