ENERGY*SOLUTIONS*
Spent Fuel Division

April 10, 2007
SFD/NRC 07-005
Docket No. 72-1007
File No. WEP-09

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001

Subject: **Transmittal of the VSC-24 Ventilated Storage Cask System Final Safety Analysis Report (FSAR) Biennial Update**

References:
1) VSC-24 Ventilated Storage Cask System Final Safety Analysis Report, Revision 7.
2) Letter from Energy*Solutions* SFD to U.S. Nuclear Regulatory Commission, Subject: Biennial 72.48 Report for the Ventilated Storage Cask (VSC-24) System, Letterbook No. SFD/NRC 07-002, March 22, 2007.

Dear Sir or Madam:

In accordance with the requirements of 10 CFR 72.248, Energy*Solutions* Spent Fuel Division, Inc. (Energy*Solutions* SFD) has updated the VSC-24 Ventilated Storage Cask System Final Safety Analysis Report (FSAR) (Reference 1) to incorporate all changes to the implemented within the previous 24 month period. The changes included in the FSAR update were implemented in accordance with the Energy*Solutions* SFD Quality Assurance Program. A summary of the changes is attached. As stated in the Reference 2 letter, no changes have been made to the VSC-24 Ventilated Storage Cask System under the provisions of 10 CFR 72.48 within the previous 24-month period that have not been previously submitted to NRC.

Enclosed are two copies of the updated revision of the VSC-24 Ventilated Storage Cask System FSAR. In accordance with the requirements of 10 CFR 72.248(c), the transmittal includes a complete set of replacement pages, with changes indicated in the margin, and a list of effective pages.

Should you or any member of your staff have questions, please contact the undersigned at (408) 558-3509.

Sincerely,

Steven E. Sisley
Licensing/Regulatory Compliance Manager

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408.558.3500 • Fax: 408.558.3518 • www.energysolutions-sfd.com

NM5501

Attachment: List of Changes for VSC-24 Ventilated Storage Cask System FSAR, Revision 7.

Enclosure: Replacement pages for "VSC-24 Ventilated Storage Cask System Final Safety Analysis Report," Revision 7 (2 copies)

cc) Jill Caverly, SFST w/ Attachment and Enclosure

CERTIFICATION

Steven E. Sisley states that he is the Licensing/Regulatory Compliance Manager at Energy*Solutions* Spent Fuel Division, Inc. and that he is authorized on the part of said company to sign and file with the Nuclear Regulatory Commission the information attached hereto. Mr. Sisley certifies that the information accurately presents changes made since the previous revision of the VSC-24 Ventilated Storage Cask System Final Safety Analysis Report.

Steven E. Sisley
Licensing/Regulatory Compliance Manager
Energy*Solutions* Spent Fuel Division, Inc.

List of Changes for VSC-24 Ventilated Storage Cask System FSAR, Revision 7

Section	Page(s)	Description
1.3	1-8	Editorial correction.
13.0	13-1	Editorial correction.

Docket 72-1007
Revision 7

Final Safety Analysis Report
For the
VSC-24 Ventilated Storage Cask System

Prepared by:

Energy*Solutions* Spent Fuel Division, Inc.
Campbell, California

April 2007

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2. Load fuel assemblies in the MSB.
3. Place shielding lid on MSB and use transfer cask to remove MSB from fuel pool.
4. Close MSB. (See discussion in Chapter 8.)
5. Transfer MSB to concrete cask.
6. Close VCC.
7. Move VCC to storage location via truck trailer.
8. Position VCC at storage site via hydraulic roller skid.

Safe storage of the irradiated fuel in the VSC-24 System is provided by the removal of decay heat by convection, radiation, and conduction from the fuel rods to the MSB shell wall and the subsequent natural convection in the MSB-VCC annulus. Radiation exposure to site personnel is limited by the steel and concrete shielding. VSC-24 System operation is totally passive. No active systems are required.

The handling equipment required to implement the VSC-24 System is site-specific. This equipment includes an overhead handling crane at the reactor fuel pool, one transfer cask, one hydraulic roller skid, one yoke, and one transfer trailer. All equipment is designed and tested to applicable government and industrial standards and will be maintained and operated to the owner's specifications.

1.2.3 CASK CONTENTS

The fuel to be stored in the VSC-24 System is described in Section 2.1 of this FSAR. In addition to the fuel, the MSB will contain a helium cover gas.

1.3 IDENTIFICATION OF AGENTS AND CONTRACTORS

The owner of the design and Certificate of Compliance for the VSC-24 Ventilated Storage System is Energy*Solutions* Spent Fuel Division, Inc. (Energy*Solutions* SFD). Energy*Solutions* SFD is a wholly owned subsidiary of Energy*Solutions* LLC. All design and specification activities including quality assurance services continue to be performed by Energy*Solutions* SFD. Fabrication of the steel components (MSB, MTC) will be by a qualified steel fabrication shop chosen through a competitive bidding process. Fabrication of the VCC will be performed by a local concrete contractor, also chosen by the bid process. Energy*Solutions* SFD will retain full responsibility and control over all design, analysis, and fabrication activities.

Additional agents/contractors that may build and deliver VSC-24 systems and components are Wisconsin Electric Power Company of Milwaukee, Wisconsin. Wisconsin Electric Power Company will only build the VSC-24 systems and components for their own use and will build them under their own 10 CFR 50 Appendix B QA Program. Energy*Solutions* SFD will build casks and components for other users under the Manual of Quality Assurance referenced in Chapter 13 of this FSAR.

13.0 QUALITY ASSURANCE

Energy*Solutions* SFD will apply its Manual of Quality Assurance as approved by the Nuclear Regulatory Commission for Subpart G of the 10CFR Part 72.

Docket 72-1007
Revision 7

Final Safety Analysis Report
For the
VSC-24 Ventilated Storage Cask System

Prepared by:

Energy*Solutions* Spent Fuel Division, Inc.
Campbell, California

April 2007

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2. Load fuel assemblies in the MSB.
3. Place shielding lid on MSB and use transfer cask to remove MSB from fuel pool.
4. Close MSB. (See discussion in Chapter 8.)
5. Transfer MSB to concrete cask.
6. Close VCC.
7. Move VCC to storage location via truck trailer.
8. Position VCC at storage site via hydraulic roller skid.

Safe storage of the irradiated fuel in the VSC-24 System is provided by the removal of decay heat by convection, radiation, and conduction from the fuel rods to the MSB shell wall and the subsequent natural convection in the MSB-VCC annulus. Radiation exposure to site personnel is limited by the steel and concrete shielding. VSC-24 System operation is totally passive. No active systems are required.

The handling equipment required to implement the VSC-24 System is site-specific. This equipment includes an overhead handling crane at the reactor fuel pool, one transfer cask, one hydraulic roller skid, one yoke, and one transfer trailer. All equipment is designed and tested to applicable government and industrial standards and will be maintained and operated to the owner's specifications.

1.2.3 CASK CONTENTS

The fuel to be stored in the VSC-24 System is described in Section 2.1 of this FSAR. In addition to the fuel, the MSB will contain a helium cover gas.

1.3 IDENTIFICATION OF AGENTS AND CONTRACTORS

The owner of the design and Certificate of Compliance for the VSC-24 Ventilated Storage System is Energy*Solutions* Spent Fuel Division, Inc. (Energy*Solutions* SFD). Energy*Solutions* SFD is a wholly owned subsidiary of Energy*Solutions* LLC. All design and specification activities including quality assurance services continue to be performed by Energy*Solutions* SFD. Fabrication of the steel components (MSB, MTC) will be by a qualified steel fabrication shop chosen through a competitive bidding process. Fabrication of the VCC will be performed by a local concrete contractor, also chosen by the bid process. Energy*Solutions* SFD will retain full responsibility and control over all design, analysis, and fabrication activities.

Additional agents/contractors that may build and deliver VSC-24 systems and components are Wisconsin Electric Power Company of Milwaukee, Wisconsin. Wisconsin Electric Power Company will only build the VSC-24 systems and components for their own use and will build them under their own 10 CFR 50 Appendix B QA Program. Energy*Solutions* SFD will build casks and components for other users under the Manual of Quality Assurance referenced in Chapter 13 of this FSAR.

13.0 QUALITY ASSURANCE

Energy*Solutions* SFD will apply its Manual of Quality Assurance as approved by the Nuclear Regulatory Commission for Subpart G of the 10CFR Part 72.