



System Energy Resources, Inc.
1340 Echelon Parkway
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CNRO-2005-00055

October 3, 2005

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

DOCKET: 52-009

SUBJECT: Grand Gulf Early Site Permit Application Revision 2 (TAC NO. MC 1378)

- REFERENCE:
1. System Energy Resources, Inc. (SERI) letter to USNRC – Early Site Permit Application (CNRO-2003-00054), dated October 16, 2003.
 2. SERI letter to USNRC – Early Site Permit - Grand Gulf Early Site Permit Application Revision 1 (TAC NO. MC 1378), CNRO-2005-00037, dated July 4, 2005
 3. SERI letter to USNRC – Early Site Permit – Response to Request for Additional Information Regarding the Grand Gulf Early Site Permit Draft Safety Evaluation Report Open Item 2.3-5 (TAC NO. MC 1378), CNRO-2005-00045, dated September 3, 2005
 4. SERI letter to USNRC – Early Site Permit - Grand Gulf Early Site Permit Application Revision 1 Corrections (TAC NO. MC 1378), CNRO-2005-00054, dated September 16, 2005

CONTACT:

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DOCUMENT COMPONENTS:

One (1) CD-ROM is included in this submittal. The CD-ROM contains the following thirty-one (31) files:

- 02 001_Cover and TOC_R2.pdf, 90 KB, publicly available
- 03 002_Part 1_Admin Info_R2.pdf, 120 KB, publicly available
- 04A 003_Part 2_SSAR_TOC_R2.pdf, 130 KB, publicly available
- 04B 004_Part 2_SSAR_Ch. 1_R2.pdf, 1241 KB, publicly available
- 04C 005_Part 2_SSAR_Ch. 2_Text-Tables_R2.pdf, 2781 KB, publicly available
- 04D 006_Part 2_SSAR_Ch. 2_Figs. S1-S3_R2.pdf, 22406 KB, publicly available
- 04E 007_Part 2_SSAR_Ch. 2_Figs. S4_R2.pdf, 32540 KB, publicly available
- 04F 008_Part 2_SSAR_Ch. 2_Figs. 1-22_S5_R2.pdf, 46282 KB, publicly available
- 04G 009_Part 2_SSAR_Ch. 2_Figs. 23-38_S5_R2.pdf, 33218 KB, publicly available
- 04H 010_Part 2_SSAR_Ch. 2_Figs. 39-78_S5_R2.pdf, 46624 KB, publicly available
- 04I 011_Part 2_SSAR_Ch. 2_Figs. 79-100_S5_R2.pdf, 27699 KB, publicly available
- 04J 012_Part 2_SSAR_Ch. 3_R2.pdf, 272 KB, publicly available
- 05A 013_Part 3_ER_TOC_R2.pdf, 164 KB, publicly available
- 05B 014_Part 3_ER_Ch. 1_R2.pdf, 149 KB, publicly available
- 05C 015_Part 3_ER_Ch. 2_Text-Tables_R2.pdf, 1954 KB, publicly available
- 05D 016_Part 3_ER_Ch. 2_Figs. S1-S2_R2.pdf, 30592 KB, publicly available
- 05E 017_Part 3_ER_Ch. 2_Figs. 1-19_S3_R2.pdf, 41488 KB, publicly available
- 05F 018_Part 3_ER_Ch. 2_Figs. 20-24_S3_R2.pdf, 22020 KB, publicly available
- 05G 019_Part 3_ER_Ch. 2_Figs. 25-29_S3_R2.pdf, 39892 KB, publicly available
- 05H 020_Part 3_ER_Ch. 2_Figs. S4_R2.pdf, 27120 KB, publicly available
- 05I 021_Part 3_ER_Ch. 2_Figs. S5_S7_S8_R2.pdf, 32685 KB, publicly available
- 05J 022_Part 3_ER_Ch. 3_R2.pdf, 300 KB, publicly available
- 05K 023_Part 3_ER_Ch. 4_R2.pdf, 11698 KB, publicly available
- 05L 024_Part 3_ER_Ch. 5_R2.pdf, 9955 KB, publicly available
- 05M 025_Part 3_ER_Ch. 6_R2.pdf, 4054 KB, publicly available
- 05N 026_Part 3_ER_Ch. 7_R2.pdf, 356 KB, publicly available
- 05O 027_Part 3_ER_Ch. 8_R2.pdf, 70 KB, publicly available
- 05P 028_Part 3_ER_Ch. 9_R2.pdf, 270 KB, publicly available
- 05Q 029_Part 3_ER_Ch. 10_R2.pdf, 134 KB, publicly available
- 06 030_Part 4_EPI_R2.pdf, 27504 KB, publicly available
- 07 031_Part 5_Programs and Plans_R2.pdf, 61KB, publicly available

Enclosed is Revision 2 to the Grand Gulf Early Site Permit (ESP) application. Revision 2 updates the application to incorporate SERI's responses to NRC's requests for additional information in References 3 and 4. Attachment 1 (GGNS ESP Application Revision 2 Change Summary) provides additional detail.

Should you have any questions, please contact me.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on October 3, 2005.

Sincerely,

A handwritten signature in black ink, appearing to read 'George A. Zinke', with a stylized flourish at the end.

George A. Zinke
Project Manager
System Energy Resources Inc.

Attachment: GGNS ESP Application Revision 2 Change Summary

Enclosure: one CD-ROM

cc: Mr. R. K. Anand, USNRC/NRR/DRIP/RNRP
Mr. C. Brandt, PNL
Ms. D. Curran, Harmon, Curran, Spielberg, & Eisenberg, L.L.P.
Mr. W. A. Eaton (ECH) (w/o enclosure)
Mr. B. S. Mallett, Administrator, USNRC/RIV
Mr. J. H. Wilson, USNRC/NRR/DRIP/RLEP

Resident Inspectors' Office: GGNS

GGNS ESP APPLICATION - REVISION 2 CHANGE SUMMARY

NOTE: The enclosed CD-ROM contains the complete GGNS ESP Application, Revision 2. Individual page revision control is maintained within the application; therefore, the revision number on individual pages is only updated when an individual page has changes.

COVER AND TABLE OF CONTENTS

Revision 2 Change Summary is included.

PART 1, ADMINISTRATIVE INFORMATION

This change summary indicates the revision status for each text section of Administrative Information revised.

<u>SECTION</u>	<u>REVISION</u>	<u>REFERENCE LETTER</u>
1.0	1	
2.0	2	NA - Revised to remove overall revision in Section 2.2.7.
3.0	1	

PART 2, SITE SAFETY ANALYSIS REPORT

This change summary indicates the revision status for each SSAR text section and includes a list of tables and figures revised. The SERI letter to the NRC associated with the changes (RAI responses, etc.) is indicated.

<u>CHAPTER</u>	<u>REVISION</u>	<u>REFERENCE LETTER</u>
1.0	1	
2.0	1	
3.0	1	

SSAR TABLE	Rev.	LETTER DATE	REF. LETTER
2.3-143	2	9/3/2005	CNRO-2005-00045

SSAR FIGURE	Rev.	LETTER DATE	REF. LETTER

PART 3, ENVIRONMENTAL REPORT

This change summary indicates the revision status for each ER text section and includes a list of tables and figures revised. The SERI letter to the NRC associated with the changes (RAI responses, etc.) is indicated.

GGNS ESP APPLICATION - REVISION 2 CHANGE SUMMARY

<u>CHAPTER</u>	<u>REVISION</u>	<u>REFERENCE LETTER</u>
1.0	1	
2.0	1	
3.0	1	
4.0	1	
5.0	1	
6.0	1	
7.0	1	
8.0	1	
9.0	1	
10.0	1	
APPENDIX 2.4A	1	

<u>ER TABLE</u>	<u>Rev.</u>	<u>LETTER DATE</u>	<u>REF. LETTER</u>
2.7-117	2	9/3/2005	CNRO-2005-00045

<u>ER FIGURE</u>	<u>Rev.</u>	<u>LETTER DATE</u>	<u>REF. LETTER</u>

PART 4, EMERGENCY PLANNING INFORMATION

This change summary indicates the revision status for each Emergency Planning Information text section and includes a list of tables and figures revised. The SERI letter to the NRC associated with the changes (RAI responses, etc.) is indicated.

<u>CHAPTER</u>	<u>REVISION</u>	<u>REFERENCE LETTER</u>
1.0	1	
2.0	1	
3.0	1	
4.0	1	
APPENDIX A	1	

<u>EPI TABLE</u>	<u>Rev.</u>	<u>LETTER DATE</u>	<u>REF. LETTER</u>
2-1	2	9/16/2005	CNRO-2005-00054
2-2	2	9/16/2005	CNRO-2005-00054
4-1	2	9/16/2005	CNRO-2005-00054

<u>EPI FIGURE</u>	<u>Rev.</u>	<u>LETTER DATE</u>	<u>REF. LETTER</u>
3-1	2	9/16/2005	CNRO-2005-00054

PART 5, PROGRAMS AND PLANS

Part 5 of the application had no changes for Revision 2.