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UNITED STATES OF AMERICA NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

In the matter of)	
)	
SYSTEM ENERGY RESOURCES, INC.)	Docket No. 52-009-ESP
)	
(Early Site Permit for Grand Gulf ESP Site))	ASLBP No. 04-823-03-ESP

PRE-FILED TESTIMONY OF JOHN G. CESARE, GEORGE A. ZINKE, KYLE H. TURNER, AND MICHAEL D. BOURGEOIS ON BEHALF OF APPLICANT CONCERNING HEARING ISSUE E (ALTERNATIVE ANALYSES)

- Q1. Please state your name, current position, and by whom you are employed.
- A1. My name is John G. Cesare ("JGC"). I am employed as Lead Licensing Project Engineer for ENERCON Services, Inc.
- A1. My name is George A. Zinke ("GAZ"). I am employed as the Project Manager, Business Development, for Entergy Nuclear, Inc.
- A1. My name is Kyle H. Turner ("KHT"). I am employed as the Chief Executive Officer of McCallum-Turner, Inc.
- A1. My name is Michael D. Bourgeois ("MDB"). I am employed as the Manager of Project Management for Entergy Nuclear, Inc.
 - **Q2.** On whose behalf are you testifying in this proceeding?
- A2. (JGC, GAZ, KHT, MDB) We are providing testimony on behalf of the applicant in this early site permit ("ESP") proceeding, System Energy Resources, Inc. ("SERI" or the "Applicant").
 - **Q3.** Please describe your professional qualifications.

A3. (JGC) I hold a B.S. degree in Chemical Engineering and an M.S. degree in Nuclear Engineering from Mississippi State University. I have over 24 years of experience in the nuclear power industry, including experience in the areas of new reactor, operational and decommissioning licensing; special projects; organizational assessment; and management support. This includes ten years of supervisory and management experience at a boiling water reactor ("BWR") facility. A full statement of my professional qualifications is contained in SERI Exhibit 1.

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- A3. (GAZ) I hold a B.S. degree in Electrical Engineering from Wichita State University. I have over 30 years of technical and management experience in the commercial nuclear power industry. Since joining Entergy Nuclear, Inc. as a Project Manager in 1997, I have focused principally on business development matters involving the company's Grand Gulf Nuclear Station ("GGNS") Early Site Permit and Combined Operating License ("COL") Development projects, as well as the NuStart COL Development Project. Prior to that, I held various managerial and supervisory positions at the Maine Yankee and GGNS facilities, where I was responsible for overseeing various licensing, system engineering, quality assurance, worker concerns, emergency preparedness, and environmental programs related to facility operation and decommissioning. A full statement of my professional qualifications is contained in SERI Exhibit 1.
- A3. (KHT) I hold a B.S. degree in Electrical Engineering for the Georgia Institute of Technology, as well as Ph. D. and M.S. degrees in Nuclear Engineering, also from the Georgia Institute of Technology. I have more than 30 years experience providing technical, business, and management consulting services to commercial industry and government. My management responsibilities have ranged in budget up to \$16 million and 200 professional staff. I am Principal

author for the industry ESP Siting Guide, ESP Model Program Plan and COL Model Program Plan for nuclear power plants, and am currently managing an Electric Power Research Institute ("EPRI") project to develop a model Program Plan for overall nuclear power plant development under Part 52 regulations. Since 2001, I have directed site selection studies for ten nuclear power plant sites for COL and ESP applications (Duke Power, Entergy Nuclear, Florida Power & Light, Progress Energy (2), NuStart, South Carolina Electric & Gas, and two confidential clients). A full statement of my professional qualifications is contained in SERI Exhibit 1.

- A3. (MDB) I hold a B.S. degree in Nuclear Engineering Technology from Thomas Edison State College. I have over forty years of commercial and military nuclear experience. My experience includes project and outage management, nuclear reactor operation, and work control.
- **Q4.** Please describe your professional responsibilities with regard to the Grand Gulf ESP application, including the basis for your familiarity with that application.
- A4. (JGC) As part of a larger ENERCON team, I served as a consultant to SERI and supported the development of the ESP application that seeks to demonstrate site suitability for a new commercial nuclear power plant at the GGNS site. As the lead licensing project engineer, I coordinated and supported the development of the safety analyses, environmental report, and emergency planning assessment for the ESP application. I also participated in site safety and environmental visits, the development of applicant responses to Nuclear Regulatory Commission ("NRC") Staff requests for additional information ("RAIs"), and the Advisory Committee on Reactor Safeguards ("ACRS") review process. My work also involved active participation in the industry ESP task force and numerous licensing-related interactions with the NRC Staff.

- A4. (GAZ) As the Project Manager, Business Development, for Entergy Nuclear, Inc., I have two different but complementary roles. Namely, I am both the NuStart Licensing Lead and the Entergy Nuclear New Plant Licensing Lead. In the former capacity, I am responsible for regulatory affairs associated with the NuStart COL Development Project. Entergy is a member of NuStart Energy Development, LLC, a consortium formed in 2004 that is seeking to facilitate the licensing, construction, and operation of new, advanced nuclear power plants in the United States. In the latter capacity, I am responsible for regulatory affairs and quality assurance associated with the Entergy COL Development Process. The acquisition of an ESP for the GGNS site is a preliminary and integral step in the Entergy COL Development Process. As such, I have overall responsibility for regulatory and engineering matters related to the Grand Gulf ESP application.
- A4. (KHT) I was the Principal in charge of work performed by McCallum-Turner to support SERI in the site selection study for the Grand Gulf ESP. McCallum-Turner developed site evaluation criteria and worked with Entergy staff to evaluate the Entergy existing nuclear power plant sites in the Northeast and in the Southeast for potential location of a new nuclear power plant; this work involved performing and reviewing site evaluations, development of criterion weight factors and developing composite site suitability evaluations for use in comparing sites. McCallum-Turner applied the site selection criteria established in the EPRI siting guide to information gathered from existing data sources for the proposed sites. McCallum-Turner then facilitated overall ranking of the candidate sites to identify a preferred site (GGN) for the ESP.
- A4. (MDB) As ESP Project Manager, I was the project lead for the GGNS ESP site selection process.

- Q5. In an Order (Requesting Specific Summary Exhibits and Supplemental Briefs; Identifying Hearing Issues and Requesting Evidentiary Presentations on Specific Issues) of November 6, 2006, the Atomic Safety and Licensing Board ("Board") identified a series of hearing issues on which the Board has required testimony and presentations from the NRC Staff. The Staff submitted its prefiled testimony on November 20, 2006. *See* NRC Staff Pre-Filed Testimony Concerning Hearing Issue E: "Alternative Analyses" (Nov. 20, 2006). Have you reviewed the Staff's testimony on Hearing Issue E?
 - A5. (JGC, GAZ, KHT, MDB) Yes.
- Q6. During the October 31, 2006, pre-hearing conference, the Board expressly authorized the Applicant, as appropriate, to submit supplemental pre-filed testimony for the limited purpose of clarifying and/or providing additional factual information that may inform the Board's mandatory hearing review and decision-making process. *See* Transcript of October 31, 2006, Prehearing Conference at 8. Do you wish to provide any such supplemental testimony at this time?
- **A6.** (MDB) Yes. I am offering supplemental testimony with respect to Answer 6 of the Staff's pre-filed testimony.
- A6. (JGC, GAZ, KHT) No. We are prepared, however, to respond orally to any questions germane to Hearing Issue E that the Board may ask of us during the mandatory hearing.
- Q7. Turning to Answer 6 of the Staff's pre-filed testimony, in narrowing the sites down to Grand Gulf, did Entergy Nuclear eliminate Fitzpatrick, River Bend, and Pilgrim from all future consideration for possible ESP purposes outside the scope of this proceeding?

- A7. (MDB) No. By way of clarification, in conducting its alternative site screening process, Entergy Nuclear excluded those sites from further consideration as part of this ESP effort, but not from all possible future consideration for additional ESPs.
 - Q7. Does this conclude your prefiled testimony on Hearing Issue E?
 - **A7.** (MDB) Yes.

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CERTIFICATE OF SERVICE

I hereby certify that copies of System Energy Resources Inc. Prefiled Testimony Concerning Hearing Issue [A Through I], with associated exhibits, in the above captioned proceeding have been served as shown below by deposit in the United States Mail, first class, this 22nd day of November, 2006. Additional service has also been made this same day by electronic mail as shown below.

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