

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

DOCKETED
USNRC

May 16, 2007 (4:05pm)

OFFICE OF SECRETARY
RULEMAKINGS AND
ADJUDICATIONS STAFF

In the Matter of)
)
DOMINION NUCLEAR NORTH ANNA, LLC)
)
(Early Site Permit for North Anna ESP Site))

Docket No. 52-008-ESP

AFFIDAVIT OF GOUTAM BAGCHI CONCERNING NRC STAFF RESPONSE
TO THE LICENSING BOARD'S SAFETY-RELATED QUESTIONS

I, Goutam Bagchi, do hereby state as follows:

1. I am a Senior Level Advisor In the Nuclear Regulatory Commission's ("NRC"), Office of New Reactors ("NRO"), Division of Site and Environmental Reviews ("DSEER"). A statement of my professional qualifications is attached.
2. As part of the NRC staff's health and safety review of the North Anna ESP application, documented in NUREG-1835, the "Safety Evaluation Report for an Early Site Permit (ESP) at the North Anna ESP Site," September 2005, and in Supplement 1 to NUREG-1835, I reviewed the aspects of the Applicant's Site Safety Analysis Report that concerned hydrology.
3. I am responsible for those responses to Board questions (or portions of questions) in Attachment A to the "NRC Staff Legal Brief in Response to the Licensing Board's Safety-Related Questions" for which I am listed as the author.
4. I attest to the accuracy of those statements, support them as my own, and endorse their introduction into the record of this proceeding. I declare under penalty of perjury that those statements, and my statements in this affidavit, are true and correct to the best of my knowledge, information, and belief.

U.S. NUCLEAR REGULATORY COMMISSION

In the Matter of Dominion Nuclear North Anna, LLC

Docket No. 52-008-ESP Official Exhibit No. 9

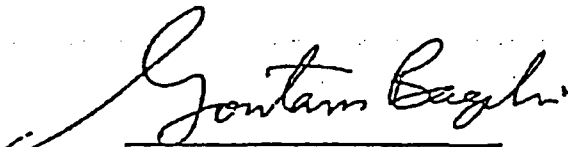
OFFERED by: Applicant/Licensee Intervenor _____

NRC Staff Other _____

IDENTIFIED on 4/10/07 Witness/Panel _____

Action Taken ADMITTED REJECTED WITHDRAWN

Reporter/Clerk JTC


Goutam Bagchi

Dominion North Anna, LLC.

Docket No. 52-008-ESP

Staff Exhibit 9

TOTAL P.20

STATEMENT OF PROFESSIONAL QUALIFICATIONS OF GOUTAM BAGCHI

CURRENT POSITION

Senior Level Advisor for Civil Engineering and Geoscience, Division of Site and Environmental Reviews, Office of New Reactors
United States Nuclear Regulatory Commission

EDUCATION

M.S. Mechanical Engineering, Northeastern University, Boston, MA, 1974
M.Sc. Structural Engineering, London University, London, United Kingdom, 1964
B.E. Civil Engineering, Calcutta University, India, 1959

PROFESSIONAL

American Society of Civil Engineers: Fellow, Member ASCE Nuclear Standards Committee
American Society of Mechanical Engineers: Member
Earthquake Engineering Research Institute: Member
Professional Engineer: Massachusetts, Pennsylvania and New York

QUALIFICATIONS

Mr. Goutam Bagchi has over 47 years of professional work experience of which 39 years is in the design, evaluation, inspection, regulation of nuclear power plant structures, systems and components. He is currently a Senior Level Advisor in the Division of Engineering, NRR. He provides authoritative technical advice and assistance to the Director, Division of Engineering, as the Senior Level Advisor and Lead Coordinator on a broad variety of technical and regulatory issues. He serves as the agency's authority in performing and coordinating the evaluation and resolution of technical and regulatory issues related to structural mechanics involving structures, seismic geosciences and civil engineering areas in nuclear power plants under licensing review related to design certification and early site permit applications, under construction, in operation, under license renewal or in decommissioning.

Mr. Bagchi joined the NRC in 1975 as a technical reviewer. In 1976 he became a senior structural engineer. In 1978 he became the Branch Chief of the Structural Research Branch in the Office of Research. He was instrumental in developing the research program on containment capacity through testing of large scale containment structures to failure. In 1987 he joined the Senior Executive Service and became the Branch Chief for Structural and Civil Engineering Branch, NRR, DE. In 1999 he joined the Senior Level Service and has since served in DE, NRR. He was instrumental in the development of the endorsement of containment inspection requirements in 10 CFR Part 50.55a and maintenance of safety-related structures within the scope of the maintenance rule, 10 CFR 50.65.

In 1987 and 1997, he and his staff conducted the standard plant certification reviews for ABWR, CE System 80*, AP600, and AP 1000 in civil, mechanical and materials engineering areas. As a senior advisor he was involved in the discussions with stake holders on issues related to early site permit applications. He provided input for the ESP template, and the