

Manhattan  
College

MANHATTAN COLLEGE PARKWAY  
RIVERDALE, NEW YORK 10471  
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MECHANICAL ENGINEERING DEPARTMENT

50-199

June 6, 1990

Theodore S. Michaels, Project Manager  
Standardization and Non-Power Reactor Directorate  
Division of Reactor Projects III, IV, V and Special Projects  
Office of Nuclear Reactor Regulations  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

SUBJECT: Personnel Change in Position of Chief Reactor Supervisor at MCZPR

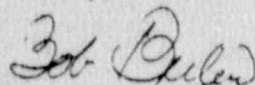
Dear Ted:

As indicated in our conversation of June 4, 1990, Dr. Jih-Perng Hu, the Chief Reactor Supervisor, has resigned from the College and no longer fills this position. Dr William Duggan has been hired as a full time faculty member and Chief Reactor Supervisor, starting with the beginning of the Fall 1990 semester in August. Dr. Duggan has a doctorate in nuclear engineering from Rensselaer Polytechnic Institute, has previously operated research reactors, and comes to us with extensive nuclear experience in the consulting field. His resume is attached.

The fuel elements were removed from the reactor prior to Dr. Hu's departure, and have been placed in their storage containers. The reactor system is currently undergoing maintenance and will remain in lay-up until Dr. Duggan is licensed as an SRO. We are attempting to schedule the SRO test for shortly after he joins the faculty. The delivery of the fuel elements is now tentatively scheduled for the early fall (another delay from the prior estimate). Should the new fuel elements arrive prior to Dr. Duggan receiving his SRO license, they will be stored until his license is granted, at which time the loading of the new core will be accomplished.

I will continue to update you on the status of the program.

Sincerely,



Dr. Robert E. Berlin  
Reactor Administrator

Attachment

cc: Dr. V. Antonetti

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## WILLIAM PATRICK DUGGAN

3 Tor View Avenue  
New City, New York 10956  
914-639-1180

### EXPERIENCE

Dames & Moore  
Pearl River, New York

September, 1987 - Present

Senior Engineer, Project Manager

Responsibilities: Management and technical analysis of environmental and radiological engineering projects; Project Manager and technical coordinator for LLRW disposal facility licensing program; Manager of LLRW technical assistance contract with New York Energy Authority; Safety analysis, performance evaluation, and dose assessment for the West Valley Demonstration Project. Business responsibilities include identification and development of clients, and preparation of proposals.

Rensselaer Polytechnic Institute  
Troy, New York

September, 1988 - Present

Adjunct Assistant Professor, Department of Nuclear Engineering

Responsibilities: Lecture to Radioactive Waste Management course and advise students and faculty involved in waste and environmental research.

May, 1984 - August, 1987

Research Assistant - Fusion Engineering Program

Responsibilities: Design and analysis of blanket and divertor systems for fusion reactors using the novel Integrated-Blanket Coil concept. As a member of the design team for the TITAN project, I collaborated with UCLA, Los Alamos Lab, the Fusion Engineering Design Center, and GA Technologies.

Sept, 1983 - May, 1984

Instructor - School of Engineering (Staff Appointment)

Responsibilities: Preparation and teaching of two laboratory courses at the senior and graduate levels involving use of the sub-critical reactor facility, the TI University Board microcomputer, and various data acquisition systems, including CAMAC.

Stone and Webster Engineering Corporation  
Boston, Massachusetts

Feb, 1982 - Sept, 1983

Career Development Engineer - Nuclear Technology Division

Responsibilities: Analysis and evaluation of engineered safeguard systems including containment temperature and pressure effects; determination of non-accident power plant radiation source terms and evaluation of shielding requirements. Duties required significant use of computer codes.

# WILLIAM P. DUGGAN

## EDUCATION

Rensselaer Polytechnic Institute

Ph. D. Nuclear Engineering and Science  
Master of Science Nuclear Engineering  
Bachelor of Science Nuclear Engineering  
Minor: Public Policy Studies

Doctoral research on fusion reactor design, including thermal hydraulic, electromagnetic, mechanical, and nuclear parameters. Master's thesis on thermal hydraulic performance of a spent fuel shipping cask. Course work included fluids, thermodynamics, heat transfer, and power plant systems.

## PUBLICATIONS

"Applications of the Integrated-Blanket-Coil Concept to the Compact Reversed-Field Pinch Reactor" Presented at the Seventh Topical Meeting on the Technology of Fusion Energy, June, 1986

"Applications of the IBC Concept to the RFP Fusion Reactor" Presented at the 1986 ANS Eastern Regional Student Conference, April, 1986

## PROFESSIONAL and CIVIC

Engineer-in-Training, Commonwealth of Massachusetts  
Member, American Nuclear Society  
Member, Health Physics Society  
Member, Sigma Xi  
Director, Rensselaer Alumni Association