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JGK	✓	JAH	
GWR	✓	GIN	✓
JWC		HP	
ABD		HUS	✓
GF	✓		
RFH		File	✓

March 26, 1980

Mr. Victor Stello
Nuclear Regulatory Commission
Division of Inspection and
Enforcement
Washington, D.C. 20555

In re the matter of Marble Hill
STN Nos. 50-546 & 547

Dear Mr. Stello:

Please find enclosed a copy of Marion Hudgins' statement presented at your meeting with Public Service Indiana on March 25, 1980 in Madison, Indiana. Also find enclosed a copy of the Professional Vita of Michael A. Cassaro, Ph.D.

This writer apologizes for not having copies available for you at the meeting.

Thank you.

Very truly yours,

Thomas M. Dattilo

Thomas M. Dattilo

TMD/mjb
Enclosures

cc: Mr. James Keppler ✓
Nuclear Regulatory Commission
Region III
799 Roosevelt Road
Glen Ellyn, Illinois 60137

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October 1, 1974

Ph.D. degree in Civil Engineering, University of California, Berkeley, 1967
M.S. degree in Civil Engineering, University of Florida, 1967

Ph.D. dissertation: "The Design of Reinforced Concrete Structures"

Publications and Grants:

<u>DESCRIPTION</u>	<u>DATE</u>
Journal Paper (Engr. Soc.)	1968
Conference (Civil Engr. Soc.)	1968
Journal XI (Science Res.)	
President, Elect. Univ. of Lou. Chapter	1971-72
President, Univ. of Lou. Chapter	1972-73
Registered Engineer	
States of Florida and Kentucky	

Research activities and/or grants received in the last five years:
Analysis of Rock Systems, Kentucky Dept. of Highways, 1970-1972

Employment Record:

1. Professor of Civil Engineering, University of Louisville, 1973-Present
2. Asst. Professor of Civil Engineering, University of Florida, 1967-1970
3. The Preston Corp., Corpus Christi, Texas, 1965-1967

Discipline-oriented public service activities:

<u>DESCRIPTION</u>	<u>DATE</u>
Consultant to Louisville Times for tornado damage	1974
Consultant to Jefferson County for Analysis of Security Glass at County Jail	1976

- Member Education Committee - American Concrete Inst.
(Sponsor Education Programs in Reinforced Concrete)
- (a) Chairman, (E-704) Precast Subcommittee 1971-72
 - (b) Member Design Subcommittee (E-702) 1972-Present
- Member Kentucky Concrete Conference 1970-Present

Discipline-oriented public service activities: (continued)

<u>Description</u>	<u>Date</u>
Directed short courses:	
(a) Advanced Design of Concrete Structures and Foundations	1971
(b) General Analysis of Slab Structures and Design of Foundation Materials	1974
P.E. Licence Review	

For the last five years list bibliography of major publications, scholarly achievements, and theses directed:

Publications

1. "Determination of Seismic Response for Precast-Prestressed Concrete Structures," Proceedings, Fifth Symposium on Earthquake Engineering, November 1974, Roorkee, India, Vol. 1, pp. 381-388 (with M. Paz).
2. "Seismic Response for Self-Strained Structures," Bulletin of the Seismological Society of America, Vol. 64, No. 6, pp. 1809-1824, December 1974 (with M. Paz and S. N. Stewart).
3. "Solution of Problems in Mechanics Through the Expediency of Computerized Complex Analysis," Computers in Education Division, OFASEE Transactions, July 1974, pp. 105-116 (with M. Paz).
4. "Evolutionary Trends for Development of Programming Skills in Mechanics Courses," Annual Meeting of American Society of Engineering Education, Rensselaer Polytechnic Institute, Troy, June 19, 1974 (with M. Paz).
5. "Analysis of Continuous Beams on Discrete Elastic Supports by the Five Moment Equation," International Journal of Computers and Structures, Vol. 4, No. 5, pp. 1605-1623, October 1974 (with M. Paz).
6. "Behavior of Segmental Plates for Buildings Constructed from Precast Concrete Elements," presented at Structural Engineering Meeting, American Society of Civil Engineers, Cincinnati, Ohio, April 1974.
7. "Three Moment Equation Analysis Program for Continuous Beams," Transactions of the Computers in Education Division of ASEE, Vol. V, No. 7, July 1973, pp. 93-100 (with M. Paz).
8. "Computer Analysis of Noise Levels for Highway Traffic," Proceedings, Third Annual Environmental Engineering and Science Conference, University of Louisville, Louisville, Kentucky, March 1973 (with M. Wissa).
9. "Use of Municipal Incinerator Residue in Concrete Masonry Construction," presented at the Annual Meeting of American Society of Civil Engineers, April 1975, New Orleans, Louisiana.

Publications (continued)

10. "The Five Moment Equation for Vibration of Continuous Beams," Proceedings, Fifth Canadian Congress of Applied Mechanics, CANCAM 75, pp. 325-326, May 1974 (with M. Paz).
11. "Analysis of Space Frameworks Containing Curved Beams," The Shock and Vibration Bulletin, Bulletin 46, August 1976 (with M. Paz).

Theses Directed

1. Diep, Nguyen, "Computer Analysis of Simply Supported Rectangular Plates," Master of Engineering, 1972.
2. Thomas, Joseph, "Load Distribution in a Model Precast Prestressed Multi-Lane Bridge," Master of Engineering, 1972.
3. Wissa, Maher, "Computer Analysis of Noise Levels for Highway Traffic," Master of Science, 1972.
4. Chandra-Chamnong, Vuddhiprasan, "Study of Thin Concrete Shells," Master of Science, 1973.
5. Gagel, Richard and Strasser, Thomas, "Development of a General Analysis Procedure for Plates Using the Method of Finite Differences," Master of Engineering, 1973.
6. Untrakul, Kamphol and Rugsasook, Samart, "Experimental Analysis of Segmental Slabs," Master of Engineering, 1973.
7. Kerdlappol, Manope, "Development of Equations for Determining Effective Prestress Loads in Post-Tensioned Concrete Structures," Master of Science, 1974.
8. McGuire, Patrick, "Repeated Shear Loading of Reinforced Concrete Member Connections," Master of Engineering, 1974.
9. Seigle, Bruce, "Utilization of Incinerator Residue in Concrete," Master of Engineering, 1974.
10. Faulkner, Richard, "Performance Characteristics of Precast Segmental Slabs," Master of Engineering, 1974.
11. Heinrichs, Charles, "Performance Characteristics of Precast Segmental Slabs," Master of Engineering, 1974.
12. Sukarom, Vichai, "The Analysis of Cable Supported Structures by the Five Moment Equation," Master of Science, 1974.
13. Gomolplitinant, Supot, "Use of Transfer Matrix to Analyze the General Curved Beam in Space," Master of Science, 1974.
14. Garber, David and Miles, Kimrick, "Influence of Repeated Loads on Shear-Friction Strength," Master of Engineering, 1975.

Theses Directed (continued)

15. Grant, Charles F., "Performance Characteristics of Incinerator Residue in Concrete Masonry," Master of Engineering, 1975.
16. Hannaman, Jimmie, "Bond Characteristics of Bars Bent at 90° Around Transverse Reinforcement," Master of Engineering, 1975.
17. MacPherran, Scott, "Study of Design Characteristics for Precast Segmental Plates," Master of Engineering, 1975.
18. Slesser, Carl, "Limit Design Procedure for Reinforced Concrete Plane," Master of Engineering, 1975.
19. Niruntasokrat, "Stiff Analysis of a Reinforced Concrete Beam Joint Under Critical Shear Cyclic Loading," Master of Science, 1975.
20. McClellan, Byron, "An Analysis of Sheetpile and Cell Fill Stresses in a Circular Cofferdam," Master of Science, 1976.
21. Ashki, Abdollah, "A Study of Concrete Masonry Made from Incinerator Residue," Master of Engineering, 1977.
22. Kissel, Louis, "Analysis and Design of Cable Supported Towers," Master of Engineering, 1977.
23. McGraw, Robert, "Development of a Masonry Block Mix Using Incinerator Residue," Master of Engineering, 1978.
24. Ansari-pour, Jafar, "Shear in Concrete Under Repeated Load," Master of Engineering, 1979.
25. Orangi, Masood, "Utilization of Incinerator Residue in the Manufacturing of Concrete Block," Master of Engineering, 1979.

... at Marble Hill. I worked as a quality control inspector for Lyman Industries of Louisville, Kentucky from 1976 through August 1, 1978. From September 1, 1978 through August 1, 1979, I worked as a quality control inspector for Lyman Industries Corporation, a subcontractor at Marble Hill. My duties as a quality control inspector at Marble Hill included inspecting safety category materials and components and performing tests of the same safety components.

Through my term at Marble Hill, I was not impressed with the qualifications of the quality control people who worked for Lyman and PSI.

I worked as a Level II inspector under another level II supervisor who had less experience than I. I personally observed improper storage of safety category materials and components, namely: large diameter safety valves, some of which were motorized. I further observed from January 17, 1979 through February 19, 1979, the specific failure of temperature readings in Area 45 Marble Hill warehouse that was used to store safety category materials and components under a controlled environment; the environment was not controlled according to the standards of ANSI.

In my capacity as a quality control inspector, I personally advised my supervisor at Cherne that Area 45 warehouse did not meet the requirements of ANSI and that the safety category materials and components stored therein were in danger of moisture, heat and rust deterioration. I further personally observed improper storage of valves located outside Area 45 warehouse at Marble Hill and advised my supervisor of same.

At no time was I aware that my responsibility regarding the ~~storage of equipment~~ ^{storage of equipment} ~~was~~ taken care of. It is my opinion that equipment stored in Area 49 warehouse or the ~~warehouse~~ ^{warehouse} is nothing more valuable than salvage due to the fact that I am saying that there may be grave problems regarding the ~~equipment~~ ^{equipment} and/or related safety components that were under the jurisdiction of Cherne Construction.

I feel that certain documentation of supervised work at Cherne may need to be observed more closely.

Until it can be ascertained to the level of utmost confidence by the NRC, it is my opinion that the March 5, 1980 request of NRC to receipt inspection of safety category material and components is presently presumptuous and subject to a much further and intensive inquisition.