

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

85 FEB -8 11:00

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

In the Matter of)

THE CLEVELAND ELECTRIC)
ILLUMINATING COMPANY)

Docket Nos. 50-440
50-441

(Perry Nuclear Power Plant,)
Units 1 and 2))

AFFIDAVIT OF DENNIS S. MILETI
ON CONTENTION Q

County of Denver)

) ss.

State of Colorado)

DENNIS S. MILETI, being duly sworn, deposes and says:

1. I am presently an Associate Professor in the Department of Sociology and Director of the Hazards Assessment Laboratory at Colorado State University, specializing in those areas of study dealing with complex organizations, hazards, policy and methods (with a particular emphasis on public emergency response). A current statement of my professional qualifications and experience is attached hereto. My business address is Department of Sociology, Colorado State University, Fort Collins, Colorado 80523. I have personal knowledge of the matters stated herein and believe them to be true and correct. I make this affidavit in response to Contention Q --

specifically with respect to the reliability of school bus drivers during an emergency, and parents' cooperation with plans for the direct evacuation of school children from the schools.

I. School Bus Drivers

2. Human response to emergencies has been a topic of investigation by social scientists for over three decades. This research history has covered many aspects of human behavior; and an important component of this work has been to investigate the behavior of people with roles of responsibility in emergency response. The record is clear with respect to the response of emergency workers in times of emergency. I am confident that the principles of emergency worker response discussed below -- well-established through decades of research and investigation -- would be applicable in the event of an emergency at a nuclear facility such as the Perry plant.

3. The notion of "role conflict" is a concept in the social sciences based on the following ideas. Individuals in society play many different roles, and each role has certain rights and obligations in particular social relationships. Because each person plays many different roles, the rights and obligations of one role may be consistent with those of another role, or irrelevant to or in "conflict" with another role. The concept of role "conflict" is generally used uncritically, as

an either/or matter in which a person is forced to choose between two or more roles. "Conflict" implies equally weighted contradictory alternatives, requiring a person to choose one role to play while abandoning another. This condition is rarely, if ever, found in actual social life. A more accurate term is role "strain," which denotes the difficulty felt by an individual in fulfilling different role obligations at the same time. Role "strain" is preferable because it describes more accurately the actual conditions that people experience in all of social life, not just those of emergencies. Role "strain" is something with which people cope in most social situations and is a permanent feature of social life.

4. It is important to distinguish between role strain, which is a mental state (a feeling of concern and unease), and role abandonment, which is a type of behavior. Thus, while it is to be expected that emergency workers would experience some role strain during an emergency at Perry, this does not mean that they would abandon their emergency roles because of it. Research conducted on the actual behavior of people with defined organizational responsibilities in emergencies has established that emergency workers who have a clear idea of their emergency roles do their emergency jobs. There are several reasons why this is the case.

5. The absence of evidence of persons abandoning emergency roles over a wide range of emergency events in the past

illustrates that there are certain structural changes in the community during emergencies that reduce role strain. Role obligations are based on values and, during non-emergency "normal" times, people expend effort on achieving many different values, some potentially contradictory. An emergency changes this process dramatically. Some values become clearly more important than others, and people experiencing the emergency generally agree on the few that take precedence over all others. This phenomenon is the development of what has been called the "emergency consensus." In this consensus, people become altruistic, and protection of the community becomes the highest priority. Other values become drastically less important. This temporary shift in values simplifies the role obligations of people, and greatly reduces the potential for role strain. People are "released" to concentrate on the critical tasks of the emergency. The value priorities in an emergency thus simplify, rather than aggravate, role strain for community members. Those with identified emergency roles are therefore able to fulfill them, rather than ignore the emergency in order to tend to the obligations of other roles.

6. People who know in advance of an emergency that they have emergency roles to play (should one ever occur) are able to make informal family contingency plans in advance of the emergency. For example, families can make plans in advance of an emergency to ensure that -- in an emergency -- the

non-emergency-worker spouse (or other appropriate person) will take the appropriate measures to protect the family unit in the absence of the emergency worker. Similar pre-emergency plans can be made to provide for the continuation throughout an emergency of child care arrangements in place at the time any emergency occurs. Such pre-emergency planning can also provide for the assumption by relatives, friends or neighbors of other usual responsibilities of the emergency worker. Indeed, in past emergencies, even in the absence of such contingency plans, the role obligations of emergency workers toward intimates (including family) have generally been shifted and assumed by other non-emergency-worker members of the intimate group, thereby freeing the emergency worker to fulfill assigned emergency roles.

7. As discussed above, role strain in emergency workers during emergencies between emergency role obligations and family (or intimate group) obligations is not an either/or situation. That is, emergency workers are not required to choose between mutually exclusive roles. Role strain between family and organizational responsibilities would be a mental process in an emergency; it would not result in role abandonment or interfere with the ability of emergency organizations to do their emergency work. Emergency workers would need to feel assured that their families can tend to their own safety. However, historically, in past emergencies, emergency workers have

performed their emergency roles at the same time they have sought assurance of the safety of their families through ad hoc, informal channels.

8. Finally, emergency workers fulfill their role obligations in emergencies because of the cohesiveness of the work group. People with knowledge of their emergency roles do not wish to let their co-workers down. In emergencies, the need to have emergency work performed is obvious, and the emergency role takes on added importance. The sense of obligation to perform that role is strengthened, and the sense of obligation to the community as a whole is strengthened.

9. The potential of role strain for reducing the effectiveness of emergency response is minimized by the organizational and occupational assignment of emergency responsibility. Assigning clear responsibility creates clear direction for behavior and ensures that the work of emergency response organizations is fulfilled. Further, assigning clear responsibility makes it clear to emergency workers that they have responsibilities to their coworkers. Failing to report for work would increase the burden on others. In addition, advance knowledge of one's emergency role allows the emergency worker to arrange to avoid role "conflict" and indeed to fill the role of family member more effectively than if he or she were not an emergency worker. The worker can preplan for family safety in an emergency. Also, because of organizational ties, the emergency

worker is more likely to receive information about the nature of the emergency and the nature of the risk, which allows the worker to fulfill family obligations more effectively.

10. Emergency worker performance levels are ensured by training. Training provides the context for those individuals to preplan activities that allow them to implement their emergency roles, such as providing back-up and supplementary options for continuing family responsibility.

In particular:

- (1) Training gives the emergency worker a clear understanding of what is expected of him or her -- of what his or her emergency role is.
- (2) Training makes the worker aware of the advantages of making family contingency plans in advance of an emergency.
- (3) Training makes the worker aware that the community and the emergency worker's coworkers depend on him or her.
- (4) Training informs the worker about the nature of the radiation risk and about the procedures to be used in dealing with that risk, such as dosimetry.

11. By providing the worker with means to assess the risk to which he is exposed, the availability of dosimetry (to allow the worker to continuously monitor personal exposure) provides

further assurance that emergency workers will fulfill their functions in a nuclear emergency.

12. In sum, emergency workers who know of their emergency roles in advance of an emergency perform their emergency functions in the event of an emergency. I do not know of even a single case in the history of emergencies in this nation where the ability of an emergency response organization to function was impaired by a failure of personnel to report for duty. There are, however, many cases where people who were not advised of their roles in advance of an emergency have carried out other duties before volunteering for emergency work. This simply underscores the importance of advising emergency workers of their roles in advance of an emergency.

13. The general principles of emergency worker response discussed above are as applicable to school bus drivers as to any other emergency workers. School bus drivers are not unique in the sense that their behavior in an emergency would differ in any way from the behavior of others with known emergency roles. Indeed, the research record strongly supports the assignment to personnel who regularly drive school buses of the responsibility for driving them in an evacuation. Emergency response is facilitated when plans are predicated on pre-existing roles, rather than on artificial social structures constructed solely for emergency response use. For example, since the school bus drivers here at issue regularly drive the

buses, they are most likely to be familiar with the features and operation of the buses.^{1/} (This does not mean that others could not drive the buses in an emergency; good planning and additional training would enable the use of personnel other than those who regularly drive buses.)

14. It is conceivable that some few school bus drivers might be found who would swear in advance that they would not drive their buses to assist with school evacuation in an emergency. (This would also be the case in the vicinity of other nuclear reactors besides Perry, I am sure.) But I have no doubt that in a real radiological emergency, the drivers generally would perform their assigned functions.^{2/}

15. In conclusion, a large body of historical evidence shows that the functioning of emergency organizations is not hampered by failure of emergency workers to perform their jobs.

^{1/} Since those who would drive in an emergency are all licensed school bus drivers, their training on their position role in the plan need not cover how to drive their school buses, but can instead focus on the location of the specific receiving schools (the reception centers for school children) and the evacuation route to those schools.

^{2/} Due to the formation of the "emergency consensus" described in paragraph 5, above, in actual emergencies, people conform to pro-social behavior patterns and would assume their roles under the emergency plan, even where they have earlier asserted that they would not do so. Thus, the assertions of individual workers (e.g., in a pre-emergency survey) that they would not respond in an emergency are inherently unreliable as indicators of actual emergency worker response rates.

In spite of role "strain," such workers perform effectively. Moreover, training for emergency work can reduce role strain and enhance the effective performance of emergency workers. While role abandonment may be theoretically possible, it is certainly extremely rare, and consequently it does not reduce organizational effectiveness. These general principles of emergency worker response are as applicable to school bus drivers as to any other group of emergency workers.^{3/} The principle of adhering to pre-existing roles in an emergency (to the extent possible) supports assigning to persons who regularly drive school buses the responsibility to drive them in an evacuation. As with other emergency workers, the assurance that school bus drivers will adequately discharge their emergency duties rests on appropriate training (as well as the availability of dosimetry).

II. Parents' Response

16. The decades of research on human response to emergencies have also established what an American public does and does not do during emergencies. In addition, and perhaps more important, it has established why some people behave in one way during an emergency, while others do not. The "why" of

^{3/} Indeed, the typical problem in emergencies is not that too few workers report for duty, but rather that too many persons volunteer.

public response is important because it can be considered in the development of emergency plans to help ensure public safety in future emergencies. Similarly, historical research has established that some aspects of human behavior in emergencies cannot be changed. With this knowledge, emergency plans can be developed assuming these behavioral patterns rather than trying to change them. This historical research is the basis for my confidence that -- provided that parents are informed at the time of an emergency of the direct, safe evacuation of their school children -- few, if any, parents would insist upon picking up their children at school within the EPZ. And, even if some parents should attempt to pick up their children at school in the event of an emergency at Perry, the parents would conduct themselves in an orderly manner.

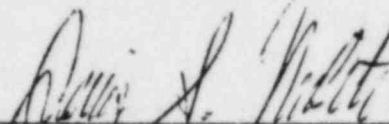
17. The "thin veneer" of civilization is not stripped away from people in an emergency; in fact, it is temporarily strengthened. The character of the human spirit is strong in the face of an emergency, and people generally "rise to the occasion" to help themselves and others. The public does not act in irrational, antisocial, or selfish ways, but rather behaves in ways that are altruistic and beneficial for the community as a whole. Thus, contrary to the widespread myth in American culture, order is not replaced with chaos in an emergency. Therefore, even assuming parents did attempt to pick up their children at school in the event of an emergency at Perry, their

behavior would not be chaotic. However, it is quite unlikely that parents would insist upon picking up their children under such circumstances.

18. Despite the general principles of public altruism in emergencies, in past emergencies, some members of the public have engaged in what casual observers of public emergency response might label as inappropriate or irrational behavior (like picking up their children at school). However, behavior such as that does not always occur in emergencies; and sufficient knowledge exists about why some people behave in such a manner and others do not to enable emergency plans to minimize such counterproductive behavior to levels which do not detract from public safety in an emergency and, perhaps, even to eliminate much of such behavior entirely.

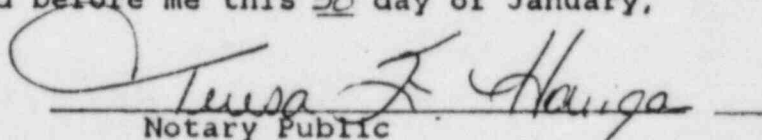
19. The key to minimizing confusion and uncertainty for parents regarding their school children in an emergency is planning. First, pre-emergency public education should acquaint parents with the concept of the direct evacuation of students from their schools to safety in an emergency. (The specific details of such possible protective action -- e.g., where children would be taken -- are not essential in pre-emergency information.) Second, should such an evacuation of schools ever be required, the emergency information broadcast to the public at the time of the evacuation should clearly explain that schools are being evacuated directly to receiving

schools (i.e., that students are not being sent home), and should specifically identify which schools are being evacuated and the receiving school to which each school within the EPZ is being evacuated. Finally, the information broadcast should inform parents that they can pick up their children at the appropriate receiving school outside the EPZ. Provided that the emergency public information broadcast at the time of an emergency advised parents of the direct, safe evacuation of their school children, few -- if any -- parents would insist upon picking up their children at school within the EPZ.



Dennis S. Milet

Sworn to and subscribed before me this 30th day of January, 1985.


Notary Public

My Commission expires: My Commission Expires Aug. 31, 1987
J. L. Cullen, Denver, CO 80220

ACADEMIC VITA OF DENNIS S. MILETI
August, 1984

PERSONAL

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EDUCATION

University of Colorado, Boulder: PhD, Sociology, 1974
California State University, Los Angeles: MA, Sociology, 1971
University of California, Los Angeles: BA, Sociology, 1968

SPECIALIZATIONS

Complex Organizations, Applied (Hazards and Policy), Methods

APPOINTMENTS

1984-date	Director, Hazards Assessment Laboratory, Colorado State University
1984-date	Committee on Natural Disasters, National Research Council of the National Academy of Sciences
1981-year	Policy Analyst, Seismic Safety Commission, State of California, Sacramento (on leave from university)
1978-date	Associate Professor, Department of Sociology, Colorado State University, Fort Collins
1975-year	Visiting Assistant Professor, University of Southern California, Graduate School of Public Administration, Intensive Seminar Program
1978-1979	Invited Instructor, American Association for the Advancement of Science, Chautauqa Short Course Program
1974-1978	Assistant Professor, Department of Sociology, Colorado State University, Fort Collins
1971-1972	Instructor, Department of Sociology, Univer- sity of Colorado, Boulder

AWARDS

1983-1984	Alumni Honor Faculty Award, Colorado State University Alumni Association for excellence in teaching, research and service
1981-year	Cited in Outstanding Young Men of America
1978-1977	Cited for excellence in teaching, research and service by the Dean, College of Arts, Humanities and Social Sciences

MEMBERSHIPS

American Sociological Association, International Sociologi-
cal Association, Pacific Sociological Association, Midwest
Sociological Society, American Association for the Advance-
ment of Science, Earthquake Engineering Research Institute,
Western Social Science Association, National Coordinating
Council on Emergency Management

RESEARCH GRANTS AND CONTRACTS

1984-date	Associate Investigator, "State-of-the-Art Assessment: Evacuation," subcontract from Oak Ridge National Laboratories for the Federal Emergency Management Agency.
1984-date	Associate Investigator, "International Study of Disaster Impact on Domestic Assets," subcontract from the University of Georgia for the National Science Foundation.
1983-1984	Principal Investigator, "Research and Applications for Emergency Preparedness," contract for Long Island Lighting Company.
1983-1984	Principal Investigator, "Intended and Forgotten Audiences for Emergency Warnings," quick-response grant from the Natural Hazards Research Applications and Information Center.
1982-1983	Associate Investigator, "Organizational Interface for Nuclear Reactor Emergency Preparedness," subcontract from Oak Ridge National Laboratories for the Nuclear Regulatory Commission.
1981-year	Principal Investigator, "Nuclear Hazard Warnings and Emergency Evacuation Preparedness," contract for Pacific Gas and Electric Company.
1980-1983	Principal Investigator, "Local Land Use Policy Decisions," Colorado State University Experiment Station.
1979-1982	Principal Investigator, "Behavioral Aspects of the Three Mile Island Incident and Restart," contract for General Public Utilities via Shaw, Pittman, Potts and Trowbridge.
1977-1980	Principal Investigator, "Migration Impacts of Non-metropolitan Areas in the West," Colorado State University Experiment Station.
1977-1979	Principal Investigator, "Adoption and Organizational Implementation of Policy for Land Use Regulations," grant from the National Science Foundation.
1975-1977	Coprincipal Investigator, Socioeconomic, Organizational and Political Consequences of Earthquake Prediction," grant from the National Science Foundation.
1972-1974	Research Sociologist, "Assessment of Research on Natural Hazards," grant from the National Science Foundation.

COMMITTEE MEMBERSHIPS

1983-date	Front Range Consortium on Natural Hazards Studies, Colorado State University, University of Colorado, University of Denver.
1983-date	International Sociological Association, Research Committee on Disasters.
1982-1983	Pacific Sociological Association, Nominations

1982-date	Committee for the Standing Committees for 1983. Earthquake Engineering Research Institute, Chair, Committee on Social Science Research, Berkeley.
1981-1983	U.S. Department of the Interior, Geological Survey, Advisory Panel on the Earthquake Studies Program.
1981-1982	Pacific Sociological Association, Program Committee for the 1982 Annual Meetings in San Diego.
1981-1982	Governor's Emergency Task Force on Earthquakes, Threat and Reconstruction Committees, State of California, Sacramento.
1980-1981	Governor's Science and Technology Advisory Council, Committee on the Relocation of Uranium Mill Tailings, State of Colorado.
1979-year	American Association for the Advancement of Science, Committee on Intergovernmental Research and Development on Fire Safety and Disaster Preparedness, Washington, D.C.
1976-1978	National Academy of Sciences, National Research Council, Commission on Sociotechni- cal Systems, Committee on Socioeconomic Effects of Earthquake Prediction, Washington, D.C.

PUBLICATIONS

Books and Monographs (refereed)

Mileti, Dennis S.

The Order of Chaos in Disasters (in progress).

Mileti, Dennis S., John Schneider and D. Stanley Eitzen

Graduate Research Methods in the Social Sciences (in progress).

Gillespie, David F., and Dennis S. Mileti

1979 Technostructures and Interorganizational Relations.

Lexington, Massachusetts: Lexington Books.

Gillespie, David F., Dennis S. Mileti and Ronald Perry

1976 Organizational Response to Changing Community Systems

Kent, Ohio: Kent State University Press.

Chapters (invited and refereed)

Mileti, Dennis S.

1986 "Research methods and disaster research." In Russell R. Dynes and Carlo Pelanda (Eds.). Sociology of Disasters: Contributions of Sociology to Disaster Research. Italy: Franco Angeli (forthcoming).

Mileti, Dennis S., and John H. Sorensen

1985 "Why people take precautions against natural hazards." In Neil Weinstein (Ed.). Encouraging Self-Protection Behavior (forthcoming).

Sorensen, John H. and Dennis S. Mileti

1985 "Protective actions for natural hazards: a review of programs to stimulate public adoption." In Neil Weinstein (Ed.). Encouraging Self-Protection Behavior (forthcoming).

Hutton, Janice, John Sorensen and Dennis S. Mileti

1981 "Earthquake prediction and public reaction." Pp. 129-166 in T. Rikitake (Ed.). Current Research in Earthquake Prediction. Boston: Reidel Publishing Company, Tokyo: Center for Academic Publications.

Mileti, Dennis S.

1981 "Planning initiatives for seismic hazard mitigation." Pp. 44-53 in J. Isenberg (Ed.). Social and Economic Impact of Earthquakes on Utility Lifelines. New York: American Society of Civil Engineers.

Monographs and Chapters (quasi-refereed)

Mileti, Dennis S., and Joanne Nigg

1984 "Social science earthquake investigations." In Roger Scholl (Ed.). Lessons Learned from Recent Earthquakes. Berkeley: Earthquake Engineering Research Institute (forthcoming).

Review Panel of the National Earthquake Hazards Reduction Plan

1984 National Earthquake Hazards Reduction Program: Five Year Program Plan. Washington, D.C.: Federal Emergency Management Agency (forthcoming).

- Mileti, Dennis S.
 1982 "A bibliography for graduate research methods." Pp. 249-255 in Russel Schutt, Alan Orenstein and Theodore C. Wagenaar (Eds.). Research Methods Courses: Syllabi, Assignments and Projects. Washington, D.C.: American Sociological Association.
- Mileti, Dennis S., Janice Hutton and John Sorensen
 1981 Earthquake Prediction Response and Options for Public Policy. Boulder: Institute of Behavioral Science, Monograph 28.
- Santopolo, Frank, and Dennis S. Mileti
 1980 Impacts of Population Growth in Agricultural Colorado Committees. Fort Collins: Colorado State University Experiment Station Bulletin.
- Committee on Fire Safety and Disaster Preparedness
 1979 Fire Safety and Disaster Preparedness. Washington, D.C.: American Association for the Advancement of Science.
- Committee on Socioeconomic Effects of Earthquake Prediction
 1978 A Program of Studies on the Socioeconomic Effects of Earthquake Prediction. Washington, D.C.: National Academy of Sciences-National Research Council.
- Mileti, Dennis, S., Thomas E. Drabek and J. Eugene Haas
 1975 Human Systems in Extreme Environments: A Sociological Perspective. Boulder: Institute of Behavioral Science, Monograph 21.
- Mileti, Dennis S.
 1975 Natural Hazard Warning Systems in the United States. Boulder: Institute of Behavioral Science, Monograph 12. Portions reprinted in Joseph Perry and Meredith Pugh, Collective Behavior: Response to Stress, 1978.
- Erickson, Neil, John Sorensen and Dennis S. Mileti
 1975 Landslide Hazards in the United States: A Research Assessment. Boulder: Institute of Behavioral Science.
- Mileti, Dennis S.
 1975 Disaster Relief and Rehabilitation in the United States. Boulder: Institute of Behavioral Science.
- Ayre, Robert, Dennis S. Mileti and Patricia Trainer
 1975 Earthquake and Tsunami Hazards in the United States: A Research Assessment. Boulder: Institute of Behavioral Science.

Journal Articles: Discipline Focus (refereed)

- Mileti, Dennis S.
 1984 "The human equation in earthquake prediction and warning," Policy Studies Review (accepted and forthcoming).
- Mileti, Dennis S., Donald Kartsough, Patti Madson and Rick Hufnagel
 1984 "The Three Mile Island incident: a study of behavioral indicators of human stress." Mass Emergencies and Disasters (accepted and forthcoming).

- Mileti, Dennis S.
1983 "Societal comparisons of organizational response to earthquake prediction: Japan vs the United States." Mass Emergencies and Disasters 1(3):399-414.
- Mileti, Dennis S.
1982 "Structure and process in the implementation of public policy," Political Science Review 21(1):1-34.
- Mileti, Dennis S.
1982 "A review of research on public policy adoption," Public Administration Review (accepted and forthcoming).
- Mileti, Dennis S., Doug Timmer and David F. Gillespie
1982 "Intra and interorganizational determinants of decentralization," Pacific Sociological Review 25(2):163-183.
- Mileti, Dennis S., David F. Gillespie and Stan Eitzen
1981 "The multidimensionality of organizational size," Sociology and Social Research 65(4):400-414.
- Gillespie, David F., and Dennis S. Mileti
1981 "Heterogeneous samples in organizational research," Sociological Methods and Research 9(3):327-388.
- Mileti, Dennis S.
1980 "Human adjustment to the risk of environmental extremes," Sociology and Social Research 64(3):327-347.
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1980 "Determinants of planning in organizations," Administrative Science Review 10(3):21-32.
- Mileti, Dennis S., and David F. Gillespie
1980 "Organizational and technological interdependencies," Journal of Contemporary Sociology 17(3-4):132-158.
- Gillespie, David F., Ronald Perry and Dennis S. Mileti
1980 "Stress and transformation," Journal of Social Research 21(2):139-147.
- Mileti, Dennis S., David F. Gillespie and Stan Eitzen
1979 "Structure and decision making in corporate organizations," Sociology and Social Research 63(4):723-744.
- Gillespie, David F., and Dennis S. Mileti
1979 "Action and contingency postulates in organization-environment relations," Human Relations 32(3):261-271.
- Mileti, Dennis S., David F. Gillespie and Elizabeth Morrissey
1978 "Technology and organizations: methodological deficiencies and lacunae," Technology and Culture 19(1):83-92.
- Gillespie, David F., and Dennis S. Mileti
1978 "Organizational technology and environment adaptation-manipulation," Scottish Journal of Sociology 2(2):205-219.
- Mileti, Dennis S., David F. Gillespie and J. Eugene Haas
1977 "Size and structure in complex organizations," Social Forces 56(1):208-217.
- Gillespie, David F., and Dennis S. Mileti
1977 "Technology and the study of organizations: an overview and appraisal," Academy of Management Review 2(1):6-19.

Reprinted in Readings on How Managers Manage. Englewood Cliffs, New Jersey: Prentice Hall, 1982.

Mileti, Dennis S., and David F. Gillespie

1976 "An integrated formalization of organization-environment interdependencies," Human Relations 29(1):80-100.

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1976 "Organizational adaptations to changing cultural contingencies," Sociological Inquiry 46(2):135-141.

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1976 "Historical and paradigmatic differences in the use of the goal concept," International Review of History and Political Science 8(30):1-14.

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1976 "A refined model of differentiation in organizations," Sociology and Social Research 60(3):263-278.

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1976 "Attitudinal variables as estimates of behavior," European Journal of Social Psychology 6(1):74-90.

Mileti, Dennis S., and Elwood M. Beck

1975 "Explaining evacuation symbolically: communication in crisis," Communication Research 2(1):24-49.

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1975 "Organizational tensions and decentralization: the interactive effect on member commitment," International Journal of Group Tensions 5(2):26-37.

Perry, Ronald, David F. Gillespie and Dennis S. Mileti

1974 "Collective stress and community transformation," Human Relations 27(8):767-788.

Mileti, Dennis S.

1974 "Change ratios in age-specific percent contriductions to fertility: a new method with applications to the United States," Pacific Sociological Review 17(1):3-26. First Prize, student paper competition, Pacific Sociological Association, 1974.

Mileti, Dennis S., and David F. Gillespie

1974 "An integrative approach to the study of organizational technology, structure and behavior," Current Sociology 23(1):189-200.

Gillespie, David F., and Dennis S. Mileti

1974 "System stress and the persistence of emergent organizations," Sociological Inquiry 44(2):111-119.

Mileti, Dennis S., and Larry Barnett

1972 "Nine demographic factors and their relationship toward abortion legalization," Social Biology 19(2):43-50.

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Mileti, Dennis S.

1984 "Role conflict in emergency workers," Emergency Management Review (accepted and forthcoming).

Mileti, Dennis S.

1984 "Earthquakes and human behavior," Spectra (accepted and forthcoming).

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- 1983 "Public perceptions of seismic hazards and critical facilities," Bulletin of the Seismological Society of America 72(6):13-18.

Mileti, Dennis S., and Patricia Harvey

- 1978 "Correcting for the human factor in tornado warnings," Disaster Preparedness 2(February):5-9.

Haas, J. Eugene, and Dennis S. Mileti

- 1977 "Socioeconomic and political consequences of earthquake prediction," Journal of the Physical Earth 25(4):283-293.

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- 1977 "Earthquake prediction and its consequences," California Geology 30(7):147-157, 1977. Revised and reprinted in San Francisco 20(4):60-68, 1978.

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- 1975 "The analytical use of case study materials in the study of organizations: a rejoinder to Griffin and Griffin," Sociological Inquiry 45(4):72-50.

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- 1982 "A review of Unequal Care: Interorganizational Relations in Health Care by M. Milner, Jr. New York: Columbia University Press, 1980." Social Forces 60(3):943-944.

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- 1982 "A review of Whistle Blowing: Loyalty and Dissent in the Corporation by Alan Westin (Ed.). New York: McGraw-Hill, 1981." Sociology: A Review of New Books 7(2).

Mileti, Dennis S.

- 1980 "A review of Aftermath: Communities After Natural Disasters by H. Paul Friesema et al. Beverly Hills: Sage Publications, 1979 and After the Clean-up: Long Range Effects of Natural Disasters by James Wright and Peter Rossi et al. Beverly Hills: Sage Publications, 1979." Journal of the American Planning Association

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Mileti, Dennis S.

- 1976 "A review of A Sociology of Organizations by J. Eldridge and A. Crombie. New York: International Publications, 1975." Contemporary Sociology 5(6):784.

Technical Reports (not refereed)

Mileti, Dennis S.,

- 1983 Human Response Scenarios: Law Enforcement Applications and Media Implications. Sacramento: California Division of Mines and Geology.

Mileti, Dennis S.

- 1982 Organizational Behavior and Interorganizational Relations: Implications for Nuclear Power Plant Emergencies and Preparedness. Oak Ridge, Tennessee: Oak Ridge National Laboratories.

Mileti, Dennis S., Donald M. Hartsough and Patti Madson

- 1982 The Three Mile Island Incident: A Study of Behavioral Indicators of Human Stress. Washington, D.C.: Shaw, Pittman, Potts and Trowbridge.

Mileti, Dennis S., and Arthur Svenson

- 1981 Earthquake Prediction-Warning Response For Emergency Organizations to the Prediction Terminology. Van Nuys: Southern California Earthquake Preparedness Project.

Hutton, Janice, and Dennis S. Mileti

- 1979 Analysis of Adoption and Implementation of Community Land Use Regulations for Floodplains. San Francisco: Woodward-Clyde.

Haas, J. Eugene, and Dennis S. Mileti

- 1976 Socioeconomic Impact of Earthquake Prediction on Government, Business and Community. Boulder: Institute of Behavioral Science.

Mileti, Dennis, S., and David F. Gillespie

- 1976 Interorganizational Relations and Community Service Delivery Systems. Boulder: Center for Action Research.

Publications in Proceedings (not refereed)

Mileti, Dennis S.

- 1980 "Human response to earthquake prediction." Pp. 36-56 in Walter Hays (Ed.). Proceedings of the Conferences on Earthquake Prediction Information. Menlo Park: U.S. Geological Survey. Paper presented at the January, 1980 Conference on Earthquake Prediction Information, Los Angeles.

Mileti, Dennis S., and Janice Hutton

- 1978 "Social aspects of earthquakes." Pp. 179-192 in Proceedings of the Second International Conference on Microzonation. San Francisco: National Science Foundation. Paper presented at the November, 1973 Conference on the State of the Art in Microzonation for Earthquake Hazards Reduction, San Francisco.

Mileti, Dennis S.

- 1978 "Socioeconomic effects of earthquake prediction on state policy." Pp. in Proceedings of the National Conference on Earthquake Related Hazards. Lexington, Kentucky: Council of State Governments. Speech presented at the November, 1977 Conference on State Policy for Earthquake Prediction Technology, Boulder.

Other Published Comments (invited and refereed)

Mileti, Dennis S.

- 1984 "The character of traffic in an emergency," Bulletin 6(1):5.

Mileti, Dennis S.

- 1983 "Disasterous warnings," Omni (March):24,44,152.

Mileti, Dennis S.

- 1982 "Hazards reduction work: the next era," National Hazards Observer 6(4):1-2. Reprinted in Earthquake Information Bulletin 14(2):60, 1982.

Mileti, Dennis S.

- 1982 "Sociological aspects of earthquake prediction," Earthquake Information Bulletin 11(3):102-105.

Haas, J. Eugene, and Dennis S. Mileti

- 1977 "Earthquake prediction response," Time (January 24):83.

Haas, J. Eugene, Thomas Drabek and Dennis S. Mileti

- 1976 "Individual and organizational response to threat," Mass Emergencies 1(4):247.

Mileti, Dennis S.

- 1976 "Social scientists and applied research," The American Sociologist 11(4):220-221.

Mileti, Dennis S.

- 1974 "Response to research and national needs," Footnotes 2(October):6.

PROFESSIONAL PAPERS AND PRESENTATIONS

Conference Papers

Mileti, Dennis S., Rick Hufnagel and David Gillespie

1984 "Regulation of the firm: toward a theory of consequences," paper presented to the Complex Organizations Session of the American Sociological Association, San Antonio: August.

Mileti, Dennis S.

1984 "Social and political obstacles to the use of nonstructural flood loss mitigation measures," paper presented to the American Society of Civil Engineers, San Francisco: October.

Mileti, Dennis S.

1984 "Why people take precautions against natural hazards," paper presented to the Conference on Encouraging Self-Protection Behavior, Rutgers University: July.

Mileti, Dennis S.

1984 "Sociology in litigation: applications of disaster research," paper presented to the Sociology of Disasters Session of the Pacific Sociological Association, Seattle: April.

Mileti, Dennis S.

1983 "Social impact and use of earthquake prediction-warnings," paper presented to the US-Japan Seminar on Practical Approaches to Earthquake Prediction and Warning, Tokyo: November.

Frey, R. Scott, Thomas Dietz, Dennis S. Mileti, and Debra Cornelius

1983 "Structural determinants of community adoption of the National Flood Insurance Program," paper presented to the Rural Sociological Society, Lexington: July.

Mileti, Dennis S., Donald M. Hartsough, Patti Madson and Rick Hufnagel

1983 "The Three Mile Island incident: a study of unobtrusive indicators of human stress," paper presented to the Disasters and Hazards Research Session of the Midwest Sociological Society, Kansas City: April.

Hufnagel, Rick, and Dennis S. Mileti

1983 "Organizational and environmental catastrophe: factors affecting organizational response to a predicted earthquake," paper presented to the Disasters and Hazards Research Session of the Western Social Science Association, Albuquerque: April.

Mileti, Dennis S.

1982 "Earthquake prediction response: cultural comparisons between Japan and the United States," paper presented to the Disaster Research Session of the International Sociological Association, Mexico City: August.

Mileti, Dennis S.

1982 "Influencing corporate decisions on the use of microzonation information," paper presented to the Third International Conference on Microzonation, Seattle: June.

- Mileti, Dennis S.
 1982 "Earthquake prediction and warnings: the human equation," paper presented to the Conference on Hazards Research, Policy Development, and Implementation Incentives: Focus on Urban Earthquakes, Policy Research Center at the University of Redlands, Redlands: June.
- Mileti, Dennis S.
 1982 "Public perception of seismic hazards," paper presented to the Seismological Society of America, Anaheim: April.
- Williams, Gary, Frank Santopolo and Dennis S. Mileti
 1980 "Perception of growth impacts in energy impacted communities," paper presented to the Rural Sociological Society, Ithaca: August.
- Mileti, Dennis S.
 1980 "Planning initiatives for seismic hazard mitigation," paper presented to the Conference on Social and Economic Impacts of Earthquakes on Critical Lifelines of the American Society of Civil Engineers, San Francisco: May.
- Timmer, Doug, and Dennis S. Mileti
 1980 "Interorganizational and structural determinants of decision making," paper presented to the Session on Complex Organizations of the Midwest Sociological Society, Milwaukee.
- Williams, Gary, Dennis S. Mileti
 1980 "Community growth and impacts," paper presented to the Western Social Science Association, Albuquerque: April.
- Mileti, Dennis S.
 1980 "Human response to earthquake prediction," paper presented to the Status of Knowledge Session of the Conference on Earthquake Prediction Information, Los Angeles: January.
- Williams, Gary, and Dennis S. Mileti
 1979 "Perceptions of growth impacts in non-metropolitan Colorado," paper presented to the Impacts Session of the Conference on Regional Migration Trends, St. Louis: October.
- Mileti, Dennis S., and Gary Williams
 1979 "Resident perceptions in growth impacted western agricultural communities," paper presented to the Rural Sociological Society, Vermont: August.
- Gillespie, David F., Dennis S. Mileti and Stan Eitzen
 1979 "The epiphenomenality of organizational size," paper presented to the Session on Complex Organizations of the Midwest Sociological Society, Milwaukee: April.
- Mileti, Dennis S., Janice R. Hutton and John Sorensen
 1979 "Social factors and response to earthquake prediction," paper presented to the International Symposium on Earthquake Prediction, UNESCO, Paris: April.
- Hutton, Janice R., Dennis S. Mileti, and John Sorensen
 1979 "Factors affecting earthquake warning system effectiveness," paper presented to the International Symposium on Earthquake Prediction, UNESCO, Paris: April.
- Sorensen, John, Janice R. Hutton and Dennis S. Mileti

- 1979 "Institutional management of risk information following earthquake predictions," paper presented to the International Symposium on Earthquake Prediction, UNESCO, Paris: April.
- Mileti, Dennis S., and Janice Hutton
1978 "Social aspects of earthquakes," paper presented to the State of the Art Session of the Second International Conference on Microzonation, San Francisco: November.
- Mileti, Dennis S., and David F. Gillespie
1978 "Organizational size, complexity and decision making," paper presented to the Organizations Session of the American Sociological Association, San Francisco: September.
- Gillespie, David F., and Dennis S. Mileti
1978 "Corporate size as work," paper presented to the Organization of Work Session of the American Sociological Association, San Francisco: September.
- Mileti, Dennis S., and David F. Gillespie
1978 "Action postulates in organization-environment relations," paper presented to the Organizations-Environment Session of the Midwest Sociological Society, Omaha: April.
- Gillespie, David F., and Dennis S. Mileti
1978 "Size and organizational differentiation," paper presented to the Formal and Complex Organizations Session of the Pacific Sociological Association, Spokane: April.
- Mileti, Dennis S., and Patricia Harvey
1977 "Correcting for the human factor in tornado warnings," paper presented to the Conference on Severe Local Storms of the American Meteorological Society, Omaha: October.
- Mileti, Dennis S., and David F. Gillespie
1977 "Organization and environment adaptation-manipulation," paper presented to the Organizational Relations Session of the American Sociological Association, Chicago: September.
- Hutton, Janice R., and Dennis S. Mileti
1977 "The uses and abuses of scenarios in policy research," paper presented to the Social Policy Session of the American Sociological Association, Chicago: September.
- Gillespie, David F., and Dennis S. Mileti
1977 "Organizational growth and managerial efficiency," paper presented to the Social Organization/Formal/Complex Session of the Pacific Sociological Association, Sacramento: April.
- Mileti, Dennis S., and David F. Gillespie
1977 "Organizational manipulation and adaptation to complex environments," paper presented to the Complex Organizations Session of the Midwest Sociological Society, Minneapolis: April.
- Gillespie, David F., Dennis S. Mileti and J. Eugene Haas
1976 "Size and structure in complex organizations," paper presented to the Organizational Change Session of the American Sociological Association, New York City:

- August.
- Mileti, Dennis S.
 1976 "Learning theory and disaster warning response," paper presented to the Issues in Environmental Analysis Session to the American Sociological Association, New York City: August.
- Haas, J. Eugene, and Dennis S. Mileti
 1976 "Consequences of earthquake prediction on other adjustments to earthquakes," paper presented to the Australian Academy of Science, Canberra: May.
- Mileti, Dennis S., and J. Eugene Haas
 1976 "A methodology for future collective events," paper presented to the Collective Behavior Session of the Midwest Sociological Society, St. Louis: April.
- Gillespie, David F., and Dennis S. Mileti
 1976 "Operations technology and organizational structure," paper presented to the Formal Organizations Session of the Midwest Sociological Society, St. Louis: April.
- Haas, J. Eugene, and Dennis S. Mileti
 1976 "Assessing the consequences of earthquake prediction," paper presented to the Social Risk Session of the American Association for the Advancement of Science, Boston: February.
- Mileti, Dennis S., and David F. Gillespie
 1975 "Technological uncertainty in organization-environment relations," paper presented to the Formal Organizations Session of the American Sociological Association, San Francisco: August.
- Mileti, Dennis S., and David F. Gillespie
 1975 "A resolution of inconsistencies between size, complexity and the administrative component in organizations," paper presented to the Formal Organizations Session of the Midwest Sociological Society, Chicago: April.
- Mileti, Dennis S., and David F. Gillespie
 1975 "Technology and the study of organizations," paper presented to the Formal Organizations Session of the Pacific Sociological Association, Victoria: April.
- Mileti, Dennis S., and David F. Gillespie
 1975 "An interaction model for organization-environment relations," paper presented to the Interorganizational Relations Session of the Midwest Sociological Society, Omaha: April.
- Mileti, Dennis S., and David F. Gillespie
 1974 "A formalization of organization-environment dependencies," paper presented to the Formal Organizations Session of the Pacific Sociological Association, San Jose: March.
- Farhar, Barbara, and Dennis S. Mileti
 1974 "Value and role issues for the involved social scientist," paper presented to the Applied Session of the Pacific Sociological Association, San Jose: March.
- Mileti, Dennis S.
 1973 "Drowning: a communications disease," paper presented to the Mass Communications and Public Opinion Session of

- the American Sociological Association, New York City: August.
- Mileti, Dennis S., and Sigmund Krane
 1973 "Response to impending system stress," paper presented to the What Do We Know Session on Human Behavior in Disaster of the American Sociological Association, New York City: August.
- Mileti, Dennis S.
 1973 "A paradigm and sociology of knowledge for theories of natural law," paper presented to the Theory Session of the Midwest Sociological Society, Milwaukee: April.
- Mileti, Dennis S.
 1972 "Response to hazards warnings," paper presented to the Organizational and Community Response to Disaster Seminar at the Disaster Research Center of the Ohio State University, Columbus: July.

Speeches and Guest Lectures

- "Warnings: applying research in the private sector," Plenary Session on Hazards Research and Management: Assessments of a Maturing Field, Natural Hazards Research Applications Workshop, Boulder: July, 1984.
- "Human response to emergencies," Emergency Preparedness Executive Seminar for County Commissioners of the Commonwealth of Pennsylvania, GPU Nuclear Corporation, Harrisburg: March, 1984.
- "The uses of earthquake prediction-warnings," Colloquium on Earthquake Prediction Research in the US, Earthquake Research Institute, University of Tokyo: November, 1983.
- "Human response in disasters," American Red Cross, Mile High Chapter, Boulder Region, Boulder: July, 1983.
- "Integrated emergency management: challenges and opportunities," Plenary Session of the Natural Hazards Research Applications Workshop, Boulder: July, 1983.
- "Public response to flood disasters," Conference on the Need for Teamwork in Managing Flood Hazards, Association of State Floodplain Manager, Sacramento: April, 1983.
- "Natural hazards, disasters and public policy," Environmental Management Institute, University of Southern California, Los Angeles: April, 1982.
- "Myths of disaster response," Earthquake Planning Conference for Business and Industry, Los Angeles: May, 1982.
- "Communicating lessons learned from social science research on earthquakes," Workshop of Identifying and Disseminating Lessons Learned from Recent Earthquakes," Earthquake Engineering Research Institute, Los Altos: December, 1982.

"Social causes of earthquake prediction-warning response: implications for the design of California's warning system and information dissemination," Southern California Earthquake Preparedness Project, Van Nuys: October, 1981.

"Assessment of research on natural hazards: what have we learned and what problems demand further attention," Natural Hazards Research Applications Workshop, Boulder: July, 1981.

"Disaster reconstruction: patterns to guide planning," Governor's Task Force for Earthquake Emergency Preparedness, Committee on Long Range Reconstruction, Sacramento, July, 1981.

"Socio-cultural dimensions of earthquake risk," Governor's Emergency Task Force on Earthquakes, General Assembly, Sacramento: May, 1981.

"Interorganizational relations and service delivery systems," Health Sciences Center, University of Colorado, Denver: October, 1980.

"Social response to earthquake prediction: local policy issues," Southern California Emergency Services Association, Montebello: February, 1980.

"Human response to weather-borne hazards warnings," Department of Atmospheric Sciences, Colorado State University: October, 1979.

"Natural hazards, disasters and social research," Department of Sociology, University of Denver: December, 1980, 1979.

"Measuring implementation of public policy for floodplain land use controls," Natural Hazards Research Applications Workshop, Boulder: August, 1978.

"Socioeconomic effects of earthquake prediction and state policy," Conference on State Policy for Earthquake Prediction Technology, Boulder: November, 1977.

"Population, resources and policy for social change," College of Natural Resources, Colorado State University: September, 1977; February, 1978; February, 1980.

"The behavior of government and corporate organizations in an earthquake prediction," American Society for Public Administration, Colorado Chapter, Denver: April, 1976.

"The social and economic aspects of scientifically credible earthquake predictions," California State Seminar on Emergency Preparedness and Earthquake Prediction, Palm Springs: June, 1976.

"Preparing to make use of earthquake predictions," Emergency Preparedness Commission for the County and Cities of Los Angeles, Montebello: February, 1976.

"The social organization of hazard warning systems," Engineering Foundation Conference on Decision Making for Natural Hazards, Pacific Grove: March, 1976.

"Briefing on the likely social and economic impacts of earthquake prediction," Governor's Conference Room, Sacramento: May, 1975; Mayor's Conference Room, Los Angeles: October, 1975.

"Social, economic and legal aspects of earthquake prediction," General Assembly of the International Union of Geodesy and Geophysics, Grenoble: September, 1975.

"Earthquake prediction and its implications for emergency preparedness," Center for Community Studies, Tokyo: September, 1975.

"Social impacts of earthquake prediction: implications for policy," California Water and Power Earthquake Engineering Forum, San Francisco: April, 1975.

OTHER PROFESSIONAL SERVICE

Organizer and Presider

Session on Applied Sociology, Pacific Sociological Association, Seattle: April, 1984; Session on Theoretical Assessments, Western Social Science Association, San Diego: April, 1984; Session on Methodological Approaches in the Study of Health Care Delivery Systems, Western Social Science Association, San Diego: April, 1984; Session on Earthquake Hazard Reduction: Is the National Earthquake Hazard Reduction Program Meeting its Congressional Mandate, Seventh Annual Workshop on Natural Hazards Research Applications, Boulder: July, 1982; Session on Disasters and Cataclysms: Can Sociology Help, Pacific Sociological Association, San Diego: April, 1982; Session on Collective Behavior, American Sociological Association, New York: August, 1980; Session on Complex Organizations, Pacific Sociological Association, San Francisco: April, 1980; Session on Complex Organizations, Western Social Science Association, Tempe, 1976.

Discussant

Session on Theoretical Assessments, Western Social Science Association, San Diego: April, 1984; Session on Societal Response to Hazards, American Sociological Association, San Antonio: August, 1984; Session on Public Response to Earth Science Information, Natural Hazards Research Applications Workshop, Boulder: July, 1980; Session on Warning Systems, National Conference on Natural Hazards, Boulder: June, 1976; Session on Warning Systems, National Conference on Natural Hazards, Boulder: July, 1975; Session on Disaster Relief and Warning Systems, National Conference on Natural Hazards, Estes Park: June, 1973.

Participant

Panel on Disaster Research Its Funding and Future, American Sociological Association, San Antonio: August, 1984; Review Panel, Corresponding Member, Task Group on Social and Economic Aspects of Earthquakes, National Academy of Sciences, National Research Council, Commission on Sociotechnical Systems, Washington, D.C.: 1982; Workshop on Disseminating Lessons Learned from Recent Earthquakes, Earthquake Engineering Research Institute, Los Altos: December, 1982; Tennessee Valley Authority Flood Plain Evaluation Panel, Boulder: November, 1982; Earthquake Prediction Warning Task Force Workshop, Southern California Earthquake Preparedness Project, Asilomar: December, 1981; Symposium on Earthquake Prediction, Preparedness and Human Response, San Fernando: June, 1976; Seminar on Disaster Research, Colorado State University, Fort Collins: February, 1975; Symposium on Complex Organizations: Research and Applications, Western Social Science Association, El Paso: April, 1974.

Editorships

Corresponding editor on Hazards and Disaster, Environmental Sociology, Newsletter of the Section on Environmental Sociology of the American Sociological Association, 1981-date; Guest editor, special issue on Environmental Stress, Threat and Social System Response, Mass Emergencies 1(4):247-346, 1976.

Testimony

Nuclear Regulatory Commission in the matter of emergency planning at the Shoreham nuclear reactor, Suffolk: December, 1983 through June, 1984; Nuclear Regulatory Commission in the matter of emergency planning at the Wolf Creek generating station, Burlington, Kansas: January, 1984; Nuclear Regulatory Commission in the matter of pre-emergency public education and information for emergency planning at the Waterford Three nuclear reactor, New Orleans: February, 1983; Suffolk County Legislature, State of New York, in the matter of emergency planning at the Shoreham nuclear reactor, Suffolk: January, 1983; Nuclear Regulatory Commission in the matter of emergency planning at the Diablo Canyon nuclear reactor, San Luis Obispo: January, 1982; Senate Subcommittee on Science, Technology and Space in the matter of the National Earthquake Hazards Reduction Act, Washington, D.C.: April, 1980; Nuclear Regulatory Commission in the matter of the impact of floating nuclear plants on tourist behavior, Bethesda: May, 1977 and July, 1978.

Legislative and Program Reviews

Earthquake Hazards Reduction Program, U.S. Congressional Panel, Federal Emergency Management Agency, 1983-82; Earthquake Hazards Reduction Program of the U.S. Geological Survey, 1982; Final Regulations for Floodplain Management and Protection of Wetlands, Federal Emergency Management Agency, Federal Register 176(45):59520-59538, 1980; Applied Research Program Evaluation, National Science Foundation, 1979-78.

Proposal Reviews

Societal Response Program of Civil and Environmental Engineering, National Science Foundation, 1984-81; Division of Policy Research and Analysis, National Science Foundation, 1983; Sociology Program, National Science Foundation, 1982-81; Design Research Program, National Science Foundation, 1982; Division of Problem Focused Research, National Science Foundation, 1980; Division of International Programs, National Science Foundation, 1978; Division of Advanced Environmental Research and Technology, National Science Foundation, 1978-76.

Article Reviews

Human Relations, 1984-83, 1978-77; Sociological Perspectives (Pacific Sociological Review), 1984; Deviant Behavior, 1983; Risk Analysis, 1983; The Environmental Professional, 1983-82; Sociology and Social Research, 1982-81, 1979-78, 1976; Social Forces, 1980; The Environmental Professional, 1982; The Social

Science Journal, 1981-77; Bulletin of the Seismological Society of America, 1982; Sociological Focus, 1980; Mass Emergencies, 1978, 1976-75; Policy Analysis, 1978; The Sociological Quarterly, 1975; Current Research in Earthquake Prediction, 1984.

Other Reviews

L. Lave and D. Epple, "Future Scenarios," Chapter 21 in R. W. Kates (Ed.). Climate Impact Assessment: Studies of the Interaction of Climate and Society. Geneva, for the International Council of Scientific Union's Scientific Committee on Problems of the Environment, 1982; Study on Earthquake Hazards Information Dissemination: Charleston, South Carolina. Reston for the U. S. Geological Survey, 1982.

Department and University Service

Department Executive Committee, 1984-82, 1980-77; Department ad hoc Committee on Research Space, 1983; Department Five-Year Review Committee, 1982; Department Comprehensive Examination Committee, 1984-75; Department Evaluation of Independent Study Courses, 1978; University Committee on Ethnic Studies, 1976-74; University Committee on Latin American Studies, 1975-74.

TEACHING

Courses Taught (undergraduate)

Introduction to Sociology
Complex Organizations
Demographic Processes and Social Change
Historical Sociological Theory
Research Methods
Sociology of Hazards and Disasters

Courses Taught (graduate)

Advanced Quantitative Analysis
Multiple Regression and Path Analysis
Research Methods I
Research Methods II
Demography and Population
Complex Organizations

Graduate Theses and Dissertations

Chair, Ph.D. Dissertation Committee, 5
Member, Ph.D. Committees, 12
Chair, M.A. Thesis Committees, 3
Member, M.A. Committees, 12

Student Evaluations

Ranked as excellent by most students in most courses; evaluation summaries are available upon request.

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

In the Matter of

THE CLEVELAND ELECTRIC
ILLUMINATING COMPANY

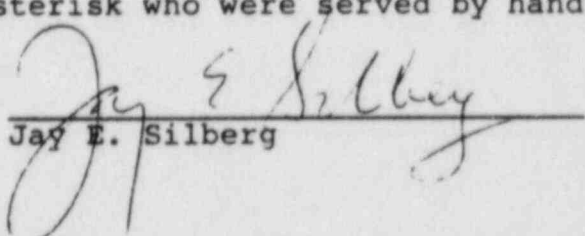
(Perry Nuclear Power Plant,
Units 1 and 2)

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Docket Nos. 50-440
50-441
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CERTIFICATE OF SERVICE

I hereby certify that copies of "Applicants' Motion For Summary Disposition of Contention Q," "Applicants' Statement of Material Facts As To Which There Is No Genuine Issue To Be Heard on Contention Q," "Affidavit of Gary Winters on Contention Q," and "Affidavit of Dennis S. Miletic on Contention Q," were served this 5th day of February, 1985, by deposit in the U.S. mail, first class, postage prepaid, upon the parties listed on the attached Service List, except for those parties identified by asterisk who were served by hand.


Jay E. Silberg

Dated: February 5, 1985

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

In the Matter of

THE 'LEVELAND ELECTRIC
ILLUMINATING COMPANY, ET AL.

(Perry Nuclear Power Plant,
Units 1 and 2)

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Docket Nos. 50-440
50-441

SERVICE LIST

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Washington, D.C. 20555

Docketing and Service Section
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