

UNITED STATES OF AMERICA

DOCKETED  
USNRC

NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

'82 DEC -6 11:22

In the matter of	)	
Consumers Power Company	)	Docket No. 50-155-OLA
(Big Rock Point Nuclear	)	(Spent Fuel Pool Modification)
Power Plant)	)	

OFFICE OF SECRETARY  
DOCKETING & SERVICE  
BRANCH

AFFIDAVIT OF LT. JAMES M. TYLER

I, Lt. James M. Tyler, first being duly sworn, do hereby state as follows:

1. I am the Commanding Officer of the Pre-Disaster Services Section (formerly known as the Training and Education Section) of the Emergency Management Division (formerly known as the Emergency Services Division) of the Michigan Department of State Police. I am also the State Emergency Operations Center Coordinator and the Nuclear Power Plant Coordinator. My work experience with the State Police includes: 6 years, 8 months as a trooper assigned to criminal and traffic investigation and enforcement; 11 months as a uniform sergeant supervising a shift at a State Police post; 1 year, 11 months as a field coordinator for the Emergency Services Division assigned to the Seventh District Headquarters in Traverse City, Michigan; and 1 year, 6 months in the present assignment (since June 21, 1981).

2. During my tenure as a field coordinator (April 1, 1979 to February 4, 1981), I represented the state government in all emergency services matters involving local governments in eighteen counties, including Charlevoix and Emmet Counties. I also had responsibility

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for the administration of the Emergency Management Assistance Program which partially funds the county emergency services offices.

3. As Commanding Officer of the Pre-Disaster Services Section, I am responsible for training to support the radiological emergency planning which occurs at the political subdivisions within the emergency planning zones (EPZ) surrounding Michigan's commercial nuclear power plants. As State Emergency Operations Center (EOC) Coordinator, I am responsible for insuring that the State EOC in Lansing is equipped and operable. As Nuclear Power Plant Coordinator, I work with the utilities and government agencies for development of offsite emergency preparedness. As Nuclear Power Plant Coordinator, I have the additional responsibility of working with the Radiological Emergency Planning Unit of the Disaster Planning Section of the Emergency Management Division. (An organizational chart of the Emergency Management Division is attached as Exhibit "A." The chart reflects the reorganization of the Emergency Management Division which became effective November 1, 1982, and shows the current assignment of responsibilities within the Emergency Management Division. The chart also indicates the funding sources for the Emergency Management Division.)

4. I graduated from Dundee High School, Dundee, Michigan, in 1964. I have earned college credits in Police Psychology, Police Administration, and Political Science. Since my assignment with the Emergency Services Division, I have taken the following courses:

- a. Civil Defense U.S.A., June, 1979. This correspondence course gave me an overview of the Civil Defense Program in the United States.
- b. Radiological Monitoring, April, 1979. This correspondence course covered fallout effects and exposure guidance, RADEF instruments, protective measures and decontamination procedures, exposure and exposure rate calculations, radiological monitoring tasks, procedures and responsibilities, exposure rate nomogram, entry time, stay time, and total exposure nomogram.
- c. Radiological Defense Officer Course, May, 1979. This was a 32 hour course given by the Michigan Department of Military Affairs. The course covered the basic concept of nuclear science, effects of nuclear weapons, nuclear radiation measurement, radiological detection and measurement instruments, radioactive fallout, effects of nuclear radiation exposure, exposure and exposure rate calculations, radiological monitoring techniques and operations, protection from radiation, radiological decontamination and radiological defense planning.
- d. Phase II, July, 1979. This was a 40 hour course given at the State Police Academy. The course was instructed by Great Lakes Educational Consultants (a FEMA contractor) and covered such concepts as community involvement, public administration and governmental structure.
- e. New Directors Seminar, December, 1979. This seminar was conducted by the State Police Emergency Services Division at the State Police Academy. The seminar was a three day orientation session which dealt with emergency preparedness concepts.

- f. Phase I, February, 1980. This was a 40 hour course given at the State Police Academy. The course was instructed by Great Lakes Education Consultants and covered emergency planning, organizing, and program management.
- g. Advanced Seminars. These were each three day seminars sponsored by the Emergency Services Division and included presentations by federal, state, and local representatives. One was held at Higgins Lake in October, 1979; another was held at Bellaire in September, 1981; and another at Traverse City in September, 1982. These programs covered different facets of comprehensive emergency management. The programs were attended by city, township, and county emergency services coordinators.
- h. Radiological Emergency Response and Operations Course, August, 1980. This was an eight and a half day course given at Las Vegas and the Nevada Test Site by the Reynolds Electric and Engineering Co. Inc. (a D.O.E. contractor). The course covered the electromagnetic spectrum, ionizing radiation, atomic and nuclear physics, Curie, Roentgen, RAD, REM, interaction of ionizing radiation with matter, biological effects of ionizing radiation, internal deposition and bio assay, external dosimetry, exposure guides, protective action guides and protective actions, emergency team organization, emergency team leadership, public and press relations, meteorology, volunteer group discussions, map reading, environ sampling, federal response systems, state response systems, radiological waste and D.O.T. regulations, respiratory protection and respiration, radiological area control, non-radiological hazards, field instruments - uses and techniques, personnel

and equipment anti-contamination, hotline procedures and personnel monitoring, practical exercises for industrial radiography incident, transportation accident, power reactor offsite for town, farm and medical facilities and power reactor on-site.

- i. Workshop on Nuclear Power Operations and Emergencies for Public Affairs Officers, March 22-27, 1982. This was a 30 hour seminar held at the Sequoyah Nuclear Power Plant and the Read House, Chattanooga, Tennessee. The course was offered by the Southern States Energy Board and covered an introduction to radiation terminology, sources of radiation, biological effects of radiation, controlling the fission process, nuclear power plants, design and operation, simulator demonstrations, discussion of the Three Mile Island incident and public affairs implications, exercise scenario, and a tour of the Watts Bar Facility.

5. The purpose of this affidavit is to provide information concerning the training activities of the Emergency Management Division of the Michigan Department of State Police with particular emphasis on radiological emergency planning and training of state and local officials to support the Big Rock Point Nuclear Power Plant located near Charlevoix, Michigan.

6. The State of Michigan Emergency Preparedness Act (Act 390 of the 1976 Michigan Public Acts) assigns responsibilities for coping with disasters to the state and local governments. Disasters within Act 390 include such events as floods, tornadoes, train derailments that involve gases or chemicals, and oil spills in coastal waterways and harbors, as

well as radiological accidents at nuclear power plants. Act 390 assigns the responsibility for emergency preparedness and planning for a disaster or major accident to the Director of the Department of State Police, under the overall direction of the Governor. The Department of State Police is responsible for assisting local jurisdictions to prepare for and meet an emergency. This responsibility is carried out through the Emergency Management Division of the Department of State Police under the direction of Captain Peter R. Basolo, who is the Deputy State Director of Emergency Services. I report directly to Captain Basolo.

7. As a result of the events that occurred at Three Mile Island in March, 1979, the State of Michigan began to review its ability to respond to a nuclear power plant accident should one occur in Michigan. Consequently, the state and local governments revised their emergency response plans to meet such a disaster. As a result of the development of NUREG-0654, the plans were again revised to meet the criteria of that regulatory guide, which includes the requirement that radiological emergency response training be provided to those who will be required to assist in an emergency. The Michigan Emergency Preparedness Plan establishes areas of responsibility for the state and local governments. The Emergency Management Division is responsible for coordinating, reviewing and approving the plans and support annexes of other state agencies and local jurisdictions and insuring coordination of those plans and annexes with the plans of the plant operators.

8. Before the recent reorganization of the Emergency Management Division, the Training Unit of the Emergency Services Division coordinated the implementation of drills, exercises, and training and retraining

activities as those activities concern preparedness for response to emergencies such as an accident at a nuclear facility. We received some support for nuclear accident training from the Radiological Health Division of the Department of Public Health and also from the Radiological Maintenance and Calibration Office of the Department of Military Affairs (now part of the Department of State Police).

9. In fulfilling its responsibilities, the Emergency Services Division (now the Emergency Management Division) has assisted the local governments in developing their emergency response plans and has provided training to local authorities. This training has been provided to Mr. Earl Muma, Emergency Services Director for Charlevoix County. The extent of Mr. Muma's training is outlined in his separate affidavit.

10. The Emergency Services Division has coordinated the following planning and training activities concerning the Big Rock Point Plant:

- a. A conference for 77 public officials was held on June 15, 1979.

(Those in attendance are identified on the roster attached to this affidavit as Exhibit "B.") This conference was the first meeting following the Three Mile Island incident. The purpose of the conference was to acquaint the local public officials with the potential problems of a nuclear accident at the Big Rock Point Plant and to initiate the necessary planning efforts. The conference lasted about four hours and included presentations by Consumers Power Company, the Emergency Services Division, and the Radiological Health Division of the Michigan Department of Public Health. The conference included a discussion of radiological matters.

- b. The planning process occurred throughout the summer of 1979 and early 1980. During that time, Ms. Diane Ogren of the Emergency Services Division and myself met individually with approximately 75 elected and appointed public officials from the City of Charlevoix, Charlevoix County, Emmet County, and other surrounding counties. We assisted these persons in writing that part of the local plan which concerned his or her area of responsibility. The planning process was in itself a valuable training exercise. It initiated serious consideration of appropriate emergency response and identification and resolution of potential problems. Further, it assured that the appropriate person would be familiar with his or her responsibilities in an emergency.
- c. In May, 1980, an orientation session took place in Charlevoix County. Approximately 30 public officials who would perform emergency functions at the Charlevoix County Emergency Operations Center (EOC) were trained in the operation and function of the EOC. The responsibilities of individual county departments in a nuclear emergency were reviewed. The participating officials included the Chairman of the Board of the County Commissioners, the heads of the essential county departments, the Sheriff, the County Fire Coordinator, a representative of the County Health Department, the County Radiological Defense Officer, and the Public Information Officer for the County. Each official also had an alternate present who would serve the same function in a separate shift or in the official's absence. The orientation session lasted about six hours.



- d. Following the orientation session, a series of three training drills occurred. The drills involved the same public officials who were present at the orientation session. Each drill lasted about five hours and tested communications and warning, accident assessment, capability of field assessment teams, use of protective action guides (PAGs), public information, evacuation methodology, provisions for reentry and recovery of the affected area, and direction and control. The training drills also simulated shift changes which required replacement of the primary personnel by their alternates.
- e. The orientation session and training drills culminated in a full scale exercise that took place on June 24, 1980. The state, the counties, and the utility all participated in this exercise. The exercise was observed and evaluated by the NRC and FEMA. The exercise lasted about 5 hours and, like the drills, simulated actual accident conditions.
- f. In March, 1982, two more training drills were conducted--each lasting about three hours. These training drills were followed by a complete county exercise on April 6, 1982, involving the counties, the state, and the utility. The state was involved in this exercise to a lesser degree than in the previous exercise, limiting its participation to direction and control, communications, and radiological assessment.
- g. Orientation sessions, drills, and exercises were also conducted in Emmet County which coincided with all of the above activities in Charlevoix County.

- h. In addition, specific training in the hazards of radiation, instrumentation, dosimetry, and response procedures has been given to all state troopers at the Petoskey State Police Post. All Field Coordinators of the Emergency Services Division have successfully completed the Radiological Monitoring Course, the Radiological Defense Officer Course, and the Radiological Emergency Response Organization Course at the Nevada test site. In addition, the Emergency Services Division Field Coordinators, as well as all sections of the Emergency Services Division, have participated in training drills and exercises at all nuclear power plant locations annually and will continue to do so in the future.
- i. Other state officials working in the area of the Big Rock Point have also been trained through presentations at the Petoskey State Police Post in May and June of 1979 by Emergency Services Division and Radiological Health personnel. The training consisted of familiarization with their responsibilities under the State Plan and Act 390, and education in radiological matters. The state officials in attendance included regional representatives from the Department of Natural Resources, the Department of Social Services, the Department of Transportation, the Department of Military Affairs, the Department of Public Health, the Department of Agriculture, and the Department of State Police.
- j. Essential state department coordinators who would perform functions at the State EOC in Lansing during an emergency are trained annually at the State EOC through an annual training session conducted by the Emergency Services Division. Those personnel also receive training at the State EOC during the orientations, drills, and full scale exercises conducted throughout the state.

- k. Local news media personnel receive annual briefings acquainting them with emergency response plans, radiological matters, and the Joint Public Information Center (JPIC), which would be the point of contact for public release in an emergency. The most recent briefing was held just before the April, 1982 exercise.

11. In addition to the local and state officials who would provide emergency response support, the Radiological Health Services Division of the Michigan Department of Public Health has an 18 member technical staff who will assist in a radiological emergency. The staff is comprised of twelve Health Physicists all of whom hold at least a Bachelor of Science degree in Physics, one Environmental Engineer, two Laboratory Scientists, two Environmental Technicians and one Environmental Administrator. Their primary responsibility would be to make offsite dose assessments, evaluate radiation exposure, and make recommendations to the Governor and the Emergency Management Division for protective action guides and emergency action levels. I have been informed by Mr. George Bruchmann, the acting Division Chief of Radiological Health Services, that members of his division have received the following training:

- a. 7 members have attended the 10 week Health Physics course at Oakridge Associated University.
- b. 2 members have attended the Nuclear Regulatory Commission Assessment School.
- c. 13 members have attended the Radiological Emergency Response and Operations Course in Las Vegas.
- d. 11 members have attended Radiological Material Handling and Procedures School (NRC).
- e. 8 members have attended schools on Environment Monitoring, including radiological chemical procedures and analysis.

f. In addition, members of the Radiological Health Services Division participate in the training drills and annual exercises in which they practice assessment and monitoring procedures.

12. As part of its recent reorganization, the Emergency Management Division has formed a second training unit to supplement the activities of the existing Comprehensive Emergency Management Training Unit. (The latter unit administers training programs for all levels of government throughout Michigan concerning emergencies other than an accident at a commercial nuclear power plant.) The new Radiological Emergency Training Unit is part of the Pre-Disaster Services Section and is responsible for training support groups who have responsibilities in responding to an emergency at a commercial nuclear reactor. This training is provided in accordance with NUREG-0654 and Act 390. The Radiological Emergency Training Unit will be comprised of two trainers. We have already hired one trainer, Mr. Daniel Sibb, who holds a Bachelor of Science degree in Regional Planning from Indiana University of Pennsylvania and is near completion of a Master's Degree in Urban Planning from Michigan State University. We are in the process of interviewing applicants for the second position.

13. The Pre-Disaster Services Section has developed a comprehensive training program for all support groups who will have responsibilities during a radiological emergency at any of the commercial nuclear power plants in Michigan. In accordance with NUREG-0654, this training program will be presented at least once per year to each of the support groups. A complete list of all support groups identified as needing training is attached as Exhibit "C." The program will be carried out in a joint effort of the Radiological Emergency Training Unit, the Radiological Health Services Division of the Michigan Department of Public Health, the local Emergency Services Directors, and the utilities. Also

participating in the program will be the person who is responsible for the particular support group which is receiving the training (e.g., the county sheriff who is responsible for coordinating all local law enforcement agencies). The program is designed to be presented in four one hour parts which break down as follows:

- a. The utility will present information on basic nuclear physics and the operation of a nuclear power plant. Mr. Mike Dixon, a Health Physicist with Consumers Power Company at the Big Rock Point Plant, will make this presentation to the support groups in the vicinity of that plant.
- b. The Radiological Health Services Division will present a discussion of the biological effects of radiation. The Radiological Health Services Division has appointed Mr. James Kreh to conduct this presentation. Mr. Kreh has been a Health Physicist with the Radiological Health Services Division since July, 1979. Mr. Kreh holds a Master of Science degree in Physics from the University of Michigan. Mr. Kreh has also attended NRC Radiological Emergency Response and Operations Course in September, 1980. (This course was described in paragraph 4h.)
- c. The Radiological Emergency Training Unit will discuss the overall radiological emergency response - concepts, responsibilities, and the integration of the state, local, and utility's plans.
- d. The local Emergency Services Director and the person responsible for coordinating the function of the particular support group being trained will then discuss the local emergency support

structure, including the operations of the local emergency operations center, communications, notification procedures, and coordination of resources. The support group will be informed of their specific function and responsibilities and the procedures to be followed.

14. Only those support groups that would perform their functions within the emergency planning zone need the first two parts of the training concerning nuclear physics and its biological effects. Those support groups needing this radiological training are local fire departments, local fire volunteers, social services volunteer support that would be working in reception decontamination centers, bus drivers involved in evacuation, road commission personnel, and health medical support for evacuation. (The Charlevoix Public School District bus drivers recently received training in a session similar to our proposed program. This session was conducted at the initiative of Mr. Muma and received the participation of the Emergency Management Division. Mr. Muma discusses the bus driver training session in his affidavit.) In counties such as Charlevoix, where the emergency operations center is located within the emergency planning zone, additional groups who need radiological training include local Emergency Operations Center personnel and local communications personnel.

15. Some support groups who will perform functions within the emergency planning zone already receive adequate radiological training through other programs and will not require the first two parts of the training. The utility personnel are trained at their plant as part of their job. The state radiological monitoring teams and accident assess-

ment/analysis personnel receive extensive radiological training as part of their job (see paragraph 11). Local health medical support groups receive annual training for handling contamination victims. State Police troopers who will work in the emergency planning zone receive a sixteen hour course which includes radiological monitoring and emergency procedures.

16. The Emergency Management Division has given priority to training of nuclear emergency support groups in Charlevoix County. We are currently in the process of scheduling training sessions for the local support that require all four parts of the training program. The remaining groups will receive training through the existing program, which is carried out in conjunction with the annual exercises. (The next exercise is scheduled for July 26, 1983.) The local Emergency Operations Center personnel are scheduled for the four part training on December 2, 1982. Other groups will be scheduled for training upon completion of updating of the separate support groups' annex to the emergency operation plan. This updating is currently being done by Ms. Ogren through individual meetings with the respective coordinators of the support groups. We expect to complete training for the support groups needing all four parts of the training by the end of December, 1982. All support groups in Charlevoix County will have received training by the July 26, 1983 exercise.

To the best of my knowledge, the foregoing information is true and correct.

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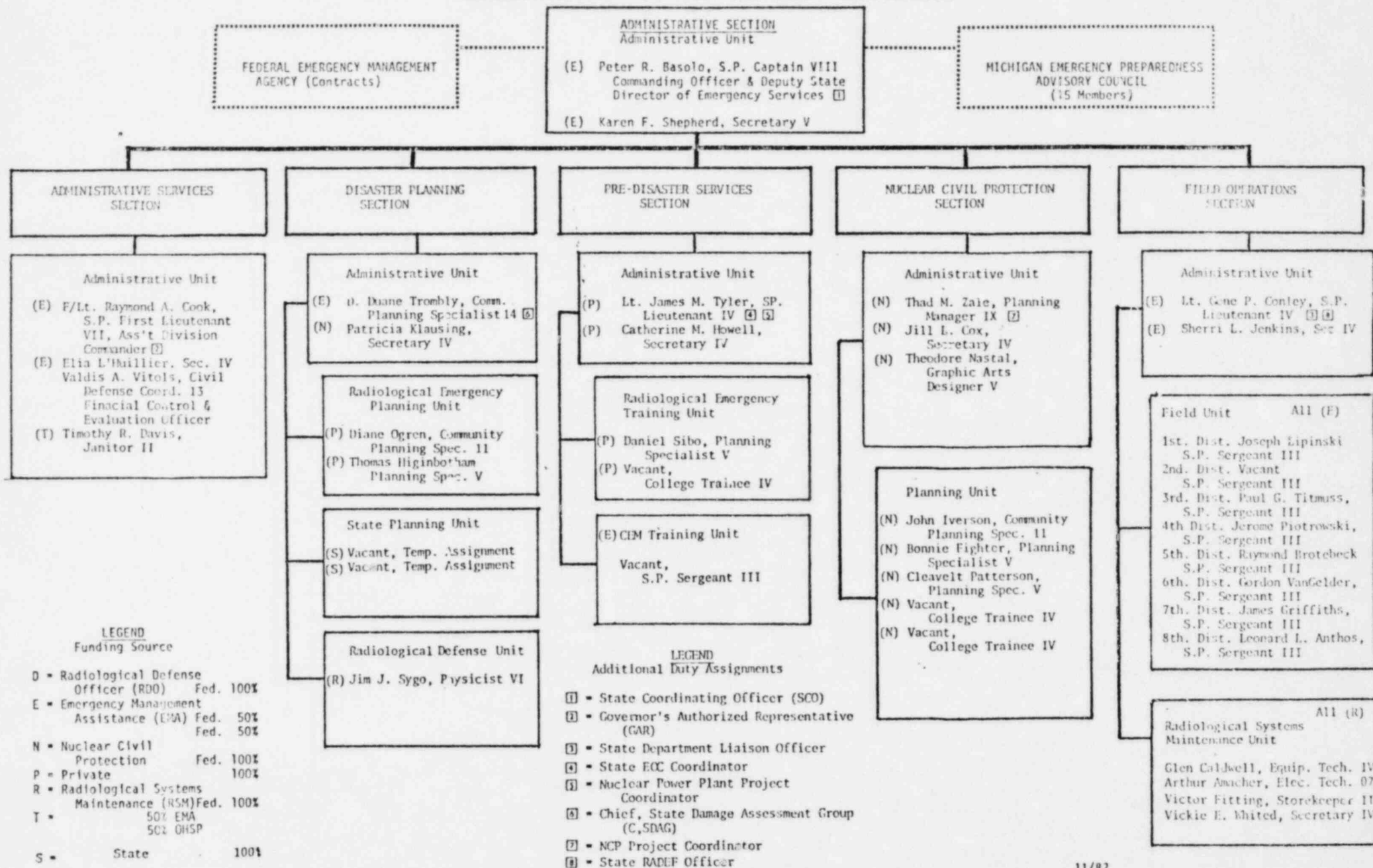
Lt. James M. Tyler

SUBSCRIBED AND SWORN to  
before me this 2, day  
of December, 1982.

  
Notary Public

BEVERLY ANNE WCO  
Notary Public, Charlevoix County, Michigan  
My Commission Expires December 31, 1983

# EMERGENCY MANAGEMENT DIVISION



**LEGEND**  
Funding Source

- D = Radiological Defense Officer (RDO) Fed. 100%
- E = Emergency Management Assistance (EMA) Fed. 50% Fed. 50%
- N = Nuclear Civil Protection Fed. 100%
- P = Private 100%
- R = Radiological Systems Maintenance (RSM) Fed. 100%
- T = 50% EMA 50% OHSP
- S = State 100%

**LEGEND**  
Additional Duty Assignments

- [1] = State Coordinating Officer (SCO)
- [2] = Governor's Authorized Representative (GAR)
- [3] = State Department Liaison Officer
- [4] = State ECC Coordinator
- [5] = Nuclear Power Plant Project Coordinator
- [6] = Chief, State Damage Assessment Group (C,SDAG)
- [7] = NCP Project Coordinator
- [8] = State RADEF Officer



PUBLIC OFFICIALS CONFERENCE - JUNE 15, 1979  
 ARSONIE CLUB, CHARLEVOIX, MICHIGAN  
 CHARLEVOIX COUNTY

COMMUNITY/AGENCY	NAME/TITLE
MICHIGAN DEPT. PUBLIC HEALTH	ROBERT MOODY, HEALTH PHYSICIST
HAYES TOWNSHIP,	LEE SNEATHEN, JR., SUPERVISOR
ANTRIM COUNTY	EVERETT ASH, COMMISSIONER
" "	CHARLES HUNTLY, "
" "	O.J. LITTLE, DIRECTOR OF CIVIL DEFENSE
LEELANAU COUNTY	BILL CHATFIELD, " " "
M.S.P. POST # 71,	JAMES TYLER, COORDINATOR EMERGENCY SERVICES
D.C.P.A., REGION 4, BATTLE CREEK	RAY S. KELLOG, REGIONAL FIELD OFFICER
CITY OF BOYNE CITY	TIMOTHY J. CLIFTON, CITY MANAGER
EVANGELINE TOWNSHIP	BESSIE VAN DORN, SUPERVISOR
" "	PHIL VAN DORN, REPRESENTATIVE FOR TWP.
CITY OF EAST JORDAN	FERN MORRIS, CITY CLERK-TREASURER
CHARLEVOIX COUNTY ROAD COMMISSION	FRED WELCH, ENGINEER
" " " " "	LEONARD ZAKRZEWSKI
BOYNE VALLEY TOWNSHIP	LOUISE MA GEE, CLERK
" " "	JOSEPH TOPOLINSKI, SUPERVISOR
	RALPH RICHARDSON
ALLEGAN COUNTY CIVIL DEFENSE	ROGER WEBB, DIRECTOR
ALLEGAN COUNTY " "	GEORGE R. HAPLAN, P.I.O.
CONSUMERS POWER, BIG ROCK PLANT	CHARLES AXTELL, HEALTH PHYSICIST
" " " " "	GLENN DAFOE, SECURITY
WEXFORD COUNTY CIVIL DEFENSE	HERRITT CHANDLER, DIRECTOR
HAYES TOWNSHIP	BARBARA GALLAGHER
CONSUMERS POWER CO, JACKSON	MILTON JURY
CHARLEVOIX COUNTY BOARD OF COMMISSIONERS	THOMAS O. BREAKEY, COMMISSIONER - CHM, E.S. CC
EAST JORDAN FIRE DEPARTMENT	THOMAS O. BREAKEY

COMMUNITY/AGENCY	NAME/TITLE
BAY SHORE AIR FORCE STATION	LT. MICHAEL DEACY
EMMET COUNTY CIVIL DEFENSE	JOHN D. LEWINSKI, DIRECTOR
ANTRIM COUNTY ROAD COMMISSION	ARTHUR BIEHL, CHAIRMAN
CHARLEVOIX COUNTY COMMISSION	MARVIN LODING, COMMISSIONER
	ROLLAND R. PUTMAN
CHARLEVOIX COUNTY COMMISSION	CASIMIR TONON, COMMISSIONER
" " " "	DELBERT INGALLS, "
" " " "	CLYDE CUNNINGHAM, CHAIRMAN,
BOYNE CITY PUBLIC SCHOOLS	RICHARD KELLY, SUPERINTENDENT
CHARLEVOIX COUNTY ROAD COMMISSION	DICK STANGIS
" " " "	WILL NICHOLS
AMERICAN RED CROSS	T.W. GUINNEE
CHARLEVOIX COUNTY A.S.C.S. (USDA)	BEVERLY MC DONALD
U.S. SOIL CONS. SERVICE	BILL GRIMM, DISTRICT CONS.
MASON COUNTY SHERIFF	BOB ENGLEBRECHT, UNDERSHERIFF
MASON COUNTY CIVIL DEFENSE	NELLIS RIISBERG, DIRECTOR
CHARLEVOIX PUBLIC SCHOOLS	GORDON VAN WIEREN, SUPERINTENDENT
CHARLEVOIX SCHOOLS	V. R. OLACH, BUSINESS MANAGER
M.S.P. POST # 78, PETOSKEY	SGT. R. BODZICK
NORWOOD TOWNSHIP	NANCY RITSEMA, CLERK
" " "	EVELYN FARRELL, SUPERVISOR
MANISTEE COUNTY EMERGENCY SERVICES	BERYL AMBURGEY, COORDINATOR
MANISTEE COUNTY	IRWIN JOHNSON, COMMISSIONER
CHARLEVOIX POLICE DEPARTMENT	JACK R. MOL, CHIEF
CITY OF CHARLEVOIX	JAMES BRINKER, ACTING CITY MANAGER
AMERICAN RED CROSS, CHARLEVOIX CHAPTER	JASON H. SNYDER, EAST JORDAN

<u>COMMUNITY/AGENCY</u>	<u>NAME/TITLE</u>
DEPT. SOCIAL SERVICES	DOUG MC COMBS, SPEC. SERV. COORDINATOR
DISTRICT HEALTH DEPARTMENT #3	FRANCES HOOPER, NURSING DIRECTOR
CHARLEVOIX COUNTY	JOAN BLANCHARD, EQUALIZATION DIRECTOR
DISTRICT HEALTH DEPARTMENT #3	J.T. HARRISON, MED./DIR.
CHARLEVOIX COUNTY	JOHN HESS, COUNTY PLANNER
" " "	MIKE WEBB
" " "	BOB DAVIS, BOARD OF COMMISSIONERS
CITY OF CHARLEVOIX	F. EARL MUMA, COUNCIL MEMBER
ELK RAPIDS	C.J. HELLER
" "	BOB LOPER
CHARLEVOIX COUNTY	DONALD B. MEGGISON, COMMISSIONER
EVELINE TOWNSHIP	LINDA HILDEBRANT, TREASURER
GRANDVUE MEDICAL CARE FACILITY	R. DONALD CONKLE, ADM.
CHARLEVOIX COUNTY	GEORGE T. LASATER, SHERIFF
PETOSKEY NEWS-REVIEW	NANCY JARVIS
BAY TOWNSHIP	ELAINE SMITH, CLERK
CHARLEVOIX COUNTY	I. LEE MOERLAND, COMMISSIONER
M.S.P.- N.C.P. SECTION	DIANE OGREN
CHARLEVOIX COUNTY EMERGENCY SERVICES	ALICE TUNISON
CHARLEVOIX COUNTY	SCOTT BEATTY, PROSECUTING ATTORNEY
CHARLEVOIX COUNTY BLDG. INSPECTION	MOIRA FETTIG
" " " " "	DICK MAYHEW, INSPECTOR
BAY TOWNSHIP PL. COMM.	BILL OHLE
CHARLEVOIX COURIER	PEG OHLE
DISTRICT HEALTH DEPARTMENT #3	F. DEAN MIKULSKI, DIRECTOR, ENVIRONMENTAL HEALTH

NUREG 0654

Training Support  
for  
Off-site Organizations

EMERGENCY WORKERS

1. Local police personnel
2. Local fire departments
3. Local fire volunteers
4. Social services volunteer support
5. Bus drivers for evacuation
6. Road commission personnel

Emergency workers performing duties in or near the emergency planning zone will receive training in basic nuclear physics, biological effects of radiation, radiological emergency response, support organizations' structures, responsibilities and procedures.

Utility, state and local trainers

EOC PERSONNEL

7. Local department directors/coordinators
8. Emergency Services coordinators/staff
9. State EOC staff
10. State OSEOC staff

Personnel working in emergency operations centers will receive training through annual orientations, drills, and exercises.

State and local trainers

COMMUNICATIONS PERSONNEL

- 11.\* Utility response personnel (EOF)
12. Communications personnel - state
13. Communications personnel - local

\*As communications relates to off-site organizations.

State and local trainers

ASSESSMENT PERSONNEL

14. Radiological monitoring teams
15. Accident assessment/analysis personnel

On-the-job training  
Interdepartmentally  
Annual orientations, drills, and exercises

State trainers



NEWS MEDIA

16. News media (warning)
17. News media (general news)

Annual news briefings.

Utility, state, and local personnel

HEALTH MEDICAL

18.\* Health medical support for evacuation

19.\*\* Health medical support for handling contaminated victims

\*Health medical support for evacuation will receive training in basic nuclear physics, biological effects of radiation, radiological emergency response, and support organizations' structures, responsibilities and procedures.

Utility, state and local

\*\*Health medical support for handling contaminated victims.

Utility

OTHER STATE PERSONNEL

20. State Police posts
21. State trainers/planners
22. State department field personnel

Will be trained annually.

State

BASIC NUCLEAR PHYSICS Operations of a Nuclear Power Plant	Utility	1 hour
BIOLOGICAL EFFECTS OF RADIATION	Rad. Health	1 hour
RADIOLOGICAL EMERGENCY RESPONSE	State	1 hour
SUPPORT ORGANIZATIONS' STRUCTURES AND RESPONSIBILITIES	Local	1 hour