

DE-FG05-96OR 22522

DOE/OR/22522--T3



# TEMA - DOE ANNUAL REPORT

July 1, 1997 - June 30, 1998

MASTER

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**TEMA-DOE ANNUAL REPORT**  
**(July 1, 1997 – June 30, 1998)**

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**1. Multi-Jurisdictional Emergency Response Plans**

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The Tennessee Emergency Management Agency (TEMA) will develop off-site Multi-Jurisdictional Emergency Response Plans (MJERPs) in coordination with Federal, State, and local agencies. The MJERPs will describe actions to minimize the risks to the citizens of Tennessee as a result of an off-site release of hazardous material from the DOE Oak Ridge Reservation.

**1<sup>st</sup> Quarter (July 1 – September 30, 1997)**

- DOE ORR Multi-Site Plan will be distributed by December 15. ( **Attachment 1** )
- Developed a list of issues that need resolution by coordinating with DOE, DRH, and DOE-O. ( **Attachment 2** )
- Developed new field monitoring concept and distributed draft to involved agencies.
- Developed and supplied LMES with a notification matrix for reporting events to off-site agencies.
- Developed planning information with Loudon County EMS. Coordinated Loudon County sheltering with Loudon County American Red Cross.
- Verified sheltering requirements and assignments with Anderson County American Red Cross Chapter.
- Coordinated with Water Programs on their roles and actions during a DOE emergency.
- Coordinated with TVA on their roles and actions during a DOE emergency.
- Developed a list of agency SOP requirements for area coordinators.
- Coordination has occurred with local agencies and information has been provided regarding roadblocks, evacuation routes, shelters, and endangered facilities by Knox County, Anderson County, and the City of Oak Ridge. Evacuation of non-ambulatory personnel will be coordinated by the State EMS Coordinator in conjunction with the local EMS Coordinator through the regional med-com system.

- Roane and Loudon Counties are reviewing their responsibilities with the area coordinator. The changes and additions will be incorporated in the ORNL plan next quarter.
- The latest version of the *Oak Ridge Reservation Emergency Plan* was reviewed and comments were submitted last quarter. Awaiting the latest draft to incorporate the new consolidated on-site concepts into the off-site Plan.
- All SARs for the Y-12 Plant have been reviewed in previous quarters. The ORNL SARs, BIOs, and security documents that were available from the ORNL Emergency Management Office have been reviewed. However, these documents were not inclusive or current. TEMA is awaiting a requested basis list. No ORNL hazard assessment documents have been completed per DOE Order 151.1. Requests have been made for the newly developed hazard assessments for the Y-12 Plant.
- Review of SOPs in Anderson and Knox County and the City of Oak Ridge is ongoing and none have been found deficient. Knox County has elected not to establish DOE-related procedures. In lieu of this, checklists have been developed for attachment to the county's basic emergency operating plan. These checklists will provide tasked agencies with general plan guidance and specific plan references.
- The following SOPs have been reviewed for Loudon and Roane Counties: Loudon County Emergency Management Agency, Loudon County Highway Department, Lenoir City Schools, Loudon County Emergency Management Auxiliary Police, Loudon County Emergency Management Communications, Loudon County Department of Human Services, Loudon County Emergency Medical Service, Roane County Executive, Roane County Emergency Management Agency, Roane County Emergency Communications E-911, Roane County Department of Human Services, and Roane County Health Department. (Copies of all SOPs that are reviewed will be on file at TEMA-East.)
- The State ESCs are being tasked to develop SOPs for their agencies and by the end of the third quarter, reviews will be conducted to insure they are complete.

**2<sup>nd</sup> Quarter (October 1 – December 31, 1997)**

- The MJERP was completed and distribution started prior to the projected date of December 20th. The MJERP is a complete rewrite of previous version which includes the following significant changes:

- Consolidation of off-site information into a single multi-site document.
- Incorporation of EMNET and automatic paging system.
- Consolidated control and communication at the EMCC of State and Contractor field monitoring teams.
- Incorporation of new emergency classifications and centralized on-site emergency management concept.

These new concepts were coordinated and reviewed with the affected State and local agencies.

Distribution of the MJERP to all recipients is expected by January 15<sup>th</sup>.

- The review of the draft Oak Ridge Reservation Emergency Plan, November 1997, is in progress. Written comments should be distributed to the DOE by February 28, 1998.
- New SARs, not yet reviewed, were requested. Review will be started upon receipt of these documents.
- Coordination has continued with Knox, Anderson, Roane and Loudon Counties regarding roadblocks, evacuation routes, shelters, and endangered facilities. Information regarding roadblocks and shelters was updated and provided for inclusion into the MJERP. Drafts of the MJERP were distributed to Oak Ridge, Anderson and Knox Counties for purpose of review, comment, and reference for procedural checklists.
- Review of standard operating procedures is ongoing. MJERP checklists have been developed outlining agency responsibilities. Copies of these checklists were submitted last quarter and are complete except for Plan references. Anderson County EMA is presently completing a MJERP checklist for attachment to general operating procedures. This checklist will be inclusive for the City of Oak Ridge and will include an authorized signature from each affected department.

### **3<sup>rd</sup> Quarter (January 1 – March 31, 1998)**

- The Oak Ridge National Laboratory (ORNL) annex to the MJERP was completed. The off-site plan was distributed for comment and will be used as a working draft during the FPE on April 22, 1998. Comments and changes will be accepted next quarter for incorporation into the final document and will become a part of the MJERP.

- Required information on hazard assessment from the ORNL has not been received by the State. DOE is aware of this short fall. When the information is available, it will be incorporated into the MJERP.
- The State is attempting to complete a study of the evacuation routes and will incorporate this information into the ETTP review during the first quarter of the 1998-99 contract.
- Coordination continues with Knox County, Anderson County, and the City of Oak Ridge regarding roadblocks, evacuation routes, shelters and endangered facilities. Information concerning these activities was included in the MJERP draft and provided to the entities prior to the February 18, 1998 exercise. In addition, a MJERP review with the municipalities was conducted on March 11, 1998, to identify any weaknesses and familiarize applicable personnel with the plan's format and content. Two areas of concern were identified regarding Knox County and have been turned over to the responsible sections for corrective actions. The first item of concern is the lack of a ringdown line to Knox County. This conflicts with plan verbage and delayed timely notification to the county during the ORNL exercise. TEMA's telecommunication group and Assistant Director of Plans and Programs were briefed on the problem for the purpose of determining corrective actions. The second item concerns administrative activities associated with radiological monitoring of the shelters. This concern was forwarded to TEMA's radiological officer for resolution and will be tested during the April 22, 1998 ORNL FPE.
- SOP's continue to be reviewed and developed. Knox County completed MJERP checklists for inclusion in their basic Emergency Operating Plan and specific MJERP references will be added. The checklists were successfully utilized during the February 18 exercise. Checklists for Anderson County and the City of Oak Ridge have been developed and are presently pending review and approval by individual departments. The final approval and submittal is expected next quarter.
- Roadblock, shelter and evacuation route information for Loudon and Roane Counties was available and used for the exercise in February.
- SOPs have been reviewed in Loudon County for the following: Loudon County Emergency Management Agency, Highway Department, Lenoir City Schools, Emergency Management Auxiliary Police, Emergency Management Communications, Department of Human Services, Emergency Medical Service, Sheriff's Department, and American Red Cross Chapter.
- SOPs have been reviewed in Roane County for the following: Roane County Executive, Emergency Management Agency, Emergency Communications E-911, Department of Human Services, and Health Department.

- The development of SOPs for state agencies has been initiated as a directive to the Emergency Services Coordinators. Reviews of SOPs have been assigned to the Plans and Programs Division. No county SOPs have been found to be deficient.
- A rewrite of the ETTP off-site plan will begin during the first quarter of the 1998-99 contract period and will be utilized for the FPE scheduled for April 21, 1999.

#### **4<sup>th</sup> Quarter (April 1 – June 30, 1998)**

- Major changes to the plan were made and distributed to all plan recipients.
- The MJERP is undergoing a complete revision. About half of the plan has been rewritten. A final draft for signatures will be distributed on or about October 15.
- Met with Roane County EMA Director to finalize evacuation routes and sheltering in Roane County.
- To ensure the State plan accurately reflects DOE Orders, the current DOE Orders, Guidance, and Manuals (151 and 232 series) were downloaded from the Internet and reviewed. A meeting with DOE has been scheduled to review State concerns regarding the impact of the latest changes to DOE Orders on off-site emergency plans.
- TEMA reviewed the Oak Ridge Evacuation Modeling System (OREMS) software supplied by the ORNL. A major problem in the software was reported to the DOE and TEMA is awaiting response. TEMA has requested technical support from the ORNL on the use of OREMS software. TEMA is awaiting a reply on providing this support.
- TEMA has reviewed Volume 1 and Volume 2 of the ETTP Emergency Action Level documents. These documents were reviewed for consistency with the draft ORR Plan and the State plan. Discrepancies were noted on all scenarios that may impact off-site residents. These comments will be presented to DOE after review of all eight volumes.
- In previous quarters TEMA has reviewed all available Safety Analysis Reports for the Y-12 Plant and ORNL. Without a basis list, however, TEMA cannot be assured that the reviewed documents were current, or that the review included all approved documents. TEMA has not been able to obtain a basis list for documents at the ETTP and ORNL. A request was made to DOE for an ORNL basis list over one year ago. This request has not been satisfied. TEMA will request in the following quarter that a basis list for all approved documents at the Oak Ridge Reservation be provided to TEMA.



- TEMA has completed comment on about 75% of the ORR Emergency Plan (Draft, November 1997). TEMA was informed on May 12, 1998 that an approved copy of the ORR Emergency Plan would be distributed to TEMA. TEMA has not yet received a copy of this plan.
- No standard operating procedures have been found to be deficient. The review and development of SOPs is continuing. Knox County added MJERP references to previously developed BEOP checklists. Checklists for Anderson County have been completed however; the EMA Director has yet to receive the approved documents from the city.
- TEMA initiated development of standard operating procedure for TEMA Operations for notifications regarding DOE events. This procedure should be finalized, signed, and put into operation next quarter.
- Roadblock, shelter and evacuation route information for Loudon and Roane Counties was available and used for the exercise in May.
- Coordination is on going with Knox County, Anderson County, and the City of Oak Ridge regarding roadblocks, evacuation routes, shelters and endangered facilities. Two areas of concern identified last quarter have yet to be resolved. The first item of concern is the lack of a ringdown line to Knox County which prevents notification of county personnel by the SEOC in accordance with the MJERP requirements, which in turn delays the implementation of emergency response measures of Oak Ridge that are needed to complete the project. In addition, the Knox County EMA is updating their pocket-sized SOPs for issuance to response personnel.
- TEMA made changes to the field sampling points and legends on the maps in the FCC, EMCC, and SEOC in coordination with LMES. Additional map needs may be identified next quarter.
- An active LEPC is in operation in Loudon County. The TEMA Area Coordinator for Loudon County attended the April meeting and discussed the responsibilities and commitment of the LEPC.
- Roane County still does not have an active LEPC. The County Executive has tasked the County EMA Director to establish the committee and find a prospective chairperson.
- The Anderson County / Oak Ridge LEPC is making progress with the "Wally Wiseguy" campaign. They are planning to apply for a grant to perform a HAZMAT transportation exercise later this year.
- The Knox County LEPC plans to distribute updated pocket-sized emergency response procedures to response agencies. In addition, the Knox County

Emergency Services group is developing emergency response recommendations for the LEPC / EMA to review and approve. These recommendations are based on after-action reviews of various incidents and should help standardize training and procedures for local response agencies.

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## **2. Exercises**

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TEMA, in coordination with State and local agencies, will participate in functional and full-participation exercises annually in accordance with the MJERPs. All tasked agencies and emergency response organizations will participate in these exercises. Participation shall be of the nature and quality to amply demonstrate the capability of protecting the health and safety of the public in accordance with the established exercise evaluation process.

### **1<sup>st</sup> Quarter (July 1 – September 30, 1997)**

- TEMA, State and local government personnel have attended all functional and full-participation exercises and will continue participation as required under the MJERP for the upcoming ORNL exercises.
- TEMA personnel continue to attend all the ORNL meetings and assist with the development of the scenario package for the 1998 functional and full-participation exercise.
- TEMA staff assisted LMES with a security exercise at the Y-12 Plant and provided player cell interactions on State resources and activities.
- TEMA, DOE and LMES have been active in developing a review of the JIC procedures and identifying additional training that will be needed to provide public information from the JIC. Training needs will be evaluated and made available third quarter.
- Exercise objectives have been established for State and local government. These are in conjunction with those objectives established by the MJERP.
- At the completion of each exercise, the SOPs will be reviewed to ensure they meet the requirements of the exercise. Any deficiencies will be corrected through training and updating the SOPs.

**2<sup>nd</sup> Quarter (October 1 – December 31, 1997)**

- TEMA, State and local government have continued to meet to develop information guides for the ORNL functional and full participation exercises.
- Emergency Alert System (ESS) messages are being developed as a document separate from the MJERP.
- Assisted in development of procedures for TDEC-DOE-O and Department of Radiological Health for dose assessment.
- Continued work on MJERP, evacuation routes, roadblocks, and EAS messages.
- Developed interface with the Tennessee Department of Human Services staff concerning emergency response plans and possible evacuations due to an event at one of the ORR sites.
- Exercise objectives have been established and reviewed for the upcoming exercises. The objectives have been reviewed and refined as the time for the functional and full participation exercises draw near.
- Assisted Roane County in developing a new EOC. The facility will enhance the county's response in a real event or exercise.
- Developed a working draft of personnel who will be trained as evaluators and controllers for the upcoming exercises.

**3<sup>rd</sup> Quarter (January 1 – March 31, 1998)**

- The State actively opened the SEOC, FCC, EMCC, and JIC for the functional and full participation exercises.
- Exercise evaluation criteria were reviewed to reflect changes to the MJERP in an attempt to match evaluation criteria with tasking and to accurately reflect actions on the part of the State.
- Initiated activity on the part of DRH and TDEC-DOE-O to offer input on the criteria used to evaluate the technical response team, EMCC, and field monitoring teams. This is significant since, in the past, they have not participated in identifying the tasking between different departments in their own division.

- Facilitated discussion between TDEC-DOE-O and DRH regarding the function of the field monitoring teams and deployment criteria, which has created a review of TDEC policy and staff in the FCC.
- Assisted DOE-O with field monitoring exercises to test the new concept of operations between DOE and State teams.
- A draft Standard Operating Procedure was developed for TEMA Operations for receiving DOE notifications from the ORR.
- Insured that State evaluators and controllers attended the DOE required training for the Melton Valley Exercise.
- Reviewed the dialogic system and message in an attempt to have concurrence between the call-out and ESF-2 of the MJERP. Revisions in the MJERP will require major re-scripting of the dialogic system next quarter.
- EAS messages were rewritten to simplify the messages and minimize the number of messages. An extensive review was made comparing text with purpose. Most messages are being revised. This task will be completed after the MJERP is finished, as the messages must reflect the final plan changes.
- Members of the Governor's PIO staff were trained on the purpose and methods for pre-formatted EAS messages and the types of events that could occur on the ORR.

#### **4<sup>th</sup> Quarter (April 1 – June 30, 1998)**

- Coordinated activation of state resources for *Volunteer Response '98*.
- Official public information was provided to area residents regarding the exercise and activation of the sirens through radio broadcasts. Several meetings were held with area broadcasters and new personnel at WIVK were briefed on the need for EAS broadcasts.
- Reviewed and edited FPE evaluations and critiques for the evaluation report.
- Completed the review of the dialogic system and created the first draft of the new dialogic messages. Major re-scripting is in progress to shorten the recording time and simplify and update the messages to reflect changes in site descriptions. The automated paging system needs to be updated to include the current list of ESCs and other notifications reflected in the plan. Further development of the notification procedures is pending. Procedures are in final form and pending approval.

- Continued to assist in the review of the MJERP. Many discrepancies between terminology use and conflict of acronyms need to be resolved.
- Continued to update notification lists used in the MJERP.
- Participated in EOC exercise for the ETTP shift operations and occurrence reporting. Provided player cell interactions on state resources and activities.
- Researching the possibility of using the FEMA program *SM 250.9 Exercise Evaluator Workshop* and the *SM 250.8 Controller / Simulator Workshop* for training TEMA evaluator and controllers for the DOE-ORR exercises.

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### 3. Training Tasked Agencies

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TEMA will coordinate training of State and local personnel to ensure all tasked agencies can meet their responsibilities as defined in the MJERPs and supporting SOPs.

#### 1<sup>st</sup> Quarter (July 1 – September 30, 1997)

- The following courses (Independent Study and classroom training) are available to all State and local government personnel:
  - Emergency Program Manager*
  - Emergency Management, USA*
  - Radiological Emergency Management*
  - Hazardous Materials: A Citizen's Orientation*
  - Portable Emergency Data System (PEDS)*
  - A Citizen's Guide to Disaster Assistance*
  - Building for the Earthquakes of Tomorrow*
  - An Orientation to Community Disaster Exercises*
  - The Emergency Operations Center's Role in Community Preparedness, Response, and Recovery Operations*
  - Fundamentals Course for Radiological Monitors*
  - Fundamentals Course for Radiological Response Teams*
  - Radiological Monitor Instructor*
  - Fundamentals Course for Radiological Defense Officers*
  - Radiological Emergency Response Operations*
  - Radiological Series Train-the-Trainer for Radiological Instructors*
  - Integrated Emergency Management Course*
  - Incident Command System/EOC Interface*
  - Introduction to Emergency Management*
  - Emergency Planning Course*
  - Basic Skills: Leadership and Influence*
  - Basic Skills: Decision Making and Problem Solving*

*Basic Skills: Effective Communication*  
*Mass Fatalities Incident Response Course*  
*Managing Search Operations*  
*Recognition and Identification of Hazardous Materials*  
*Hazardous Materials Contingency Planning*  
*Initial Response to Hazardous Materials Incidents: Basic Concepts*  
*Initial Response to Hazardous Materials Incidents: Concept Implementation*  
*Initial Response to Hazardous Materials Incidents: BC & CI hands-off*  
*Incident Command System*  
*Hazardous Materials Team Operations*  
*Hazardous Materials Instructor Methodology*

- No plan familiarization or annual emergency worker training was conducted this quarter; however the plan familiarization training has been presented to the counties for consideration of times and dates. This training will be conducted during the third quarter.
- **Attachment 3** exhibits the *East Tennessee Quarterly Cross-Talk* newsletter, a list of available field training courses, and a TEMA training bulletin. These documents were distributed to State and local government employees and volunteers this quarter to inform them of upcoming field training courses available to the DOE counties. In October the TEMA Emergency Response Calendar and Catalog was provided to applicable EMA's and agencies. Notification of available training was also given at meetings of Local Emergency Planning Committees (LEPCs).
- The TEMA Training Department in Nashville maintains detailed emergency response training records, including course outlines, student rosters, and instructor evaluations. The region's training coordinator maintains records that identify the number of students per county. He serves as the point of contact for all training questions / problems for the DOE counties.

**2<sup>nd</sup> Quarter (October 1 – December 31, 1997)**

- A Plan Familiarization Program was developed for use during the Third Quarter's emergency worker training.
- Attached is the October issue of the *East Tennessee CrossTalk* newsletter. This document was distributed to state and local government employees and volunteers this quarter to inform them of upcoming field training courses available to the DOE counties. The TEMA Emergency Response Calendar and Course Catalog (**Attachment 9**) was provided to applicable agencies. Notification of available training was also given at meetings of Local Emergency Planning Committees (LEPCs).

- The Training Department in Nashville continues to track the emergency response training records.

### **3<sup>rd</sup> Quarter (January 1 – March 31, 1998)**

- State and local response personnel were instructed on the ORNL exercise and participated in training prior to the FPE. A Plan Familiarization Program was developed this quarter and used during the emergency state worker training.
- Emergency response training is ongoing and coordinated with TEMA training personnel. Reminder announcements are made through the quarterly newsletter (Attachment 10), LEPC meetings (Attachment 11), emergency management meetings, and training calendars. The training division in Nashville maintains detailed emergency response training records.

### **4<sup>th</sup> Quarter (April 1 – June 30, 1998)**

- All training courses identified first quarter are still available. The April *Crosstalk* newsletter lists the courses presently offered (**Attachment 12**).
- No plan familiarization of emergency worker training was held this quarter; however, DOE participant training was held prior to the ORNL graded exercise in May with state and local officials.
- Emergency response training is on going. Reminder announcements are made in the quarterly newsletter and at local meetings. UTC and TEMA are working together on the development of CEU's for personnel taking TEMA courses. This should be implemented next quarter.
- TEMA's Training Division maintains detailed emergency response training records.

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## **4. Public Information and Education Programs**

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TEMA will develop, in coordination with State and local governments, public information and educational programs in accordance with the MJERPs.

### **1<sup>st</sup> Quarter (July 1 – September 30, 1997)**

- TEMA personnel reviewed the newspaper, radio and television scripts published by LMES as public information for the public warning system test in September 1997.

- TEMA developed the Emergency Alerting System (EAS) that was used during the public warning system test and has continued to update the EAS messages, which are to be used in conjunction with the MJERP.
- Local governments have addressed the importance of public warning by contacting key businesses and schools within the area. At the present time, arrangements are being made to assist daycare facilities with understanding what an emergency response plan is and how they are to have one to meet their license requirements with the State.
- TEMA staff will be addressing methods of reaching the special needs personnel during the next quarter. The last distribution of the special needs brochure was in 1996.
- The State's transient population within the five-mile EPZ is being reached by the Southeast Talking Telephone Directory, EAS messages, cable TV, and through efforts of local government. An attempt to replace the signage at local lakes and parks will be addressed during the second quarter.
- Area coordinators continue to meet with the Loudon, Anderson, and Knox County LEPCs. Roane County does not have an active LEPC, but attempts to assist them in developing one continue.

**2<sup>nd</sup> Quarter (October 1 – December 31, 1997)**

- TEMA has coordinated with the DOE subcontractors on revising the emergency response information found in the Southeast Talking Telephone Director.
- Emergency Alert System (EAS) messages have been revised for the MJERP and will serve as a separate document. The EAS messages will be ready for the functional and full participation exercises.
- Meetings have been held regarding public awareness programs in Knox and Anderson Counties. The Anderson LEPC applied for and received a hazardous materials emergency planning grant for the purchase of the "Wally Wiseguy" program to be implemented within the Anderson County and Oak Ridge school systems next year. The Knox County LEPC is developing a shelter-in-place brochure for distribution throughout the county. In addition a new handbook was developed regarding emergency plans for day care centers and nursing homes. A training session was conducted by TEMA with the DHS day care licensing personnel.



- Familiarization training for site, state, and emergency response personnel will be conducted during the 3<sup>rd</sup> Quarter. This will include PIO staff.
- All maps to be used in the upcoming exercises are being reviewed. Additional updates on sampling points will be revised and maps will reflect these changes next quarter. A software package for street maps is presently being purchased for the DOE counties. This will allow the counties a better method of controlling evacuation, high-risk areas, etc.
- The State's transient population within the five-mile EPZ is being reached by the *Southeast Talking Telephone Directory*, EAS messages, cable TV, and through efforts of local government. An attempt with DOE and local government to replace the signage at local lakes and parks continues to be addressed.
- Area coordinators continue to meet with the Loudon, Anderson, and Knox County LEPCs. Roane County does not have an active LEPC.
- TVA now has an active Emergency Services Coordinator in the FCC. The positions will allow a more expedient use of TVA resources and police during an emergency.

### **3<sup>rd</sup> Quarter (January 1 – March 31, 1998)**

- Public information material is presently developed prior to each exercise by LMES. The material addresses the exercises and times the sirens will be activated. This information is review by TEMA prior to release to the public and media.
- Coordination regarding public awareness programs in Knox and Anderson Counties is ongoing. The Knox County LEPC, in conjunction with business and industry, developed and published a brochure on sheltering-in-place. The Knoxville Utilities Board distributed this brochure with the February 1998 electric power bills. Initial reaction by the public and news media indicates it was well received. The LEPC plans to research and possibly expand this program in 1999. In addition, Knox County is working with DHS to increase activities associated with daycare planning and public awareness.
- The Anderson County / Oak Ridge LEPC is also working on public awareness activities. They received an emergency-planning grant for the "Wally Wiseguy" shelter-in-place program. The grant was approximately 50 percent less than requested and necessary to start the program; however, with additional financial support from TEMA's DOE section (\$2000) and Anderson County (\$1000), the program's kick-off is scheduled for May 1999.

The LEPCs Community Affairs Committee has named a project chairperson and is presently outlining activities necessary to implement the program.

- The Anderson County EMA and Department of Human Services held a daycare planning session with center directors to assist them with the development of emergency plans.
- Loudon County presently handles their public information and education program through their LEPC.
- Roane County is working to establish an LEPC. The Roane County Emergency Management Director and TEMA Area Coordinator are developing initiatives for public information and education programs.
- No new maps were issued this quarter. The requisition for the DeLorme software was submitted in February 1998; however a purchase order has yet to be received. This software can be utilized in conjunction with EIS. The emergency planning zones need to be revised to reflect readily identifiable landmarks, and maps should be purchased defining the new zones.
- New EAS messages for each of the three DOE sites have been developed to help expedite information.
- TEMA staff attended LEPC meetings on a regular basis. The Anderson County / Oak Ridge LEPC is making progress towards implementation of the "Wally Wiseguy" public awareness program and planning for a HAZMAT transportation exercise later this year. The Knox County LEPC has no new projects planned for the near future; however, was successful with the distribution of its shelter-in-place brochure. The Knox County Emergency Services group is standardizing and expanding the use of ICS within the county. This activity was recently enhanced with the addition of Knoxville Fire Department to the group.
- The training division is presently developing PIO training classes for the upcoming year. This will be the first time that the State has offered public information courses as a part of its training schedule. Other training programs have been offered through ORISE.
- TEMA will make an effort next quarter to direct local government's attention to signage along waterways. TVA has been notified of the need to identify personnel in their campgrounds and assist the State along waterways.

#### 4<sup>th</sup> Quarter (April 1 – June 30, 1998)

- Knox County is continuing activities regarding the development of emergency plans for daycare facilities and plans to evaluate the need to expand their shelter-in-place program in 1999. The Anderson County / Oak Ridge LEPC is continuing activities associated with the "Wally Wiseguy" campaign. The LEPC has purchased the program's license and developed tentative goals necessary to kick-off a successful campaign. However, the additional financial support (\$2000) from TEMA's DOE budget is vital to the campaign.
- Public awareness and public warning systems for Loudon County are currently being handled through the LEPC sub-committee that works with local industry. In addition, public awareness programs have been designed and delivered to health and daycare centers throughout the county.
- TEMA staff delivered public awareness programs to health and daycare facilities in the Roane County area.
- TEMA personnel reviewed the information material published by LMES as public information guides for the public warning test in conjunction with the X-10 FPE. The material consisted of newspaper, radio, and television scripts to notify the public of the exercise.
- TEMA developed new EAS messages and utilized the new message format during *Volunteer Response '98*.
- Public information training is scheduled for August, September, and October 1998.
- A meeting was held with LMES to discuss signage along the boat ramps and campgrounds. TVA will review the material for legal content.
- Emergency response programs requiring mapping are presently being reviewed for the possibility of being updated next quarter.
- The transient population is being reached through the Southeast Talking Telephone Directory, EAS messages, cable TV, and local governments' efforts in identifying additional methods. Signage is being reviewed.
- The Knox County LEPC, in conjunction with business and industry, developed and published a brochure on sheltering-in-place. **(Attachment 13)**

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## **5. Radiological Protection**

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TEMA will provide an operational radiological protection system in accordance with NRC and FEMA requirements for radiological support of the MJERPs and the DOE emergency response program.

### **1<sup>st</sup> Quarter (July 1 – September 30, 1997)**

- The TEMA RIM&C facility maintained, calibrated, packaged, and exchanged a total of 48 radiation detection/measurement kits containing a total of 480 individual pieces of equipment. The kits were delivered to Knox County EMA, Knoxville District Headquarters THP, and the Loudon County EMA.
- A radiological hazard assessment was completed for each local jurisdiction and/or agency prior to delivery and exchange of radiation detection instrumentation to the jurisdictions and agencies noted above. These assessments will be valid until either additional information is presented by the jurisdictions or the next hazard assessment is completed by TEMA.
- The RPO conducted a review of consumable supply inventory available for use during off-site release of radioactive materials from some area of the Oak Ridge Reservation. Expedient floor covering material, decontamination equipment and supplies needed for initial set-up of Mass Care Shelter Decontamination Areas are available in sufficient quantities in appropriate locations which are accessible 24-hours-a-day.
- TEMA continues to monitor the Shipment Mobility / Accountability Collection (SMAC) system reports which are reported to the Science Applications International Corporation.

### **2<sup>nd</sup> Quarter (October 1 – December 31, 1997)**

- Cyclic calibration and repair of radiation protection devices for use around the Oak Ridge Reservation is scheduled by the RIM&C Supervisor and completed during the third and fourth quarters of each Fiscal Year. Devices found to be non-functional during periodic operational checks are replaced out of cycle.
- The equipment issued to local jurisdictions to detect, measure and quantify nuclear radiation and radiation exposure is inventoried and administered utilizing both electronic data record keeping and hard copy documentation. Decontamination supplies and equipment, as well as other consumable supplies, are inventoried prior to and following any radiological event

(training and exercise) to insure sufficient quantities are on hand and at the proper locations.

- Prior to the annual exchange of instrumentation in local political jurisdictions around the ORR, the RIM&C Supervisor coordinates the delivery and the quantities and types of instrument kits containing self-reading dosimeters required by that jurisdiction.
- During the second quarter the RPO received and reviewed delinquent SMAC reports for July, August, September, and October 1997. TEMA coordinated environmental surveys and Enhanced Commercial Vehicle Safety Alliance vehicle inspection on one shipment of Aluminum Clad spent fuel. Reviewed blanket notification of FY '98 shipments of Transplutonium Elements, "Classified Materials," and Aluminum-Clad Spent Nuclear Fuel; RQ, radioactive material, fissile, n.o.s., 7, UN 2918.
- The RPO received first and second quarter SMAC reports from SAIC in December 1997. Reports for July, August, September, and October were also received and analyzed.
- Analyzed requirement for additional radiological survey meters and individual protective devices. Developed specification and purchased radiological survey instruments.

### **3<sup>rd</sup> Quarter (January 1 – March 31, 1998)**

- Radiological detection and measurement instruments repaired, calibrated, and exchanged this quarter:
  - 30 kits in Anderson County (204 instruments)
  - 20 kits in the City of Oak Ridge (184 instruments)
  - 6 kits in Lake City (60 instruments)
  - 6 kits in Norris (60 instruments)
  - 12 kits for TEMA Area Coordinators (120 instruments)
- The in-stock inventory of consumable supplies remains unchanged. A total of 628 instruments were operationally checked, repaired if needed, calibrated, packaged into kits, and delivered to counties adjacent to the Oak Ridge Reservation.
- Three hundred sixty (360) DOE-furnished self-reading dosimeters were processed, verified as operational, calibrated and included in instrumentation kits exchanged in counties surrounding DOE facilities.

- Twenty-three (23) notifications of radiological materials shipments were received and reviewed.
- Six (6) Shipment Mobility / Accountability Collection (SMAC) System reports were received and reviewed.

#### **4<sup>th</sup> Quarter (April 1 – June 30, 1998)**

- The cyclic calibration and repair of radiation protection devices was completed.
- The in-stock inventory of consumable supplies remains unchanged. All other required actions were completed prior to fourth quarter.
- No placement or utilization of DOE-provided dosimeters occurred this quarter.
- The Radiological Protection Officer received and reviewed 17 notifications of radiological materials shipments.
- Shipment Mobility/Accountability Collection (SMAC) report for January and February was received and reviewed. The Corporate Transportation Analysis System (CTAS) report for January – May was received and reviewed.

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### **6. Emergency Management Network Communications**

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TEMA will develop the off-site information for the EMNET, and will assist DOE in the maintenance of the EMNET. (See appendix schedule of key tasks)

#### **1<sup>st</sup> Quarter (July 1 – September 30, 1997)**

- TEMA and DOE continue to work to implement full functionality on the EMNet system. Currently, the ECOMM links are up between DOE and TEMA, and TEMA will work to set up links with the five local jurisdictions once the server moves are completed at DOE and the new servers are installed at TEMA.
- TEMA is purchasing three new file servers for the State EOC to run the various software components and will install a server at TEMA East to assist with network traffic management to eliminate some "bottlenecks" in the system. All network operating software is being upgraded to the latest version.
- TEMA is in the process of implementing a contract with CLC Consulting Group in Knoxville to perform system integration activities concerning the new

servers. They will be available as a technical resource in the event a situation develops which TEMA staff cannot handle.

- TEMA has developed the EIS data that is to be collected in the local jurisdictions.
- TEMA continues to proactively maintain all TEMA portions of the EMNet system. TEMA's portion of the EMNET network has achieved a 100% availability rate since the beginning of the state fiscal year.
- Once the server relocations are completed at DOE and the new servers are installed at TEMA, a daily test procedure will be implemented to insure its continued availability.

#### **2<sup>nd</sup> Quarter (October 1 – December 31, 1997)**

- Developed and put into place contract with CLC Consulting Group to upgrade TEMA's server infrastructure and network operating systems.
- Purchased new file servers for EMNet operations.
- Relocated all agency network operations into new office space.
- Finalized all TEMA ECOMM, addressing rules for implementation during server rebuild (scheduled to begin January 5, 1998).
- Work on obtaining the critical facility information continued. Knox County EMS is approximately 75 percent complete. Anderson County is approximately half complete.
- EMNET projected status for next quarter are as follows: (1) TEMA will replace its entire primary server infrastructure and update all network operating software; (2) conduct preliminary tests of ECOMM connectivity among DOE, TEMA Nashville, and TEMA East to verify functionality prior to exercise dress rehearsal; (3) participate in dress rehearsal exercise; (4) work with CLC Consulting Group contractor to integrate local jurisdictions into EMNet via dial-up remote access server capability existing at the SEOC; and (5) the DOE Planning Group will begin integrating off-site data into EMNet-EIS databases.

#### **3<sup>rd</sup> Quarter (January 1 – March 31, 1998)**

- All primary file servers were replaced and the network operating system software was upgraded.

- Placed file server at TEMA East to allow for quicker log-in / authentication and printing capabilities.
- Installed centralized monitoring system to allow network administrator to be notified as soon as circuit outages occur anywhere in the TEMA network.
- Tested EMNet system with DOE during dress rehearsal exercises.
- Began installation of remote access capabilities for use by local jurisdictions to dial into TEMA network to access EMNet.
- Activities associated with obtaining critical facility information were put on hold due to a decision by TEMA to contract the project.

#### **4<sup>th</sup> Quarter (April 1 – June 30, 1998)**

- TEMA installed remote access devices with analog and ISDN modems for use by local jurisdictions in dialing into TEMA network to access EIS/EMNet. Additional work is being performed to upgrade authentication software to allow for secure access to the system. All preliminary work was completed to order new computer platforms for the SEOC, TEMA East and local governments for use with EMNet.
- TEMA is in the process of renewing contract with CLC Consulting Group for technical support work on TEMA network.
- All EMNet systems functioned correctly during the FPE in May. A preliminary communications capability was tested with Knox County.
- Reconfigured computers in the counties for dial-up capabilities.
- Developed procedures for counties to dial-up the SEOC.

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## **7. Radio and Telephone Communications**

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TEMA will ensure an operational radio and telephone communication system in support of the MJERPs and maintain communication equipment purchased by DOE for emergency response within the risk counties. DOE will continue maintenance support associated with circuits purchased and operated by DOE separate from this agreement and will assist in the trouble-shooting and correction of problems associated with circuits as part of this agreement that are carried over DOE's microwave and fiber network.



**1<sup>st</sup> Quarter (July 1 – September 30, 1997)**

- TEMA staff attended the annual Tennessee Association of Broadcasters (TAB) Conference and participated in a panel discussion on EAS (the last year in review and some of our accomplishments).
- Met with the National Weather Service to discuss alternate access to LP1 stations via NOAA EAS equipment and installation of recording equipment to be used in coordination with EAS and DOE host and risk county exercises and actual events. Also, loaned recording equipment to NOAA on a temporary basis until equipment can be purchased and permanently mounted at their facility.
- Met with TAB, the Society of Broadcast Engineers (SBE), and InComTec regarding the establishment of InComTec as a not-for-profit organization that has developed and is currently administering the Tennessee EAS plan in concurrence with TEMA, TAB, and SBE chapters in the state.
- Coordinated with TAB, WSM radio, regional SBE chapters, NOAA weather, Tennessee Radio Network (TRN) and Speer Communications for scheduling of required monthly statewide EAS tests.
- Traveled to Roane County and met with EMA Director regarding telecommunications needs for their net EOC that is currently under development.
- Reviewed SEOC pit area operation in the ESF format for possible changes or corrections.
- Updated all emergency DOE telephone directories at the SEOC, regional EOC in Alcoa, and host and risk DOE counties. Coordinated with DOE on all updates, changes and corrections.
- Operations Officers tested communications systems on a daily basis with ringdown checks, NAWAS tests, and normal day-to-day usage of telephones, NAWAS, fax machines, and radio systems and circuits with TEMA personnel and field staff.
- TEMA tested telephone lines and equipment at the SEOC pit area and Alcoa REOC pit area for operability.
- Coordinated with vendors on issues relating to routine billing, repair, and maintenance of telephones, T1 service, special circuits, pagers, cellular telephones, and mobile cellular telephone equipment.

- No major outages were noted for this quarter regarding telephones, ring-down circuits, or T1 circuits.
- Continued to work with Loudon County EMA and school system on emergency alert system for city and county schools. FCC license has been filed.
- Worked with the Anderson County Fire Department to locate a radio frequency to use for on-scene coordination.
- Met with Knoxville and Knox County officials to discuss communications improvements to their 800 trucking system. Will also be discussing the possibility of locating a control station at TEMA East for interface to the trucking system.
- Continued to work with Oak Ridge Police Department in reference to a request by TEMA to locate a repeater on their Louisiana Avenue site.
- Began installation of microwave radio system on Buffalo Mountain, TEMA East and Greentop. Due to problems with TVA, the microwave will be located at the state site. This will give TEMA a link into the DOT, Forestry, TWRA and THP systems.
- Began installation of the ice bridge and cable support system at TEMA East.
- Installation of high band repeater at Walnut Mountain is still on hold pending replacement of existing building by THP. Contracts have been let to install retaining walls and grounding of the site.
- The TWRA digital radio that was requested for use at TEMA East was apparently disapproved. TEMA currently has no TWRA interface since they have changed their system to digital.
- Met with DOT communications and discussed their new radio system and how it will effect TEMA/DOE mission. They are planning to install a digital radio system in the near future.
- Attended the APCO International Communications Conference. Many new FCC rule changes went into effect in October 1997 that will have an impact on public safety communications. The FCC is working to create more frequency spectrum available, but will have to begin a transition from analog radio to digital.

**2<sup>nd</sup> Quarter (October 1 – December 31, 1997)**

- TEMA personnel continue to test communication equipment with the DOE to ensure operational readiness.
- Completed FCC licensing for Loudon County school emergency notification system.
- Continued to work with the Department of Safety to locate a VHF repeater at their site on Walnut Mountain in Campbell County. The retaining wall has been erected and the building is in place. TEMA is awaiting word from THP that the electrical service is connected.
- The installation of the ice bridge and cable tray at TEMA East was completed.
- Worked with Anderson County to seek an on-scene radio frequency for the county fire department.
- Began installation of telephone system at Roane County EOC.
- Met with the National Weather Service to discuss the progress of EAS and possibilities for enhancing equipment to be used in coordination with EAS and DOE host and risk county exercises and actual events.
- Met with Tennessee Association of Broadcasters (TAB), statewide Society of Broadcast Engineers (SBE), and InComTec regarding the establishment of InComTec as a not-for-profit organization that has developed and is currently administering the Tennessee EAS plan in concurrence with TEMS, TAB, and SBE chapters in the state.
- Coordinated with TAB, WSM radio, regional SBE chapters, NOAA weather, Tennessee Radio Network (TRN), and Speer Communications for scheduling of required monthly statewide EAS tests.
- Represented TEMA to WSM for all monthly EAS tests.
- Met with Roane County EMA Director regarding telecommunications layout for their new EOC.
- Operations Officers tested communications systems on a daily basis with ring-down checks, NAWAS tests, and normal day-to-day usage of telephones, NAWAS, fax machines, and radio systems and circuits with TEMA personnel and field staff.

- Tested telephone lines and equipment at the SEOC pit area and Alcoa pit area for operability.
- Coordinated with vendors on issues relating to routine billing, repair, and maintenance of telephones, T1 service, special circuits, pagers, cellular telephones, and mobile cellular telephone equipment.
- No major outages were noted for this quarter regarding telephones, ring-down circuits, or T1 circuits.
- There were no revisions or issuance of emergency communication directories this quarter. An update of directories is due next quarter.

**3<sup>rd</sup> Quarter (January 1 – March 31, 1998)**

- TEMA staff met with the National Weather Service to discuss the progress of EAS and provide them with recording equipment to be used in coordination with EAS and DOE host and risk county exercises and actual events.
- TEMA staff met with InComTec regarding the purchase and installation of equipment for connectivity to the statewide EAS system.
- Coordinated with TAB, WSM radio, regional SBE chapters, NOAA weather, TRN (Tennessee Radio Network), and Speer Communications to schedule required monthly statewide EAS tests.
- A TEMA representative was present, either via phone or in person, at WSM for monthly EAS tests.
- Installed telecommunications lines and equipment in new Roane County EOC.
- Performed communications drill on telephone and telecopier lines at the SEOC and REOC. Verified all telephone numbers at SEOC, REOC, and risk counties.
- Tested communication system on a daily basis with ring-down checks, NAWAS tests, and normal day-to-day usage of telephones, NAWAS, fax machines, and radio systems and circuits with TEMA personnel and field staff.
- Tested telephone lines and equipment at the SEOC and Alcoa REOC pit areas for operability.

- Coordinated with vendors on issues relating to routine billing, repair, and maintenance of telephones, T1 service, special circuits, pagers, cellular telephones, and mobile cellular telephone equipment.
- No major outages were noted for telephones, ring-down circuits, or T1 circuits.
- Emergency communication directories were distributed to the counties and City of Oak Ridge prior to the February 18, 1998 exercise.
- Worked with Anderson County on licensing TEMA low band frequency for Anderson County EMA usage and obtaining a fire ground radio frequency.
- Awaiting approval from the City of Oak Ridge to locate radio equipment at city-owned radio site.
- Coordinated with Loudon County to renew Sheriff's Department's FCC license, which had expired.
- Continued to upgrade sound system at SEOC for use during exercises and missions.
- Began making plans for new TEMA high-band radio system (VHF digital narrow band). This will require all DOE high-band equipment currently in use to be replaced.

#### **4<sup>th</sup> Quarter (April 1 – June 30, 1998)**

- Presently reviewing and reconfiguring the emergency communications directories to insure that all numbers are consistent. A new "player call" phone list has been created. TEMA is striving for consistency in the emergency response directories.
- Installed VHF repeater on Walnut Mountain in Campbell County. This will give field teams better coverage along I-75 and north to the Kentucky state line. It will also give some back up to Buffalo Mountain.
- Completed antenna and feedline installation at TEMA East tower. Feedline grounding and interior cable routing is not complete. Microwave antennas will be aligning soon. Greentop microwave was relocated from TVA building to THP building.

- Completed FCC and APCO application to renew low band license for Anderson County EMA, EMS and Fire Department and coordinate a new UHF frequency for on-scene incident response.
- Worked with Loudon County to begin FCC license process to upgrade EMS communications.
- Continued routine maintenance on all TEMA radio equipment that supports the DOE mission.
- Permission from City of Oak Ridge to locate radio equipment at the radio site is pending.
- Continued planning for TEMA radio system upgrade to a digital narrowband. The upgrade will require replacement of all VHF mobile, portable, and fixed equipment.
- Telephone, fax, and ringdown lines were tested and found to be operational. Radio systems and circuits were also tested for operational soundness.

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## **8. Public Warning Systems**

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TEMA will coordinate with Federal, State, and private agencies to evaluate the readiness of the Public Warning System (PWS). This system should provide timely and accurate emergency warning information throughout the DOE counties and the City of Oak Ridge to inform the public in the event of an operational emergency at the DOE Oak Ridge Reservation.

### **1<sup>st</sup> Quarter (July 1 – September 30, 1997)**

- The public warning system was activated this quarter with all three siren systems being tested. A complete report on the system test will be provided next quarter.
- TEMA area coordinators will actively initiate route alerting with the local government officials once a failure of one or more of the sirens is identified.
- Activities relating to public awareness programs are ongoing. During this quarter, information was provided to schools, businesses and other industry regarding the annual PWS test. This information included letters from the site's public affairs office, brochures, and videotapes. In addition, the Anderson County LEPC submitted a request for a HAZMAT emergency planning grant to be used for the purchase of the Wally Wise Guy public awareness kit. This kit

will be used to promote shelter-in-place activities within the school system and at other appropriate functions. Furthermore, research is in progress regarding long-term public awareness recommendations. These recommendations will be provided during the fourth quarter.

**2<sup>nd</sup> Quarter (October 1 – December 31, 1997)**

- Activities relating to public awareness are ongoing. As previously outlined, the Anderson County LEPC received a HMEP grant for the purchase of the "Wally Wiseguy" public awareness kit for use within the county. This program is expected to be implemented late this year or early next year. In addition, Knox County is developing a shelter-in-place brochure for distribution throughout the county.
- An update on the DOE ORR public warning system was received by TEMA for review. A quarterly review will be provided by LMES.
- Local government will activate route alerting once a failure to one or more sirens is identified to the SEOC.

**3<sup>rd</sup> Quarter (January 1 – March 31, 1998)**

- The ORNL FPE has driven the development of new EAS messages. The messages will be utilized during the ORNL FPE along with the activation of the siren system.
- The State will coordinate with DOE to conduct a full activation of the reservation siren system, including EAS messages and public information, in September 1998 in conjunction with the observance of Emergency Management Awareness Day in Tennessee.

**4<sup>th</sup> Quarter (April 1 – June 30, 1998)**

- EAS messages were updated and used during the X-10 FPE.
- Route alerting is presently being reviewed. TEMA reviewed the software developed by X-10 [Oak Ridge Evacuation Modeling System (OREMS)] but has not received assistance from X-10 or DOE in utilizing the software.

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## **9. Off-site Facilities Coordination**

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TEMA will coordinate with State and local agencies for the provision of off-site facilities in support of the emergency response actions resulting from an operational emergency at the DOE Oak Ridge Reservation.

### **1<sup>st</sup> Quarter (July 1 – September 30, 1997)**

- The Tennessee National Guard building in Lenoir City presently serves as the Joint Information Center and the point of exercises, drills, and operational emergencies.
- The primary decontamination and medical facilities for the Department of Energy are the REAC/TS and the Methodist Medical Center of Oak Ridge. The backup medical facility, Roane Medical Center (formerly Harriman City Hospital) trained and evaluated during June 1996. The emergency department personnel from this facility received recurring training on August 6, 1997. In addition, this medical center and servicing EMS ambulance personnel participated in a FEMA-graded MS-1 drill on August 7, 1997 at 1100 hours. Medical center and EMS staff participating in this drill satisfactorily demonstrated capabilities to safely and effectively receive and treat a radiological contaminated injured person.
- Park West Hospital in Knox County is considering the purchase of portable decontamination equipment for use by the hospital's emergency room staff and other response personnel. A vendor demonstration was held this quarter at the hospital. Response personnel from various Knox County agencies and TEMA attended in support of this purchase.
- Local government and the TEMA area coordinators have identified shelter facilities. The facilities are identified in the MJERP.

### **2<sup>nd</sup> Quarter (October 1 – December 31, 1997)**

- The Tennessee National Guard Armory in Lenoir City serves as the Joint Information Center. The facility has been equipped with all operational equipment and can be fully activated within 45 minutes.
- Two exercises relating to a mass fatality incident were held in Knox County. Each of the exercises was successful with a few improvement items noted.
- The Knox County EOC was inspected this quarter. A copy of the inspection is on file. Inspection of the Anderson County EOC is scheduled for next quarter.



Work is progressing towards a new EOC for Anderson County located with the 911 Center. Problems associated with back-up power have indefinitely delayed the opening of either facility. Roane County is presently completing its new EOC and will be ready for operation next quarter.

**3<sup>rd</sup> Quarter (January 1 – March 31, 1998)**

- The Tennessee Army National Guard Armory in Lenoir City continues to serve as the Joint Information Center (JIC) and will be readily assessable for both the ORNL functional and FPE.
- Hospitals in Loudon and Roane Counties have completed the *Hospital Emergency Department Management of Radiation Accidents Course (G346)* and will not need a refresher course until 1999. Both hospitals need to schedule the *Hazardous Materials Workshop for Hospital Staff (G305.16)*.
- TEMA staff works with the American Red Cross during exercises and at times when mass care shelters are needed.
- The Loudon County EOC purchased a new copy machine, fax machine, additional chairs, and radios with grant monies received in FY '97. Plans are being made to increase the number of in-coming direct phone lines to five.
- Construction on the Roane County EOC, located on the third floor of the County Courthouse, was completed this quarter. This new facility was made possible by the DOE grant program and county funding.
- Plans continue to relocate the Anderson County EOC, 911 Center, and EMA office to a consolidated location. The Anderson County EOC inspection is scheduled for next quarter.
- The five-mile EPZs will be evaluated next quarter for changes in industrial, military, or transportation hazards that could effect the safety of a DOE site.

**4<sup>th</sup> Quarter (April 1 – June 30, 1998)**

- A new EOC / EMA Office was approved by the Anderson County Executive. This facility will be located in the county annex building and join the 911 Communications Center.
- Knox County is in the process of upgrading their EOC as outlined in their June 1997 grant application. This upgrade is scheduled for completion next quarter.

- The annual review and evaluation of hazards within the five-mile EPZ's was performed. These reviews were performed by building permits, information from EMA Directors, and/or actually driving through the affected zones. An overview of each county is listed below:
  - Anderson: Commercial development included eight new businesses; residential development included three new or existing subdivisions with approximately 50 new homes. **(Attachment 14)**
  - Knox County: No new commercial development; residential development included eleven new streets with an estimated population increase of 550 people. **(Attachment 15)**
  - Loudon County: Within Sector "A" are six new businesses (Marina and Dock Supply, 759 Manis Road off Hwy 321; Sassy's Clothing, 5482 Hwy 321 N; W.D. Ice Company, 5484 Hwy 321 N; Elaine's Resale Consign It, 110 Hwy 70 W; Judy's Discount Sales, Hwy 70W; and C.J. Motors, 193 Hwy 70 W); one new church (Maranatha Church); and one daycare center (Kiddy Kingdom #2, 321 N at White Wing Road). Within Sector "S" are six new homes on Hickory Creek Road and one new church (Hickory Creek Community Baptist Church).
  - Roane County: EMA Director indicates no change in hazards within the five-mile EPZ.

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## 10. Equipment Procurement / Inventory

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DOE will provide funds, as part of the Total Maximum Expenditure Amount under this agreement, for use by TEMA to purchase, repair, replace equipment, or provide equipment directly, in support of the MJERPs. These funds may be used by TEMA to purchase equipment for use by other State or local agencies. DOE will provide the funds directly to TEMA, which agrees to disburse the funds (or equipment of equal value) to the designated agencies. In providing such disbursements, TEMA shall implement a plan to ensure that these disbursements are utilized to their maximum potential for the primary and continuing support of the MJERPs.

**1<sup>st</sup> Quarter (July 1 – September 30, 1997)**

The following equipment was purchased this quarter:

07/10/97	1	Sharp EU1100 LCD Projector	9,635.00
07/14/97	2	ThinkPad 365XD/16MB RAM Upgr	2,831.11
07/19/97	1	LAN Rack System	6,767.00
08/15/97	2	DeskPro 6000/2.15G/32M/15 3Yr	4,261.46
08/29/97	5	Ludlum radiological instruments	3,475.00
09/11/97	2	Motorola Mobile Radios	4,973.60
09/11/97	5	Motorola Portable Radios	5,562.40
		TOTAL	\$ 37,505.57

**2<sup>nd</sup> Quarter (October 1 – December 31, 1997)**

The following equipment was purchased second quarter:

10/02/97	1	DiscPort Pro	850.00
10/07/97	1	NetServer LXPro/256/4GBHDD, etc.	17,626.44
10/07/97	1	NetServer LHPro/128/9GB/DLT	7,964.88
10/07/97	1	NetServer LHPro/128/9GB	8,446.55
11/07/97	1	Vectra XA, 96MB/2.5GB/17"/3Yr	2,326.97
		TOTAL	\$ 37,214.84

**3<sup>rd</sup> Quarter (January 1 – March 31, 1998)**

No equipment was purchased this quarter.

**4<sup>th</sup> Quarter (April 1 – June 30, 1998)**

04/14/98	1	Hitachi LCD Projector	\$ 2,850.00
		TOTAL	\$ 2,850.00

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**12. Grants**

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A grant, by and between the State of Tennessee, Department of the Military, Tennessee Emergency Management Agency, is for the provision of providing pass-through funding from the Department of Energy to the counties of Roane, Loudon, Anderson, and Knox and the City of Oak Ridge. The annual grant per contract year shall be \$5,000.00 and will be based upon meeting the grant agreement established by the State of Tennessee.

**1<sup>st</sup> Quarter (July 1 – September 30, 1997)**

- The TEMA provided grant monies of \$5000 for Roane, Anderson, Loudon and Knox Counties and the City of Oak Ridge. **Attachments 4, 5, 6, 7, and 8** represent the expenditures per county and city.
- The Roane County Emergency Management Agency is presently applying their \$20,000 grant to building a new EOC on the third floor of the Roane County Courthouse. A breakout of these funds will be attached to the quarterly report once the construction is complete.
- Knox County is the recipient of the '97-98 grant of \$20,000 to upgrade equipment and their EOC. An accountability of the funds will be submitted.

**2<sup>nd</sup> Quarter (October 1 – December 31, 1997)**

- Grant monies for the 1997-98 period are presently being spent. A review of expenditures will be accounted for fourth quarter.

**3<sup>rd</sup> Quarter (January 1 – March 31, 1998)**

A closure on grant money will be included in the fourth quarter report.

**4<sup>th</sup> Quarter (April 1 – June 30, 1998)**

The following is a listing of county and city expenditures for grant money received during the '97-98 budget year:

**City of Oak Ridge**

Laptop computer	\$3,399.00
Remote Point Pluss	669.84
Micro Tek Scanmaker	249.95
Carrying case	228.60
Ear microphone	463.25
<b>TOTAL</b>	<b>\$5,010.64</b>

**Anderson County**

Two D44MJA77A3 K MAXTRAC 300 40 Watt	\$847.28
Two D04MJA77A3 K MAXTRAC 300 2 Watt	625.60
Two HLN9117 GR-500 Series	1,190.00
Two Basic Interface Repeater Controller	561.00
Two 450-479 MHZ UHF Duplexer	668.10
Two 19-inch panel mount	66.30
<b>TOTAL</b>	<b>\$3,958.28</b>

**Knox County**

Pentium computer	\$1,428.75
Tables, chairs, dividers for EOC	7,733.53
Challenger VHF highband control station, Antenna, remote control heads, parts, labor, and installation	2,955.76
<u>3M multi-media projector and accessories</u>	<u>7,983.00</u>
TOTAL	\$20,101.04

**Roane County**

Construction and renovation of EOC	\$29,036.14
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**Loudon County**

To date, EMA Director has submitted no report to TEMA.

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13. Performance Reports

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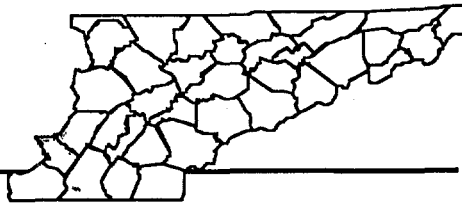
TEMA will be responsible for providing written reports to DOE, which describe, at a minimum, the status of each task listed in the *Performance Tasks* section. Quarterly reports will be submitted within 30 days after the end of the first, second, and third quarters of each fiscal year, and a final report summarizing the full fiscal year, will be submitted within 60 days after the end of the fiscal year. Unless the parties agree otherwise, DOE and TEMA will meet following the submittal of each report in order to discuss DOE's evaluation of the tasks performed under this agreement.

ATTACHMENT 1	DOE Multi-Site Plan
ATTACHMENT 2	List of Issues between State and DOE
ATTACHMENT 3	July and October issues of <i>East Tennessee Quarterly Cross-Talk Letter</i>
ATTACHMENT 4	TEMA Training Bulletin and Field Training Courses
ATTACHMENT 5	Anderson County Expenditures
ATTACHMENT 6	Knox County Expenditures
ATTACHMENT 7	Roane County Expenditures
ATTACHMENT 8	Loudon County Expenditures
ATTACHMENT 9	City of Oak Ridge Expenditures
ATTACHMENT 10	TEMA Emergency Response Calendar and Course Catalog
ATTACHMENT 11	January 1998 issue of <i>East Tennessee Quarterly Cross-Talk Letter</i>
ATTACHMENT 12	<i>LEPC News, Vol. 2, Number 3, March 1998,</i> distributed by Knoxville-Knox County Emergency Management Agency
ATTACHMENT 13	April 1998 issue of <i>East Tennessee Quarterly Cross-Talk Letter</i>
ATTACHMENT 14	<i>Chemical Emergencies: What You Need to Know</i>
ATTACHMENT 15	Memo: Anderson County Demographics
	Memo: Review of EPZ Sectors Q and R

# East Tennessee Quarterly Cross-Talk Letter

April 1998

No. 2-98



## Lessons in Emergency Management Russell Newman, Director, TEMA Eastern Region

In our last article we discussed in some detail the process of disaster planning as a function of *Preparedness*. We looked fleetingly at the technique of hazard analysis, and we very briefly mentioned the role of the Local Emergency Planning Committee in producing an all-hazards response plan. Before we go further, let's look a little deeper into this "animal" we call the LEPC.

If ever there were a tool invented to make the emergency manager's job easier, it would be the Local Emergency Planning Committee. *Sara Title III of the United States Code (Superfund Amendment and Reauthorization Act of 1986, as amended)*, places the onus for creating the LEPC squarely upon the back of local government. The Act clearly states how the committee is organized and who constitutes the membership. It is up to the local director to bring the pressure to bear upon the Executive to cause the committee to be organized and become functional. Once again, *Executive Support* is the key to bringing this important tool into being.

Once established, the committee can be easily subdivided into an overall Steering Committee and as many subcommittees as the Director or Chairman feels will be needed. A subcommittee for each response discipline is considered the minimum; e.g., a Fire Subcommittee, a Rescue Subcommittee, an Emergency Medical Services Subcommittee, and a Law Enforcement Subcommittee are absolute essentials.

A separate subcommittee for industry, training, planning, and exercising are a few of the options that should be examined. Practically any political subdivision will have no trouble identifying persons to serve on the various subcommittees that you may design. Look to the table of contents of your *Basic Emergency Operations Plan*. As a general rule, there should be a subcommittee for each section of the plan.

The Chairperson and the Director should work hand-in-hand in the selection of members and committee chairs. Look for sparkplugs in the community to serve as subcommittee chairs. After all, it is the movers and shakers in any community that will do the best job of planning and executing.

## LEPC Role in Risk Management Rule

Ron Lewis, Phillips 66, Member of the Pasadena LEPC

The Risk Management Program Rule will impact LEPCs. Just what that impact will be is uncertain at this time. EPA published its final RMP rule on June 20, 1996. Affected facilities must develop a three-part risk management program and submit a risk management plan by June 20, 1998. The RMP must include worst case and alternative release scenarios, a five-year accidental release history, a prevention program, and an emergency response program. All of this is to be summarized into a two-part RMP plan consisting of an executive summary and a set of detailed data elements. RMP plans will be submitted electronically to a central point from where they will be available to federal and state regulators, LEPCs, and the public.

The EPA intends that the executive summary be used as a primary communication tool between affected facilities and the local community and LEPC. The data elements are to be used to determine whether a facility is in compliance with the RMP rule.

*In the federal RMP rule, facilities have no obligation to communicate the RMP plan to the public, beyond simply submitting it to the national RMP plan database that EPA is creating.* However, states that take on the responsibility of administering the RMP rule can "add on" requirements relating to public participation and approval of RMP plans.

Under the 1986 *Emergency Planning Community Right-to-Know Act (EPCRA)*, Congress created the framework for emergency planning and reporting relating to hazardous chemical release incidents. Under the EPCRA, Local Emergency Planning Committees (LEPCs) are responsible for receiving chemical inventories submitted by affected companies; using this information to prepare a community emergency response plan; holding regular meetings open to the public; and communicating relevant

emergency response planning information to all stakeholders. The EPCRA also requires LEPCs to have a chair and membership that includes relevant local emergency management officials.

Under the RMP rule, affected facilities have four major obligations to LEPCs: (1) submit a RMP plan with specified information and data to a central point assessable to the LEPCs, emergency responders, and public; (2) describe to LEPCs the worst-case and alternative release scenario results, if modeled, using proprietary software; (3) coordinate the facility's emergency response plan with the community's emergency response plan; and (4) promptly provide needed information to LEPCs or response officials for developing and implementing the community emergency response plan.

LEPCs have existing EPCRA responsibilities, but no new federal responsibility under the RMP rule. Companies affected by the RMP rule want the LEPC to receive this information in as positive a context as possible and integrate the information into the community emergency response plan.

The bottom line is that the RMP rule creates a new context for industry and LEPCs to work closer together to help LEPCs satisfy their EPCRA emergency planning responsibilities using this new RMP information. Affected facilities will want to work closely with the LEPC so that when the community has questions about what a facility is doing to prevent accidents, the LEPC will be able to say that they believe in what the facility is doing and are working hand-in-hand with them. Moreover, when the public asks the LEPC what they are doing to protect the community against accidental releases, the LEPC can show that they are working hand-in-hand with industry to improve the community emergency response plan, based on this new RMP information.

## UTC and TEMA Announce Higher Education Initiative

Bill Worth, TEMA Area Coordinator

The University of Tennessee at Chattanooga, in conjunction with the Tennessee Emergency Management Agency (TEMA), is pleased to announce that a Higher Education Initiative is now in place within our State. This initiative is being implemented in three phases:

- **Phase One**, presently being finalized, provides continuing education credits for courses offered by TEMA.
- **Phase Two**, scheduled to begin in August 1998, will offer a Bachelor of Science Degree in Human Services Management with a concentration in Emergency Systems Management. The concentration includes four junior/senior level courses that are presently in the approval process: (1) Introduction to Emergency Systems Management, (2) Hazard Mitigation, (3) Hazardous Materials Regulations, and (4) Disaster Recovery.
- **Phase Three**, in the development stage, will seek university approval for a bachelor's degree in Emergency Systems Management. The goal is to have this implemented by the year 2000 in accordance with FEMA's higher education initiative.

Questions or comments should be directed to Dr. Marvin Ernst, Program Coordinator for UTC, at (423) 785-2150 or Mr. Bill Worth, TEMA Area Coordinator at (423) 981-5287.

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## DOE Update

Charles Sitzlar, DOE Project Officer

Preparations are being made for *Volunteer Response '98*, the Oak Ridge National Laboratory's full participation exercise, to be held on April 22, 1998. The exercise will test both on and off-site emergency response plans. Responders in Loudon, Knox, Roane, Anderson, and the City of Oak Ridge will have extended roles in the exercise. Many of our emergency response personnel will provide support for the exercise by participating as evaluators and controllers. We appreciate your help immensely.

As with most exercises, no one likes to go through the rigors of what we think we already know. Each exercise, however, finds one learning a little more, and if we are honest, we can identify our shortfalls. As an old saying goes, "We are only as good as we exercise."

If you are participating in the exercise and need information regarding training dates, start times, etc., please contact Kory Gabrielsen, Tom Cloud, or myself at 1-800-533-7343.

## The Weather Corner

Howard Waldron, NWS, Morristown

This winter has seen very unsettled weather across the region. Floods in Carter County left seven people dead and, if not for tremendous efforts by the emergency personnel in that area, the number could have been much higher. Heavy snow across the region severely taxed local resources and now the tornado and severe thunderstorm season is rapidly approaching. It is time to schedule a spotter training session in your county!

Here is an example of how one county made very effective use of this training opportunity. In the morning, principals and representatives from city and county schools were trained (at least one spotter for each school); in the afternoon, the safety committee of a major private industry was familiarized with weather spotting; and in the evening, county emergency responders were trained. The county's police department also expressed

interest in participating. It was a very busy day, but it was worth the effort. This county now has trained spotters providing good coverage and valuable weather information.

*Who makes a good spotter?* Some of our best spotters are HAM radio operators, since they have a nearly continuous communication system with the capacity of transmitting information even if there is a power failure. Police and fire department personnel, school system employees, outdoor workers (such as utility employees), and people from the general population all make excellent weather spotters.

We feel it is vital to have continuing spotter training. It is easy to forget from one severe weather season to the next how to recognize the often-subtle signs of impending deadly weather. If you are interested in scheduling a session for individuals in your county, please contact Howard Waldron at (423) 586-8706.

## REMINDERS . . .

- Please send all requests for training materials, applications, and course requests to Ms. Bennie Jean at TEMA East. Bennie has taken over the TEMA East Training Program and may be reached at 1-800-533-7343 or (423) 981-5285.
- TEMA's new Hazardous Materials Program Manager is Mr. Gary Lima (1-800-262-3402).
- TEMA's Eastern Regional EMA Directors' meeting will take place in April. EMA-Funded Counties are required to be present at this meeting. Additional information will be sent to you under separate cover.
- The *Radiological Monitor Instructor's Course (RMIC)* scheduled for May 27-29, will be held at the Norma Dan Motel, Pigeon Forge, beginning at 8:30 AM. Students who have registered will receive a letter with more information in late April or early May. Prerequisites for this course are Radiological Monitor and Radiological Response Team Courses. Each EMA-Funded County should have their own Radiological Monitor Instructor and Radiological Officer to manage their training program.



- All East Tennessee EMA-Funded counties should submit their "Quarterly Task Summary" and "Addendum to Quarterly Task Summary, Hazard Risk Assessment" for 2nd Quarter (Jan-Mar 1998) to TEMA East no later than April 8.
- Scott Ekholm has resigned from his position as a TEMA Area Coordinator in West Tennessee.
- It's time for quarterly radiological instrument operation checks! Be sure to document!
- EMA Directors should meet quarterly with their city and county training officers to review training needs. It is the responsibility of the LEPC and the training officers to keep track of training for their personnel; however, the EMA Director needs to monitor this training also. HAZMAT training requires eight hours annually to stay current and radiological training requires a refresher every two years for either radiological monitoring or response team. Keep your personnel up-to-date; otherwise, they must start the training process over.
- If you have not completed a flood survey for Brian Boyd of the National Weather Service, please do so at once! You may address questions to Mr. Boyd at (423) 586-2296. The survey is designed to assist your county when the heavy rains start. Thank You!
- Not having a Hazard Mitigation Plan when disaster strikes is just like not having insurance! If you have not completed a plan, what are you waiting for? Directors from city and county departments (road and highway, utilities, finance, emergency service, public works, schools, tax assessor's office) and other local officials should be on the county's Hazard Mitigation Team. The EMA Director and TEMA Area Coordinator can assist with this endeavor. Don't delay. Do it now!
- When was your last county-wide exercise for emergency services organizations? (EMA-Funded counties are required to exercise annually).

### TEMA Formal Training and Major Exercises

(Application cut-off date)

May 27-29	<i>Radiological Monitors Instructor Course</i>	04/10
Jun 9-11	<i>CAMEO for Windows</i>	04/24
Jun 15-26	<i>HMT0 *</i>	04/30
Jul 6-9	<i>Initial Response to Hazardous Materials Incidents - Handoff</i>	05/21
Jul 14-18	<i>Mass Fatalities Incident Response Course</i>	05/29
August 3-14	<i>HMT0 *</i>	06/18
Oct 7-8	<i>Sequoyah Dress Rehearsal</i>	
Oct. 12-16	<i>Advanced Visual Tracking</i>	08/27
Oct. 17-18	<i>HAZMAT Instructors' Conference</i>	09/02
Oct. 27-30	<i>Leadership and Influence / Decision-Making and Problem Solving</i>	09/10
Nov. 16-20	<i>Advanced Visual Tracking</i>	10/01
Nov. 16-20	<i>Hazardous Materials Contingency Planning</i>	10/01
Dec. 8-10	<i>Mass Fatalities Incident Response Course</i>	10/23

\* (Preq: IRHMI:BC/CI, ICS, FCRM)

Remember...formal courses will be cancelled if there are not enough applications received 45 days prior to the course start date. Make your plans now and send in your applications early!

### TEMA Field Training Courses

(Contact the instructor, if you want to attend one of the following courses)

April 6, 8, 20, 23	<i>IRHMI:BC, Seymour FD, 6-10 pm, Charlie Williams, (397-7228)</i>
April 7-10	<i>IRHMI:BC/CI, Kingsport FD, 0800-1700, Troy Hood</i>
April 13	<i>HM Workshop for Law Enforcement, Clinton, Ken Fritts, (457-5400 x 345)</i>
April 21	<i>HM Workshop for Law Enforcement, Clinton, Ken Fritts, (457-5400 x 345)</i>
April 21	<i>HM Workshop for Hospital Staff, Blount Memorial Hospital, Maryville, 0800-1100, Eric Russell (982-7532)</i>
April 28	<i>Overview of ICS, 0830-1130; Alert and Notification, 1230-1430; and Risk Analysis, 1430-1730, 101 E. Beech Street, LaFollette, Bill Worth (1-800-533-7343)</i>
April 30	<i>Rec &amp; ID of HM, Pittman-Center VFD, 1800-2200, John Harris (453-4919)</i>
May 12-13	<i>IRHMI:BC, Dayton FD, 0800-1600, Richard Taylor (479-3594)</i>
May 18, 19, 22, 26	<i>IRHMI:BC, Rhea County FD, 1800-2200, Richard Taylor (479-3594)</i>
June 6-7	<i>ICS/NFA, Northview VFD, Kodak, 0830-1700, John Harris (453-4919)</i>
June 8,9,11,12	<i>IRHMI:BC, Rhea County FD, 1800-2200, Richard Taylor (479-4919)</i>

East Tennessee Quarterly Cross-Talk is distributed by Al Libbrecht, TEMA East Area Coordinator. Comments and contributions to this letter are encouraged and welcomed from all agencies. Please submit articles to TEMA-East, Attn: Al Libbrecht, 836 Louisville Road, Alcoa, TN 37701-1835, or FAX to (423) 981-5610 no later than the 15<sup>th</sup> of the month prior to date of issue. Issue dates are the 1<sup>st</sup> of January, April, July and October.

**D**ue to its many industrial sites and its location on two of the busiest interstates in the United States, Knox County is susceptible to the accidental release of hazardous chemicals from a variety of sources.

Serious chemical accidents are extremely rare. However, it is important for each of us to learn how to protect ourselves and our families in case of a chemical emergency.

# Chemical Emergencies

# Chemical Emergencies:

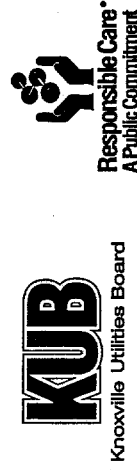
What You Need to Know

**K**nox County's Local Emergency Planning Committee (LEPC) maintains the county's emergency-response plan. LEPC includes representatives from industry, medical services, police, fire, government, and utility agencies as well as interested citizens.

The LEPC, Rohm & Haas, and KUB are working together to educate the public about what to do in a chemical emergency as a community service.

For more information, contact:

Knoxville/Knox County Emergency Management Agency  
423-215-2297



## If There's an Emergency

- Go indoors immediately.
- Close all doors and windows.
- Turn off heating or air conditioning systems and all fans.
- Tune in your radio for emergency information, or turn your television on to a local station.
- Follow emergency authorities' instructions on what to do next. Depending on the emergency and your location, you may be instructed to stay where you are or to evacuate.
- Wait for an official announcement that the danger has passed.

## Shelter in Place

If emergency authorities instruct you to stay where you are, follow these instructions:

- Stay inside your home or other building, preferably in a room with few or no windows.
- Turn off heating or cooling systems, window fans, and other fans. Shut windows, doors, and fireplace dampers, and cover cracks with tape or wet rags if possible.
- Listen to the radio or television for advice and information.
- Cover your nose and mouth with a cloth—wet if possible—if you are told to protect your breathing.
- Keep pets inside.
- Stay indoors until local authorities announce on your radio or television that you can safely leave. They will make an announcement as soon as the emergency is over.
- Follow instructions on what to do after the emergency. For example, if the emergency involved a hazardous material cloud, at the “all clear” you will be instructed to open windows and doors to ventilate the building.

## Evacuation

If emergency authorities recommend that you evacuate the area, follow these instructions:

- Listen to radio and television broadcasts to learn which areas of the community must evacuate.
- Do not call or go to schools to pick up children up unless instructed to do so: Emergency personnel will evacuate them.
- Take only essential items, such as clothes, medicine, baby supplies, portable radio, flashlight, checkbook, and credit cards.
- Lock your house and turn on your porch light as you leave.
- Use your own car if you can; take along neighbors who need a ride if you have a room. If you have no transportation, ask a neighbor for a ride. If you cannot get a ride, walk to a main road.
- Turn on your car radio for information.
- Keep car windows and vents closed. Do not operate the car heater or air conditioner.
- Follow directions from authorized personnel on major routes who will direct you away from the emergency area and toward safety.
- Don't stay to protect your home: Security personnel in the evacuated areas will prevent looting and vandalism.
- Return to your home only after the emergency is declared over and it is safe to return.
- Follow instructions on what to do after the emergency. For example, if the emergency involves a hazardous material cloud, you will be instructed to open all windows and doors to ventilate the building when you return home.





MILITARY DEPARTMENT OF TENNESSEE  
TENNESSEE EMERGENCY MANAGEMENT AGENCY

East Tennessee Regional Office

836 Louisville Road

Alcoa, Tennessee 37701

423-981-2387

1-800-533-7343

MEMORANDUM

TO: Charles Sitzlar, DOE Project Officer

FROM: Bill Worth, <sup>WSW</sup>Area Coordinator

DATE: July 9, 1997

SUBJECT: Anderson County Demographics

The annual review of demographic changes in Anderson County / Oak Ridge was completed by Mr. Ken Fritts and myself. This was performed by review of weekly building permit reports from January 1976 to June 1997, and physical observation of areas in question. A total of eight new businesses and 50 new homes were constructed during this period. Residential construction included three new subdivisions and 14 new streets, located near the outer boundaries of Sectors N and P.

An overview of this activity is provided below:

RESIDENTIAL

14 new streets with 28 new homes

12 existing streets with 22 new homes

COMMERCIAL

Address	Business Type	Sector
1302 Edgemoor	golf course	P
1062 Oak Ridge Turnpike	office	N
120 S. Illinois Avenue	auto repair shop	Y
801 Oak Ridge Turnpike	medical office	N
220 S. Illinois Avenue	office	Y
Cullers Court	nursery (flowers)	Y
40 New York Avenue	office	N
1133 Oak Ridge Turnpike	pharmacy	N

WSW:jhn

CC: R. Newman  
K. Fritts

## ATTACHMENT 15



KNOXVILLE-KNOX COUNTY  
EMERGENCY MANAGEMENT AGENCY  
EMERGENCY OPERATIONS CENTER  
SUITE L-320, CITY-COUNTY BUILDING  
400 WEST MAIN STREET  
KNOXVILLE, TENNESSEE 37902  
TELEPHONE: (423) 215-2297  
FAX: (423) 215-2689

THOMAS SCHUMPERT  
County Executive

VICTOR ASHE  
Mayor

JOE McNALLY  
Director

### MEMORANDUM

TO: Bill Worth  
Tennessee Emergency Management Agency

FROM: Alan Lawson *AWL*  
Knoxville-Knox County Emergency Management Agency

DATE: July 1, 1997

SUBJECT: Review of Emergency Planning Zone Sectors Q and R

With regard to population increases in emergency planning zone sectors Q and R of the Department of Energy Oak Ridge Facilities, I have reviewed data compiled by the Knox County Metropolitan Planning commission. Since January of 1996 eleven new streets have been added. Assuming that fifty persons live on each new street, this would indicate a population increase of 550 due to new construction. This review indicated no new significant industry or special needs populations which have not been already considered.

There are two parks in these sectors, Melton Hill Park and Guinn Road Park. Melton Hill Park has two boat ramps and parking facilities for thirty cars. Guinn Road Park has one ramp and parking for no more than five cars.

There is a water treatment facility on Williams Bend Road adjacent to Melton Hill Park which is operated by West Knox Utility District. This plant has no more than four operators. In the event that an evacuation was necessary, the plant could be shut down in 15-20 minutes. The area served by this facility extends to areas outside Sectors Q & R as far south as I-40.