

U.S. Department of Energy Transportation Emergency Preparedness Program 2005 Annual Report



Special thanks to participants in the Haralson County, Georgia and Leigh Valley International Airport, Pennsylvania exercises who are featured on the front cover of this report.

Transportation Emergency Preparedness Program 2005 Annual Report

Table of Contents

Executive Summary	1
I. Transportation Emergency Preparedness Program Purpose	3
II. Training	3
III. TEPP Central Operations	5
IV. Outreach and Conferences	6
V. GoKits	6
VI. TEPP Exercise and Tabletop Activities	7
VII. 24-Hour Points of Contact List	9
VIII. Technical and Assist Visits	10
IX. Partnerships with Other Agencies	11
X. Program Development and Direction	12
Attachment A	MERRTT Training - FY 2005
Attachment B	Outreach and Conference Listing
Attachment C	MERRTT Overview, Customized and/or CEH Sessions

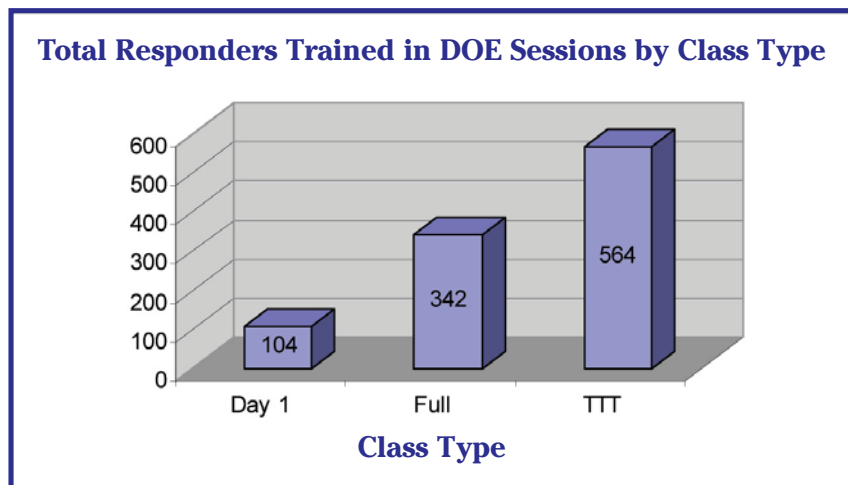
This Page Intentionally Blank

Transportation Emergency Preparedness Program 2005 Annual Report

Executive Summary

The Office of Environmental Management (EM) was established to mitigate the risks and hazards posed by the legacy of nuclear weapons production and research. The most ambitious and far ranging of these missions is dealing with the environmental legacy of the Cold War. Many problems posed by its operations are unique, and include the transportation of unprecedented amounts of contaminated waste, water, and soil, and a vast number of contaminated structures during remediation of the contaminated sites. In Fiscal Year (FY) 2005, EM completed over 21,000 shipments of radioactive material/waste. Because of the increased number of shipments by EM, the role of TEPP in providing technical assistance, conducting assessments, exercise planning activities, and coordinating and delivering training has become increasingly important.

The Transportation Emergency Preparedness Program (TEPP) continues to implement its activities at the state, tribal and local level in the eight TEPP regions. Partnering with state and tribal officials in planning and conducting training sessions is a key to the success of the program implementation and in preparing responders on how to handle a transportation incident involving radioactive material or wastes. In FY 2005, 3,210 responders were trained using the MERRTT materials. Of the total number trained, 1,010 participated in DOE-sponsored training sessions and 2,200 participated in state or local level-sponsored training sessions. A total of 378 responders took advantage of the continuing education hours (CEH) offered for attending MERRTT sessions.



The DOE TEPP continued its efforts with other federal, state and tribal agencies during the past year. This collaborative effort reduces duplication and ensures consistency with activities. In FY 2005, TEPP:

- Worked with Federal Emergency Management Agency (FEMA) to establish an online refresher MERRTT program (IS-302) that is now available through the FEMA Independent Study web site. The self-study program offers refresher information on radiological basics, emergency response actions and an online exam. Upon successful completion of the self-study program, participants receive a certificate from FEMA for completion of the course. During FY 2005, 766 personnel completed the online course and took the exam.
- Continued working with FEMA to update their Radiological Training Program for Hospital Personnel.

Transportation Emergency Preparedness Program 2005 Annual Report

- Participated in the workshop of the American National Standards Institute Homeland Security Standards Panel on Standardization for Training Programs for First Responders in Weapons of Mass Destruction Events.
- Partnered with federal, state and local emergency management and radiation protection agencies to plan and conduct exercises including; Idaho Civil Support Team Exercise; Idaho National Laboratory Annual Exercise; Navy Tabletop, Benton County, Washington; Pennsylvania Lehigh Valley International Airport Federal Express; and the Alabama-Georgia Radioactive Material Transportation Exercise.
- Partnered with the Transportation Community Awareness and Emergency Response (TRANSCAER) on their Whistle Stop Tour. DOE teamed with the Norfolk Southern Railroad which traveled to five cities in five days. Representatives from TEPP provided program overviews, displays, and delivered a MERRTT module to attending students.

During the November Region III Environmental Protection Agency (EPA) Annual Conference in Philadelphia, Pennsylvania, EPA officials recognized and awarded the TEPP Program Manager, Ella McNeil from the Office of Transportation, a Partnership Award for her outstanding efforts in management and implementation of TEPP.

The Continuing Education Hours delivery process was automated between DOE and the Continuing Education Coordination Board for Emergency Medical Services (CECBEMS). This allows MERRTT instructors the ability to issue CEH credit and certificates for completed MERRTT modules eliminating the need for second DOE database to track CECBEMS CEH credit and a second certificate printing process.



Transportation Emergency Preparedness Program

2005 Annual Report

I. Transportation Emergency Preparedness Program Purpose

During FY 2005, the Office of Environmental Management completed over 21,000 shipments of radioactive material and waste. Hazardous material shipments continue to be of concern to communities. This is particularly true for radioactive material. An underlying concern is the adequacy of emergency preparedness along DOE shipping corridors. Within the DOE Office of Environmental Management, the Office of Transportation implements the complex-wide Transportation Emergency Preparedness Program (TEPP) to address preparedness issues for radioactive material and waste shipments. As an element of the DOE Comprehensive Emergency Management System, TEPP provides support to Federal, state, tribal, and local authorities to prepare for a response to a transportation incident involving DOE shipments of radioactive material. TEPP is implemented on a regional basis, with a TEPP Coordinator designated for each of the eight DOE Regional Coordinating Offices. TEPP, by integrating transportation and emergency preparedness activities, takes a coordinated approach to addressing the emergency response concerns of state, tribal, and local officials affected by DOE shipments. TEPP also ensures responders have access to the model plans and procedures, training, and technical assistance necessary to respond safely, efficiently, and effectively to transportation incidents.

II. Training

During FY 2005, TEPP continued its efforts to work with the state and tribal points of contact to implement its activities at the state, tribal, and local level. During the past year, TEPP coordinated with state and tribal officials to sponsor 70 Modular Emergency Response Radiological Transportation Training (MERRTT) sessions. A total of 1,010 responders participated in these DOE-sponsored training sessions. The training sessions were attended by 564 responders as train-the-trainers, 342 responders attended the full 2-day MERRTT sessions, and 104 participated in a full day of MERRTT training. An additional 778 responders participated in an overview or customized MERRTT presentations. Nationally, 13 state or local MERRTT instructors are using the national database to document class attendance and print certificates. These 13 instructors conducted a total of 16 MERRTT sessions in FY 2005 and have entered 179 students into the national MERRTT student database. An additional 2,200 responders received training in their jurisdictions from MERRTT courses provided solely by state trainers. A total of 378 responders took advantage of the continuing education hours offered through the Continuing Education Coordinating Board for Emergency Medical Services (CECBEMS) for attending MERRTT sessions. Details about DOE/state coordinated MERRTT activities can be found in Attachments A and C.



Transportation Emergency Preparedness Program 2005 Annual Report

MERRTT was revised in FY 2005 based on feedback from end users, changes to the Department of Transportation (DOT) regulations and changes in the Emergency Response Guidebook (ERG), and to enhance the hands on exercises. The TEPP/FEMA training videos (*Emergency Response to a Transportation Accident Involving Radioactive Material and Pre-Hospital Practices for Handling a Radiologically Contaminated Patient*) were also revised to reflect the changes in the ERG and the DOT regulations. FEMA will continue to serve as the training video distribution point.



In Region 2 the State of Tennessee is in the final development stages of implementing MERRTT as its base training course for all radiological first responders in the state. Two train-the-trainer sessions were conducted this year and two more are planned for 2006. These four sessions will provide the base of instructors for the Tennessee MERRTT.

Many scheduled TEPP activities in Region 2 were constrained by the need for responders to deal with natural disasters. For example, several planned MERRTT courses in Mississippi were cancelled due to Hurricane Katrina.

In Region 3, TEPP and the Radiological Assistance Program partnered with the Georgia Emergency Management Agency (GEMA) to pilot an advanced radiological instrument training course in Douglasville, Georgia. Upon completion of the advanced instrument training program, GEMA will offer an optional third day of training on future MERRTT sessions to satisfy requests from responders for advanced instrument training.

In Region 4, training has been focused on supporting requests from response agencies and tribal entities along DOE's transportation corridors. TEPP Region 4 met with Texas Bureau of Radiation Control personnel to conduct an update for the state trainers already using MERRTT on the 2005 curriculum's new modules, videos, and practical exercises. Region 4 also continued its efforts to support the Navajo Nation following last year's work with the Nation's Emergency Response Plan and providing a TEPP Needs Assessment.

In Region 5 TEPP staff provided train-the-trainer updates for staff from Illinois, Michigan, Wisconsin, Kansas, and Iowa. These half-day presentations were custom tailored to introduce existing MERRTT trainers to the new 2005 curriculum with its new modules, additional videos, and practical exercises.

As a continued partnering effort, TEPP teamed with the Norfolk Southern Railroad to participate in the October 2004 Transportation Community Awareness Emergency Response (TRANSCAER) Whistle Stop Tour (WST). TRANSCAER is a voluntary national outreach effort that focuses on assisting communities in preparing for a possible hazardous material transportation incident. This was the third year TEPP participated in the WST. This tour once again presented an opportunity for focused TEPP training reaching a targeted audience of first responders. The

Transportation Emergency Preparedness Program

2005 Annual Report

WST TRANSCAER tour occurred in October 2004, and visited five key transportation centers: Decatur, Illinois; St. Louis, Missouri; Princeton, Indiana; and Louisville and Danville, Kentucky. TEPP staff traveled to each stop and provided training in a railroad boxcar converted to a training classroom. A TEPP exhibit was set up at each location to attract participants into the training sessions and provide the opportunity for distributing general information about TEPP. Persistent bad weather limited attendance at the event, but over the course of the week several thousand persons attended the WST and approximately 400 participated in classroom training conducted by TEPP staff.

In Regions 6, 7 and 8 MERRTT materials have been incorporated into state/local training activities along major transportation corridors. A request was received from the Brotherhood of Locomotive Engineers & Trainmen (BLET) for a MERRTT training class. The class was conducted in Portland, Oregon, on July 19-20, and was very well received. One of the attendees of the class stated that he had arrived in Portland with an irrational fear of radioactive shipments of any kind. The training made him realize that shipments could be made safely and he now has confidence in his ability to respond correctly in the event of an incident. The BLET expressed interest in modifying the training to make it more applicable to the work they do as Locomotive Engineers. In all, the states of Washington, Oregon, California, Idaho, Utah, Nevada, and Ohio were represented at the class.



III. TEPP Central Operations

In an effort to standardize many of the TEPP tasks, and to have a central office responsible for copying and distribution of materials for training, handout materials for conferences, and other tasks, TEPP Central Operations was established. Central Operations is the one-stop for the following tasks:

- Schedule and manage attendance at national and regional conferences
- Maintain TEPP display systems and handouts (flat sheets, CDs, TEPP brochures)
- Maintain Instructor GoKits, Hands-on GoKits, and Instrument GoKits
- Print student manuals and administrative paperwork, exams, hands-on exercise activity worksheets, and MERRTT CDs
- Manage MERRTT certificates for users not participating in the MERRTT student database.
- Assist in maintaining TEPP databases (Student database, National TTT Schedule, National Exercise Schedule, National Conference Schedule, TEPP Coordinator Contact info)
- Manage updates of TEPP 24-hour Point of Contacts and post on the TEPP webpage.

Transportation Emergency Preparedness Program 2005 Annual Report

IV. Outreach and Conferences

During 2005, each region worked with various state and federal agencies to participate in outreach activities at both regional and national level conferences and meetings. Activities for these outreach efforts included presentations on TEPP, MERRTT training sessions, and displays of TEPP resources. As a result of the extensive collaborations and partnerships formed between TEPP and the various state and federal agencies, TEPP representatives supported a total of 20 fire service, emergency medical, law enforcement and hazardous material workshops and conferences to provide training and information about TEPP and EM shipping activities. Presentations were targeted to all response functions. Responder feedback at each workshop and conference was excellent. Attendees said the information about TEPP and the handout materials would be very useful in preparing their organizations for response to a transportation incident involving radioactive material. Typically, within 30 days of attending a workshop or conference, regional TEPP Coordinators report an increase in the requests for MERRTT Train-the-Trainer programs and TEPP planning products from local and state officials. Attachment B provides a listing of the 20 workshops and conferences TEPP personnel participated in.

V. GoKits

Many of the states that have adopted MERRTT have state-owned GoKits available for use by instructors within the state. To assist efforts to integrate MERRTT into radiological training programs, DOE-owned GoKits are provided to state and tribal instructors—on a loaner basis—who have received a MERRTT trainer certification at a DOE sponsored train-the-trainer course.

In conjunction with the release of the 2005 version of MERRTT, TEPP representatives coordinated the upgrade of state-owned MERRTT GoKits. State officials from South Carolina, North Carolina, Georgia and Pennsylvania, updated their state-owned GoKits as recommended by DOE. The GoKit upgrades are necessary to support the latest revision of MERRTT.



Transportation Emergency Preparedness Program

2005 Annual Report

VI. TEPP Exercise and Tabletop Activities

Region 1 and 3 Radiological Assistance Program (RAP) and TEPP staff planned and conducted a tabletop exercise and full field exercise in Allentown, Pennsylvania. On September 21, 2005, the Pennsylvania Emergency Management Agency (PEMA), Leigh Valley International Airport (LVIA) Fire Department, Lehigh County, Federal Express, and TEPP conducted a tabletop exercise reviewing roles, responsibilities and expected player actions for an aircraft incident at the LVIA Federal Express Terminal involving radioactive material. On September 24, 2005, the full



field response exercise was conducted with Lehigh and Northampton County responders. The scenario was based on a fire occurring during the aircraft unloading process. The fire spread from the unloading equipment to eight radioactive material packages being unloaded. Several employees were injured trying to evacuate or extinguish the fire. Emergency responders arrived and extinguished the fire, rescued the victims and worked with the radiation authority to determine the extent of the release and needed clean up activities.

TEPP representatives assisted PEMA and local response organizations in the development of an exercise After Action Report (AAR). The AAR outlined organizational strengths as well as weakness or improvement areas that each response organization should improve or retrain. The AAR for the exercise is available on the TEPP website at <http://web.em.doe.gov/otem>. As recommended in the report, PEMA and TEPP representatives will conduct a refresher training session in early 2006 to review and retrain on the recommended improvement items. Approximately 45 responders from participating agencies have agreed to attend the refresher session.

TEPP Region 2 staff supported the planning of a transportation exercise, Crittenden Radiological Incident Transportation/Training Emergency Response (CRITTER), sponsored by the Crittenden County Arkansas Office of Emergency Management, Marion, Arkansas; and the Arkansas Department of Homeland Security. Initial planning sessions were led by TEPP staff from Regions 2 and 3 during FY 2005, with a target date for CRITTER to be November 12, 2005. Early planning identified 15 state, local, and Federal agencies as players with approximately 100 emergency response personnel and controllers/evaluators expected to participate. Due to the impact of Hurricanes Katrina and Rita upon local emergency response assets, the exercise was postponed until December 2005.



Transportation Emergency Preparedness Program 2005 Annual Report



Region 3 TEPP and RAP, along with Waste Isolation Pilot Plant (WIPP) representatives, supported Georgia and Alabama Emergency Management Agencies by conducting an exercise involving a radioactive material shipment. Emergency responders from Haralson County, Georgia, participated in a tabletop exercise on March 21, and full response exercise was conducted on March 24, 2005. The exercise involved a multiple vehicle accident including a TRUPACT II being knocked off the WIPP shipment transporter. The accident involved ten casualties with the local hospital receiving and treating the casualties. The exercise extent of play included the Savannah River Site Emergency Duty Officer, TRANSCOM, and the State 24-Hour Warning Points. To assist in size up and recovery operations, Haralson County responders requested assistance from the State Regional Hazardous Materials Team, Georgia Department of Natural Resources Radiation Protection Team, and the Region 3 RAP Team. A copy of the exercise AAR is available on the TEPP web site at <http://web.em.doe.gov/otem>. The Southern States Energy Board (SSEB) was involved in the exercise planning process and produced a video documenting the effort required to plan, train, and conduct an exercise of this scale. The SSEB worked with TEPP and State of Georgia officials to complete the video script and produce the video. A copy of the video is available from Christopher Wells at the SSEB or Randy Howard at GEMA.

Region 4 TEPP personnel met with representatives from New Mexico's Laguna and Acoma Pueblos as well as representatives from Cibola County in New Mexico to begin planning a joint TEPP exercise. The Laguna and Acoma Pueblos and Cibola County have a mutual aid agreement that will be tested during the exercise simulating a transportation accident involving low level radioactive waste. During the initial planning meeting, representatives from the three agencies decided that the exercise would take place along Interstate 40 on the Acoma Pueblo. In preparation for the exercise, which is scheduled for FY 2006, TEPP representatives will conduct a needs assessment for the three agencies, MERRTT training sessions, and a tabletop exercise.

Region 6 staff supported the Idaho Civil Support Team and State Radiation Control Program training and exercise activities on November 17-19, 2004, in Boise Idaho. Over 50 response and emergency management personnel took part in the various activities. Staff provided support to Idaho Radiation Control's training activities on November 17, participated in the tabletop exercise conducted November 18 and played an exercise participant role for the full-scale exercise on November 19.



Transportation Emergency Preparedness Program 2005 Annual Report

The Region 6 TEPP staff functioned as controller/evaluators for the September 14, 2005, Idaho National Laboratory (INL) Annual Exercise. The transportation scenario for the exercise involved a shipment of mixed low-level waste leaving the site and then stopping at the junction of US Highway 20 and US Highway 26 due to the nature of the overall event scenario (site-wide earthquake causing damage to multiple facilities and many personnel injuries). The transportation exercise event proved successful in that the transport was secured by INL Security Forces until the Rad Monitoring Team checked the drums and requested INL packaging and transportation check of load prior to returning to the INL for more extensive checks. In addition previously identified issues related to Joint Information Center objectives were addressed, and included actual transport of a “contaminated” victim to Eastern Idaho Regional Medical Center in Idaho Falls using one of their ambulances, and to Portneuf Medical Center in Pocatello using their “Life-Flight” helicopter ambulance service. Actual transport verified agreements outlined in the memorandums of understanding.

Region 8 TEPP staff assisted Benton County, Washington Emergency Management with a transportation exercise involving WIPP TRUPACT II training containers on September 20, 2005. The exercise objectives focused primarily on communications between agencies and emergency response from the county fire district and the Washington Department of Health. Region 8 exercised the DOE notification process at Hanford for an offsite transportation incident. The process performed well.



Navy Tabletop: Region 8 TEPP staff functioned as a controller during the September 29, 2005, Navy tabletop exercise conducted with the Confederated Tribes of Umatilla Indian Reservation and Oregon state/local officials.

VII. 24-Hour Points of Contact List

As required by DOE Manual 460.2-1, *Radioactive Material Transportation Practices Manual*, TEPP representatives completed a national 24-hour state point of contact listing. The national 24-hour state contact listing is posted on the TEPP website <http://www.em.doe.gov/otem/program.html>. The 24-hour state contact listing was compiled and verified by utilizing the following sources: Conference of Radiation Control Program Directors directory, Midwest Council of State Governments' Planning Guide for Shipments of Radioactive Material, TEPP 24-hour point-of-contact listing and internet-listed state emergency contact information. The TEPP listing was updated in January and July of 2005. Updates are accomplished by calling each number in the listing and verifying that all contact information is correct. Any discrepancies or new numbers are added as needed before posting on the TEPP website.

Transportation Emergency Preparedness Program

2005 Annual Report

VIII. Technical and Assist Visits

Region 1 and 3 TEPP and RAP staff provided technical support to emergency response agencies in Allentown, Pennsylvania, by conducting a TEPP Model Needs Assessment to identify areas of strength and needed improvement in preparation for a full field TEPP exercise. TEPP staff worked with the agencies to update plans and procedures using the TEPP planning tools.

TEPP Region 2 staff provided technical assistance to the Emergency Management Agency of Kentucky by reviewing a tabletop exercise scenario entitled Pandora's Box, providing an update of radiation emergency response training via MERRTT, serving as an interface between RAP and Greenup County emergency management personnel. Pandora's Box, a tabletop planned by Area 9 of the Emergency Management Agency of Kentucky was intended to simulate a terrorist event involving the theft of a cesium source. The tabletop was conducted in April 2005 at Greenup State Lake Resort Park, Greenup County, Kentucky, with about 100 emergency responders in attendance. The exercise identified a need for area emergency management personnel to become more familiar with radiation instrumentation and use. Region 2 TEPP staff delivered a one-day training program in May 2005 using MERRTT modules and a practical exercise to Kentucky emergency management personnel.

Region 3 responded to a request for assistance on radiological instrument selection from GEMA. GEMA officials purchased five radiological survey instruments that will be used for response to transportation incidents involving radioactive material. These instruments will also be used to support GEMA state training activities. The recently-purchased GEMA survey instruments will be added to the existing State of Georgia TEPP GoKits.

Region 3 TEPP and WIPP staff provided technical support to emergency response agencies in Haralson County, Georgia, by conducting a TEPP Model Needs Assessment to identify areas of strength and needed improvement in preparation for a WIPP transportation exercise. Region 3 TEPP staff worked with the agencies to update plans and procedures using the TEPP Model Plans and Procedures.

Region 4 TEPP staff responded to a request from the Acoma Pueblo in New Mexico for assistance in updating their response plans and procedures. Copies of the TEPP Model Plans and Procedures were provided in an editable electronic format so that the Pueblo could insert their own jurisdictional-specific information.

Region 6, 7 and 8 TEPP staff responded to requests from states and tribes for technical assistance in providing training and preparing for shipments of radiological materials through their jurisdictions. Results from those visits include; completion of the Washington State Needs Assessment using the TEPP Model Needs Assessment and awarding of TEPP insignia patches to trainers who completed a MERRTT T3 and conducted a MERRTT course for responders in their jurisdictions.



Transportation Emergency Preparedness Program

2005 Annual Report

IX. Partnership with Other Agencies

TEPP actively pursues opportunities to partner with federal, state, or private agencies in areas related to homeland security and preparedness for radiological events. During the past year, TEPP has been able to make significant increases in collaborative activities with the Department of Homeland Security/Federal Emergency Management Agency and with other agencies having training and preparedness programs. The following activities improved agency relations and enhanced consistency in radiological training programs across those agencies.

Oklahoma State University

TEPP partnered with the International Fire Service Training Association/Fire Protection Publications (IFSTA/FPP) of Oklahoma State University. IFSTA/FPP is the world's largest distributor of fire fighting training manuals. In an effort to further enhance consistency in radiological training programs being distributed to fire service responders, TEPP personnel assisted with review of radiological portions of two training manuals *Hazardous Materials for First Responders and Awareness Level Training for Hazardous Materials*. These reviews included making recommendations on the topics covered and providing both text and graphical content.

The National Fire Protection Association

The National Fire Protection Association (NFPA) serves as a leading advocate of fire prevention and is an authoritative source on public safety. NFPA publishes 300 codes and standards covering a wide variety of fire prevention and life safety topics. The standards form the basis for many first responder hazardous materials training programs. TEPP activities with this committee involved making recommendations on radioactive material training competencies and developing competencies for hazardous materials responders with a radioactive material specialty. TEPP assisted with clarification of many of the radiological terms and packaging definitions used in NFPA 472 Standard, "*Standard for Professional Competence of Responders to Hazardous Materials Incidents.*" Additionally, guidance was provided for improving the competencies in Appendix D for Hazardous Materials Technicians with a Radiation Specialty. This standard is issued every 5 years and is due for release in early 2007.

Department of Homeland Security/Federal Emergency Management Agency

TEPP partnered with DHS/FEMA to create a web-based MERRTT independent study refresher program. The course can serve as a refresher training course for those students who have completed MERRTT training or for those already proficient in radiological response. The refresher course consists of a select number of MERRTT modules. The course is posted on the DHS/FEMA Emergency Management Institute's Independent Study website and is titled IS-302. Students completing the IS-302 course MERRTT modules will receive a course completion certificate from DHS/FEMA. During FY 2005, 766 personnel completed the online course and took the exam. The course can be accessed at <http://training.fema.gov/EMIWeb/IS/IS302.asp>

TEPP partnered with the DHS/FEMA in delivery of their annual Radiological Series Train-the-Trainer at the Nobel Training Center in Anniston Alabama. A MERRTT Train-the-Trainer was delivered in conjunction with the other FEMA radiological training programs. The Radiological Series Train-the-Trainer course is designed to qualify instructors to teach the DHS/FEMA's Fundamentals Course for Radiological Response (G320) and Hospital Emergency Department Management of Hazardous Materials Accidents (HMA) Radiation Incidents, Part One (G346) in addition to the MERRTT training.



Transportation Emergency Preparedness Program

2005 Annual Report

TEPP is currently working with DHS/FEMA on updating their *Hospital Emergency Department Management of Hazardous Materials Accidents Radiation Incidents* course. The course will be put into the modular format to make it more flexible in its delivery options. As the program currently exists, in order to receive credit for the course all hospital personnel must sit through the entire course. This has presented a problem for non-medical personnel who work in the hospital (security, maintenance, administration, etc.). Non-medical personnel need to receive instruction on many of the topics covered in the training (e.g., how patients are to be received, how to properly set up the treatment area, security concerns, etc.) however, they do not need the in-depth medical portions of the course covering topics such as advanced biological effects and patient care. With the new modularized format, the non-medical material is contained in modules at the beginning of the course. In addition, three of the MERRTT modules have been added to the front portion of the course to give participants an awareness level overview of radiation basics and the potential hazards of radiation exposure. The new course was pilot tested in Allentown, Pennsylvania, prior to the LVIA exercise. The course was well received and feedback was provided on how the course could be further improved. The completed course is expected for release in early 2006 and will be available through FEMA.

TEPP personnel are currently working with the Department of Homeland Security on updating the Homeland Defense Equipment Reuse (HDER) radiological training program. The goal of working together is to eliminate redundancy in the two training programs and to have one training program that will meet the needs of both federal agencies in training emergency responders for response to transportation incidents involving radioactive material or response to terrorist incidents involving the use of radioactive material.

X. Program Development and Direction

TEPP Webpage and Planning Tools

TEPP has made numerous improvements in its MERRTT student database based on feedback from system users. The online database was added to the TEPP webpage in 2004. The national MERRTT database is available to DOE, state, tribal, and local MERRTT trainers. The database allows trainers to input students they have trained into the database. The database provides TEPP with a centralized means of tracking students who have attended MERRTT sessions and affords the opportunity to keep these students up-to-date on TEPP activities and new releases/updates of the MERRTT materials.

Specialist Training Program

During the fall 2004 Transportation External Coordination Working Group meeting, representatives from several states expressed a concern that after the completion of the TEPP MERRTT Program, there is no advanced or next level of training for state and local responders. Based on this discussion, state officials requested that the DOE consider developing an advanced level radiological training program. After some discussion with various state representatives and our own identification of a need for an advanced level of training, the Idaho Radiation Control Program (IRCP) volunteered to act as the lead organization for coordinating the development of a Radiation Specialist Training Program.



Transportation Emergency Preparedness Program

2005 Annual Report

The IRCP convened a core training program consensus development task group in Idaho Falls in March of 2005 to:

- Identify and evaluate existing advanced level radiological training programs
- Identify regulatory training requirements or recommendations
- Discuss and develop a training program course content competencies
- Establish a schedule for developing the specialist training

To ensure all stakeholder needs and concerns will be addressed, the task group agreed to implement a development methodology that involves the establishment of core group to develop a draft training program. At this time the core group involves state and local representatives from Idaho, Pennsylvania, Ohio, Connecticut, Utah, and South Carolina, along with DOE support from the RAP and TEPP.

The specialist training program development effort has been progressing steadily since the March meeting and several milestones have already been achieved. The first milestone was the development of training competencies and a program outline. The training program outline identified competencies that responders will need to successfully respond to a radiological incident, properly advise incident command staff, and mitigate radiological incidents. The second milestone was directly tied to the development of national guidance for the training of radiation specialist level responders.

To accomplish the second milestone, we worked with the NFPA to develop a consensus standard that our proposed training program could meet. The objectives that came out of the Idaho Falls meeting in March were presented to the NFPA Technical Committee on Hazardous Materials for inclusion in the upcoming release of NFPA 472.

Computer-Based Model Needs Assessment

To increase efficiency in using the TEPP needs assessment, each question was reviewed and contingency messages were developed to address projected answers for each Needs Assessment question. Some questions required multiple answers and recommendations. The intention of creating a web based Needs Assessment is to reduce the burden on emergency service organizations from having to develop a written report. By creating a comprehensive database the computer will generate a Needs Assessment Report based on organizational answers to the questions. This computerized assessment will save organizations time in completing the assessment and allowing TEPP to maintain a history of organizations that have conducted an assessment.



Transportation Emergency Preparedness Program 2005 Annual Report

TEPP Patches Awarded

TEPP insignia patches are awarded to trainers when they complete a DOE-sponsored MERRTT Train-the-Trainer and conduct their first MERRTT course for responders in their jurisdictions. Over 250 patches have been awarded to certified trainers nationwide. Those trainers have gone on to teach MERRTT to responders nationwide. During 2005, TEPP patches have been awarded to three personnel in Region 1, three personnel in Region 3, six personnel in Region 4, seven personnel in Region 6 and one person in Region 8.

Regional TEPP Coordinators

In FY 2005, we had some changes in the TEPP Coordinators:

Regional TEPP Coordinator	E-Mail	Telephone Number
Region 1 – Terri Kneitel	kneitel@bnl.doe.gov	(631) 344-2112
Region 2 – Brady Lester	lesterb@oro.doe.gov	(865) 576-8354
Region 3 – Cindy Brizes	cindy.brizes@srs.gov	(803) 725-4170
Region 4 – Vacant	vacant	vacant
Region 5 – Joe DiMatteo	Joe.Dimatteo@ch.doe.gov	(630) 252-2761
Region 6 – Stacey Madson	madson@inel.gov	(208) 526-1532
Region 7 – Mike Cornell	mike.cornell@oak.doe.gov	(925) 422-0138
Region 8 – Yvonne Sherman	yvonne_t_sherman@rl.gov	(509) 376-6216
HQ Program Manager Ella McNeil	Ella.mcneil@em.doe.gov	(301) 903-7284



**Transportation Emergency Preparedness Program
2005 Annual Report**

Region	State	# Classes	City	Transportation Corridor	# Students	# Day 1	# Full	# TTT	# CECBEMS	State/RAP/WIPP Assisted
1	CT	1	Old Lyme	State Radiation Authority	11	0	2	9	2	Yes
1	MA	1	Devens	Civil Support Team	5	0	1	4	3	Yes
1	MA	1	Devens	Civil Support Team	17	0	17	0	10	Yes
1	MD	1	Ocean City	I-95	11	0	0	11	6	Yes
1	MD	1	Pikesville	I-95	5	0	0	5	2	No
1	NY	1	New York	I-95 & 80	23	0	23	0	3	Yes
1	NY	1	New York	I-95 & 80	20	0	7	13	5	Yes
1	NY	1	Upton	I-95 & 80	22	0	22	0	2	Yes
1	NY	1	Upton	I-95 & 80	14	0	14	0	2	Yes
1	NY	1	New York	I-95 & 80	33	0	18	15	5	Yes
1	NY	1	New York	I-95 & 80	29	0	28	1	5	Yes
1	PA	1	Allentown	I-80 & 81	25	0	23	2	9	Yes
1	PA	1	Allentown	I-80 & 81	23	1	22	0	5	Yes
1	PA	1	Allentown	I-80 & 81	13	0	0	13	2	Yes
1	PA	1	Stroudsburg	I-80 & 81	18	1	17	0	7	Yes
1	PA	1	University	I-80 & 81	6	0	6	0	1	Yes
2	KY	1	Louisville	I-64 and I-65	7	0	0	7	2	No
2	KY	1	Louisville	I-64 and I-65	16	0	0	16	4	No
2	TN	1	Clarksville	I-24	13	0	13	0	6	Yes
2	TN	1	Cleveland	I-75	19	0	0	19	8	Yes
2	TN	1	Oak Ridge	I-40, and I-75	7	0	0	7	2	Yes
2	WV	1	Morgantown	I-79	16	0	13	3	0	No
2	WV	1	Morgantown	I-79	24	0	20	4	5	No
3	AL	1	Anniston	I-20, 65 & 59	15	0	0	15	4	No
3	AL	1	Tuscaloosa	I-20, 65 & 59	15	0	6	9	2	Yes
3	AL	1	Bessemer	I-20, 65 & 59	19	7	0	12	17	Yes



**Transportation Emergency Preparedness Program
2005 Annual Report**

Region	State	# Classes	City	Transportation Corridor	# Students	# Day 1	# Full	# TTT	# CECBEMS	<u>State/RAP/WIPP Assisted</u>
3	FL	1	Orlando	NASA & I-95	4	0	0	4	3	No
3	GA	1	Atlanta	I-20, 95, 85 & 75	22	0	0	22	20	Yes
3	GA	1	Buchanan	I-20, 95, 85 & 75	5	0	5	0	0	Yes
3	GA	1	Carrollton	I-20, 95, 85 & 75	16	0	16	0	5	Yes
3	GA	1	Savannah	I-20, 95, 85 & 75	12	3	9	0	1	Yes
3	GA	1	Savannah	I-20, 95, 85 & 75	7	0	7	0	0	Yes
3	GA	1	Savannah	I-20, 95, 85 & 75	13	2	11	0	1	Yes
3	GA	1	Bremen	I-20, 95, 85 & 75	20	1	6	13	8	Yes
3	GA	1	Carrollton	I-20, 95, 85 & 75	14	0	14	0	9	Yes
3	GA	1	Carrollton	I-20, 95, 85 & 75	17	1	16	0	15	Yes
3	GA	1	Forsyth	I-20, 95, 85 & 75	11	0	0	11	7	Yes
3	GA	1	Haralson	I-20, 95, 85 & 75	9	0	0	9	2	Yes
3	NC	1	Greensboro	I-40, 77, & 95	1	0	0	1	1	Yes
3	NC	1	Shelby	I-40, 77, & 95	9	0	0	9	5	Yes
3	SC	1	Myrtle Beach	I-20, 77, & 95	6	0	0	6	6	Yes
4	AZ	1	Phoenix	I-35	13	2	0	11	2	Yes
4	KS	1	Wichita	I-35	9	2	0	7	3	No
4	NM	1	Carlsbad	National Class	2	0	2	0	0	Yes
4	NM	1	Carlsbad	National Class	4	0	0	4	2	Yes
4	NM	1	Carlsbad	National Class	6	6	0	0	0	Yes
4	NM	1	Carlsbad	National Class	9	3	0	6	0	Yes
4	NM	1	Gallup	I-40	15	15	0	0	11	Yes
4	NM	1	Gallup	I-40	12	12	0	0	10	Yes
4	NM	1	Gallup	I-40	15	15	0	0	12	Yes
4	NM	1	Santa Fe	I-25	12	0	0	12	7	Yes
4	NM	1	Carlsbad	National Class	8	0	0	8	0	Yes



**Transportation Emergency Preparedness Program
2005 Annual Report**

Region	State	# Classes	City	Transportation Corridor	# Students	# Day 1	# Full	# TTT	# CECBEMS	State/RAP/WIPP Assisted
4	NM	1	Carlsbad	National Class	4	0	4	0	0	Yes
4	OK	1	Stillwater	I-35	8	3	0	5	4	No
4	TX	1	Alamo Heights	I-35	16	0	0	16	7	No
4	TX	1	Austin	I-35	6	0	0	6	0	Yes
4	TX	1	Austin	I-35	27	0	0	27	2	No
4	TX	1	Boerne	I-35	6	0	0	6	5	No
5	IN	1	Evansville	I-64	57	0	0	57	31	No
5	MI	1	Grand Blanc	I-75 and I-69	8	8	0	0	0	No
5	NE	1	Grand Island	I-40	22	0	0	22	5	Yes
5	NE	1	Grand Island	I-40	23	0	0	23	1	Yes
5	NE	1	Kearney	I-80	5	0	0	5	1	No
6	ID	1	Idaho Falls	I-15	3	0	0	3	0	Yes
6	ID	1	Meridian	I-84	4	0	0	4	0	Yes
7	CA	1	Rialto	I-15, I-10, I-215	6	0	0	6	0	
7	CA	1	San Diego	National Class	9	0	0	9	4	No
7	NV	1	Las Vegas	National Class	33	22	0	11	9	No
8	OR	1	Portland	National Class	24	0	0	24	1	No
8	WA	1	Spokane	National Class	52	0	0	52	0	No
TOTALS		70			1,010	104	342	564	319	



Transportation Emergency Preparedness Program

2005 Annual Report

Attachment B – Outreach and Conference Listing

1. **HazMat Explo7 Conference**, Las Vegas, Nevada – November 15-19, 2004. TEPP staff conducted a MERRTT Day One and a MERRTT train-the-trainer. Forty-four people attended Day One with 11 completing the train-the-trainer.
2. **Emergency Response 2004, San Diego, California** – November 17-19, 2004. Presented a day one MERRTT for 13 attendees and provided a TEPP display booth for over 700 emergency response professionals from around the country. Attendees from Japan, Mexico, and Israel stopped by the booth.
3. **Region III Environmental Protection Agency (EPA) Annual Conference**, Philadelphia, PA. – November 2004. TEPP representatives gave a TEPP briefing and taught two MERRTT modules. Approximately 30 people attended the briefing and MERRTT training. Approximately 1,400 people attended the conference.
4. **Firehouse World Expo**, San Diego, California – January 31-February 4, 2005. Presented a MERRTT train-the-trainer for nine attendees and provided a TEPP display for approximately 6,000 persons attending the conference. Several hundred fire and law enforcement participants stopped by the TEPP display collecting information on TEPP resources and discussing the training.
5. **Best Practices in Radioactive, Hazardous and Mixed Waste Transportation Safety Workshop** held in Phoenix, Arizona - April 8, 2005. The presentation was on the Graniteville, South Carolina, train derailment and how implementation of the TEPP tools and MERRTT program benefited responders. The presentation reviewed the derailment cause, responder actions and resources used from the Savannah River Site to assist in control and clean up of the derailment. Approximately 25 workshop participants attended the session.
6. **National Radiological Emergency Preparedness Conference** in Harrisburg, Pennsylvania - April 11-14, 2005. During the conference a MERRTT Train-the-Trainer session, Department of Energy Office of Environmental Management program update, and a TEPP/MERRTT briefing were provided. Two breakout sessions were conducted with 144 conference participants attending the conference.
7. **North Carolina Annual Law Enforcement Crime Scene Investigators** Conference held in Winston-Salem, North Carolina - April 30, 2005. TEPP and RAP representatives conducted a four-hour MERRTT session. A total of 70 law enforcement offices attended the MERRTT session. Of the 70 officers attending the training 3 elected to receive CEH credit.
8. **Emergency Management Issues Special Interest Group Conference** held in New Orleans, Louisiana - May 2-5, 2005. TEPP representatives attended and delivered several presentations in support of the TEPP breakout sessions. TEPP conducted presentations on the Barnwell County, South Carolina, Spent Nuclear Fuel Exercise, NIMS Integration, and a TEPP Update. Approximately 30 conference participants attended the session.



Transportation Emergency Preparedness Program

2005 Annual Report

9. **WGA TAG Workshop**, Salt Lake City, Utah – May 5-6, 2005. Provided state contacts with TEPP brochures, MERRTT student CDs, and Radioactive Materials Quick Reference Sheets.
10. **Kentucky Occupational Safety Conference**, Louisville, KY. May 11, 2005. TEPP overview presented to a group of 6 professional safety personnel. Conference was attended by approximately 1,200 persons.
11. **Intermountain HazMat Conference**, Layton, Utah – May 19, 2005. Presented a full-day MERRTT, including hands-on exercises to 24 representatives from fire, emergency management, civil support teams and emergency medical organizations.
12. **Firehouse Exposition Conference** held in Harrisburg, Pennsylvania - May 20-22, 2005. TEPP representatives staffed a booth. The MERRTT class that was scheduled as part of the conference was cancelled by the Pennsylvania Emergency Management Agency because only 5 students had registered for the class.
13. **DOE Radiation Round-up**, Idaho Falls, Idaho - June 15, 2005. Provided a TEPP display booth and resources for emergency organizations from across the US who was participating in simulated responses to nuclear and radiological incidents of several different kinds. TEPP flat sheets were used during the exercise portion of the event. TEPP brochures and MERRTT student CDs were provided to visitors stopping by the display.
14. **Southern States Energy Board (SSEB)** meeting held in New Orleans, Louisiana - June 14-15, 2005. Representatives for Alabama and Georgia, along with the Region 3 TEPP Coordinator delivered a presentation on the AL/GA Radioactive Material Transportation Exercise held in Waco, Georgia. The presentation conducted by each agency included discussion on the planning and coordination efforts to conduct the exercise, and lessons learned. Also, as part of the presentation the SSEB played the video they produced to document and explain the exercise. Approximately 40 federal, state and local officials attended the meeting.
15. **Environmental Justice Meetings** – Savannah, Georgia, Augusta, Georgia, Allendale, South Carolina – during June and July, a TEPP representative attended and conducted a TEPP overview and answered questions about TEPP activities within each state. Approximately 130 local and state officials attended the meetings.
16. **International Association of Firefighters Hazardous Materials Trainers Annual Conference**, Palm Springs, California. July 11-14, 2005. Provided a 1.5 hour presentation on TEPP overview and networked with the approximate 85 attendees, all of whom were professional trainers.
17. **Georgia Fire Fighters Conference** held in Valdosta, Georgia - August 1, 2005, Region 3 - Conference attendance was estimated at 600 attendees. As part of the conference, Georgia Emergency Management Agency and TEPP officials provided a briefing on the AL/GA Radiological Transportation Exercise conducted in Waco, Georgia, earlier in the year. The presentation to approximately 50 responders explained the exercise planning process, training provided, and lessons learned. Also, as part of the conference, Region 3 provided a TEPP overview explaining the program elements, MERRTT and how TEPP is being implemented in GA.



Transportation Emergency Preparedness Program 2005 Annual Report

- 18. Local Emergency Preparedness Committee/Tribal Emergency Response Commission Radiation Emergency Response Conference**, in Kansas City, Missouri - August 17-18, 2005, MERRTT overview training was presented for 25 people. Conference was attended by over 400 people.

- 19. Sacramento Continuing Challenge Conference**, Sacramento, California – September 6-8, 2005. Presented a full day MERRTT, including exercises, to 30 emergency responders and emergency managers. Provided a TEPP booth handing out resources to an estimated 400-450 attendees.

- 20. Oak Ridge Emergency Response Forum**, Oak Ridge, TN - October 26, 2004. Provided an overview briefing on TEPP and MERRTT for approximately 20 emergency management professionals and distributed printed material to the rest of the conference attended by 125 people.



Transportation Emergency Preparedness Program 2005 Annual Report

Attachment C – MERRTT Overview, Customized and/or CEH Sessions

Location/Corridor	# of Students	# of CECBEMS	State/RAP Assisted
HazMat Expo7 Conference	44	0	No
Emergency Response 2004	13	0	No
Firehouse World Expo	9	0	No
Sacramento Continuing Challenge Conference	30	3	No
Best Practices in Radioactive, Hazardous and Mixed Waste Transportation Safety Workshop	25	0	No
Environmental Justice Meetings	130	0	No
04-05 North Carolina Law Enforcement Crime Scene Investigators Raleigh, NC, Interstates 40, 95 and 77	70	2	Yes
04-05 National Radiological Emergency Preparedness Conference in Harrisburg, PA	144	0	Yes
Southern States Energy Board	40	0	Yes
8-05 GA Fire Fighters Association Meeting Valdosta, GA - Interstates 20, 95, 85 and 75	50	0	Yes
07-05 International Association of Firefighters Hazardous Materials Trainers Conference Palm Springs, CA	85	0	No
Emergency Management Issues Special Interest Group Conference	30	0	Yes
12-05 Region III Environmental Protection Agency Annual Conference in Philadelphia, PA	23	0	Yes
Local Emergency Preparedness Committee/Tribal Emergency Response Commission Radiation Emergency Response Conference	25	0	No
Oak Ridge Emergency Response Forum	20	0	No
Kentucky Occupational Safety Conference	6	0	No
Idaho State University	10	0	No
Layton, UT HazMat Conf	24	9	No
Totals	778	14	

