U.S. Department of Energy
Office of Environmental Management
Transportation Emergency Preparedness Program

2009 Annual Report

Preparing for Response to Incidents Involving Radiological Material in Transport

The Transportation Emergency Preparedness Program (TEPP) provides assistance in planning and training to help responders in preparing for a radiological transportation accident. Requests for TEPP assistance and training continue to increase; however, we have also seen an increase in State and Tribal instructors that have completed the TEPP train-the-trainer portion of the Modular Emergency Response Radiological Transportation Training (MERRTT) assisting in or teaching within their jurisdictions. Comments received from emergency response organizations participating in those TEPP activities over the last Fiscal Year are noted below:

- *Three volunteer fire departments were already on the scene when we arrived. They were waiting on us to tell them what to do. They had already started evacuation of the Town of Sandstone, which has about 500 people, but we were able to determine quickly that no release from the container had occurred, and stop the evacuation.*
- *We were a whole lot calmer than we would have been because we had been through the training, and we made better decisions. We were glad that we were able to assist someone and prevent it from being blown out of proportion; it was worth sitting in the class.*
- *Honestly I wasn't too excited when I was told I was going to take this class, but I'm glad I did. It is an important subject and the instructors were very knowledgeable in the subject and made it interesting. The instructors cared about how everyone needed to understand how the instruments worked and took the confusion out of it.*
- *First of all we got a big CONGRATULATIONS for the training effort. Navy representatives indicated that they never really focused on training as being a big part of the exercise activity. They were very impressed with the collaboration between the MERRTT instructors and the NNPP Escorts. The Escorts really rounded out the training because of their practical experience and extensive knowledge. MERRTT was just the training that Denver needed!*
- *At a large-scale emergency, you're going to have Federal, State and local agencies working together. The more we train prior to an emergency the more we build those relationships ... We can be more mission specific or task-oriented.*

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Executive Summary

The Department of Energy (DOE), Office of Environmental Management (EM), has made significant progress as they fulfill their responsibility for cleanup of the environmental legacy of the Nation's nuclear weapons program (one of the largest, most diverse, and technically complex environmental programs in the world). With the passage of the American Recovery and Reinvestment Act (ARRA), the DOE began a new era in their efforts for clean up and/or closure of sites. Secretary Chu stated that with new resources and responsibilities, *"DOE will carry out this economic recovery plan with the highest level of speed, transparency, and accountability."* Inherent in DOE's ability to accelerate their clean-up mission is the transportation and disposal of large amounts of contaminated waste, water, soil, and a vast number of contaminated structures to be dismantled during remediation of the contaminated sites. As the transportation of those radioactive material and waste increases, there is the increased potential that first responders will encounter a radiological transportation incident. The challenge facing emergency managers and responders across the country is to conduct proper planning and training to ensure responders are prepared in the event of a radiological transportation accident.

The DOE Transportation Emergency Preparedness Program (TEPP) addresses the concerns expressed by the corridor States and Tribes by providing technical assistance, conducting assessments, planning exercise activities, and coordinating and delivering training for States and Tribes. TEPP is designed and implemented using an approach to ensure that initial responders at a radiological transportation accident have the necessary knowledge and skills needed to effectively and safely mitigate the accident.

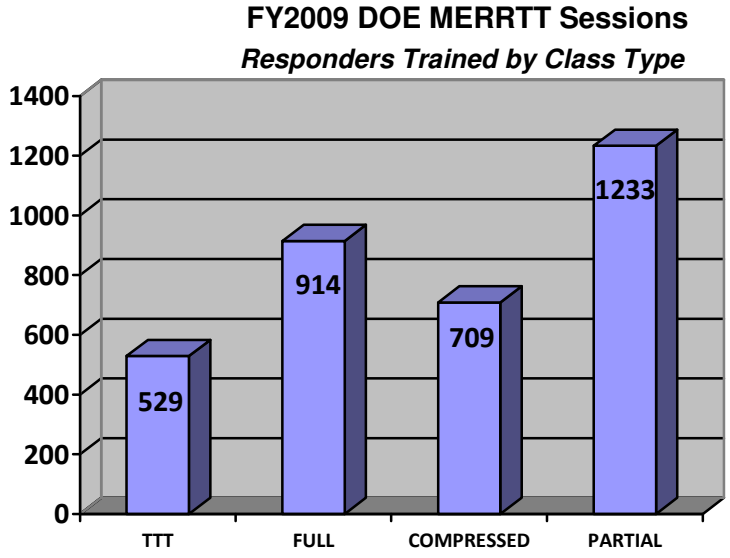
This Fiscal Year 2009 TEPP Annual Report highlights events, scenarios, and training where TEPP has proven to be integral in building radiological response capabilities of States and Tribes that may need to respond to radiological incidents. To help build those capacities, TEPP promotes State and Tribal implementation of the program by providing responders who complete a Modular Emergency Response Radiological Transportation Training (MERRTT) Train-the-Trainer course with the tools and knowledge to integrate MERRTT into their State, Tribal, or local training programs. TEPP emphasizes exercises as a means to measure readiness and ensure that a solid infrastructure for radiological response exists along DOE shipping corridors.

TEPP has proven to be an effective and growing national preparedness resource. The increasing use of the MERRTT training program and TEPP planning tools are strong indicators the Program has been and will continue to be very useful for emergency responders at all levels.

Fiscal Year 2009 TEPP major achievements include:

- Recognized during actual radiological responses as instrumental in having provided training to responders allowing them to make better decisions in mitigating the accidents.

- Formed partnerships with DOE Radiological Assistance Programs (RAP) to provide TEPP resources, technical assistance, and MERRTT courses along DOE shipping corridors.
- Built on cost efficiencies through team-teaching with State and Tribal partners and with the DOE RAP to provide 211 MERRTT courses, resulting in 2,919 responders being trained. An additional 466 responders received State-sponsored training that incorporated portions of MERRTT. Of those responders, 776 received continuing education hours for their participation. The chart below illustrates the attendance per course type. Details on MERRTT courses conducted in FY 2009 can be found in Appendix A.



- Provided TEPP displays, training, or presentations at 17 national, regional, or local conferences and workshops. Staff handed out student training CDs, Emergency Responder Radioactive Material Quick Reference Sheets, TEPP brochures, and discussed planning and training for response to transportation incidents involving radiological materials with interested State, local, and Tribal responders. TEPP participation in conferences and workshops can be found in Appendix B.
- Completed significant enhancements to the MERRTT courses, full videos, and video segments.

OVERVIEW -- TRANSPORTATION EMERGENCY PREPAREDNESS PROGRAM (TEPP)

TEPP is a DOE complex-wide program that integrates transportation emergency preparedness activities under a single program to address the emergency response concerns of State, Tribal, and local officials affected by the Department's radiological shipments. The goal of TEPP is to establish consistent policies and implementing procedures, build public and institutional confidence, and prepare jurisdictions to respond effectively. TEPP technical assistance helps States and Tribes meet an array of hazardous materials transportation and emergency response regulations, rules, requirements, and orders. A variety of TEPP tools, such as model procedures, needs assessments, and exercise scenarios are available for State and Tribal authorities to use in building their radiological response programs.

Needs Assessment

The web-based Needs Assessment tool allows community officials to determine the readiness of their emergency response organizations to respond to a radiological incident. The Needs Assessment identifies response strengths, as well as planning and training areas that need improvement. The assessment tool is designed to evaluate the procedures and capabilities of emergency response elements including Emergency Management Agencies, Emergency Communications Centers, Hazardous Materials Teams, Fire Response Organizations, Law Enforcement Response Organizations, and Emergency Medical Services and Care Facilities.

Model Procedures

Another key component of TEPP is the Model Procedures. Based on improvement areas identified in the Needs Assessment, response organizations use the TEPP Model Procedures to address any gaps or weaknesses. The procedures can be modified and incorporated into the everyday operation of the organization. TEPP Model Procedures available for States, Tribes, and local jurisdictions to use include:

- Model Annex for Emergency Response to a Radiological Transportation Incident
- First Responder Initial Response to Radiological Transportation Accidents
- Hazardous Materials Incident Response
- Properly Handling and Packaging Potentially Radiologically Contaminated Patients
- Medical Examiner/Coroner on the Handling of a Body/Human Remains that are Potentially Radiologically Contaminated
- Radioactive Material or Multiple Hazardous Materials Decontamination
- Model Recovery Procedure for Response to a Radiological Transportation Incident

Training

To meet the jurisdictions training needs, the Modular Emergency Response Radiological Transportation Training (MERRTT) is made available to States and Tribes for use in training their response communities. MERRTT provides fundamental knowledge for responding to radiological transportation incidents by breaking down radiological response into easily understood modules. The course includes hands-on activities using

"live" radiation sources to reinforce learning, and has proven to play a vital role in responder preparedness. MERRTT helps responders develop an understanding of radiological basics; biological effects of ionizing radiation; radioactive material shipping packages; hazard recognition; initial response actions; patient handling; incident control; common radiological survey instruments and dosimetry devices; and decontamination techniques for handling radiologically contaminated victims and response personnel. Resources available to responders during a response are also identified.

The MERRTT program objectives and sequence of the modules align with the hazardous material training competencies specific to radiological material, and that apply to transportation of radiological material, as outlined in OSHA 29 CFR 1910.120(q) and the responder competencies in National Fire Protection Association (NFPA) standards 471 and 472. The MERRTT program has been approved by the Continuing Education Coordinating Board of Emergency Medical Services (CECBEMS) for Continuing Education Hours (CEH). In addition MERRTT has been included by the Department of Homeland Security (DHS) on the listing of Federal courses available for State Administrative Agencies to employ consistent with State strategies.

MAKING A DIFFERENCE: INCIDENTS VALIDATE TRAINING

Responders continue to benefit from their participation in TEPP training, technical assistance, and planning guidance. Within the past 18 months incidents involving radioactive materials have occurred in various parts of the United States. The unique aspect about incidents in West Virginia, Indiana, and Idaho is that response organizations had completed MERRTT training prior to the incidents. In each incident, responder actions and the outcome of each response were all considered to be very effective. The trained responders demonstrated their skills, effectively managed the incidents, and successfully communicated to the media the potential and actual radiological hazards associated with each incident.

After responding to a truck fire involving uranium hexafluoride the Beckley Fire Department responders from Beckley, West Virginia, said they were glad they had been through training provided by TEPP. "*We were a whole lot calmer than we would have been because we had been through the training, and we made better decisions*," said Lieutenant Bryan Trump, the Assistant Training Officer for the Beckley Fire Department. Trump worked with DOE to coordinate training for firefighters from his department in May 2009. Around midnight on Sunday, August 2, a tractor-trailer carrying a cylinder of uranium hexafluoride (UF_6) swerved to avoid debris

on the roadway, overturned and caught fire on Interstate 64 near Beckley. The Beckley Hazardous Material Team arrived on the scene around 3:30 a.m., tested the air for chemicals, and approached the scene with radiological survey instrumentation to determine if radioactive material had been released.

In Evansville, Indiana, a transportation accident involving a radiography source shipped in a Type B package tied up traffic for 1½ hours and sent three people to the hospital. The incident occurred when a pickup truck carrying the source pulled out of a parking lot onto U.S. 41 in Evansville and was struck by an oncoming vehicle. According to police, a semitrailer had stopped in the right-hand lane to let the pickup truck pull out. As the pickup truck pulled out it continued into the left-hand lane where an oncoming Ford Expedition hit it broadside. The impact knocked the camper off the pickup's bed and sent the radiography camera (example shown below) from inside the camper onto the roadway.

Two people in the pickup truck and one person in the Expedition were transported to a local hospital with non life-threatening injuries. The Evansville Fire Department's Hazardous Material Team identified the radiation source and used radiation detection-equipment to verify that the package had not been breached. They also determined that the radiography company had the proper documentation and packaging for the material.

While TEPP focuses on the response to a radiological transportation incident, the training can also be applied to fixed-facility incidents. In early 2009, the Idaho Falls Fire Department Hazardous Material Team was notified of an incident involving the release of radioactive material resulting in the contamination of three individuals and the spread of contamination throughout an industrial facility. After the situation was brought under control, the Captain of the Idaho Falls Fire Department stated: "Because of the TEPP training and exercises we have participated in over the years, our team had a confidence and calmness with the radiological response that we would not have demonstrated had we not been trained….The efforts of your TEPP staff are commendable and I applaud your efforts in training and preparing the Nation's first responders and their communities."

TRANSPORTATION EMERGENCY PREPAREDNESS PROGRAM - TRAINING

During FY 2009, TEPP sponsored or co-taught with States/Tribes 142 training sessions, resulting in 2,038 responders being trained along DOE transportation corridors. An additional 1,347 students completed MERRTT training conducted by State or Tribal MERRTT certified instructors in 69 State sponsored classes. Continuing Education Units were awarded to 776 students through CECBEMS. The following examples illustrate how State, Tribal, and local response organizations are incorporating MERRTT into their radiological preparedness programs to build their response capacity. Details about MERRTT courses can be found in Appendix A.

State of Wyoming Office of Homeland Security: TEPP has been actively supporting States as they prepare their Hazardous Material Teams for response to incidents involving radiological materials. In 2009 the Wyoming Office of Homeland Security (OHS) organized regional hazardous materials teams and requested TEPP support in training a cadre of instructors in the teams. The State intends to have their Hazardous Material Team instructors provide MERRTT training for response agencies and emergency management organizations throughout their regional jurisdictions. The September MERRTT Train-the-Trainer course in Cheyenne, Wyoming, was a result of partnering with Wyoming OHS, TEPP, and DOE's Radiological Assistance Program (RAP). Scott Ramsay, Radiological Services Coordinator with the Wyoming OHS, is a MERRTT instructor and assisted in teaching the three-day course. To accomplish OHS objectives, MERRTT was expanded to three days to incorporate additional field exercises and to provide students with additional opportunities to use their State-issued instruments. Students were involved in a variety of surveys allowing them to focus on the details of their instrumentation. In addition to the TEPP field exercise, Wyoming OHS added two scenarios; one requiring that students locate a lost source and one challenging students to work through a scenario where the actual source was not in the logical location. To ensure the Hazardous Material Teams gained an in-depth knowledge of various instruments and operation of those instruments, OHS added an expanded instrumentation section and hands-on exercises.


Wyoming HM Team Members work through an instrumentation exercise

Wyoming OHS also requested that the Waste Isolation Pilot Plant (WIPP) provide a truck with TRUPACT-II casks to illustrate one of the WIPP shipments and Type B packaging used to transport DOE radioactive waste. WIPP coordinated their return to Idaho with

empty TRUPACTs to accommodate a road show in Cheyenne during the third day of the training.

Students felt the training and field exercises were extremely valuable and all indicated their comfort with the instrumentation and their ability to use it during an actual event. One student admitted: *"Honestly I wasn't too excited when I was told I was going to take this class, but I'm glad I did. It is an important subject and the instructors were very knowledgeable in the subject to make it interesting. The instructors cared about how everyone needed to understand how the instruments worked and took the confusion out of it."*

Shoshone-Bannock Tribes, Fort Hall, Idaho: In March 2009, at the request of the Fort Hall Fire Department Captain, TEPP coordinated with representatives from the State of Idaho Department of Environmental Quality and the Idaho State Police to provide three refresher/compressed MERRTT courses in Fort Hall, Idaho. The coordinated effort for delivery of the training demonstrates how Tribal, State, and local organizations are implementing MERRTT in their jurisdictions.

Colorado Department of Public Health and Environment: Region 6 TEPP collaborated with the Colorado Department of Public Health and Environment to conduct two MERRTT Train-the-Trainer courses supporting the I-25 corridor and one train-the-trainer course in Grand Junction, Colorado. The courses targeted emergency management, emergency responders, and public health officials in jurisdictions surrounding Fort Collins, Pueblo, and at the Western Colorado All Hazards Conference in Grand Junction.

MERRTT Instructor explains biological effects to Fort Collins Responders

California Office of Emergency Services: The California Office of Emergency Services worked closely with WIPP during FY 2009 to open a new shipping corridor from the GE Hitachi plant near Pleasanton to the WIPP facility in Carlsbad, New Mexico. TEPP coordinated with WIPP and Region 7 RAP instructors to co-teach at several of those courses. The training provided the instructors from the Region 7 RAP team with the opportunity to become involved in MERRTT training within their jurisdictions and network with response agencies they may ultimately work with during an incident.

Oregon Nuclear Safety Division: Oregon has an active radiological transportation training program and they conduct their own radiological training incorporating MERRTT as needed. In February 2009, the Oregon Department of Energy provided TEPP with their *Radioactive Material Transport In Oregon Report* documenting 2007/2008 activity related to shipments of radioactive materials. The report noted that

566 response personnel received radiological transportation training during emergency preparedness and response activities in 2007/2008. As of June 2009 an additional 128 responders had attended the training.


Responders at MERRTT course in Moab, Utah

Utah Department of Public Safety, Radiation Control Program: The State of Utah Radiation Control Program coordinated with Region 6 TEPP to teach a compressed MERRTT in Moab, Utah, in February 2009. The course was in preparation for transport of uranium mill tailings from Moab to the disposal site in Crescent Junction, Utah. Seventeen fire and law enforcement responders, DOE, State emergency management, and railroad employees attended the full day of training. Bill Craig with Utah Radiation Control developed an additional module specific to the uranium mill tailings project. Responders were well prepared for the start of the April 2009 Remedial Action Project as the rail shipment of 16 million tons of Uranium Mill Tailings began. With ARRA funding, the project will increase the quantity of mill tailings relocated by the end of fiscal year 2011 by two million tons.

Lincoln, Nebraska Fire and Rescue Hazmat Team: Three MERRTT Train-the-Trainer classes were taught in Lincoln, Nebraska on September 28-30, 2009. All members of the Lincoln Fire and Rescue Hazardous Material Teams attended the training, as well as other members of the community including representatives from Lincoln Fire and Rescue, the local police department, the 72nd Civil Support Team, and the Lancaster County Health Department. Student feedback was positive, and a training officer with Lincoln Fire and Rescue said he was very pleased with the training and particularly happy with how instructors were able to emphasize specific and practical aspects of how to respond to a radiological transportation event. The training is in preparation of a FY 2010 Full Scale Exercise.

INL Firefighters complete the MERRTT packaging exercise

Idaho National Laboratory (INL) and Nevada Test Site (NTS) Fire Departments: Support to DOE sites and other Federal agencies is an integral part of TEPP's mission. During 2009 both the INL and the NTS trained some of their Fire Department instructors as MERRTT instructors and incorporated MERRTT into their site radiological response training programs.

MERRTT instructors at the INL scheduled monthly training to ensure that all response personnel at each fire station across the site completed a full MERRTT course. TEPP facilitated partnering with MERRTT instructors from the State of Idaho DEQ, Idaho State Police, RAP, and Idaho Falls Fire Department to assist with teaching the courses during the year. This cross-organizational support has been invaluable in networking and providing the INL Fire Department staff with insight into the workings of other departments and response organizations.

The NTS Fire Department Battalion Chief requested a MERRTT Train-the-Trainer to qualify NTS Fire Department trainers as MERRTT instructors with the intent to then teach MERRTT for their entire site and the surrounding communities. Emergency response personnel from the communities surrounding the NTS were invited and participants expressed appreciation for the opportunity to meet and mingle with NTS firefighters. Representatives from Pahrump Valley Fire and Rescue, Nye County Emergency Services, National Security Technologies, University Medical Center/Trauma Services, and Nellis Air Force Base joined NTS firefighters at the test site to complete the training. Course participants noted this interaction between their agencies and the NTS Fire and Rescue would be very valuable in a joint response. The value gained by the forging of relationships is a consistent theme among participants at MERRTT courses.

Radiation Specialist Course – Chicago, Illinois: TEPP conducted a MERRTT Radiation Specialist Training Program course in collaboration with Region 5 RAP instructors. The course was taught at Argonne National Laboratory (ANL) for metro Chicago Hazardous Material Teams and the Chicago Bomb Squad. The Radiation Specialist course meets the new competencies found in the 2008 version of the National Fire Protection Association's NFPA 472 *Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents.* Sixteen students from Chicago-area fire departments and the Police Bomb Squad attended the training. Students were encouraged to bring their department's survey instruments and were able to use those instruments to survey high activity sources. Radiation sources from ANL were used during the training and feedback from the training was very positive.


Students receive instruction on response characteristics of various types of survey meters during a Radiation Specialist class

WIPP Trains Responders for Opening of New Transportation Routes: During FY 2009 WIPP was very active in opening several routes to move both Contact Handled (CH) and Remote Handled (RH) waste to the WIPP disposal facility near Carlsbad, New Mexico. The Carlsbad Field Office and WIPP received ARRA funds to support clean-up activities which included providing emergency response training along the new shipping corridors to prepare responders for response to potential incidents involving the transuranic (TRU) waste shipments. The first of approximately 30-40 shipments of RH-TRU waste from the

GE Hitachi Nuclear Energy's Vallecitos Nuclear Center near Livermore, California began in FY 2009. The TRU waste was generated from research performed by GE for DOE in the 1960s through the 1980s. In 2007, DOE agreed to clean up a hot cell containing defense-related TRU waste and that clean-up involved shipments to WIPP. A large percentage of the 665 responders trained by WIPP in FY 2009 were as a result of opening the new California transportation corridors. WIPP instructors also trained emergency responders in preparation for several DOE inter-site shipments of waste destined for re-packaging or re-characterization prior to shipment to WIPP.

In addition to providing MERRTT courses along their transportation corridors, WIPP instructors conducted three Hospital Courses training 43 medical personnel, and two National Incident Management System Incident Command System classes training 25 first responders.

For FY 2010, WIPP instructors will open the Interstate 80 Corridor north of Livermore through central California, Northern Nevada, and into Utah then North on Interstate 15 to the Idaho National Laboratory.
During training along new corridors WIPP frequently provides a truck with empty casks (shown at right) to give responders a feel for what their shipments will look like.

In the northeast, two routes are also being planned to service facilities in Grand Island, New York, and West Mifflin, Pennsylvania. One of the routes will travel through New York, Pennsylvania, West Virginia, Maryland, Virginia and Tennessee. The other route will travel through New York, Pennsylvania, West Virginia, Ohio and Indiana.

TRANSPORTATION EMERGENCY PREPAREDNESS PROGRAM -- EXERCISES

TEPP collaborates with States and Tribes to support a variety of drills, tabletop exercises, practical exercises, and full-scale exercises to verify that emergency responders can effectively implement their procedures and demonstrate skills learned during training. The following exercises were supported during FY 2009.

Naval Nuclear Propulsion Program (NNPP) Exercise – Denver, Colorado: In collaboration with RAP and the Colorado Department of Public Health and Environment (CDPHE), TEPP met the training needs of Colorado responders preparing for the August 2009 NNPP exercise in Denver, Colorado. Responders in the Denver area had been

extensively trained in preparation for the 2008 Democratic National Convention and their needs were at an advanced level. To meet the training requirements for the exercise, MERRTT was customized by the Region 6 RAP instructor to provide additional technical and instrumentation training, as well as additional practical hands-on exercises. The target audience included Denver and Aurora Fire Fighters, Hazardous Material Technicians, law enforcement, emergency medical service, emergency management, public works, dispatch, hazardous materials teams, and Denver Environmental Health officials.

Though neither TEPP nor RAP were participants in the summer exercise, feedback from the responder participants and the Navy indicated the training was of great value during the exercise. The exercise scenario involved a rail accident of spent fuel being shipped by the Navy in an M140 cask. Actual Navy escort vehicles and shipment escorts were used for the exercise. Following the successful exercise conduct on August 29, 2009, Tammy Ottmer with CDPHE provided the following insight as to how the MERRTT training contributed to the exercise success:

> *"First of all we got a big CONGRATULATIONS for the training effort. Navy representatives indicated that they never really focused on training as being a big part of the exercise activity. They were very impressed with the collaboration between the MERRTT instructors and the NNPP Escorts. The Escorts really rounded out the training because of their practical experience and extensive knowledge. MERRTT was just the training that Denver needed! Now that I have been through the entire process, I understand why it goes the way it does."*

Joint Emergency Services Training Center (JESTC) Drill: TEPP instructors taught a MERRTT Train-the-Trainer prior to the June 24, 2009, drill in Zachary, Louisiana. The training and drill were requested by JESTC, operated by the Louisiana State Police, which trains the State's hazardous material team. The scenario for the drill involved a multiple vehicle accident with damaged radioactive material packages. A delivery vehicle carrying radiopharmaceutical materials in Type A packages ran into a second vehicle, causing three radioactive material packages to be ejected from the vehicle. A Type B package containing a radiography camera also remained undamaged in the back of the vehicle. To simulate the accident site, one damaged vehicle was towed to the accident site (staged at JESTC), and a second vehicle was driven next to it to simulate the delivery vehicle. Shipping papers were placed in the delivery vehicle, and mock-up Type A and B packages were placed at the scene.

As a group, students worked together to make decisions and complete response actions for the entire event response including:

- Establishing incident command;
- Hazard recognition and scene size-up;
- Making notifications;
- Determining protective actions;
- Initial response actions, including victim rescue, patient/ packaging (gross decon), transfer of a contaminated patient to EMS; scene reconnaissance; and shipping paper retrieval

- Decontamination corridor planning and operations;
- HAZMAT operations (including instrument operations, scene surveys and mapping), and;
- Recovery planning considerations

WIPP Exercise – Gordon County, Georgia: During March 2009 TEPP representatives participated in training and planning meetings in preparation for the March 19, 2009 full scale WIPP exercise. WIPP requested that TEPP representatives assume responsibility for conducting Controller/Evaluator training and for providing the exercise controllers. On March 18 a TEPP representative conducted training for 23 exercise Controllers/Evaluators who then participated in the exercise as controllers. The scenario for the exercise involved a multi-vehicle accident including a WIPP shipment truck. The Southern States Energy Board produced a video documenting the planning and conduct of the exercise.

Connecticut Division of Radiation – Groton, Connecticut: On September 18, 2009, TEPP representatives completed Operation Rad Response training and exercise activities for the Groton, Connecticut Fire Department. The training and full-scale exercise involved seven different emergency response agencies from surrounding response jurisdictions. In preparation for the full-scale exercise TEPP and the Radiation Protection Division worked together to conduct four mini exercises to evaluate responder performance and mutual aid support from the Electric Boat Fire Department and Radiation Control organizations. The four mini exercises included Command/Size-Up, Patient Handling, Decontamination Dressdown, and Radiological Instrument Operations. Approximately 25 responders from the various agencies, including three representatives from Connecticut Radiation Protection Division, assisted or participated in the training and exercise. The Groton Fire Department was the host organization for the program. In preparation for the full scale exercise, the State of Connecticut Radiation Protection Division and TEPP representatives partnered to conduct training. Participants were especially positive about the opportunity the mini drills/full scale exercise provided to practice their skills the day after the training. The exercise completed customer expectations for the training, mini drills, and the full-scale exercise.

CENTRAL OPERATIONS

TEPP Central Operations provides the program with cost and production efficiencies as they continue to improve TEPP effectiveness through the standardization of many of the TEPP tasks such as copying and distribution of materials for training, handout materials for conferences, and coordinated conference scheduling through a centralized distribution function. Central Operations maintains and distributes Instructor, Hands-on Exercise, and Instrument GoKits, Student Manuals, Instructor Manuals, CDs, and administrative materials.

In addition, TEPP Central Operations facilitates the TEPP Task Group, which is responsible for ensuring TEPP products and resources are up-to-date with transportation regulations and response protocols. In FY 2009, the Task Group activities focused on

incorporating 2010 MERRTT revisions; enhancing the MERRTT videos, completing slides for the Master Tabletop Scenario; developing an outline for the MERRTT Technician course; developing the TEPP patch award folder; and reviewing and commenting on the Nuclear/Radiological Incident Annex storyboards.

Task Group members conducted a comprehensive review of MERRTT using NFPA 472 specific competencies for awareness, operations, technician and specialist level responders. The Task Group developed a comparison table to identify training gaps between NFPA 472 radiological specific training competency requirements and the MERRTT and Radiation Specialist programs. The matrix identified gaps for all levels of responders (awareness, operations, technician, and specialist). The identified gaps for awareness and operations level competencies were addressed by expanding three MERRTT topics during the 2009 revision process. In FY 2010 the Task Group will address identified gaps for the technician and agent specific NFPA 472 radiological training requirements in the development of a Technician MERRTT course (TMERRTT).

Enhancements to MERRTT during FY 2009 included:

- Revising the Biological Effects module to incorporate slides on the acute radiation syndrome and lethal dose.
- Revising the Pre-Hospital Practices module to include information on radiation sickness symptoms, treatment options and a table comparing various types of radiation exposures.
- Adding a picture practical hands-on exercise following the Incident Command module. The 50 playing card size pictures are divided into three categories, Command, Medical, and Decontamination. The design of the hands-on activity requires students working in small groups to align each category of pictures in the proper response sequence.
- Adding a textbook exercise to the Public Information Officer module. This activity divides the class into two groups. Group one develops a press release and group two plays the role of the media. Instructors facilitate the press briefing discussion and verify that key points outlined in the module are covered.

TEPP representatives met with several DHS personnel at the State and Federal levels to discuss formatting of TEPP exercise scenarios. DHS representatives indicated that while Homeland Security Exercise and Evaluation Program (HSEEP) materials are recommended, the only requirement for compliance is to develop an after-action report and improvement plan. TEPP revised the TEPP exercise controller handbook and provided the sample to the DHS National Exercise Division Exercise Policy Branch for review. Feedback from the DHS National Exercise Division indicated the proposed controller handbook was adequate and provided a few minor improvements. As a result, in FY 2010, all six exercise scenarios currently posted on the TEPP website will be revised to be consistent with the DHS feedback.

GoKits in Demand: Following the completion of MERRTT Train-the-Trainer courses new instructors are increasingly inquiring about MERRTT GoKits. Many new

instructors checked-out GoKits from Central Operations for use in their courses. In FY 2009 the Detroit, Michigan Fire Department, Idaho National Laboratory, Reno Fire Department, and a MERRTT instructor from Yale, Michigan, took advantage of the opportunity to check out TEPP GoKits for use during their training. TEPP Central Operations maintains two Instructor GoKits for use by States, Tribes, and local jurisdictions.

TEPP Task Group members worked with ASTM International to finalized ATSM Standard E 2601 *Standard Practice for Radiological Emergency Response* – This practice provides decision-making considerations for response to incidents that involve radioactive materials. It provides information and guidance for what to include in response planning, and what activities to conduct during a response. The scope of this standard does not explicitly consider response to an Improvised Nuclear Device (IND) or to nuclear power plant accidents. The document can be obtained for free at the following link http://www.astm.org/COMMIT/COMMITTEE/E54.htm. In the lower right section of the page there is a box for "Committee-Sponsored Products" which lists two "download for free" documents; click on the "E2601" link and follow the instructions to download.

OUTREACH AND TECHNICAL ASSISTANCE

In FY 2009 TEPP representatives participated in 17 national, regional, State, Tribal or local conferences and workshops and offered technical assistance to a variety of emergency response organizations. TEPP representatives also staffed TEPP display booths, provided Emergency Responder Radioactive Material Quick Reference Sheets, MERRTT student CDs, and program data sheets and discussed the TEPP program with several hundred interested conference attendees. Appendix B provides a full listing of conferences, workshops and events supported by TEPP. Examples of TEPP outreach activities include:

Tennessee Emergency Management Association Annual Conference—Chattanooga, Tennessee: TEPP representatives made a presentation at the Emergency Management Association of Tennessee's (EMAT) annual conference in Chattanooga on October 6-9, 2008. The Region 2 TEPP Coordinator and the Regions 2 and 5 TEPP Contractor Leads each gave presentations about TEPP, WIPP, and on-going DOE transportation activities in Tennessee. TEPP representatives also manned a booth, and provided TEPP literature to conference attendees. EMAT sponsors were very pleased with both the presentation and the booth and invited TEPP to participate in the 2009 EMAT conference.

Tribal Environmental Protection Agency (EPA) Region 9 Conference – San Francisco, California: TEPP representatives provided an Overview of TEPP and taught Radiological Basics and Radioactive Material Shipping Packages at the Sixteenth Annual Tribal EPA Conference October 24, 2008 in San Francisco, California. A third module was also on the agenda but interest in the first two topics was so high that questions depleted the time frame for presenting all three modules. Conference attendees represented more than 100 Tribal governments from Arizona, California, and Nevada.

The Pyramid Lake Paiutes and the EPA co-hosted the event. The attendees represented the Morongo Band of Mission Indians, Cabazon Indians, Coyote Valley Tribes, Pyramid Lake Paiutes, Yurok Tribes, Gila River Indian Community, Washoe Tribes and the Gallup, New Mexico Bureau of Indian Affairs. This was the second year the conference offered an emergency preparedness track and interest in the MERRTT session more than doubled in attendance from the previous year.

EPA Region 3 Emergency Preparedness and Hazmat Spills Conference – Richmond, Virginia: TEPP representatives attended the EPA's Region 3 Emergency Preparedness and Hazmat Spills Conference on October 26-29, 2008 at the Richmond, Virginia Convention Center. TEPP representatives staffed a booth and taught a MERRTT Train-the-Trainer class. The Virginia Department of Health, Radiation Health Program provided their radiological monitoring vehicle on Day 1 of the class, providing tours and explaining their field monitoring protocols and equipment, and on Day 2 the Radiation Health Program brought a soil density gauge and radiography camera to class to show the students.

Texas Emergency Medical Services Conference – Fort Worth, Texas: At the request of the Texas Department of State Health Services a TEPP representative participated in the November 24-26, 2008 Texas Emergency Medical Services (EMS) Conference at the Fort Worth Convention Center. TEPP conducted a *Radiation Emergencies for EMS Responders* workshop which focused on out-of-hospital personnel response activities. Several of the MERRTT modules were taught to meet this objective.

National Health Physics Society – San Antonio, Texas: January 30 through February 1, 2009, the National Health Physics Society held their annual meeting in San Antonio, Texas. A TEPP representative attended and delivered a MERRTT Train-the-Trainer class.

Emergency Management Issues-Special Interest Group (EMI-SIG) – San Francisco, California: TEPP representatives attended the EMI-SIG conference on May 4-7 in San Francisco and manned a TEPP booth. DOE/HQ TEPP moderated the Transportation Emergency Preparedness session for the conference and TEPP-related presentations were made by:

- Mike Holden from the DHS Domestic Nuclear Detection Office, who presented a summary briefing on the Southeast Transportation Corridor Pilot Program/Exercise;
- Captain John Lund from the Idaho Falls Fire Department, who presented on lessons learned from a response to a radiological accident that occurred at an Idaho Falls NRC-licensed facility used to test, service, and maintain nuclear devices; and
- Rebecca Siceloff, DHS, and Josh Fishburne, Bridgeborn Government Solutions, presented on DHS Exercise Planning and Development Requirements.

International Association of Women Firefighters Conference – Omaha, Nebraska: On May 14-16, 2009, TEPP presented and displayed at the Annual International Association of Women's Firefighters Conference held in Omaha, Nebraska. Attendance at this year's show was estimated to be 1,000 responders from across the country. During the conference a TEPP Awareness session and a Compressed MERRTT course were conducted.

Intermountain Hazardous Materials Conference – Provo, Utah: Region 6 TEPP staff partnered with Region 6 RAP to teach a compressed MERRTT course August 11-12, 2009 at the Intermountain Hazardous Materials Conference in Provo, Utah. The course was split between two days to provide better flexibility for conference participants. Responders representing Utah law enforcement, fire, hazardous materials response teams, county and State emergency management attended the course. In addition to teaching the course TEPP staff provided MERRTT student CD's and contact information to conference attendees expressing interest in sponsoring follow-up MERRTT courses in their jurisdictions.

Continuing Challenge Hazardous Materials Conference – Sacramento, California: Region 6 TEPP staffed a booth for the Continuing Challenge Hazardous Materials Conference September 9-10, 2009 discussing TEPP resources and MERRTT. Of note, the States of Alaska and Hawaii had several response agencies in attendance and many were interested in radiological transportation training. In addition to the booth, TEPP provided a MERRTT Train-the-Trainer split over three days to better accommodate attendees' schedules at the conference.

PARTNERSHIPS

TRANSCAER Whistle Stop Tour: For the past several years TEPP has supported the annual TRANSCAER Whistle Stop Tour (WST) in the eastern United States. The WST is designed to increase community understanding of the importance of emergency planning, and to provide local emergency response groups an opportunity to receive some hands-on training and identify additional training needs of their organizations.

The 2009 WST, hosted by Norfolk Southern, began September 22 in Buffalo, New York; traveled through Cleveland, Toledo, and Columbus, Ohio; and finished in Charleston, West Virginia on September 26, 2009. At each stop, TEPP representatives staffed a display, handed out TEPP information (such as training CDs and the Emergency Responder Radioactive Materials Quick Reference Sheet) and conducted a one-hour radioactive material shipping packages and hazard recognition training session in the Coach Car provided by Norfolk Southern. Attendance at each stop averaged 250 emergency service responders with approximately 25 of those responders participating in each training session.

Brotherhood of Locomotive Engineers and Trainmen (BLET) and National Labor College (NLC): The BLET has been active in using MERRTT at their NLC and have developed a "Rail Union MERRTT." The one day class is taught by NLC Hazardous Material instructors that have completed the MERRTT train-the-trainer. The class is

scheduled to be presented to rail employees across the nation. As part of the continued partnership with the NLC Rail Workers Hazardous Materials Program, TEPP instructors assisted in the delivery of three MERRTT Train-the-Trainer sessions in September 2009 in Silver Spring, Maryland. A total of 59 students attended the session and all nine of the Rail Workers Hazardous Materials Program union organizations were represented. The union workers are taking the recently developed Rail MERRTT back to their work locations and providing the training, as needed, to local railroad workers or responders. The nine unions that make up the railroad hazardous materials group are:

1. American Train Dispatchers Association
2. Brotherhood of Locomotive Engineers and Trainmen
3. Brotherhood of Maintenance of Way Employees Division
4. Brotherhood of Railroad Signalmen
5. International Brotherhood of Boilermakers
6. National Conference of Firemen & Oilers, SEIU
7. Transport Workers Union
8. Transportation-Communication International Union Brotherhood of Railway Carmen
9. United Transportation Union

TEPP and RAP Partnerships: Region 6 and 7 TEPP representatives developed partnerships with the corresponding RAP Regional Response Teams during FY 2009 to gain cost efficiencies for both programs and to integrate the use of MERRTT for RAP training activities. Several Region 6 and 7 RAP staff are MERRTT instructors and assisted in teaching eighteen MERRTT courses with TEPP instructors during FY 2009. Region 6 RAP also integrated MERRTT into training provided to Civil Support Teams, expanding upon several modules as needed to meet RAP objectives. Coordination with MERRTT instructors from the RAP teams proved to be very cost effective with the number of MERRTT courses being supported almost doubling.

The value of having the TEPP and RAP partnership in place was seen during the August training in Aurora, Colorado. The National Guard Civil Support Team (CST) from Buckley Air Force Base was scheduled to team with RAP trainers from the INL to provide radiological materials response training to Aurora, Colorado firefighters. The CST is actively involved in outreach activities with RAP in Colorado. To support the training TEPP provided MERRTT compressed course books as a reference for course participants. Upon arrival for the course the instructors found that the responders would benefit from additional radiological materials basics and instrumentation training. RAP Team member and the MERRTT instructor quickly converted the three courses to compressed MERRTT courses.

RAP has also found the partnership to be beneficial as noted by David Everett, RAP Contractor Response Coordinator for Region 6:

> *"Our experience has been very positive so far. Most of the recent MERRTT training courses have been organized by the State of Colorado and targeted toward Regional Hazardous Material Response Teams, which are staffed from multiple fire departments. When you have this level of cooperation and participation at the State and local level, the effort is bound to make a difference."*

In Region 3, TEPP representatives partnered with the Region 3 RAP Team Outreach Training Officer to conduct three MERRTT Train-the-Trainer courses at the Hartsfield International Airport in Atlanta, Georgia. The coordinated effort with TEPP effectively expanded the RAP outreach effort in an efficient manner by utilizing existing programs and maintaining consistent training which promotes the readiness of local responders, and demonstrates a commitment of all parties to partner with jurisdictions to safely and successfully respond to and resolve radiological incidents.

Response Agency Recognition – TEPP Patches: Students who complete a DOE sponsored MERRTT Train-the-Trainer, subsequently teach a MERRTT course, and enter their student information into the National Database are recognized by the award of a MERRTT Instructor Patch. During FY 2009 instructor patches were presented to 16 newly certified MERRTT trainers including:


DOE/ID TEPP Coordinator Stacey Madson presents Kyle Lindsay with a TEPP Patch

- Kyle Lindsay, INL Fire Department
- Brady Jensen, INL Fire Department
- Harry Crawford, State of Idaho DEQ
- Kevin Hungate, INL RAP
- David Blondfield, Reno Fire Department
- Sgt. Gale Holderman, Pueblo County Sheriff's Office
- Richard Moseley, Utah State Fire Marshall's Office
- Scott Ramsay, Wyoming Department of Homeland Security
- Gary McCahill, Hartford, Connecticut Radiation Protection
- John Waggoner, Hartford, Connecticut Radiation Protection
- Michael Kelly, Port Royal, South Carolina 1st Vice President IAEM-USA Student Region
- Gary Quick, LaGrande, Oregon Union Pacific Railroad
- B.J. Greigo, Albuquerque, New Mexico BNSF Railway Company
- Gayle Kelly, Lincoln, Nebraska BNSF Railway Company
- Billy Moye, Rocky Mount, North Carolina CSX Railroad
- Darryl Begaye, Sacramento, California Union Pacific Railroad

ATTACHMENT A – FY 2009 NATIONAL MERRTT COURSES

Region	City	State	# Classes	TTT	Full	Compressed	Partial	Total	CEH
1	Groton	CT	2	20	7			27	6
1	Old Lyme	CT	1				18	18	
1	Portland	CT	2				23	23	
1	Washington	DC	5				86	86	2
1	Natick	MA	2		17			17	
1	Plymouth	MA	1		9			9	
1	Shrewsbury	MA	1	14				14	8
1	Silver Springs	MD	3	59				59	
1	Campton	NH	1			12		12	
1	Concord	NH	1			13		13	
1	Brookhaven	NY	1	10				10	2
1	Franklin	PA	1		10			10	8
1	Harrisburg	PA	1		11			11	1
1	Indiana	PA	1			10		10	1
1	Lewisburg	PA	1			16		16	3
1	Montrose	PA	1			8		8	3
1	New Cumberland	PA	1		13			13	10
1	Philadelphia	PA	1	15				15	3
1	Pottsville	PA	2			21		21	
1	Steelton	PA	1			23		23	13
1	Winfield	PA	2			34		34	6
1	Gettysburg	PA	1				12	12	
Total			**33**	**118**	**67**	**137**	**139**	**461**	**66**
2	Little Rock	AR	1	6	3		7	16	11
2	Monroe	LA	1	1	24			25	10
2	Shreveport	LA	1		26			26	9
2	Zachary	LA	2	12			3	15	3
2	Jackson	MS	1	11	15			26	3
2	Vicksburg	MS	1		10	1		11	1
2	Columbia	TN	1	17	1			18	7
2	Bristol	TN	1			6		6	
2	Jackson	TN	1	11	15		4	30	
2	Johnson City	TN	1			31		31	
2	Knoxville	TN	1	13				13	1
2	Charlottesville	VA	1	7				7	2
2	Richmond	VA	1	18				18	5
2	Beckley	WV	2	15	11			26	14
Total			**16**	**111**	**105**	**38**	**14**	**268**	**66**
3	Athens	GA	1			6		6	2
3	Atlanta	GA	3	50				50	28
3	Calhoun	GA	5		77			77	6
3	Dalton	GA	6		104			104	25
3	Forsyth	GA	1	13	15			28	5

Region	City	State	# Classes	TTT	Full	Compressed	Partial	Total	CEH
3	Macon	GA	1		4			4	
3	Garner	NC	1				35	35	
3	Kernersville	NC	1	18				18	8
3	Moyock	NC	1		12			12	1
3	Aiken	SC	1	3				3	
3	Bluffton	SC	3			76		76	38
3	Fort Mill	SC	1	5	2			7	1
3	Gaffney	SC	2		24		1	25	2
3	Hartsville	SC	4		12	20		32	2
3	Keowee	SC	1		8	5		13	
3	N. Charleston	SC	3			44		44	9
3	Winnsboro	SC	1			8		8	
3	Moncks Corner	SC	1	15				15	
3	W. Columbia	SC	1		12			12	7
Total			**38**	**104**	**270**	**159**	**36**	**569**	**134**
4	Topeka	KS	3				38	38	
4	Wichita	KS	1	19				19	17
4	Carlsbad	NM	4	17	4		1	22	3
4	Cimarron	NM	1		8			8	1
4	Gallup	NM	1		19		1	20	8
4	Hobbs	NM	1		25			25	25
4	Las Vegas	NM	1		5			5	
4	Abilene	TX	9				142	142	
4	Fort Worth	TX	1				16	16	10
4	San Antonio	TX	1	38				38	1
Total			**23**	**74**	**61**	**0**	**198**	**333**	**65**
5	Cedar Rapids	IA	1	11	1			12	10
5	Mokena	IL	3			22		22	0
5	Angola	IN	1	4	4			8	4
5	Indianapolis	IN	1		7			7	0
5	Vincennes	IN	1	4			15	19	10
5	Port Huron	MI	3		40			40	1
5	Grand Island	NE	1		15			15	5
5	Hastings	NE	1			12		12	0
5	Lincoln	NE	3			75		75	15
5	Omaha	NE	2			1	3	4	0
5	York	NE	1			19		19	8
5	Hamilton	OH	1	6	1	1		8	4
Total			**19**	**25**	**68**	**130**	**18**	**241**	**57**
6	Aurora	CO	3			26		26	11
6	Denver	CO	3			69		69	
6	Fort Collins	CO	1	13			6	19	7
6	Grand Junction	CO	1	3			3	6	
6	Pueblo	CO	1	6	2		4	12	2

Region	City	State	# Classes	TTT	Full	Compressed	Partial	Total	CEH
6	American Falls	ID	1				9	9	
6	Arco	ID	2	9	8			17	14
6	Blackfoot	ID	4				32	32	7
6	Bliss	ID	1				16	16	7
6	Boise	ID	2				15	15	15
6	Caldwell	ID	1				12	12	11
6	Coeur D'Alene	ID	2				27	27	22
6	Fort Hall	ID	3			13		13	10
6	Idaho Falls	ID	12	8	25		75	108	7
6	Jerome	ID	1				14	14	2
6	Meridian	ID	1				14	14	
6	Paul	ID	1				11	11	
6	Pocatello	ID	3				50	50	49
6	Provo	UT	1			15	4	19	6
6	Moab	UT	1				17	17	1
6	Cheyenne	WY	1	18			2	20	10
Total			**46**	**57**	**35**	**123**	**311**	**526**	**181**
7	Atwater	CA	2		37			37	15
7	Bakersfield	CA	10		145		1	146	72
7	Barstow	CA	1				5	5	3
7	Livermore	CA	4		27		16	43	22
7	Modesto	CA	2		36			36	20
7	Mojave	CA	3		18			18	16
7	Pleasanton	CA	1	11	6			17	11
7	Sacramento	CA	1	3	3		1	7	2
7	San Bernardino	CA	1	7			1	8	3
7	San Francisco	CA	1				13	13	0
7	Santa Fe Springs	CA	3			73		73	13
7	Stockton	CA	1		13			13	7
7	Elko	NV	1	1	17			18	1
7	Goldfield	NV	1			7		7	0
7	Las Vegas	NV	1			2		2	0
7	Nevada Test Site	NV	1	18	6			24	21
7	Reno	NV	2			21	33	54	1
Total			**36**	**40**	**308**	**103**	**70**	**521**	**207**
PROGRAM TOTAL			**211**	**529**	**914**	**690**	**786**	**2,919**	**776**
DOE SPONSORED			142	512	774	490	320	2,038	696
STATE/LOCAL SPONSORED			69	17	140	200	466	881	80
Additional STATE/LOCAL Reported ***(Not included in National Database)***						**19**	**447**	**466**	

ATTACHMENT B – NATIONAL WORKSHOP AND CONFERENCE LISTING

1. **October 6-9, 2008 - Tennessee Emergency Management Association Conference – Murfreesboro, TN:** TEPP representatives gave a 45-minute presentation about TEPP, WIPP, and on-going DOE transportation activities in Tennessee. TEPP representatives also provided TEPP literature to conference attendees stopping by the TEPP booth.

2. **October 24, 2008 – EPA Tribal Workshop – San Francisco, CA:** TEPP instructors taught two MERRTT modules *(Radiological Basics and Radioactive Material Shipping Packages)* and provided attendees with Radioactive Material Quick Reference Sheets, TEPP brochures and workbooks.

3. **October 26-29, 2008 - Environmental Protection Agency Region 3 Emergency Preparedness and Hazmat Spills Conference – Richmond, VA:** TEPP instructors conducted a MERRTT Train-the-Trainer and staffed a booth. TEPP partnered with the Virginia Department of Health, Radiation Health Program and they provided tours of the Department's radiological monitoring vehicle provided a soil density gauge and radiography camera as examples of equipment using radiation sources. Eighteen students completed the course.

4. **November 3-5, 2008 – HazMat Explo2008 – Las Vegas, NV:** TEPP instructors taught a MERRTT Train-the-Trainer and staffed a display booth providing TEPP resources and discussing training with conference attendees.

5. **November 24-25, 2008 – Texas Emergency Medical Services Conference – Fort Worth, TX:** TEPP instructors conducted a Radiation Emergencies for EMS Responders workshop focusing on out-of-hospital personnel response.

6. **December 16-17, 2008 – Midwestern Governor's Association – Lombard, IL:** Region 5 TEPP Coordinator provided a TEPP overview and coordinated with State representatives regarding 2009 TEPP activities.

7. **January 30 – February 1, 2009 – National Health Physics Society – San Antonio, TX:** TEPP instructors delivered a MERRTT Train-the-Trainer session.

8. **March 18, 2009 – Southeast Idaho District Health Department – Pocatello, ID:** The Region 6 TEPP Coordinator provided a Hospital Course presentation for attendees at the regional meeting. The presentation was supported by the Idaho Falls Fire Department and the INL Oversight Program.

9. **March 24, 2009 – Southeastern States Radiation Working Group – Helen, GA:** TEPP representatives provided a TEPP update on FY 2008 shipping numbers, regional training and outreach activities, and the proposed changes to 2009 MERRTT. WIPP representatives also attended the meeting and provided an overview of WIPP operations.

10. **March 31-April 1, 2009 – Western Colorado All-Hazards Conference – Grand Junction, CO:** TEPP instructors taught a MERRTT Train-the-Trainer and provided student CDs for interested conference attendees.

11. **May 4-7, 2009 – EMI-SIG – San Francisco, CA:** TEPP representatives staffed a TEPP booth and moderated the TEPP session for the conference. TEPP-related presentations were made by: Mike Holden for the DHS Domestic Nuclear Detection Office, Captain John Lund from the Idaho Falls Fire Department, and Rebecca Siceloff from DHS and Josh Fishburne from Bridgeborn Government Solutions.

12. **May 14-16, 2009 – International Association of Women Firefighters Conference – Omaha, NE:** TEPP representatives presented a TEPP awareness session, conducted a Compressed MERRTT, and staffed a TEPP display.

13. **May 15-17, 2009 – Pennsylvania Fire Exposition – Franklin, PA:** TEPP representatives staffed a TEPP display and handed out over 800 flat sheets, CDs, and brochures to many of the estimated 21,000 conference attendees.

14. **June 25, 2009 - Southern States Energy Board – Augusta, GA:** TEPP representatives participated in discussions about WIPP/SRS shipping activities and out year planning to determine the interest for possible training/drills. TEPP also provided a presentation on available TEPP training programs.

15. **August 6-8, 2009 – Georgia Firefighters and Fire Chiefs Annual Conference – Athens, GA:** TEPP representatives staffed a display and provided a MERRTT Awareness session.

16. **August 11-12, 2009 – Intermountain Hazardous Materials Conference – Provo, UT:** TEPP instructors taught a Compressed MERRTT course and provided student CDs for interested conference attendees.

17. **September 8-10, 2009 – HazMat Continuing Challenge – Sacramento, CA:** TEPP instructors taught a MERRTT Train-the-Trainer split over three days of the conference to better fit the needs of the conference attendees. TEPP also hosted a display booth providing TEPP and MERRRTT resources and handouts and discussed training with those interested in coordinating a MERRTT in their jurisdiction.