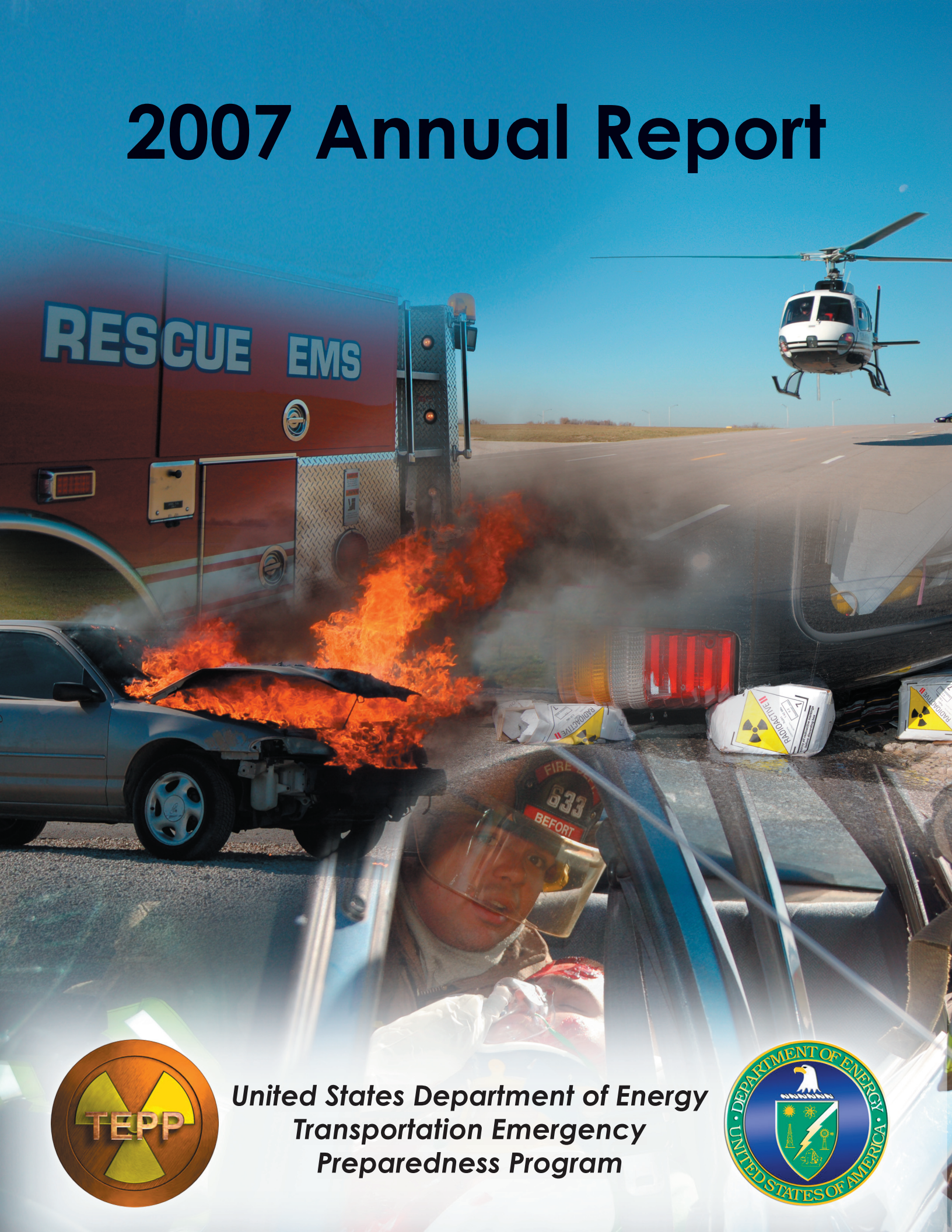
2007 Annual Report



United States Department of Energy
Transportation Emergency
Preparedness Program

Transportation Emergency Preparedness Program 2007 Annual Report

US Department of Energy – Office of Environmental Management

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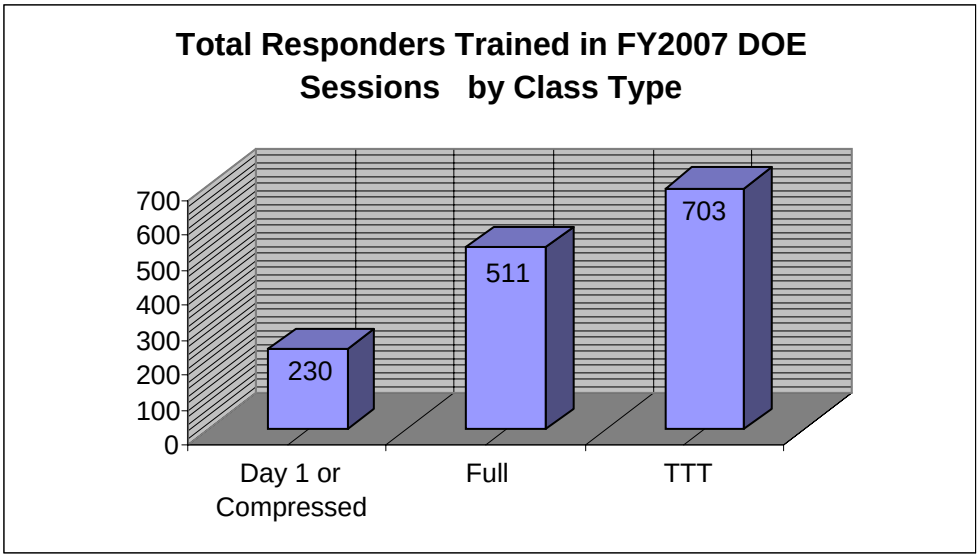
Executive Summary

The Office of Environmental Management (EM) is responsible for the risk reduction and 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. EM has made significant progress in the last four years in shifting away from risk management to embracing a mission completion philosophy based on cleanup and reducing risk. EM has made progress in recent years in cleanup and/or closure of sites. In addition to its emphasis on site cleanup and closures, EM is also focusing on longer-term activities required for the completion of the cleanup program. Included in the EM activities is the transportation and disposal of unprecedented amounts of contaminated waste, water, and soil, and a vast number of contaminated structures during remediation of the contaminated sites. The Transportation Emergency Preparedness Program (TEPP) addresses the concerns expressed by the corridor states and tribes regarding those shipments by providing technical assistance, conducting assessments, exercise planning activities, and coordinating and delivering training at the state, tribal and local jurisdictions.

In supporting site clean-up missions EM completed approximately 7,500 shipments in Fiscal Year (FY) 2007. 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. TEPP continues to play a vital role in preparing responders. The TEPP structure integrates a basic approach to transportation emergency planning and preparedness activities under a single program with the goal to ensure DOE, its operating contractors, and state, tribal, and local emergency responders are prepared to respond promptly, efficiently, and effectively to accidents involving DOE shipments of radioactive material and wastes.

In FY 2007, TEPP conducted 74 training sessions, resulting in over 1,454 responders being trained along our transportation corridors. In addition, the Emergency Management Institute (EMI) of the Federal Emergency Management Agency (FEMA) reported that 2,685 independent study participants completed the online Independent Study course, IS-0302, during FY 2007. The IS-0302 course consists of select modules from the Modular Emergency Response Radiological Transportation Training (MERRTT) course and is intended to serve as refresher training for responders that have already completed radiological training.



In addition to the training efforts in FY 2007, TEPP:

- Developed a one-day (8-hour) MERRTT course focusing on radiological basics, packaging and transportation, and patient care and decontamination. This training option is offered at national and regional conferences. This condensed MERRTT course allows for more conference attendees to take the training.

- Revised the seven model response procedures and added a new training video and user guide titled *Decontamination Dressdown at an Incident Involving Radioactive Material*. The new materials will be posted on the TEPP website.

- Partnered with federal, state, and local emergency management agencies to plan and conduct exercises at the Muscatatuck Urban Training Center in Indiana; West Valley, New York; Kansas City, Kansas; Flagstaff, Arizona; and in Benton County, Washington.

- Continued collaborations and partnerships with federal and state agencies such as: Department of Homeland Security (DHS), American Society of Testing and Materials (ASTM) and the National Fire Protection Association (NFPA).

- Partnered with FEMA, Waste Isolation Pilot Plant (WIPP) and Radiation Management Consultants (RMC) to revise the existing Radiological Training for Hospital Personnel. TEPP assisted in coordinating revisions to G-346 Radiological Training Program for Hospital Personnel. The training was reworked to be modular in design allowing the various types of hospital staffing to only attend training for the modules that pertain to their responsibilities.

- Completed Phase I of the Radiation Specialist Training Program and will pilot the Program in Harrisburg, Pennsylvania in FY 08. This groundbreaking training course is aligned with NFPA Standard 472 competencies and will be offered to all northeastern states emergency management departments, state radiological officers, state training officers, and members of hazardous materials teams.

I. Transportation Emergency Preparedness Program Purpose

TEPP is designed and implemented using an approach to ensure that initial responders to a radiological transportation accident have the necessary knowledge and skills needed to effectively and safely mitigate the accident. TEPP works directly with the responder communities in each of the eight regions to determine responder needs, provide technical assistance in development of plans and guides to improve existing emergency plans, and provide training and conduct exercises. Technical assistance provided by TEPP Coordinators and contractor staff assist state and tribal governments to increase their understanding of radiological risks, identify planning deficiencies, enhance plans and procedures, train first responders, and stimulate and test the system for strengths and needed improvements through drills and exercises. TEPP efforts are focused initially along identified DOE transportation corridors. The goal of TEPP is to establish consistent policies and implementing procedures, build public and institutional confidence, and prepare jurisdictions to demonstrate their ability to respond effectively.

II. Training

In FY 2007 TEPP coordinated and sponsored 74 Modular Emergency Response Radiological Transportation Training (MERRTT) sessions, training over 1,454 students. An additional 508 students completed MERRTT courses taught by state trainers who were certified to teach MERRTT by completing a MERRTT train-the-trainer course. Nationally 208 state or local MERRTT instructors are registered to use the national database for documenting class attendance and printing certificates. A total of 551 responders took advantage of the continuing education hours offered through the Continuing Education Coordinating Board for Emergency Medical Services (CECBEMS). Details about DOE/state coordinated MERRTT activities can be found in Attachments A and C.

Responders participating in a MERRTT session

The TEPP planning tools and training program were revised during FY 2007. The 2007 revisions incorporated updates to ensure the model procedures included proper references to the National Incident Management System (NIMS), and added a variety of editorial changes submitted by the various user groups. The MERRTT Program was reviewed and revisions were incorporated based on instructor and student feedback. One of the 2007 major changes included a revision of the decontamination module and the addition of the new training video and user guide titled Decontamination Dressdown at an Incident Involving Radioactive Material. Streamlining of some of the modules to reduce redundancy and changes in the arrangement of modules created the additional time needed to add the decontamination training and video. The module rearrangement moved several of the hands-on activities into day one of the training program, improving the delivery balance for the two days of training. The module are now ordered as follows:

1. Radiological Basics
2. Biological Effects
3. Radioactive Material Shipping Packages
4. Hazard Recognition
5. Initial Response Actions
6. Patient Handling
7. Incident Control
8. Radiological Survey Instruments
9. Transportation of Safeguards Material
10. DOE Shipments and Resources
11. Decontamination
12. Waste Isolation Pilot Plant
13. Pre-Hospital Practices
14. Transportation by Rail
15. Incident Command
16. Public Information Officer

Compressed MERRTT

Conference coordinators and attendees challenged TEPP to offer a training session within a typical three or four-day conference that allowed conference attendees to participate in multiple conference activities. In the past, the two-day MERRTT session had very limited attendance because attendees felt they were missing a significant portion of the conference and other types of valuable training by attending two days of training on one topic.

An 8-hour, Compressed MERRTT session was developed and focuses on radiological basics, packaging, transportation, patient care, instrumentation, and decontamination. To address conference coordinator and attendee feedback to have hands on training, hands on practical exercises are also included in the Compressed MERRTT. The practical exercises allow attendees the opportunity to work with actual radioactive material packages to conduct packaging type recognition, identify marking, and labels. Exempt quantity radioactive sources are also used to give students practical exercise on radiological survey instrument operations.

The development of this compressed session better fits the conference offering of an eight-hour session. This Compressed MERRTT session was piloted at several conferences and has been well received by conference coordinators and attendees.

III. TEPP Central Operations

TEPP Central Operations continues 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. Central Operations maintains and distributes Instructor, Hands-on Exercise, and Instrument GoKits, Student Manuals, Instructor Manuals, CDs, and administrative materials. In 2007, Central Operations distributed over 2,700 student manuals for training sessions, produced and delivered 4,500 MERRTT CD-ROMS, 3,700 TEPP brochures, and over 10,000 RAM Response Information Flatsheet to emergency responders at training sessions and conferences nationwide.

In 2007, Central Operations supported 92 MERRTT sessions and conferences nationally by shipping equipment and supplies. Additionally, Central Operations has loaner GoKits and equipment that are used to support state or local level sessions. These we used to support training efforts in Idaho, Michigan, and Kentucky.

IV. Outreach and Conferences

During the week of July 8, 2007, a TEPP representative attended the 52nd Health Physics Society Annual Meeting in Portland, OR. A presentation was given to approximately 50 health physics personnel on training resources available to assist with training to first responders. Personnel were given details on the TEPP program and the tools that are a part of the program that can be used to train first responders. The TEPP representative was invited to attend the Health Physics Society's Homeland Security Committee meeting and was invited to join the committee, serving as a part of the Training Sub-Committee.

Responders taking advantage of TEPP Tools available at TEPP conference display

As part of our continued efforts to improve agency cooperation and interaction TEPP representatives from Regions 2 and 3 attended the Transportation Community Awareness and Emergency Response (TRANSCAER) Whistle Stop Tour. Norfolk Southern Railroad was the host agency for the annual five-city tour. Numerous government and private industry agencies participated in the tour again this year. At each of the five city stops, TEPP representatives staffed a booth and conducted a one-hour briefing about radioactive material package markings, labels and placards. Whistle Stop Tour was conducted from September 17-21, 2007 beginning in Mississippi and ending in Georgia. Approximately 25 responders participated in each training session along the route.

In May, DOE Secretary Bodman received the Transportation Community Awareness and Emergency Response (TRANSCAER) Chairman's Award, one of industry's highest transportation safety awards, for helping local communities in emergency preparedness and response. "I'm very proud that The Department of Energy has raised the bar for community-based transportation emergency preparedness," Secretary of Energy Samuel W. Bodman said.

"Safety is our number one priority, and we will continue to help local communities be safe and secure."

DOE is the first federal agency to receive this award, and is one of only two recipients of the Chairman's Award, in its 15-year history. DOE's Commodity Flow Survey efforts, coupled with the Transportation Emergency Preparedness Program and associated Modular Emergency Response Radiological Training Program, form the basis for the Department's outreach efforts and this award.

TEPP staff worked with various state and federal agencies to provide support to state and national workshops and conferences. Activities for those conferences included presentations on TEPP, MERRTT training sessions and TEPP resource displays. As a result of the collaborations and partnerships formed between TEPP and the various state and federal agencies, TEPP staff supported a total of 11 conferences for fire service, emergency medical, law enforcement and hazardous material teams. Presentations were targeted to all response functions. At each workshop and conference responder feedback was excellent. Attendees indicated that the information and handouts would be very useful in preparing their organizations for response to a transportation incident involving radioactive material. Attachment B summarizes all workshops and conferences.

TEPP supported the Office of Civilian Radioactive Waste Management (OCRWM) Tribal Workshop held in Denver Colorado April 23-25 2007. An overview briefing on TEPP was provided and an awareness level training session was presented to the tribal members. In addition, the TEPP display was available to provide additional information on TEPP tools, training and resources. Over fifty representatives from 35 different tribes attended the workshop. Positive comments were received from many of the attendees.

During the Firehouse World Conference in San Diego, California February 25-March 2, 2007 TEPP and WIPP representatives piloted the new compressed one day MERRTT Conference course. This course was developed to allow National and Regional conference attendees, who have limited time available during conferences, an opportunity to participate in MERRTT. Student feedback was positive and course evaluations indicated that the course content, hands-on activities and delivery time was adequate for the duration of the class. In addition to the pre-conference training session, TEPP representatives conducted two breakout sessions. The first session covered radiological basics, biological effects and hazard recognition and the second session discussed radiological instrument selection and operation. The TEPP display was staffed during the conference. Approximately 3,000 responders attended the conference. Several hundred responders visited the display and inquired about available training and resources.

V. TEPP Exercises and Tabletop Activities

A responder surveys a package during a TEPP exercise

Indiana Department of Homeland Security Radiological Transportation Exercises: On February 17 and19, 2007 TEPP representatives assisted the Indiana Department of Homeland Security with the two tabletops and one full field response exercise. The tabletop challenged responders to identify accident scene hazards, explain response actions and discuss mutual aid support operations between the Regional HazMat Team and State of Indiana Radiation Protection. The full field response allowed responders the opportunity to demonstrate capabilities to deploy resources, identify hazardous materials and through a partnership with the State of Indiana Radiation Protection conduct a detailed scene size up determining and documenting contamination and radiation readings at the accident scene. Despite the inclement weather, TEPP staff conducted radiological transportation exercises on February 18-20, 2007, at the Muscatatuck Urban Training Center in North Vernon, Indiana. As snow began falling, the accident scene was established. The scenario was a shipment of 20 drums of Low Specific Activity material involved in a jack-knife collision with several cars and law enforcement was notified of possible terrorist involvement. A total of six drums were flung from the truck and two of them were breached spilling their contents on a roadside embankment. At the base of the embankment was a storm drain. One undamaged drum had rolled almost all the way to the drain. The accident scene had 2-3 inches of snow cover as well as thick ice in spots. These weather conditions required extra safety precautions for cold exposure and slip/fall hazards. No injuries occurred during the exercises. The Indiana District 1 Regional Response Team was to arrive on Saturday afternoon. The majority of the team would not be able to participate in the exercise due to a major snow event in the Chicago area. However, three members of the District 1 Team were able to come. Working with Indiana Homeland Security, the TEPP team was able to quickly change to a tabletop exercise that was conducted Sunday morning and followed up with a walk-through of the accident scene. The District 1 team participated with 25 local and Indiana state personnel in a hot wash discussion. Generally, it was a positive experience with all players actively participating.

Indiana District 6 Team arrived on Monday February 19, with about 30 personnel including three major pieces of transport equipment. Three counties including Henry County, Delaware County, and Madison County were represented. A tabletop was conducted with the team in preparation for the full exercise the following day. The scenario for the tabletop was different from the live exercise so there was only a limited amount of information carryover for the players. On Tuesday February 20 the weather conditions had improved for conduct of the exercise. At 8:50 a.m., the exercise play began, with Tim Thompson, a senior Indiana official with the Fire Marshall's office, serving as the Incident Commander. The District 6 Regional Response Team performed well. One issue occurred during coordination with the State Radiation Authority with members of the team but overall they did well. The most significant challenges were associated with radiological surveying techniques and identifying contamination on personnel. General feedback on the tabletops and full field exercise was very positive.

Benton County Emergency Services: TEPP Region 8 assisted Benton County Emergency Services (BCES) in the conduct of a field exercise on September 26, 2007, involving a Waste Isolation Pilot Plant (WIPP) transportation container vehicle accident. The exercise include participation by Benton County Emergency Management, South East Communications, Richland Fire Department, Richland Police Department, Benton County Sheriff's Office, Washington State Patrol (Kennewick Office), Washington State Department of Health, the Tri-County HazMat Team, the WIPP Central Monitoring Room, and the Department of Energy (DOE) Richland Office. This year's scenario involved collision with a tanker vehicle carrying a hazardous chemical—ammonia anhydrous. The exercise served as training for agencies that would be responding to an accident involving a WIPP shipment originating from the Hanford Site. The participating agencies expressed their appreciation for the training opportunity and the ability to have a WIPP container as part of the exercise.

BCES receives funding from Washington State to conduct the annual exercise and the State requires the scenario to involve a WIPP shipment each year. Past scenarios have included WIPP containers involved in the breach of a major water canal, a fire, and a bomb threat.

Flagstaff, Arizona Exercise: September 4-5, 2007 TEPP representatives completed a MERRTT TTT training session in Flagstaff, Arizona. In addition to the training, TEPP coordinated an exercise as a third day activity to verify the effectiveness of the MERRTT session. The training and exercises were scheduled as a follow-on to a commodity flow study that was conducted by DOE along I-40 in the Flagstaff area. The commodity flow study was a TRANSCAER outreach activity. The exercise involved three engine companies, hazardous materials response, and EMS. The scenario was based on a multi-vehicle accident with two injured patients. One of the vehicles was hauling numerous simulated radioactive material packages and three were breached during the accident. Response operations included scene size up, rescue of injured patients, and hazardous materials team entries to control the spread of radioactive contamination and the development of a site contamination location map. The emergency responders practiced the dry decontamination concepts outlined in the revised module and new dressdown video. Overall the exercise evaluators graded all phases of the exercise performance as very good to excellent.

Cattaraugus County, New York Exercise: During the week of October 16, 2007 exercise planning activities were completed for the Cattaraugus County, New York exercise. The final planning meeting with Cattaraugus County, West Valley Volunteer Hose Company and West Valley Demonstration Project representatives was held on October 16 to discuss the final plans for the exercise. On October 18th TEPP conducted a tabletop exercise reviewing roles, responsibilities and expected player actions for a highway accident involving the release of low-level radioactive waste. On October 19th the full field response exercise was conducted with Cattaraugus County and West Valley, New York responders. The exercise scenario was based on a three vehicle accident with multiple injures. One of the vehicles was a tractor trailer carrying LSA radioactive waste. The extent of play for first responders involved

Simulated breached LSA shipping container

the extinguishment of a vehicle fire, rescue of entrapped victims, and recognition of radioactive material and establishing boundaries to control the possible spread of contamination. The mutual aid responders who included the Cattaraugus County Hazardous Materials the West Valley Demonstration Project Radiological Assistance Program Teams were challenged with surveying the accident scene, mapping the contamination and discussing recovery options with the incident commander and shipper.

Simulated radioactive material packages are crushed under a rolled delivery van

Wyandotte County, Kansas Exercise: During the week of November 6, 2007 exercise planning activities were completed for the Wyandotte County, KS exercise. TEPP conducted a tabletop exercise reviewing roles, responsibilities and expected player actions for a highway accident involving the release of low-level radioactive material. The final planning meeting with Wyandotte County, Edwardsville Fire Department and the Kansas City Kansas Fire Department was held on November 7 to discuss the final plans for the exercise. On November 9, 2007 the full field response exercise was conducted with Wyandotte County responders. The exercise scenario was based on a three vehicle accident with multiple injures. The extent of play for first responders involved the extinguishment of a vehicle fire, rescue of entrapped victims, recognition of radioactive material and establishing boundaries to control the possible spread of contamination. The mutual aid responders including the Kansas City Kansas Fire Department Hazardous Materials and the State of Kansas Radiation Protection Response Teams were challenged with surveying the accident scene, mapping the contamination and discussing recovery options with the incident commander and shipper.

VI. Partnerships with Other Agencies

TEPP actively pursues opportunities to partner with federal and state agencies in areas related to homeland security and preparedness for radiological events. During FY 2007 TEPP Coordinators and contractor support staff continued collaborations and partnerships with federal and state agencies such as: Department of Homeland Security (DHS), American Society of Testing and Materials (ASTM), National Fire Protection Association (NFPA) and the University of Nevada-Las Vegas.

In January TEPP representatives assisted Operation Respond (OR) and University of Nevada Las Vegas (UNLV) with the planning for a transportation technology demonstration. On January 17, 2007 the South Carolina Fire Academy hosted the demonstration for OR and UNLV. Emergency management and responders from the surrounding communities attended the demonstration at the Columbia, South Carolina firefighter training facility. The demonstration included a briefing on the projects' grant partnerships, review of the OR internet based emergency responder information system and technologies available to improve transportation safety for shipping radioactive material.

A second demonstration was conducted at the Clark County Fire Academy in Las Vegas, Nevada, on February 21, 2007. The event was well attended by carriers, responders, law

enforcement, and other interested individuals associated with the State of Nevada. In addition, there was news coverage from TV stations 3 (NBC) and 5 (FOX). The goal of the Hazardous Materials Truck Tracking Program is to prevent accidents by identifying technologies that will enhance the safe, cost-effective transport of hazardous materials, and establishing an emergency response protocol if an accident does occur. All technologies demonstrated in this project leverage prior mobile satellite communications and tracking investments by DOE and many of its approved carriers. Specific areas of technology focus on incident prevention and management. Incident Prevention (QUALCOMM) focused on three areas; (1) improving driver awareness, (2) detection of early warning signs of trouble, and (3) location monitoring (including geo-fencing). Incident Management (Operation Respond) focused on incident notification and response capabilities utilizing existing mobile satellite communications integrated with emergency response and mitigation tools.

TEPP has continued to support interagency cooperation between several government and private agencies. TEPP representatives are participating in discussions with DHS about streamlining all federal radiological training programs into a single radiological training program suite or toolbox. One streamlining effort that has already taken place is with the Homeland Defense Equipment Reuse (HDER) training program. This training program was funded by DHS to provide radiological terrorism training to first responders. The DHS used MERRTT as the foundation for the development the HDER training program. The objective of the HDER training program was to develop a catalog of short courses that emergency responders can choose from to satisfy identified areas of weakness in their existing training programs. The HDER/TEPP program was completed in 2006.

On March 27, 2007 TEPP partnered with DHS to conduct a streamlined radiological training program in Harpers Ferry, West Virginia. The pilot training program included a combination of MERRTT and DHS HDER modules. The training was conducted for U.S. Customs and Border Protection (CBP). The four-hour class was held at the CBP Advanced Training Center for a group of international responders from Eastern Europe. The U.S. State Department provided interpreters to translate the training delivery and to assist with questions and discussion between the instructor and the 25 students attending the training. TEPP representatives will continue to work with DHS to establish the suite of radiological training modules to meet a variety of emergency responder training needs.

Responders from Estonia and Lithuanian learn to use a radiological survey instrument during MERRTT session

TEPP representatives participated in several meetings with DHS and ASTM to develop standardized approaches for response to incidents involving radioactive material. TEPP representatives are working as a part of a subcommittee under the ASTM Committee E54 on Homeland Security Applications to create a standard for responding to radiological incidents. The standard development process began in November 2006 and a draft standard was completed in July of 2007. The standard: *E54.02 New Practice for Radiological Emergency Response* was designed to assist local jurisdictions and regional first responders by providing a standardized set of decision-making guidance, procedures, and tools In the event of a Radiological Dispersal

Device (RDD), terrorist attack, or other radiological emergency. This new standard addresses planning, training, and equipment necessary to safely respond and function at a radiological incident. The ASTM development team is scheduled to finalize the standard in late 2007.

TEPP supported the NFPA 472 Standard comment resolution meeting held in Orlando, Florida the week of March 5, 2007, to review and disposition the public comments received for revising the NFPA 472 Standard. Established in 1896, NFPA serves as the world's leading advocate of fire prevention and is an authoritative source on public safety. The mission of the NFPA is to reduce the worldwide burden of fire and other hazards on the quality of life by providing and advocating consensus codes and standards, research, training, and education. NFPA membership totals more than 79,000 individuals from around the world and more than 80 national trade and professional organizations. NFPA publishes 300 codes and standards. A number of these standards have to do with response to incidents involving hazardous materials and form the basis for many first responder hazardous materials training programs.

TEPP has been involved with the National Fire Protection Association's Hazardous Materials Response Personnel Committee. This Committee has primary responsibility for developing consensus codes and standards on the requirements for the professional competence, training, procedures, and equipment for emergency responders to hazardous materials incidents. Specifically, TEPP has assisted on three NFPA standards: *NFPA 471: Recommended Practice for Responding to Hazardous Materials Incidents; NFPA 472: Standard for Professional Competence of Responders to Hazardous Materials Incidents; and NFPA 473: Standard for Competencies for EMS Personnel Responding to Hazardous Materials Incidents.* TEPP's activities with NFPA have included: providing technical consultation/subject matter expertise about issues associated with responding to transportation incidents involving radioactive material, evaluating/revising training competencies outlined in the standards, and assisting with resolving public comment or questions about the standards' content with respect to radioactive material response. TEPP's activities with this committee have also recently involved developing competencies for hazardous materials responders with a radioactive material specialty.

VII. Program Development and Direction

The annual TEPP Coordinators meeting was held in Region 7 at the DOE Nevada Operations Offices in Las Vegas. TEPP Coordinators provided briefings on their Regional activities and conducted in depth discussions about partnerships with state and federal agencies, technical support activities, exercises and future direction for TEPP. The annual meetings are strategy meetings that help to maintain cohesiveness among the Coordinators who then develop strategies to ensure a focused path forward for TEPP. During the 2007 annual meeting Regional Coordinators gave status reports and the group discussed exercises, website revisions, procedures and plans, MERRTT embedded video clip changes and ongoing interagency collaborations. The group discussed upcoming shipping campaigns and impact to regions along the EM transportation corridors. Fiscal Year 2008 promises to be busy and exciting for TEPP as the Coordinators and contractor support staff focus on:

- Preparing transportation corridors for future EM shipping campaigns
- Expanding the role of exercises as an integral training activity to prepare states and tribes for radioactive materials shipments
- Providing MERRTT course changes to certified instructors nationwide

- Improving the TEPP website
- Providing MERRTT to an expanded audience as instructors implement the new Compressed Conference course
- Encouraging state trainers to take a more active role in providing MERRTT within their jurisdiction

Over the last decade, through the implementation of TEPP, state, tribal, and local stakeholder needs and requests for assistance have been successfully met through TEPP staff coordinating planning tools, technical assistance and training courses with the response community. Stakeholders using TEPP have provided positive feedback about the usefulness, effectiveness and availability of the program's resources. This support has been shown by several states adopting elements of TEPP. The use of the training program and planning tools are strong indicators that TEPP has been and will continue to be a very useful DOE program for emergency responders at all levels across the nation.

ATTACHMENT A – NATIONAL MERRTT COURSES

Region	State	Classes	City	Students	#Day 1 or Compressed	# Full	#TTT	CEH Only	CECBEMS
1	MA	1	Grafton	16	0	0	16	0	7
1	MA	1	Stow	25	0	0	25	0	8
1	MA	1	Wilmington	8	8	0	0	0	1
1	MA	1	Worcester	21	21	0	0	0	1
1	MD	1	Hunt Valley	24	24	0	0	0	10
1	MD	5	Silver Spring	140	0	0	140	0	2
1	NH	1	Concord	18	0	0	18	0	5
1	PA	1	Lebanon	22	0	0	22	0	2
1	PA	1	State College	17	0	0	17	0	9
1	PA	1	Valley forge	24	0	0	24	0	6
		14		315	53	0	262	0	51
2	KY	2	Elizabethtown	75	0	57	18	0	7
2	KY	1	Frankfort	12	12	0	0	0	1
2	MO	1	Jefferson City	21	0	0	21	0	1
2	MS	1	Grenada	18	0	4	14	0	1
2	MS	1	Nesbit	12	0	0	12	0	2
2	MS	1	Pearl	33	0	5	28	0	5
2	VA	3	Bristol	61	2	59	0	0	28
2	VA	1	Christiansburg	15	0	15	0	0	5
2	VA	1	Draper	55	0	55	0	0	4
2	VA	1	Lexington	16	0	16	0	0	8
2	VA	1	Marion	18	0	18	0	0	12
2	VA	1	Middletown	4	0	0	4	0	2
2	VA	4	Roanoke	78	2	76	0	0	40
2	VA	1	Winchester	10	0	10	0	0	4
2	WV	1	Clarksburg	11	11	0	0	0	9
		21		439	27	315	97	0	129
3	AL	1	Montgomery	12	0	12	0	0	4
3	GA	1	Calhoun	47	3	44	0	0	18
3	GA	2	Jonesboro	26	0	26	0	0	16
3	NC	2	Fayetteville	38	0	8	30	0	24
3	NC	1	Orange Co.	10	0	0	10	0	2
3	NC	1	Winston-Salem	32	0	3	29	0	13
3	SC	1	Blythewood	16	0	12	4	0	0
3	SC	1	Clemson	4	4	0	0	0	0
3	SC	1	Columbia	7	0	0	7	0	0
3	SC	1	Cordesville	7	0	7	0	0	0
3	SC	1	Gaffney	29	0	26	3	0	2
3	SC	1	Moncks Corner	8	0	8	0	0	0
3	SC	1	W. Columbia	29	4	0	25	0	5
		15		265	11	146	108	0	84
4	AZ	1	Flagstaff	22	0	10	12	0	10
4	KS	1	Kansas City	48	9	0	34	5	29
4	NM	1	Socorro	7	7	0	0	0	3
4	OK	1	Shawnee	15	0	0	15	0	2
		4		92	16	10	61	5	44

Region	State	Classes	City	Students	#Day 1 or Compressed	# Full	#TTT	CEH Only	CECBEMS
5	IL	1	Orland Park	13	2	0	11	0	9
5	IL	1	South Elgin	8	0	0	8	0	6
5	IL	1	Springfield	15	0	0	15	0	7
5	MI	1	Troy	30	0	0	30	0	20
		4		66	2	0	64	0	42
6	CO	1	Colorado Springs	31	4	5	22	0	11
6	CO	1	Longmont	29	7	4	18	0	6
6	CO	1	Thornton	15	1	1	13	0	7
6	ID	1	Fort Hall	11	0	7	0	4	4
6	UT	1	Park City	4	4	0	0	0	0
		5		90	16	17	53	4	28
7	CA	1	Banning	26	8	0	17	1	13
7	CA	2	Castro Valley	20	20	0	0	0	8
7	CA	1	Sacramento	20	20	0	0	0	2
7	CA	1	San Bernardino	12	2	2	8	0	4
7	CA	1	San Diego	9	9	0	0	0	3
7	CA	1	Shoshone	9	0	0	9	0	4
7	NV	1	Las Vegas	22	1	21	0	0	2
		8		118	60	23	34	1	36
8	WA	2	Silverdale	45	45	0	0	0	4
8	WA	1	Tacoma	24	0	0	24	0	3
		3		69	45	0	24	0	7
Program Totals		**74**		**1454**	**230**	**511**	**703**	**10**	**421**

ATTACHMENT B – NATIONAL WORKSHOP AND CONFERENCE LISTING

1. **National Conference of State Legislatures' High-Level Radioactive Waste Working Group Meeting**, San Diego, California, October 3-5, 2006. TEPP representatives attended the joint meeting between the Southern States Energy Board and the National Conference of State Legislatures. A TEPP briefing was given to about 60 people who were in attendance.

2. **HazMat Explo10 Conference**, Las Vegas, Nevada, November15-16, 2006. TEPP staff conducted a Full MERRTT. Twenty-two MERRTT certificates were awarded to the course participants. Staff at the TEPP display booth in the vendor display area provided MERRTT training tools and resources to conference attendees. Approximately 170 responders stopped by the booth to discuss radiological response and pick up the TEPP provided resources.

3. **EPA Region III Annual Conference**, Valley Forge, Pennsylvania, December 3-6, 2006. TEPP representatives attended the Region III Environmental Protection Agency Annual Conference held in Valley Forge PA. As a part of the conference, a 2-day MERRTT TTT session was delivered and a TEPP booth was staffed. Both the class and conference were well attended. A variety of responders from fire service, law enforcement, and emergency management personnel completed the training. Approximately 2000 people participated in this year's conference. Several hundred attendees stopped by the booth to pick up Student CDs and flatsheets

4. **Nebraska State Emergency Response Commission (SERC),** Lincoln, Nebraska, January 9, 2007. TEPP staff provided a TEPP briefing to emergency managers from throughout Nebraska.

5. **Waste Management 2007,** Tucson, Arizona, February 27, 2007. TEPP staff presented *"Are you Prepared? Response to a Radiological Transportation Incident Simplified"* at the Waste Management 2007 Conference held in Tucson Arizona. Approximately 30 conference participants attended the presentation and in excess of twenty picked up TEPP flatsheets, student CDs and brochures.

6. **Firehouse World Conference**, San Diego, California, February 25-March 2, 2007. During the Firehouse World Conference in San Diego, California February 25-March 2, 2007 TEPP and WIPP representatives piloted the new compressed one day MERRTT Conference course. Student feedback was positive and course evaluations indicated that the course content, hands-on activities and delivery time was adequate for the duration of the class. In addition to the pre-conference training session, TEPP representatives conducted two breakout sessions. The first session covered radiological basics, biological effects and hazard recognition and the second session discussed radiological instrument selection and operation. The TEPP display was staffed during the conference. Approximately 3,000 responders attended the conference. Several hundred responders visited the display and inquired about available training and resources.

7. **Low-Level Waste Annual Conference**, San Diego, California, March 19-20, 2007. TEPP staff conducted an EM and TEPP briefing at the Annual Low-Level Waste Conference. Approximately fifty people were in attendance at the meeting. Positive comments were received from many of the attendees.

8. **DOE-RW Tribal Workshop,** Denver, Colorado, April 23-24, 2007. The DOE-EM TEPP Manager and a TEPP representative supported the OCRWM Tribal Workshop held in Denver Colorado April 23-25 2007. TEPP provided a briefing and awareness training session and staffed a display booth to provide additional information on TEPP tools, training and resources. In excess of fifty representatives from 35 different tribes attended the workshop. Positive comments were received from many of the attendees.

9. **Fire Expo Pennsylvania 2007,** Lancaster, Pennsylvania, May 20, 2007. In a continuing effort to work with state and local officials TEPP representatives partnered with Pennsylvania Emergency Management Agency (PEMA) officials to staff a booth at the annual Pennsylvania Fire Exposition held in Harrisburg, PA on May 18th through 20th. Annual attendance is estimated at 22,000 emergency responders from PA and surrounding states. During the conference TEPP and PEMA officials provided handouts to over 1200 responders.

10. **Combined Intermountain Hazardous Materials / RAP Radiation Round-up Conference**, Park City, Utah, May 23, 2007. TEPP representatives presented a one Day MERRTT to emergency responders. TEPP has been participating in this conference for the past 7 years and continues to be invited back by conference officials.

11. **2007 International HazMat Response Teams Conference,** Hunt Valley, Maryland, June 3, 2007. On June 1st and 2nd TEPP representatives attend the Annual International Fire Chiefs Association Hazardous Materials Conference held in Hunt Valley, MD. During the conference TEPP representatives conducted a compressed MERRTT.

12. **Northeast Council of State Governments,** Providence, Rhode Island, June 5, 2007. A TEPP representative attended the semi-annual meeting of the Council of State Governments Northeast Task Force held in Providence, RI on June 5th and 6th. During the meeting the TEPP representative provided a briefing on national and regional TEPP activities.

13. **Midwest Council of State Governments**, Jefferson City, Missouri, June 27-28, 2007. A TEPP representative attended the semi-annual meeting of the Council of State Governments Midwest Council held in Jefferson City, Missouri June 27-28, 2007. During the meeting the TEPP representative provided a briefing on national and regional TEPP activities.

14. **Transportation External Coordination/Working Group (TEC/WG),** Kansas City, Missouri, July 24-25, 2007. TEPP representatives staffed a TEPP display booth for the semi-annual meeting of the TEC/WG. In excess of 50 state and tribal representatives stopped by the booth and picked up CDs, Flatsheets, Brochures and copies of the 2006 TEPP Annual Report. Several contacts were made with individuals interested in providing MERRTT in their jurisdictions.

15. **Firehouse EXPO,** Baltimore, Maryland, July 28, 2007. TEPP representatives attended the Firehouse Expo held on July 25th through 28th in Baltimore, MD. During the pre-conference, the new compressed one day MERRTT was piloted. Student feedback was positive and course evaluations indicated that the course content, hands-on activities, and delivery time was adequate for the duration of the class. In addition to the pre-conference training session, representatives conducted two breakout sessions. The first session covered radiological basics, biological effects and hazard recognition and the second session discussed radiological instrument selection and operation. The TEPP display was staffed during the conference. Approximately 17,000 responders attended the conference. Several hundred responders visited the display and inquired about available training and resources

16. **Sacramento Continuing Challenge HazMat Conference,** Sacramento, California, September 5-6, 2007. TEPP staff presented a one day Conference MERRTT session to 20 responders representing fire, law enforcement, environmental health, emergency management, emergency medical services, state and regulatory/compliance agencies. Staff also manned a TEPP display booth and talked with approximately 170 conference attendees who stopped by the booth to pick up Student CDs and flatsheets.

ATTACHMENT C – NON-DOE SPONSORED COURSES

Region	City	State	TTT	Full	Day 1 or Compressed	CEH Only	Total Students	CECBEMS
1	Springfield	MA	0	0	13	0	13	2
1	Lakeville	MA	0	0	7	0	7	0
1	Staten Island	NY	0	2	18	0	20	0
3	**Region 1 classes**		**0**	**2**	**38**	**0**	**40**	**2**
2	Crossville	TN	0	27	0	0	27	17
2	Bristol	TN	0	40	5	0	45	32
2	Shreveport	LA	0	2	0	0	2	0
2	Lenoir City	TN	0	3	0	0	3	3
2	Abingdon	VA	0	21	0	0	21	2
2	Little Rock	AR	11	0	0	0	11	2
2	Wytheville	VA	0	25	0	0	25	4
2	Abingdon	VA	0	25	0	0	25	3
2	Harrisonburg	VA	0	15	1	0	16	6
2	Johnson City	TN	0	0	28	0	28	0
10	**Region 2 classes**		**11**	**158**	**34**	**0**	**203**	**69**
3	Columbia	SC	0	0	12	0	12	12
3	Blythewood	SC	0	0	7	0	7	1
3	Forsyth	GA	0	30	0	0	30	12
3	Surry County	NC	0	0	15	0	15	0
3	Raleigh	NC	0	0	32	0	32	0
5	**Region 3 classes**		**0**	**30**	**66**	**0**	**96**	**25**
4	Carlsbad	NM	15	0	0	0	15	1
4	Carlsbad	NM	3	0	0	0	3	0
2	**Region 4 classes**		**18**	**0**	**0**	**0**	**18**	**1**
5	Otoe County	NE	0	19	0	0	19	0
5	Kearney	NE	0	10	0	0	10	0
5	Crown Point	IN	0	0	8	0	8	3
5	Hastings	NE	0	5	0	0	5	2
5	South Lyon	MI	0	30	0	0	30	17
5	Clarkston	MI	0	0	39	0	39	0
5	Ainsworth	NE	0	1	14	0	15	4
7	**Region 5 classes**		**0**	**65**	**61**	**0**	**126**	**26**
7	Reno	NV	25	0	0	0	25	7
1	**Region 7 classes**		**25**	**0**	**0**	**0**	**25**	**7**
28	**Totals**		**54**	**255**	**199**	**0**	**508**	**130**