**Radiological Emergency Preparedness Program**

**REP Training**

*Vol. IV, No. 1  REP Training Newsletter  April 2014*

### E/L-339 REP Core Concepts Course (RCCC) (1.5-day)

<table>
<thead>
<tr>
<th>Status</th>
<th>Date</th>
<th>Location</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>Change</td>
<td>04/22-23/2014</td>
<td>L-339 RCCC Virginia</td>
<td>Richmond, VA</td>
</tr>
<tr>
<td>Upcoming</td>
<td>04/29-30/2014</td>
<td>L-339 RCCC New York</td>
<td>Goshen, NY</td>
</tr>
<tr>
<td>Upcoming</td>
<td>05/01-02/2014</td>
<td>L-339 RCCC New York</td>
<td>Valhalla, NY</td>
</tr>
<tr>
<td>Cancelled</td>
<td>05/05-06/2014</td>
<td>E-339 RCCC EMI</td>
<td>(NETC/Emmitsburg, MD)</td>
</tr>
<tr>
<td>Upcoming</td>
<td>05/07-08/2014</td>
<td>L-339 RCCC Texas (R6)</td>
<td>Austin, TX</td>
</tr>
<tr>
<td>Upcoming</td>
<td>06/03-04/2014</td>
<td>L-339 RCCC Florida (R4)</td>
<td>West Palm Beach, FL</td>
</tr>
<tr>
<td>Change</td>
<td>06/09-10/2014</td>
<td>L-339 RCCC Tennessee (R4)</td>
<td>Knoxville, TN</td>
</tr>
<tr>
<td>Upcoming</td>
<td>06/09-10/2014</td>
<td>L-339 RCCC Illinois (R5)</td>
<td>Chicago, IL</td>
</tr>
<tr>
<td>Upcoming</td>
<td>06/23-24/2014</td>
<td>L-339 RCCC Illinois (R5)</td>
<td>Joliet, IL</td>
</tr>
<tr>
<td>Upcoming</td>
<td>07/21-22/2014</td>
<td>L-339 RCCC Texas (R6)</td>
<td>Denton, TX</td>
</tr>
<tr>
<td>Upcoming</td>
<td>09/04-05/2014</td>
<td>L-339 RCCC New York (R2)</td>
<td>Fulton, NY</td>
</tr>
</tbody>
</table>

### E/L-304 REP Exercise Evaluator Course (REEC) (3.5-day)

<table>
<thead>
<tr>
<th>Status</th>
<th>Date</th>
<th>Location</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upcoming</td>
<td>04/15-18/2014</td>
<td>L-304 REEC Florida (R4)</td>
<td>Tallahassee, FL</td>
</tr>
<tr>
<td>Cancelled</td>
<td>05/06-09/2014</td>
<td>E-304 REEC EMI</td>
<td>(NETC/Emmitsburg, MD)</td>
</tr>
<tr>
<td>Upcoming 4</td>
<td>06/10-13/2014</td>
<td>L-304 REEC Illinois (R5)</td>
<td>Chicago, IL</td>
</tr>
<tr>
<td>Upcoming 4</td>
<td>07/22-25/2014</td>
<td>L-304 REEC Texas (R6)</td>
<td>Denton, TX</td>
</tr>
<tr>
<td>Upcoming</td>
<td>07/29-08/01/2014</td>
<td>L-304 REEC Washington (R10)</td>
<td>Richland, WA</td>
</tr>
</tbody>
</table>

### E/L-340 REP Plan Review Course (RPPR) (3.0-day)

<table>
<thead>
<tr>
<th>Status</th>
<th>Date</th>
<th>Location</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cancelled</td>
<td>04/01-04/2014</td>
<td>E-340 RPPR EMI</td>
<td>(NETC/Emmitsburg, MD)</td>
</tr>
<tr>
<td>Change</td>
<td>05/13-15/2014</td>
<td>L-340 RPPR Virginia (R3)</td>
<td>Richmond, VA</td>
</tr>
<tr>
<td>Upcoming</td>
<td>06/03-05/2014</td>
<td>L-340 RPPR Texas (R6)</td>
<td>Denton, TX</td>
</tr>
<tr>
<td>Upcoming 3</td>
<td>06/10-13/2014</td>
<td>L-340 RPPR Tennessee (R4)</td>
<td>Knoxville, TN</td>
</tr>
<tr>
<td>Upcoming</td>
<td>06/24-27/2014</td>
<td>L-340 RPPR Illinois (R5)</td>
<td>Joliet, IL</td>
</tr>
</tbody>
</table>

### E/L-341 Radiological Accident Assessment Course (RAAC) (5.0-day)

- **TBA**

### REP Disaster Initiated Review (RDIR) (1.0-day)

<table>
<thead>
<tr>
<th>Status</th>
<th>Date</th>
<th>Location</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upcoming</td>
<td>05/14/2014</td>
<td>RDIR New York (R2)</td>
<td>Carmel, NY</td>
</tr>
<tr>
<td>Upcoming</td>
<td>05/29/2014</td>
<td>RDIR Pennsylvania (R3)</td>
<td>Philadelphia, PA</td>
</tr>
<tr>
<td>Upcoming</td>
<td>08/14/2014</td>
<td>RDIR Washington (R10)</td>
<td>Richland, WA</td>
</tr>
<tr>
<td>Upcoming</td>
<td>09/18/2014</td>
<td>RDIR New York (R2)</td>
<td>Lyons, NY</td>
</tr>
</tbody>
</table>

- *indicates a combined course offering (matching superscripts)*
- **Click to open:** CDP Admission Form
- **Click to open:** EMI Admission Form (119-25-1)
- **Click to open:** REP Course Request Form
- **Click to view specific course announcement**

For more Information contact the REP Training Team POC: [FEMA-REPP-Training@fema.dhs.gov](mailto:FEMA-REPP-Training@fema.dhs.gov)
The Center for Domestic Preparedness (CDP) will be offering a NEW Radiological-Integrated Capstone Event (R-ICE), synchronizing the Radiological Emergency Response Operations (RERO) and Advanced Radiological Incident Operations (ARIO) courses.

**RERO** participants will focus on 1st Responder hands-on equipment skills, and responsibilities as members of a field monitoring team during radiological Plume and Ingestion Pathway incidents.

**ARIO** participants will focus on Emergency Operations Center (EOC) responsibilities, coordination of the field monitoring teams, data collection, and developing recommendations for protective actions.

Register for the course you have selected by clicking on the link provided below. (See page 5 for more information)

**PER-904** Radiological Emergency Response Operations (RERO) Course (5.0-day) (CDP / Anniston, AL)
Click on link for more information: PER-904 RERO
- June 08-14, 2014 (RERO Only)
- September 22-28, 2014 (R-ICE)/(RERO/ARIO)

**PER-905** Advanced Radiological Incident Operations (ARIO) Course (5.0-day) (CDP / Anniston, AL)
Click on link for more information: PER-905 ARIO
- September 22-28, 2014 (R-ICE)/(RERO/ARIO)

Incident Response to Terrorist Bombing (IRTB) New Mexico Tech (EMRTC/Socorro, NM) - For training schedule, click on link: emrtc.nmt.edu/training

Radiation Emergency Medicine (ORISE) (REAC/TS Facility in Oak Ridge, TN) (3.5-day) orise.orau.gov
- April 29-May 02, 2014
- June 03-06, 2014
- August 12-15, 2014

2014 Continuing Challenge Hazardous Materials Emergency Response Workshop (4.0-day) Hazmat.org
- September 02-05, 2014 (Registration begins June 1, 2014)

**E-237** National Training & Exercise Symposium (NETC/Emmitsburg, MD) (3.0-day)
www.training.fema.gov/nte
- April 28-May 02, 2014

**E-262** Instructional Delivery for SMEs (EMI/Emmitsburg, MD) (4.0-day) EMI Course Catalog
- August 04-07, 2014

**H-107** (NRC) Introduction to Emergency Preparedness Course (1.0-day) For more information see attachment “NRC Emergency Preparedness Courses”
- TBA

**H-203** (NRC) Emergency Preparedness Technology Course (5.0-day) For more information see attachment “NRC Emergency Preparedness Courses”
- August 25-29, 2014

**PER-240** WMD Radiological/Nuclear Responder Operations Course (3.0 day) (CTOS/Las Vegas, NV Mobile Training) - To request local training delivery, click on link: www.ctosnnsa.org

**PER-241** WMD Radiological/Nuclear Course for Hazardous Material Technicians (4.0-day) (CTOS / Las Vegas, NV) - For training schedule, click on link: www.ctosnnsa.org

**PER-266** Instructor Training Certification (CDP/Anniston, AL) (5.0-day) PER-266 ITC
- May 04-10, 2014
- June 15-21, 2014

For more Information contact the REP Training Team POC: FEMA-REPP-Training@fema.dhs.gov
REP Instructor-Led Courses:

- **REP Core Concepts Course** *(E/L/B-339/RCCC)* focuses on the nuclear power plant off-site radiological emergency preparedness program. Addresses the REP Program history and sentinel events, federal regulatory policies, basic radiation principles, REP planning guidance (planning standards), REP demonstration guidance (exercise evaluation areas) and the REP Disaster Initiated Review (DIR) process. At the successful completion of this course, the student will have satisfied the instructor-led training prerequisites for both the E/L-340 REP Plan Review Course (RPPR) and the E/L-304 REP Exercise Evaluator Course (REEC).
  - 1.5 days
  - Target audience: Primary - Federal, State, Local, and Tribal
  - Course Delivery: Primary – Local; Secondary – National Emergency Training Centers
  - Instructors: REP Instructor Cadre (REP HQ, and REP Regional staff)
  - Prerequisite(s): IS-3 Radiological Emergency Management

- **REP Plan Review Course** *(E/L/B-340/RPPR)* This course focuses on the review of REP emergency plans, specifically the NUREG 0654 planning standards that address the public’s health and safety. The revised REP Plan Review Course will include training based on the Comprehensive Preparedness Guide (CPG) -101, familiarization of Hostile Action Based (HAB) plan review, annual plan review and the Annual Letter of Certification Review Guide process.
  - 3.0 days
  - Target audience: Primary - State, Local, and Tribal; Secondary – Federal REP staff
  - Course Delivery: Primary – Local; Secondary – National Emergency Training Centers
  - Instructors: REP Instructor Cadre (REP HQ, and REP Regional staff)
  - Prerequisite(s): *E/L-339 REP Core Concepts Course (RCCC) and IS-235.b Emergency Planning

*Exception: Completion of E/L-340 REP Program & Planning Course (2009-2012) satisfies the prerequisite E/L-339 RCCC
• **REP Exercise Evaluator Course** *(E/L/B-304/REEC)* topics include regulations and guidelines for evaluating REP exercises, in preparation of, observations during, post-exercise activities, and techniques for exercise evaluation. This also includes the observation of video vignettes of REP exercises and the development of exercise narratives submitted to the REP Exercise Evaluation Tool (EET), for review by REP adjunct instructors. Federal, State, Local, Tribal, and utility personnel who are involved in the development of off-site REP plans and exercises may apply. This course fulfills the credentialing training requirements for becoming a Type III REP Exercise Evaluator.
  o 3.5 days
  o Target audience: Primary – Federal REP-staff and Non-REP staff; Secondary - State, Local, and Tribal
  o Course Delivery: Primary – Local; Secondary – National Emergency Training Centers
  o Instructors: REP Instructor Cadre (REP HQ, and REP Regional staff)
  o Prerequisite(s): *E/L-339 REP Core Concepts Course (RCCC) and IS-331 Introduction to Radiological Emergency Preparedness (REP Exercise Evaluation)*
    *Exception: Completion of E/L-340 REP Program & Planning Course (RPPC)(2009-2012) satisfies the prerequisite E/L-339 RCCC

• **Radiological Accident Assessment Course** *(E/L-341/RAAC)* this course addresses radiological consequences of accidents involving radiological materials. This includes accidents or incidents involving commercial power reactors, lost sources, dispersion devices, and transportation. The focus of the course is concepts involved in formulating protective action recommendations following a radiological accident, such as dose quantities, atmospheric dispersion, dose projection, protective action guides, and derived intervention levels. Participants engage in problem-solving sessions and a tabletop exercise.
  o 5.0 days
  o Target audience: Primary – Federal, State, Local, and Tribal
    ▪ Enrollment is limited to local, State, and Federal technical radiological accident assessment staff. Private sector (i.e., utility company) technical staff also may apply. This course is not intended for emergency management staff. This course requires familiarity with mathematical equations and exponential manipulations. Participants must bring a scientific calculator which they know how to use to perform the required calculations. Participants also should know how to use Microsoft Excel and the Nuclear Regulatory Commission computer code, RASCAL.
  o Course Delivery: Primary – National Emergency Training Centers; Secondary – Local
  o Instructors: REP Instructor Cadre (REP HQ, REP Regional staff, and contractors)
  o Prerequisite(s): Completion of the Pre-course Workbook is required prior to attending the course. Course manager must review all applications prior to acceptance by admissions office.

• **REP Disaster Initiated Review (RDIR) Course** *(REP-DIR)* The purpose of a DIR is to determine the capability of offsite emergency response infrastructure following an extended plant shutdown, or shutdown caused by electric grid blackouts, malevolent act, pandemic or natural disaster (e.g., hurricane, tornado, flood, storm, earthquake) in the vicinity of commercial nuclear power plants.” This course is designed to provide the student with fundamental knowledge of the Disaster Initiated Review (DIR) Standard Operating Procedure and Post Disaster Assessment of Offsite Capabilities Checklists. At the end of this course, participants should be able to demonstrate an awareness of the responsibilities, procedures and protocols for the accomplishment of a DIR and demonstrate an ability to function as a member of a DIR Team by participating in a DIR table-top exercise.
  o 1.0 days
  o Target audience: Primary – Federal, State, Local, and Tribal
  o Course Delivery: Primary – Local
  o Instructors: REP Instructor Cadre (REP HQ, and REP Regional staff)
  o Prerequisite(s): E/L-339 RCCC
• **Radiological Emergency Response Operations** (PER-904/RERO) is a five-day course offering lectures, hands-on training, and team exercises. The lectures include operational-level radiological concepts using guidance and information from the U.S. Department of Homeland Security, Federal Emergency Management Agency, U.S. Nuclear Regulatory Commission, U.S. Department of Energy, and the Environmental Protection Agency. Use of the hands-on training modules will provide students with the knowledge and skills to perform in a radiological emergency response operation. The Radiological Emergency Response Operations course culminates on the fifth day with a final exercise involving the emergency response operations skills and training learned during the course.
  
  - 5.0 days
  - Target audience: Any member of an organized federal, state, local, or tribal radiological/hazardous materials response teams who have responsibility for responding to or managing a radiological incident. Personnel assigned to such teams include fire service, law enforcement, health physicists, industrial hygienists, radiological officers, and other emergency service personnel with similar responsibilities. Local or tribal participants should reside within either of two Emergency Planning Zones (EPZ).
  - An Excel spreadsheet of jurisdictions, broken down by FEMA Region and state, eligible to attend Radiological training courses is available in the “Additional Resources” section, on the corresponding CDP webpage.
  
  - Course Delivery: Center of Domestic Preparedness (CDP)
  - Instructors: Contractors
  - Prerequisites: refer to link [PER-904/RERO](mailto:PER-904/RERO)
  - CEUs:
    - International Association for Continuing Education and Training (IACET): 4.0
    - Nursing, through Alabama Board of Nursing (nurses only): 40
    - Police Officer Standards and Training (POST; approved per state): 40

• **Advanced Radiological Incident Operations** (PER-905/ARIO) is a five-day course providing participants with the advanced skills necessary to safely respond to and manage incidents involving radiological hazards. Participants apply these skills in tabletop exercises based on realistic radiological incident scenarios, set within the ICS structure. At the conclusion of this course, participants will be able to accomplish the following:
  
  - Identify hazards created by a release of nuclear power plant radioactivity and fallout created by a nuclear detonation
  - Outline protective actions that must be taken for the public and other responders during an incident
  - Apply relocation, re-entry, and return procedures relative to ingestion exposure pathways.
  - Recognize the benefits of using plume modeling for making response decisions during an incident involving radiological materials
  - Identify selected radiation responder kits that may be used during radiological response
  - Generate an Incident Action Plan

  - 5.0 days
  - Target audience: Any member of an organized federal, state, local, or tribal radiological/hazardous materials response teams who have responsibility for responding to or managing a radiological incident. These individuals may be members of federal, state, tribal, local, and private-sector response teams. Local or tribal participants should reside within either of two Emergency Planning Zones (EPZ).
  - An Excel spreadsheet of jurisdictions, broken down by FEMA Region and state, eligible to attend Radiological training courses is available in the “Additional Resources” section, on the corresponding CDP webpage.
  
  - Course Delivery: Center of Domestic Preparedness (CDP)
  - Instructors: Contractors
  - Prerequisites: refer to link [PER-905 ARIO](mailto:PER-905 ARIO)
    - Have successfully completed IS-100.b, IS-200.b, and IS-700.a.
    - Have successfully completed [PER-904, Radiological Emergency Response Operations (RERO)](mailto:PER-904, Radiological Emergency Response Operations (RERO)); or PER-240 WMD Radiological/Nuclear Responder Operations Course; or PER-241 WMD Radiological/Nuclear Course for HazMat Technicians
  - CEUs:
    - International Association for Continuing Education and Training (IACET): 4.0
    - Police Officer Standards and Training (POST; approved per state): 40
REP Independent Study Courses:

- **Radiological Emergency Management** *(IS-3)* (Interactive Web-based Course) this course is a prerequisite to the REP Core Concepts Course (E/L-339/RCCC). This independent study course contains information on a variety of radiological topics, including: fundamental principles of radiation, nuclear threat and protective measures, nuclear power plants, radiological transportation accidents, other radiological hazards. (Course Length: 10 hours / 1 CEUs)

- **Emergency Planning** *(IS-235.b)* (Interactive Web-based Course) this course is a prerequisite to the REP Planning Course (E/L-340/RPPC). This course is designed for emergency management personnel who are involved in developing an effective emergency planning system. This course offers training in the fundamentals of the emergency planning process, including the rationale behind planning. It will develop your capability for effective participation in the all-hazard emergency operations planning process to save lives and protect property threatened by disaster. (Course Length: 10 hours / 1 CEUs)

- **NEW Radiological Accident Assessment Concepts** *(IS-303)* (Interactive Web-based Course) this course is a prerequisite for the Radiological Accident Assessment Course (E/L-341). In this course you will learn how to assess the off-site radiological consequences to the public following a release of radioactivity from nuclear power reactors and non-reactor incidents and how to use this assessment as a basis for recommending protective actions to decision makers. (Course Length: 16 hours / 1.6 CEUs)

- **Introduction to Radiological Emergency Preparedness (REP Exercise Evaluation)** *(IS-331)* (Interactive Web-based Course) this course is a prerequisite to the REP Exercise Evaluator Course (E/L-304/REEC). This course introduces the student to the basic concepts and terminology of the offsite emergency preparedness program for commercial nuclear power plants. It provides an introduction to the program's exercise evaluation regulations, philosophy, and methodology. (Course Length: 10 hours / 1 CEUs)

- **Nuclear/Radiological Incident Annex** *(IS-836)* (Interactive Web-based Course) The National Response Framework (NRF) presents the guiding principles that enable all response partners to prepare for and provide a unified national response to disasters and emergencies from the smallest incident to the largest catastrophe. As part of the NRF, the Incident Annexes describe the concept of operations to address specific contingency or hazard situations or an element of an incident requiring specialized application of the NRF. This course provides an introduction to the Nuclear/Radiological Incident Annex (NRIA) to the NRF. (Course Length: 1 hour / .1 CEUs)