



Emergency Management Issues Special Interest Group Annual Meeting

What's New with the SCAPA Website?

Cliff Glantz

Pacific Northwest National Laboratory

cliff.glantz@pnl.gov

509-375-2166

May 2-5, 2011 Charleston Marriott • Charleston, South Carolina



We've had well over a year with the new webpage design...

The screenshot displays the EMI SIG website interface. At the top, there is a navigation menu with links for Home, About EMI SIG, Contact Us, SharePoint Sites, and Site Map. A search bar is located to the right of the navigation menu. Below the navigation menu, there are four main menu items: Subcommittees & Working Groups, Membership/Directory, Annual Meeting, and Training & Products. The main content area is divided into three columns. The left column contains a vertical menu with links for SCAPA, Working Groups, Biosafety Information, Chem PACs/TEELs, Chemical Mixture Methodology, Modeling Toolbox, Software QA, Meetings, News, Meeting Reports, Teleconference Highlights, Annual Workshops, Publications and Links, Publications, Links, Action Items (PDF), Acronyms, and Charter. The middle column features a section titled "Subcommittee on Consequence Assessment and Protective Actions (SCAPA)" with a large image showing a water tower and a fire. Below the image, there is a paragraph of text describing the SCAPA subcommittee's role and a list of bullet points. The right column contains a "Leadership & Directory" section with links for Leadership and Directory, and a "SharePoint" section with a link to request a password.

emi sig
EMERGENCY MANAGEMENT ISSUES
SPECIAL INTEREST GROUP

Home About EMI SIG Contact Us SharePoint Sites Site Map

Search this site

Subcommittees & Working Groups Membership/Directory Annual Meeting Training & Products

SCAPA

Working Groups
Biosafety Information
Chem PACs/TEELs
Chemical Mixture Methodology
Modeling Toolbox
Software QA
Meetings
News
Meeting Reports
Teleconference Highlights
Annual Workshops
Publications and Links
Publications
Links
Action Items (PDF)
Acronyms
Charter

Subcommittee on Consequence Assessment and Protective Actions (SCAPA)

The Subcommittee on Consequence Assessment and Protective Actions (SCAPA) provides the U.S. Department of Energy (DOE) / National Nuclear Security Administration (NNSA) and its contractors with technical information and recommendations for emergency preparedness to assist in safeguarding the health and safety of workers and the public. SCAPA deals with both radiological and nonradiological materials. SCAPA working groups are providing guidance to DOE/NNSA and contractors on:

- Protective Action Criteria (PAC) for chemical releases. The PAC provides chemical exposure limit values for well over 2,000

Leadership & Directory

Leadership
Directory

SharePoint
(request a password)

Chem PACs/TEELs

- Differences Between AEGLs, ERPGs & TEELs
- Updates to the PAC Data Set
- [Link to the PAC Workbook, Tables & Searchable Database](#)
- Need PACs for a New Chemical
- Questioning an Existing TEEL Value
- Further Information
- PAC/TEEL Development Team

Chem PACs/TEELs

Protective Action Criteria for Chemicals - Including AEGLs, ERPGs, & TEELs

Protective Action Criteria (PACs) are essential components for planning and response to uncontrolled releases of hazardous chemicals. These criteria, combined with estimates of exposure, provide the information necessary to evaluate chemical release events for the purpose of taking appropriate protective actions. During an emergency response, these criteria may be used to evaluate the severity of the event, to identify potential outcomes, and to decide what protective actions should be taken. These criteria may also be used to estimate the severity of consequences of an uncontrolled release and to plan for an effective emergency response.

PAC values for emergency planning for chemical release events are based on the following exposure limit values:

- Acute Exposure Guideline Level (AEGL) values published by the U.S. Environmental Protection Agency (EPA)
- Emergency Response Planning Guideline (ERPG) values produced by the American Industrial Hygiene Association (AIHA)
- Temporary Emergency Exposure Limit (TEEL) values developed by SCAPA

For any particular chemical, DOE policy for its facilities and activities established the following hierarchy of PAC values:

- Use AEGLs (including final or interim values) if they are

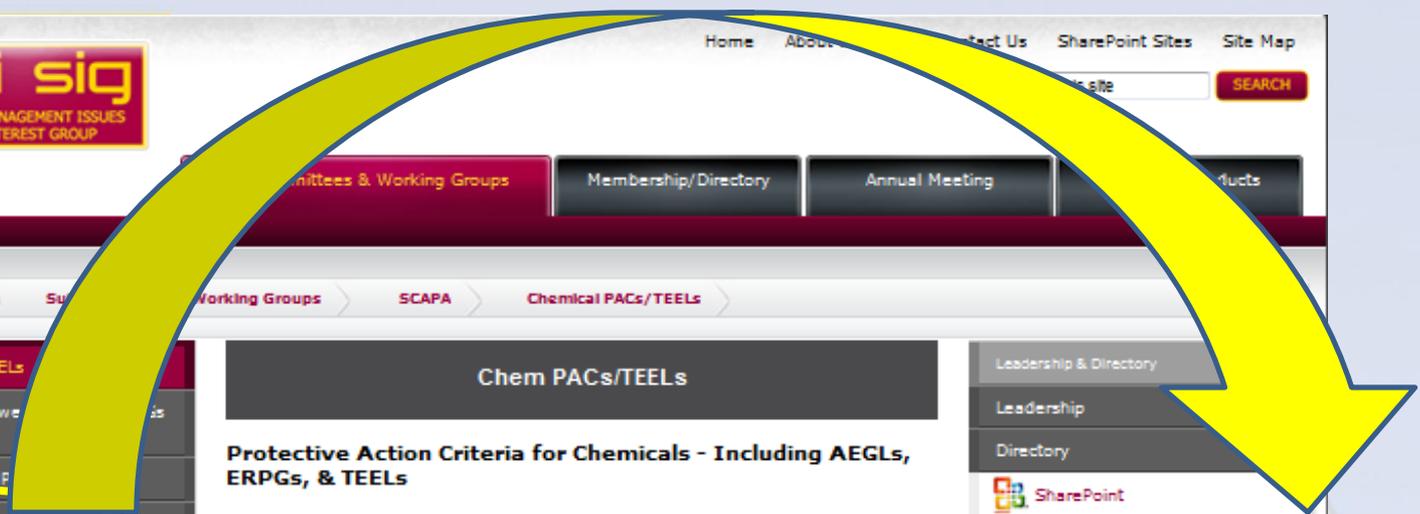
Leadership & Directory

- Leadership
- Directory

SharePoint

Chem PACs/TEELs

- Differences Between AEGLs, ERPGs & TEELs
- Updates to the PAC Data Set
- [Link to the PAC Workbook, Tables & Searchable Database](#)
- Need PACs for a New Chemical
- Questioning an Existing TEEL Value
- Further Information
- PAC/TEEL Development Team



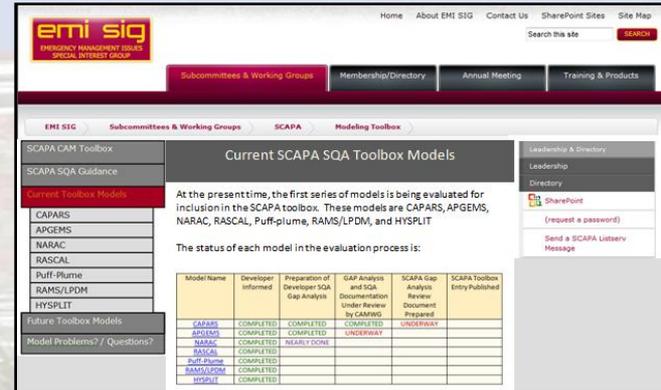
SCAPA SQA Webpages

Updates to SCAPA SQA Webpages:

- The SCAPA SQA Guidance document is available on-line
- Information on the new DOE QA order (DOE 414.1D)
- Our information on the DOE Central Registry Toolbox has been updated

SCAPA Toolbox Webpages

- Going from theoretical to operational
- Intro to the toolbox
- Provides status report on each model's SQA gap analysis
- Provides model information, SQA reports, and links



emi sig
EMERGENCY MANAGEMENT ISSUES
SPECIAL INTEREST GROUP

Home About EMI SIG Contact Us SharePoint Sites Site Map
Search this site

Subcommittees & Working Groups Membership/Directory Annual Meeting Training & Products

emi sig Subcommittees & Working Groups SCAPA Modeling Toolbox

SCAPA CAM Toolbox
SCAPA SQA Guidance
Current Toolbox Models
Future Toolbox Models
Model Problems? / Questions?

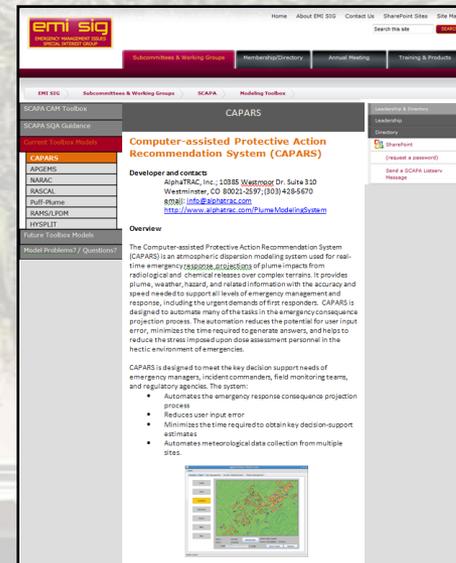
Current SCAPA SQA Toolbox Models

At the present time, the first series of models is being evaluated for inclusion in the SCAPA toolbox. These models are CAPARS, APGEMS, NARAC, RASCAL, Puff-plume, RAMS/LPDM, and HYSPLIT

The status of each model in the evaluation process is:

| Model Name | Developer | Preparation of Developer SQA Gap Analysis | SQA Analysis and SQA Documentation Under Review by CAMSWG | SCAPA Gap Analysis Review Document Prepared | SCAPA Toolbox Entry Published |
|------------|-----------|---|---|---|-------------------------------|
| CAPARS | COMPLETED | COMPLETED | COMPLETED | UNDERWAY | |
| APGEMS | COMPLETED | COMPLETED | UNDERWAY | | |
| NARAC | COMPLETED | NEARLY DONE | | | |
| RASCAL | COMPLETED | | | | |
| Puff-Plume | COMPLETED | | | | |
| RAMS/LPDM | COMPLETED | | | | |
| HYSPLIT | COMPLETED | | | | |

Leadership & Directory
Leadership
Directory
SharePoint
(request a password)
Send a SCAPA Listserv Message



emi sig
EMERGENCY MANAGEMENT ISSUES
SPECIAL INTEREST GROUP

Home About EMI SIG Contact Us SharePoint Sites Site Map
Search this site

Subcommittees & Working Groups Membership/Directory Annual Meeting Training & Products

emi sig Subcommittees & Working Groups SCAPA Modeling Toolbox

SCAPA CAM Toolbox
SCAPA SQA Guidance
Current Toolbox Models
Future Toolbox Models
Model Problems? / Questions?

CAPARS

Computer-assisted Protective Action Recommendation System (CAPARS)

Developer and contact
AlphaTRAC, Inc., 10885 Wetmore Dr. Suite 310
Westminster, CO 80021-2597, (303) 428-5670
8087 info@alphaTRAC.com
<http://www.alphaTRAC.com/TimeModelingSystem>

Overview
This Computer-assisted Protective Action Recommendation System (CAPARS) is an atmospheric dispersion modeling system used for real-time emergency response. It provides information on the accuracy and speed needed to support all levels of emergency management and response, including the urgent demands of first responders. CAPARS is designed to automate many of the tasks in the emergency consequence projection process. The automation reduces the potential for user input error, minimizes the time required to generate answers, and helps to reduce the stress imposed upon dose assessment personnel in the hectic environment of emergencies.

CAPARS is designed to meet the key decision support needs of emergency managers, incident commanders, field monitoring teams, and regulatory agencies. The system:

- Automates the emergency response consequence projection process
- Reduces user input error
- Minimizes the time required to obtain key decision-support estimates
- Automates meteorological data collection from multiple sites



Leadership & Directory
Leadership
Directory
SharePoint
(request a password)
Send a SCAPA Listserv Message

SCAPA News, Meetings, and Content Updates

The Source Term Working Group met a number of key milestones in 2010. It published a paper, *Applicability of the TRU Standard Statistical MAR Approach in Emergency Planning Hazards Assessments*, which is posted on the EMI SIG's FAQ website. The working group is wrapping up an assessment of the dose impacts of non-respirable sources and is also addressing other technical questions.



The 2011 EMI SIG Annual Meeting (which includes the annual SCAPA meeting), will be held **May 2-5, 2011, in Charleston, SC** at the **Charleston Marriott**. The hotel is conveniently located near historic downtown area with easy access to the Charleston airport. Situated along the picturesque Ashley River, the hotel is very close to the campus of the Citadel, and a short distance from downtown.

Rooms at the meeting site can be reserved **online** or by calling the Charleston Marriott at 800-968-3569 or 843-723-3000. Persons calling for reservations should identify themselves as EMI SIG members. The room rate is \$132 per night plus \$16.50 tax. The deadline to make hotel reservations is **April 7, 2011**; however, reservations should be made as soon as possible to ensure the government per diem group rate.



Following last year's formula, the SCAPA annual meeting will be held on Monday afternoon. SCAPA working groups will meet at various times on Tuesday and Wednesday during breaks in the EMI SIG Meeting schedule. On Tuesday evening, SCAPA will hold its traditional dinner – always an enjoyable culinary adventure!

May 2-5, 2011 Charleston Marriott • Charleston, South Carolina

Finding SCAPA on the WEB

- SCAPA: Global provider of “world class tape solutions” (www.scapa.com)
- South Carolina chapter of the Amer. Planning Assoc. (www.scapa.org)
- Scapa malt whisky (www.scapamalt.com)
- Our SCAPA is <http://orise.orau.gov/emi/scapa>
- Google “SCAPA + EMI”



Questions, Submissions, Suggestions...

- Contact:

Clifford Glantz, SCAPA Chair

Pacific Northwest National Laboratory

PO Box 999

902 Battelle Blvd.

Richland, WA 99352 USA

Tel: 509-375-2166

cliff.glantz@pnl.gov

