



Emergency Management Issues (EMI)
Subcommittee on Consequence Assessment
Protective Actions (SCAPA)

SCAPA PROGRAM TELECONFERENCE 07-01
WEDNESDAY, MARCH 22, 2007; 11:00 AM-12:00 M EDT

Teleconference 07-02 Participants

Maureen Alai
Denny Armstrong
Jeng Chang
Dorothy Cohen
Bob Cornish
Doug Craig
Wayne Davis
Michael Dillon
Cliff Glantz
Courtney Haggard
Jim Hardy

John Harris
Eva Hickey
Fred Horn
Jim Jamison
Po-Yung Lu
Dan Marsick
April Martin
Lori Martin
Carl Mazzola
John Nasstrom
Mike O'Keeffe

Rocky Petrocchi
Bill Possidente
Jim Powers
Frank Roberto
Judith Ryland
Tom Tuccinardi
Steve Vigeant
Gary Winner
Michele
Rocky Petrocchi

Teleconference Highlights

I. Roll Call

Carl Mazzola conducted a roll call and acknowledged that 31 individuals involved in the SCAPA program were present. The teleconference was called to order and Carl thanked Dorothy Cohen for setting up the teleconference call.

During the previous SCAPA conference call, 38 individuals participated.

II. Administrative Matters

Carl Mazzola and Cliff Glantz led the discussion on four SCAPA administrative matters.

Previous Teleconference Highlights: Carl Mazzola stated that the final highlights from the 1/19/07 SCAPA Program Teleconference 07-01 has been issued and Dorothy Cohen has posted it on the EMI SIG/SCAPA website.

SCAPA Action Item Status: Carl Mazzola briefly discussed the latest updated SCAPA Program Action Item (AI) listing. Progress on closure continues since the last teleconference. At the time of this teleconference, 23 action items still remain open. The progress on many of these AIs will be discussed during today's teleconference.



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Upcoming EMI SIG, DMCC, SCAPA, SCAPA Working Group, and NARAC User Group

Meetings: Cliff Glantz discussed the planning for the upcoming meetings in San Antonio, TX. Cliff indicated that the agenda for the one and a half day SCAPA Meeting has been developed and posted on the EMI SIG Meeting web page. Some of the committed speakers include:

(1) Fred Harper – SNL (source term characterization); (2) Reed Hodgkin – Alpha-TRAC (plume rise and building wake considerations); (3) Frank Roberto – INL (CDC speaker on a biosafety topic); (4) Steve Homann – LLNL (HOTSPOT Version 2.07); (5) Ed Tupin – EPA (Revised PAGs); (6) Dan Marsick – DOE/HSS (nanotechnology); (7) Chip Hultquist – ORISE (protective actions technologies); (8) Richard Thomas – Intercet (European Union ERPG Meeting highlights); and, (9) Debra Sparkman – DOE/Central Registry (HOTSPOT gap analysis).

Presentations from the five SCAPA working groups and their active projects will round out the meeting. Cliff encouraged all teleconference participants to contribute to the upcoming meetings.



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American Nuclear Society (ANS) Topical Meetings on Emergency Preparedness & Response (EP & R)

Carl Mazzola mentioned that the 10th EP & R meeting will take place at the Hotel Albuquerque in Old Town Albuquerque, NM, on March 9-12, 2008. A Call for Papers has been posted and will be forwarded to the SCAPA and DMCC list serves. Authors should submit a 500-word abstract via the ANS Community of Science (COS) electronic submission system by August 1, 2007. It should be noted that the COS system will be available to accept abstracts by April-May 2007. Abstracts will be reviewed by the technical program committee between August 2, 2007 and September 15, 2007. Authors will be notified of the acceptance or rejection of their abstracts by September 30, 2007. Full-length paper submissions are due by November 11, 2007.

The following topics are available for SCAPA members: (1) Guides, standards, and regulations; (2) Late breaking research/issues; (3) Hazardous materials and consequence analysis; (4) Consequence modeling at DOE/NNSA facilities; (5) International consequence assessment modeling; (6) Urban search and rescue applications; (7) Severe weather support at nuclear facilities; (8) Planning for continued operation / safe shutdown and surveillance of a hazardous material facility during a pandemic; (9) Software quality assurance requirements for EP&R; (10) Security issues and analysis; (11) Infrastructure and transportation; (12) Public and media relations; (13) Actual events and exercises - lessons learned; (14) Emergency response systems and equipment; (15) Human factors; (16) New and emerging technologies for EP&R.

III. SCAPA Working Group Activities

A. Chemical Exposures Working Group (CEWG) (Doug Craig, Chairman)

Doug Craig led the discussion and provided an update on the following five CEWG action items and activities.

AI 04-53: A special session regarding the effect of Software Quality Assurance (SQA) guidance on TEEL and Chemical Mixture Methodology (CMM) software has been submitted to the EMI SIG Steering Committee for the 2007 EMI SIG meeting, but was not accepted. However, this will be discussed at the SCAPA Meeting. After the SCAPA Meeting, the TEEL SQA effort and the updated TEEL methodology documentation will be tracked with separate action items.

ACTIVITY CAN BE CLOSED.



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AI 05-03: The TEEL derivation documentation and traceability development SQA effort continues. Code documentation work on the macros used to calculate TEEL values and line-by-line checks of the macros to ensure that they are consistent with the published TEEL methodology was conducted in 2005. The development of a draft SQA Plan has begun. **ACTIVITY PROCEEDING.**

AI 05-09: ATL will be issuing a final draft of the TEEL documentation and derivation report to Jim Fairobent on March 23, 2007. Publication is likely within a month. **ACTIVITY PROCEEDING.**

AI 05-10: TEELs Revision 22, which addresses 3,310 chemicals, is in its final stages of preparation. All quality assurance comments have been incorporated and corrections from LLNL have been made. Dan Marsick will be posting the Revision 22 TEELs on the DOE/HS web page. Cliff Glantz will be posting it on the SCAPA web page by mid-April 2007. Concurrent with the Revision 22 TEELs will be an update of the PAC data base to reflect AEGL and ERPG changes to specific chemicals. Tom Tuccinardi will work with Vern McDougall, ATL on having the changes incorporated into the searchable TEELs data base.

The TEELs Revision 23 effort will be different from the past efforts. Individuals that want to submit new chemicals for TEEL development or request corrections to existing TEELs need to download forms for TEEL changes from the SCAPA web site. New chemicals will not be solicited from DOE/NNSA sites since it is likely that most of the unscreened chemicals now have temporary chemical health indicators developed for them. The TEELs Revision 23 effort will concentrate on applying the more comprehensive quality assurance criteria to many of the chemicals that had TEELs developed in the early revisions to ensure their fidelity. **ACTIVITY PROCEEDING.**

AI 06-16: At an earlier teleconference, Mike O’Keeffe requested that columns for NFPA codes, dispersibility, vapor pressure at 25 degrees Centigrade, which are screening criteria, be included in the TEELs Revision 22 publication to assist the NNSA/DOE sites in their hazards screening work. In addition, Mike also requested that the TEEL values be presented in units of parts per million (ppm) in addition to milligrams per cubic meter. Although there was no commitment to do this with respect to the TEELs Revision 22 effort, ATL will be contacted to determine what it would take to include this information in the searchable TEELs data base. No further discussion at this teleconference. **ACTIVITY PROCEEDING.**



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B. Chemical Mixtures Working Group (Doug Craig, Chairman)

Rocky Petrocchi led the discussion and provided an update on the following seven CMWG action items and activities.

AI 04-23: At previous teleconferences, Rocky indicated that he is 50% complete on the development of HCNs for the approximately 300 TEEL Revision 20 new chemicals and Doug Craig has completed the QA work on the HCNs that have been completed. Work on the TEELs Revision 21 chemicals will commence after the Revision 20 work is completed. No completion date was stated for this project. It was suggested that all completed TEEL Revision 20 chemical HCNs be posted on the website. No further discussion at this teleconference. **ACTIVITY PROCEEDING.**

AI 04-44: The HCN methodology paper draft is targeted for peer review by SCAPA members. After all reviews are completed and comments resolved, the paper will be submitted to the *Journal of Applied Toxicology* for publication. No further discussion during this teleconference. **ACTIVITY PROCEEDING.**

AI 06-07: NA-41 requested SCAPA to address the Chemical Mixture Methodology (CMM) issue associated with the release of dissimilar materials from separate and multiple containers. The assumption that the materials are released simultaneously, and a plume is formed that represents a mixture of the materials is very conservative. A second part of the request is to define how the results of the CMM should best be used in emergency planning. Rocky Petrocchi developed a response to this and Doug concurred. It was sent to Jim Fairbent and NA-41 has performed its review and provided a revised form of the original Petrocchi/Craig Frequently Asked Question (FAQ) at a combined TAG and Support Contractors NA-41 meeting in late-October. Jim Jamison and Greg Martin have subsequently modified this per NA-41 direction, and it is in NA-41 review once again. The revised FAQ, when completed, will be placed on the SCAPA website. No further discussion during this teleconference. **ACTIVITY PROCEEDING.**

AI 06-09: At earlier teleconferences, Rocky discussed the work associated with the variability of the health hazard standards rating systems that are in use. Rocky reported that he examined the Sax, HMIS, SRS, and two systems from the United Nations Economic Council for Europe, and has determined that Sax and HMIS are significantly different from NFPA 704. This implies that using Sax or HMIS hazard ratings may screen some chemicals out of the DOE emergency preparedness system that should be screened in, thereby potentially degrading the screening



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and planning processes. The UN proposed Globally Harmonized System (GHS) is less aligned with NFPA 704, and it is expected that NFPA will revise their system when the GHS is implemented globally in a few years. These findings were presented at a combined TAG and Support Contractors NA-41 meeting in late-October. A FAQ of the findings and recommendations will be prepared by Rocky and sent for NA-41 and SCAPA review. In addition, at the meeting, NA-41 decided that it will not pursue the concept of a common hazard rating database and expects implementation of its DOE O 151.1C guidance on the subject. DOE/NNSA sites have the freedom to pursue other hazard rating systems, but would have the burden of proof to demonstrate their equivalency to the DOE order-mandated NFPA 704 health hazard standard rating system. No further discussion during this teleconference. **ACTIVITY PROCEEDING.**

AI 06-10: At an earlier teleconference, it was noted that the DOE/NNSA Safety Analysis (SA) community is not using the CMM in their 10 CFR 830-driven Documented Safety Analyses (DSAs), which is a non-conservative practice, and that this may risk a significant disconnect with Emergency Planning (EP). As EP analysts begin to implement the CMM, and find chemical mixture release scenarios with significant consequences, SA analysts will likely not. The lack of consistent regulatory drivers is the primary issue. Carl Mazzola brought this message to Dick Englehart, during a recent standards meeting in June 2006 and he was very receptive to learn more about the CMM. Dick is the DOE/EH representative to the Safety Analysis Working Group (SAWG) of the Energy Facility Contractor Group (EFCOG), which addresses such matters. Carl supported Dick in defining chemical design criteria for the DOE STD-1189 working group and incorporated the CMM into a 40-page White Paper for DOE/HS-31. This White Paper was very well received by the working group and ensures that the CMM will be included in DOE STD-1189, which will affect documented Safety Analyses in the future.

In addition, Wayne Davis noted that in the Authorization Basis (AB) draft March 2007 minutes, the following statement was contained: "Andrew Vincent provided status of draft standard...key issues that SRS has been waiting on...Appendix B contains chemical hazard analysis limits and evaluation approach. Chemical consequence analysis will strive to use mean values and will include chemical mixtures methodology in determining consequences based on SCAPA process included in EP requirements associated with DOE O 151.1C and its associated guides. Therefore, the EP-SA link has been successfully accomplished. **ACTIVITY CAN BE CLOSED.**



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AI 06-14: At earlier teleconferences, Rocky reported that the revision of the automated CMM Excel workbook to include the expanded list of acute HCNs was completed as part of the CMM revision. Doug and Rocky has performed an SQA review, and the revised file has been posted on the SCAPA website. No further discussion during this teleconference. **ACTIVITY PROCEEDING.**

AI 06-15: At earlier teleconferences, Rocky reported that after changes to the CMM HCN development procedure are implemented, he and Doug will prioritize the current 2,234 HCN-developed chemicals in TEELs Revision 19 that are affected by new acute HCNs and review them in data base references to determine if a chronic HCN was used as a surrogate for an acute effect. These are to be revised as necessary. At the same time, a 2004 task will be incorporated to review and revise older HCN 4.00 chemicals having similar issues. No further discussion at this teleconference. **ACTIVITY PROCEEDING.**

C. Consequence Assessment Modeling Working Group (Cliff Glantz, Chairman)

Cliff Glantz led the discussion and provided an update on the following seven CAMWG action items and activities.

AI 03-08: John Nasstrom is still working to create technical documentation for the NARAC system. No additional discussion at this teleconference. **ACTIVITY PROCEEDING.**

AI 04-39: At earlier teleconferences, there was discussion on the need to identify other issues that the CAMWG should address beyond the toolbox and the NARAC User's Advisory Group. The toolbox interface is a significant effort which is still dominating the work of the CAMWG. No additional discussion at this teleconference. CAMWG issue identification will be on the agenda for the upcoming CAMWG Meeting in San Antonio, TX. **ACTIVITY CAN BE CLOSED.**

AI 05-05: At earlier teleconferences, there was significant discussion on NARAC ingestion of the ARCON96 model. John Nasstrom plans to use this information and combine it with other work associated with a Department of Homeland Security (DHS) urban diffusion program that he is working with Jerry Allwine, PNNL. The modeling will consider initial plume spreading when intersecting the near-field buildings, with additional spreading as it encounters far-field buildings in an urban complex environment. No additional discussion at this teleconference. **ACTIVITY PROCEEDING.**

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AI 05-07: At earlier teleconferences, Wayne Davis discussed the progress on determining an appropriate Dose Conversion Factor to use in EPHAs and consequence assessment models. Wayne had indicated that changing from ICRP-30 DCFs at DOE/NNSA sites has received the concurrence of Joel Rabofsky, DOE/EH-52, Office of Worker Protection Policies and Programs. Accordingly, any DOE/NNSA site can change its protocol and use ICRP-68/72 DCFs, which Savannah River Site (SRS) has begun to do. Wayne has been in contact with representatives of the Federal Radiological Monitoring and Assessment Program (FRMAP), who indicated that they do not object to this decision. In parallel, FRMAP has recently petitioned EPA to use ICRP 60/70 methodology for long-term applications. Wayne is finishing up a White Paper and will provide a summary of the findings at the upcoming SCAPA Meeting. **ACTIVITY PROCEEDING.**

AI 06-01: Cliff Glantz stated that the HOTSPOT code is undergoing evaluation as the 8th model for inclusion in the DOE/EH Central registry Toolbox and several SCAPA members (i.e., Larry Campbell, Carl Mazzola, Wayne Davis, Cliff Glantz) have been working closely with Steve Homann, LLNL, the HOTSPOT developer. The team met with Steve at LLNL, November 15-17, 2006 to obtain information to prepare a gap analysis report. The report is in final draft and work on this effort is expected to be completed by April 2007. Work has been slowed down due to an eye ailment of the HOTSPOT developer. **ACTIVITY PROCEEDING.**

AI 06-02: At an earlier teleconference, it was noted that as part of the UF₆ effort, Michele Baker noted that NARAC does not use a straight-line Gaussian model for F-stability classes at very low wind speeds. Brenda Pobanz and Michelle Wolfgram are separately running simulations with NARAC to determine the differences between NARAC and other codes at stable low wind speed conditions. No further discussion at this meeting. **ACTIVITY PROCEEDING.**

AI 06-11: SCAPA was asked to assist SNL in benchmarking its Consequence Assessment Team (CAT) in response to a concern by the Sandia Site Office (SSO) about whether the CAT was correctly sized for the SNL emergency response program. A questionnaire, developed by SNL for the rest of the DOE/NNSA emergency management community, was sent out and 12 responses were received on a whole range of questions associated with team size, team roles and responsibilities, consequence models used, etc. Diana de la Rosa and Susan Vosburg will present the results of the benchmarking at the EMI SIG Meeting. **ACTIVITY PROCEEDING.**



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D. Biosafety Working Group (Frank Roberto, Chairman)

Frank Roberto led the discussion and provided an update on the following two BWG action items and activities.

AI 06-06: At an earlier teleconference, NA-41 requested BMG to address the transport and dispersion of biological agents/toxins released from DOE/NNSA biosafety facilities, which was left as an open subject in the Biosafety EMG. NA-41 indicated that there is a need to determine what models are available and appropriate for predictions, especially for laboratory-size source terms. In addition, NA-41 stated a need as to what are the limitations of the Gaussian models, and what other modeling tools are available or being developed. Lastly, because a level of severity will not likely be available for defining a Protective Action Criterion (PAC), there is a need to determine how the modeling results will be applied. Earlier, Rocky Petrocchi presented an interesting and promising proposal using 50% infective dose (ID_{50}) values in the Appendix C of the 2004 Army Blue Book as a starting point. Lower ID ranges could be used for conservatism, if necessary. The Centers for Disease Control (CDC) web page was also searched for additional (ID_{50}) values. At an earlier teleconference, Dina Metz volunteered to develop a one-page SCAPA project plan for submission to NA-41 to move forward with this project which may result in the development of infective dose values, or ranges, for various infectious agents.

The BWG is also looking at a range of dispersion models, including probabilistic codes. The group has noted that the best models out there in the literature are associated with biological warfare and may not be applicable to release of select agents beyond secondary containment. During that teleconference, Frank conceded that no realistic models are available. The BWG will work with the DOE initiative on nanotechnology to resolve this issue.

Frank has recently contacted Tony Policastro, ANL, regarding information on the ANL indoor air quality model, and has also contacted Don Hadley, PNNL on the PNNL CONTAM indoor air quality model. LBNL also has a mature indoor modeling capability and a model named COMIS, which is highly dependent on building configuration and HVAC design. During the January 30, 2007 BWG teleconference a Plan of Action was launched to establish a knowledge base on this subject with a full literature search. Mike Dillon added that he is familiar with CONTAM in Homeland Security Biosafety applications and indicated it should be used with caution.

ACTIVITY PROCEEDING.



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AI 06-17: At an earlier teleconference, it was determined that several SCAPA members are also involved in a new DOE initiative associated with nanotechnology and mentioned that several work areas of this new group would fit in well with the BWG since the body's immune system would treat the invasion of such materials as it would microorganisms. Dan Marsick is also involved this new group and this effort are being focused through the EFCOG Chemical Safety Technical Committee (CSTC), which met on March 15-17, 2007 at Forrestal. The BWG will be selecting some links to post on the BWG web page. Dan Marsick will be presenting on a nanotechnology topic at the EMI SIG meeting. Therefore, the link between the BWG and the DOE nanotechnology initiative is broadening. **ACTIVITY PROCEEDING.**

E. Source Term Working Group (Carl Mazzola, Acting Chairman)

Carl Mazzola led the discussion and provided an update on the following two STWG action items and activities.

AI 06-05: The Source Term Working Group (STWG) continues to be populated and future tasks are being defined. The first STWG teleconference took place on November 20, 2006 and 33 individuals participated. Teleconference highlights were developed and posted on the STWG web page. Cliff Glantz has developed a draft Charter for the STWG. **ACTIVITY PROCEEDING.**

AI 06-12: Cliff Glantz and Dorothy Cohen continue to populate the STWG web page. References to key source term documents have been posted, and a mechanism to ask the STWG source term questions has been set up on the website. **ACTIVITY PROCEEDING.**

IV. SCAPA Web Page Report

Cliff Glantz mentioned that additional nanotechnology links have been added to the SCAPA web page. In addition the CDC Office of Health and Safety 5th Edition BIMBL has been posted.

V. EPA AEGLs/EPA PAGs/DHS PALs Status

Po-Yung Lu reported on EPA/AEGL and DHS/PAL activities:

AEGLs

The overall status of AEGL Program as of December 2006:



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- Final AEGLs: 24 chemicals;
- Interim AEGLs: 104 chemicals;
- Proposed AEGLs: 63 chemicals; and,
- Draft/process/planning stages: 191 chemicals.

Volume 5 of the NAS AEGL publication is projected to be available in the May-June 2007 timeframe. This volume will include the following 6 chemicals (CASRN in parentheses): Chlorine dioxide (10049-04-4); Chlorine trifluoride (7790-91-2); Cyclohexylamine (108-91-8); Ethylenediamine (107-15-3); Hydrofluoroether-7100 (103702-07-6 and 103702-08-7); and, Tetranitromethane (509-14-8).

These new interim AEGLs will be provided to Doug Craig for the TEEL Revision 23 work.

PALs

At a previous teleconference it was indicated that ORNL is preparing for the next meeting which will be in Washington, DC from October 31, 2006 through November 3, 2006. After this meeting the PALs will be ready to be issued for external review once it is determined how to best release them. Due to the CR, there has been little progress since the last teleconference. No further discussion at this teleconference.

VI. AIHA ERPGs Status

Richard Thomas reported on the Emergency Response Planning (ERP) Committee activities.

The ERP Committee is responding to a special request to develop ERPG values for formic acid and uranium trioxide. These will be included in the 2008 Handbook. This work has been hampered by a lack of literature searches as this function has been outsourced to a contractor who is not performing at the level necessary to support the program effectively.

VII. IND/RDD/PAG Status

Gustavo Vazquez reported on the two initiatives regarding PAGs. Listed below is the status of these initiatives:

IND and RDD PAGs



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The PAGs for Improvised Nuclear Devices (INDs) and Radiological Dispersal Devices (RDDs) were issued by DHS in a Federal Register notice on January 3, 2006 (FR 71 No. 1), as draft guidance for interim use and the comment period had been extended to April 14, 2006. Andy Wallo and Steve Domotor of DOE/HS-20 are on the working group. DHS is working to resolve the comments. No additional discussion during this teleconference.

EPA PAGs

The new EPA PAGs were released for interagency review. This review period ended November 1, 2006. As previously indicated, EPA has selected ICRP 68/72 as a basis for the new PAG values.

The EPA PAG Manual, which is being revised, will largely incorporate the DHS RDD/IND PAGs. The next version of the PAG Manual should be available for FRPCC review, estimated to take at least 4 weeks, in March, 2007. After that review, the manual will be issued for public comment in the Federal Register. The PAGs website, according to EPA, will be updated to include more information about the revision process in January 2007. In addition, a couple of workshops are being developed on the PAGs for the spring 2007 timeframe. No additional discussion at this teleconference.

VIII. Round Robin

1. **Mike O’Keeffe (NTS):** NTS is preparing for an upcoming HS-63 appraisal this week. Mike also mentioned that additional information is needed on simple asphyxiants in the TEEL data base. Rocky Petrocchi indicated that toxic properties take precedence over asphyxiant properties.
2. **Wayne Davis (WSMS):** Discussed his work associated with HOTSPOT determination as a Central Registry toolbox model. Wayne has to establish a format for Steve Homann for reading in 5-years of historical meteorological data. Brad Schader, INL, has already given some advice, but Wayne is seeking other input. CD-144 format is one possibility, but that is associated only with National Weather Service data. Carl Mazzola suggested using the same format that MACCS2 presently uses.



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- 3. John Nasstrom (LLNL NARAC):** Indicated NARAC will not be supporting the upcoming EMI SIG Meetings with a NARAC User Group Meeting. Instead, the next NARAC User Group meeting will be at LLNL on August 17, 2007 following a two-day training course on NARAC applications. Cliff Glantz mentioned that John should look into conducting this working group meeting using the Microsoft Live Meeting capabilities. John will look into this possibility.

IX. Next SCAPA Conference Call

Carl Mazzola tentatively scheduled the 1st SCAPA Conference call of 2007 for **Thursday, July 12, 2007 at 11:00 a.m. EDT.**

X. Adjournment

The teleconference was adjourned at **11:59 a.m. EDT.** Carl thanked everyone for their time and their contributions.

XI. SCAPA Program Action Item (AI) Status

Based on the information exchange from this teleconference, three AIs were closed, and no new AIs were opened, since the previous teleconference, making a total of 20 AIs.

The color-coding system used in the teleconference highlights are as follows:

- Existing AIs that are not closed are colored green;
- New AIs are colored yellow; and,
- AIs to be closed are colored blue.

Carl Mazzola will update the SCAPA action item list based on the information exchange from this conference call.