

### **THE SQUG BBS -- YOUR INFORMATION SUPERHIGHWAY**

By the time you read this, those of you who are not already participants should have an application in hand to join *The SQUG BBS*, our electronic bulletin board system. *The SQUG BBS* is now available to anyone who has attended any one of the SQUG training courses and who is currently involved in SQUG-related efforts for a member utility, either as an employee or a contractor of that utility. If you haven't received your application, just pick up the phone and call Richard Rasanen at (703) 519-0200 and one will be mailed or faxed your way.



Previous issues of this newsletter have touted the benefits of using *The SQUG BBS*:

- C E-mail to other seismic engineers,
- C Libraries of SQUG memos and GIP word processing files,
- C Forums full of helpful questions and answers, and
- C Around-the-clock access.

Several member utilities have commented that the forums were very helpful in quickly answering questions which came up during SSEL development, relay review and seismic walkdowns. In fact, the forums should be reviewed *before* attempting to contact the SQUG Subject Matter Experts.

What does it take to join the BBS? First of all, there is no membership fee--all you pay for is the phone call. If you have a PC (IBM, Mac, whatever) with a modem, you're set. If not, maybe one of your neighbors has a modem and you can borrow their computer. If you need to buy a modem, they're pretty inexpensive these days--a 2400 baud modem at about \$100 will do; however, a faster (9600 or 14400 baud) modem is

recommended and will provide savings in phone charges. You'll also need a good communications package that will cost \$100 or less. (A communications package is the software that let's you talk to that modem -- Procomm Plus is the author's favorite.)

*The SQUG BBS* itself is quite easy to use. Menus guide the way, and you'll receive a user's manual and quick reference guide in the mail to help you along.

New and old users should watch for a soon-to-be-released quick reference card with shortcuts to the most commonly used features of *The SQUG BBS*. Do you have any favorite tips or shortcuts? Share them with us in the /Q&A forum on the BBS, or give the BBS System Operator, Mike Smith, a call at (703) 519-0200.

### **FOLLOW-UP WORKSHOP QUESTIONS AND ANSWERS POSTED TO THE SQUG BBS**

Question: What's the next best thing to attending one of the SQUG training course follow-up workshops?

Answer: Dialing up *The SQUG BBS*. Why? Because the questions and answers from previous sessions of the follow-up workshops have been sorted and posted to the appropriate Forum on *The SQUG BBS*. There are currently *187 questions and answers* posted.

Your SQUG representative has an index of the BBS Forums and a complete listing of the workshop questions in the meeting report from the December full SQUG meeting.

### **WALKDOWN PREPARATION PAYS!**

Several members have reported that time spent on pre-walkdown preparations and planning pays dividends in saving in-plant walkdown time. The type of pre-walkdown preparations that have proven cost-effective include the following:



- C Performing quick, informal preliminary walkdowns and reviews with Operations Personnel to locate all SSEL equipment, obtain equipment identification information, and identify any access constraints.
- C Pre-entering equipment identification and location on SEWS and SVDS forms.
- C Developing a walkdown plan well in advance of the walkdowns, addressing the areas of the plant to be visited and the sequence of walkdowns to ensure that plant interface concerns are fully addressed, including:
  - radiation protection,
  - equipment and space access,
  - system availability, and
  - plant support needs.
- C Preparing plant-specific procedures for data gathering, walkdown, and disposition of findings. These procedures can include:
  1. the type of documentation which is desired for each equipment class to be reviewed,
  2. the types of "hands-on" support needed from the plant for each equipment type (e.g., opening of cabinets, performing bolt tightness tests, etc.), and
  3. a pre-approved process for dispositioning the more common types of outliers which are likely to be found during the walkdowns.
- C Developing data packages for SSEL equipment--at a minimum, for a sufficient number of components to support the Seismic Review Teams for a week or two of in-plant walkdowns.

Consideration of these pre-walkdown planning steps will help avoid oversights and plant interface problems once the official plant walkdowns start.

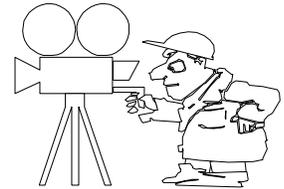
### **SQUG WALKDOWN COURSE NOW AVAILABLE ON VIDEO**

The videotape version of the SQUG Walkdown Training Course is complete and has been sent to your SQUG representative. The video course was

"field tested" in one of the SQUG-sponsored Walkdown courses and received high marks from the trainees.

The package that was forwarded to each SQUG member is essentially a self-contained course which each utility can administer itself. The package includes VHS videotapes, copymasters of the pre-test, workbook and answers to the exercises, and an Administrator's Manual.

Several multi-site utilities have ordered additional sets of the video training materials to distribute to each site. Additional sets of training materials can be ordered from:



Dave Freed  
 SQUG Training  
 320 King Street  
 Alexandria, VA 22314  
 Phone (703) 519-0200  
 Fax (703) 519-0224

Keep in mind that SQUG can provide assistance in giving the course. Call Neil Smith at (708) 663-7420 or Bob Kassawara at (415) 855-2775 for details. Note that in the 1994 SQUG Calendar of Events (see the next page of this newsletter) a *Train-the-Trainer Seminar* will be held in the Washington, DC area on April 18, 1994. This is an optional seminar that will help trainers administer the course. The seminar will cover pre-course preparation, conduct of videotape lectures, how to run the case studies, and planning and conducting a site visit. Watch for a Registration Form in your mailbox soon.

### **GIP REVISION 3 ON THE WAY**

A small but significant revision to the GIP is currently being prepared to incorporate the results of EPRI pullout strength tests of expansion anchor bolts.

In December, SQUG informed members that the capacity reduction factors (also known as knock down factors, or KDFs) for WEJ-IT Wedge and 3/8-inch diameter Hilti Sleeve anchors need to be lowered (for more information see SQUG's 12/20/93 memo, available in the SQUGMEMO library on *The SQUG BBS*). Of course the same testing also found that capacity reduction factors could be raised for many other anchors.

As a result, when the report summarizing the testing is finalized, Section C.2.2 and Table C.2.2 of Appendix C of the GIP will be revised. Since only a few pages are involved, this revision will consist of only those pages to replace superseded pages in each utility's controlled copy of GIP Revision 2, corrected 2/14/92. In parallel, Revision 3A will be issued to update the corresponding pages in Revision 2A of the GIP. These revisions will be sent only to the holder of record of each SQUG member utility's controlled copy of the GIP.

We remind you that each utility has been issued one controlled copy of Revision 2, corrected 2/14/92 (which must be used with the NRC SSER No. 2 comments) and one controlled copy of Revision 2A (editorially incorporating the NRC's SSER comments). As with any controlled document, information copies for personal use can become obsolete without warning. *Please*, ensure that your activities are consistent with the current controlled copies of the GIP at your utility.

#### **EXPANSION ANCHOR TASK GROUP**

A SQUG survey of member utilities in December found sufficient interest to form a task group to address problems related to the reduced capacity of certain expansion anchor bolts. Already, some utilities have suggested a variety of potential solutions.

The Expansion Anchor Task Group will act under the SQUG/EPRI charter, but will operate independently under separate funding. The task group will set its own structure, schedule, and dues, and will direct the actions of any supporting contractors. As with SQUG, EPRI will provide technical and administrative management of the group.



An organizational and information exchange meeting has been scheduled for **Thursday, March 17, 1994** (St. Patrick's Day!) at the **EPRI NDE Center in Charlotte, NC**. SQUG member representatives should have already received an announcement and registration form. The meeting is open to anyone from a SQUG member utility.

If you can attend this meeting, please be prepared to discuss the potential impact this issue has on your plant(s), and any thoughts you have on potential solutions. In fact, a brief, informal presentation on your utility's experience and approach to resolving this issue would be appreciated.

For more details on the Expansion Anchor Task Group, phone Bob Kassawara at (415) 855-2775.

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### **1994 SQUG Calendar of Events**

#### A-46 Walkdown Course (Videotape)

2/28 - 3/4 Denver, CO

#### Expansion Anchor Task Group

##### Organizational Meeting

3/17 Charlotte, NC

#### Follow-up Workshops

3/28 (SSEL/Relay) Atlanta, GA  
 3/29 (Walkdown/IPEEE) Atlanta, GA  
 8/15 (SSEL/Relay) Chicago, IL  
 8/16 (Walkdown/IPEEE) Chicago, IL

#### A-46 Walkdown Video Course

"Train the Trainer" Seminar  
 4/18 Washington, DC

#### Seismic IPE Add-On Course

4/25 - 4/27 Denver, CO

#### New and Replacement Equipment Course

5/2 - 5/4 Charlotte, NC  
 9/19 - 9/21 San Antonio, TX

#### Full SQUG Meetings

6/27 - 6/28 Boston, MA  
 12/12 - 12/13 Orlando, FL

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SEISMIC QUALIFICATION UTILITY GROUP (SQUG)

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**UTILITY STEERING GROUP:**

Neil Smith, Chairman (Commonwealth Edison)  
James Thomas (Duke Power)  
William Metevia (Yankee Atomic)  
Dennis Ostrom (Southern California Edison)  
Donald Moore (Southern Company Services)

**TECHNICAL MANAGEMENT:**

EPRI Program Manager: Robert Kassawara (EPRI)  
Technical Coordinator: William Schmidt (MPR)

*The Seismic Qualification Utility Group (SQUG) was formed in 1982 to develop a technically sound and cost-effective alternative for verifying the seismic adequacy of equipment installed in older nuclear power plants. This newsletter reports on the generic activities of the SQUG program as well as the results and lessons learned from utility implementation of the SQUG methodology.*

*Comments, questions, suggestions, and contribution of articles may be forwarded to:*

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