Meeting Agenda for
TAC Repair and Rehabilitation Committee
Tuesday, April 1, 2008, 9:00 AM - 12:00 PM
Century Suite 602
Hyatt Regency, Century Plaza
2025 Avenue of the Stars, Los Angeles, California

Members
James McDonald (Chair)
Miroslav Vejvoda (Secretary, NV)    Lawrence Kahn
Paul Carter                 Antonio Nanni
Peter Emmons               Kelly Page
Paul Gaudette             Jay Paul
Fred Goodwin             Michael Sprinkel

1.0 Welcome

2.0 Introduction (McDonald)

3.0 Approval of the Meeting Minutes from Puerto Rico, October 16, 2007

ACTION: Does TRRC approve the minutes from Puerto Rico?

4.0 Approval of Agenda

ACTION: Does TRRC have additional items for the Agenda of this meeting?

5.0 Repair Code (Kahn)

In Puerto Rico, TAC met with Chair Kahn and reviewed the committee responses to TAC comments on the outline. TAC would like ACI 562 to meet with representatives of the feeder committees to ensure good coordination of material to be included in the repair code. A Repair Coordination Meeting is scheduled for Sunday, March 30, 2008, at 8:30 am.

ACTION: Is Chair Kahn is asked to report.
6.0 Repair Specification (Paul)

The committee 563 held its first meeting at the Puerto Rico convention. The committee currently consists of 14 voting members and 1 associate member.

ACTION: ACI 563 Secretary Paul is asked to report.

7.0 Repair/Protection Council (Page)

In Puerto Rico, Kelly Page updated TRRC on Council discussions at the September 2007 Strategic Development Council (SDC) meeting. Topics included procedures for selection of research projects and avenues for raising necessary funds.

ACTION: Is there anything new to report?

8.0 SDC Meetings (Emmons)

ACTION: Is there anything new to report?

9.0 Implementation of the TRRC Action Plan (McDonald)

TRRC members previously reviewed designated committees’ documents in detail to determine what repair-related areas of those documents need to be addressed according to the TRRC action plan.

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Sprinkel 325, 345, 503, 504, 548, 551

In Puerto Rico, a discussion evolved on how to present the recommendations to the committees. A more formal approach may be necessary to ensure the desired results.

Chair McDonald sent a letter to selected committees (highlighted above) introducing the role of TRRC and the main goals (Appendix A). TRRC members should contact their assigned committees and offer to discuss in detail the TRRC recommendations. The committees should then put the necessary action on their agendas and start implementing the recommendations.

ACTION: All are asked to report on the activities to date.

10.0 ISO/TC/SC7 (McDonald)

ACTION: Is there anything new to report?

11.0 Future Plans

The future direction for TRRC in ACI repair related activities was discussed extensively in Puerto Rico.

There was a strong consensus that TRRC has a role to play in the coordination of ACI repair activities and that a more proactive approach is needed. All chairs of committees addressing repair should be in agreement on the overall and specific direction. The goals of Vision 2020 are not sufficiently known. A list of items was produced that should be looked at by TRRC, updated, and prioritized:

- Support to ACI 562
- ACI 515: A Guide to the Use of Protective and Decorative Systems for Concrete
- Inspection guide
- TRRC introduction to committees (action taken before this meeting)
- Committee oversight (task management)
- MCP document (gap analysis)
- ACI 364 TechNotes
- Usage numbers of documents (5-year trend)
- Repair Manual
- Fix Concrete, seminars, etc.
- Session attendance feedback
- Competition (European code, etc.)
• Research

Staff is collecting document usage numbers and session attendance and will present available data at the Los Angeles meeting.

ACTION: Is any action required?

12.0 Next TRRC Meeting

13.0 Adjourn
MEMORANDUM

TO: ACI Committees 210, 222, 224, 228, 302, 303, 311, 330, 349, 351, 355, 357, 362, 364, 371, 437, 440, 503, 506, 533, 543, 546, 548, and 551

FROM: Jim McDonald, Chair TRRC

DATE: February 29, 2008

SUBJECT: TAC Repair and Rehabilitation Committee - Coordination with Committees

Most ACI committee documents are written primarily for new concrete construction with minimal, if any, discussion of the unique requirements for repair and rehabilitation of existing concrete. As the concrete infrastructure ages, more emphasis is being placed on repair-related issues. Consequently, the Technical Activities Committee (TAC) established a subcommittee, Repair and Rehabilitation (TRRC), to expand and enhance ACI’s role in the concrete repair industry.

Recently, TRRC conducted a detailed review of documents in the Manual of Concrete Practice to determine the extent of repair-related information currently available in ACI committee reports, identify core documents that are directly related to evaluation and repair of concrete, and determine areas where additional efforts are required to expand current information on repair of existing structures. Of the 83 documents reviewed, approximately 45% contained some reference to evaluation, repair, strengthening, maintenance, etc; however, the content of only 10% of the documents was primarily related to repair activities. Examples of these core documents include 222R, 222.3R, 224.1R, 228.2R, 364.1R, 437R, 440.2R, 546R, and 546.2R.

In general, committees should restrict discussion of evaluation, repair, and maintenance to considerations that are unique to the type of concrete or structures addressed in a given document and provide references to appropriate core documents or other publications for additional details. For example, ACI 302.1R includes appropriate references to ACI 224 documents for information on control, causes, evaluation, and repair of cracks in concrete structures; however, the committee failed to include references to ACI 546 documents for information on materials and methods for repair of other identified deficiencies including scaling, popouts, delamination, and spalling. In another example, ACI 533R contains a section (6.6-Patching and repair) that is covered in more detail in the Concrete Repair Guide (ACI 546R). This appears to be an unnecessary duplication of more comprehensive repair information in other ACI documents and TRRC suggests replacement of this section with references to appropriate repair documents such as 546R-04.
All ACI committees are encouraged to report information about existing structures within their field of expertise. A number of ACI documents include information on both new construction and repair of existing structures. Committees that have such documents should consider the potential for separation of information into two documents that address new construction and existing structures. For example, ACI 506R is the core document for shotcrete and contains extensive information on applications in both new construction and repair. TRRC suggests that separate documents with information pertinent to the two types of applications would better serve the concrete industry. Duplication of shotcrete information in ACI 506 and 546 documents should be avoided. ACI 304R and 304.1R (Chapter 7) both provide information on preplaced-aggregate concrete. TRRC suggests that 304R be maintained as the core document and that 304.1R be separated into two documents that address new construction and repair applications. Duplication of preplaced-aggregate information in ACI 304 and 546 documents should be avoided.

Outdated repair-related information should be removed from existing documents. For example, information in ACI 357R-84 (Chapter 7-Inspection and repair) is completely outdated and should be replaced with references to current repair documents such as ACI 546R.

Areas where additional documents are required to expand and enhance current information on repair of existing structures were identified during this review. The most obvious needs were code requirements and specifications for evaluation, repair, and rehabilitation of existing concrete buildings. Consequently, two new ACI committees were recently established to address these needs. TRRC encourages all committees to review their goals and include any efforts that will enhance the image of ACI in the concrete repair industry. TRRC members welcome the opportunity to meet with committees to provide additional information on repair-related activities within ACI.

Jim McDonald
TRRC Chair