REPORT

of the

Meeting of the

API SUBCOMMITTEE ON FIELD OPERATING EQUIPMENT
(API C1/SC11)

AMERICAN PETROLEUM INSTITUTE

Denver, Colorado
June 26, 2002

Sid Thomas, Chair
Tom Van Akkeren, Secretary

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American Petroleum Institute

MEETING OF THE SUBCOMMITTEE ON FIELD OPERATING EQUIPMENT

8 AM – 5:00 PM, Wednesday, June 26, 2002

A. Call to Order: The meeting was called to order by Chairman Thomas at 8:00 AM. The following individuals were in attendance during all or parts of the meeting: Sid Thomas, Chairman (Wilson Supply), Tim Sampson (API), Steve Wade (ExxonMobil), Leon Cox (Norris Rods), John Franzwa (BP), John Yonker (Halliburton), Benny Williams (Harbison-Fischer), and Harry Byars (Consultant).

B. Reports by Task Groups

1. TASK GROUP ON ROD PUMPING (API C1/SC11/TG1)

Summary of Activities: This TG is charged with updating and writing Specifications and Recommended Practices for rod pumping systems and related equipment.

A. OLD BUSINESS

Circumferential Displacement

1.6.1 A contract for a CD testing program was executed with Anderson & Associates, Houston, Texas. At the 1997 Conference, Sid Thomas anticipated completion of all work by late 1997, and forwarding to the WG on 11BR for inclusion in that document. At the 1998 Conference, Sid Thomas reported that 4 of the 5 planned tests were completed before PRAC funding was depleted. It was MSP to accept the TG recommendation to incorporate the circumferential displacement recommendations into 11 BR, and keep this item on the agenda until RP 11BR is published. Sid Thomas and Norm Hein will forward comments to the 11BR WG.

Sid Thomas was granted a one year extension from Committee 1 to complete RP 11BR to incorporate the test data. Norm Hein and Sid Thomas will attempt to get funding from ALEOC for the additional testing. At the 2000 Conference, Sid Thomas reported the phase 6 testing was finished but funds weren't available to verify results with additional testing. At the winter work group meeting, it was recommended the results be documented by Sid Thomas and Norm Hein who will forward the material to Brock Watson, WG Chair, to be incorporated as an appendix to 11BR. It was MSP to incorporate the CD test results as an appendix to RP 11BR, submit the document to SC 11 for letter ballot and to disband the WG and keep this item on the agenda until the document is published. At the 2001 meeting, it was reported the WG is completing their effort and RP 11BR will be balloted when the TG completes its work. Approved for publication pending comment resolution. Awaiting publication or reballot.
1.45 Slim Hole Coupling Derating Factors

A group was formed in 1991 to investigate need and, if needed, develop derating factors for Slim Hole Couplings and recommend appropriate changes to documents. This work was tabled for several years pending completion of 11B and 11AX revision work. At the 1996 Conference, WG Chair Sid Thomas reported the basic numbers were complete, and awaited completion of the testing in 1.6.1. The test results will prove the validity of the mathematical calculations. At the 1997 Conference, Sid Thomas anticipated completion by late 1997, and forwarding to the WG on 11BR for inclusion in that document. At the 1998 Conference, it was MSP to accept the TG recommendation to incorporate the slim hole derating factors from the Petroleum Engineering Handbook into RP 11BR.

At the 1999 Conference is was MSP to accept the TG recommendation to incorporate editorial revisions of the slim hole coupling ratings into 11BR and keep this item on the agenda until 11BR is published. At the 2000 Conference, it was noted that information from the Petroleum Engineering Handbook will be incorporated into the current revision to RP 11BR. At the 2001 meeting, it was reported the WG is completing their effort and RP 11BR will be balloted when the TG completes its work. Approved for publication pending comment resolution. Awaiting publication or reballot.

1.48 Sucker Rod Guides

In 1995, Mr. Hein reported he had divided the group to look at three elements: materials, testing and usage. In 1996, Mr. Hein reported he had asked Committee 1 for prioritization. His anticipated results would be included in RP 11BR. Committee 1 approved continuation of this work in coordination with related work items. No progress was reported in 1997, and Sid Thomas agreed to talk to Norm Hein about future direction of this WG. It was agreed that the WG on 11BR should not delay their work and voting on 11BR to incorporate material from this WG. At the 1998 Conference, it was agreed this work would be deferred until work is completed in other WGs. Norm Hein will lead a WG meeting during the winter work session.

At the 1999 Conference, the WG was reactivated with the following members: Norm Hein, Leon Cox, Benny Williams and Mark Mahoney. The first meeting of the WG will be held in conjunction with the winter work group. At the 2000 Conference, it was reported the WG met during the winter work group meetings and added a representative from R&M to the WG. At the 2001 meeting, it was reported the WG is continuing their work and the document should be ready for balloting in two years.

At the 2002 Conference, Benny Williams (Task Group Chairman) reported that there has been no action. The TG chairman will formally contact the workgroup chairman; if no action is forthcoming, the work item will be dropped from future agendas.
1.53 Revision of RP 11BR

1.53.1 At the 1996 Conference, former WG Chair, Howard Anderson reported that draft revisions, including the NACE section, had been circulated to WG members. He requested comments on the Rod Selection and Transportation and Handling sections. He noted data from Agenda Items 1.6.1 and 1.45.1 would be discussed at the winter work group meeting for possible inclusion, and used rod inspection guidelines will be incorporated when finalized. RP 11BR, last revised by a 1991 Supplement, is past due for revision, reaffirmation or withdrawal under API's five-year policy. At the 1997 Conference, it was reported that Howard Anderson had retired and Brock Watson would chair the WG. It was agreed the WG would meet at the 1998 winter work session to incorporate Section 9 revisions from Tom Van Akkeren, and material from Items 1.6.1 and 1.45.1, then forward the revised document for SC11 special balloting.

At the 1998 Conference, it was MSP to accept the TG recommendation to have the WG incorporate the circumferential displacement revisions, the slim hole coupling factors and others revisions into the document at a planned October meeting and then send the document out for letter ballot.

At the 1999 Conference, it was MSP to accept the TG recommendation to keep this item on the agenda until RP 11BR is published. At the 2000 Conference, it was reported the outstanding items that have delayed balloting are being addressed. It was MSP to authorize the SC Chair to send the revised RP out for letter ballot after it is received. At the 2001 meeting, it was reported the WG is completing their effort and RP 11BR will be balloted when the TG completes its work. Same as 1.6.1.

Approved for publication pending comment resolution. At the 2002 Conference, Benny Williams recommended that 11BR be held from issuance until several technical issues were resolved. The recommendation was MSP by SC11.

1.55 ISO Standard for Progressive Cavity Pumps

1.55.1 In 1995, it was noted an ISO WG had started drafting a PCP standard, and US representatives were solicited. At the 1996 Conference, Mr. Franzwa reported he was still seeking a US representative. Following the 1996 Conference, Mr. James Revard, Tarby Inc., agreed to serve on the ISO project. API staff is represented on the parent ISO WG -- ISO/TC 67/SC 4/WG 4. At the 1997 Conference, it was reported the PCP project team expected to have a Committee Draft (CD) ready by the end of 1997 for TC 67/SC 4 comments. The 1998 agenda reported the CD had been delayed, but was expected by late summer or fall of 1998. At the 1998 Conference, the TG Chair agreed to contact the ISO liaison for an update on progress for the next conference.

At the 1999 Conference it was noted that copies of the ISO WD 15136 for PCP’s had been sent out to SC11 members for comments. The document (part 1) is scheduled to go to FDIS before 1-2001. At the 2000 Conference, it was reported the document was on schedule to go out for Final Draft International Standard (FDIS) balloting by the end of 2000. At the 2001 meeting the API staff was asked to check on the status of the ISO document.
At the 2002 Conference, John Yonker reported that 15136 has been published by ISO on July 15, 2001. MSP to letter ballot 15136 as API Spec 11D2, 1st Edition. **BALLOT**

**ITEM**

1.58  Revision of Spec 11AX

1.58.1 At the 1997 Conference, under discussion of Item review of editorial errata for Spec 11AX identified the need for technical revisions. SC11 approved a TG recommendation to develop a NWI to for a WG to revise Spec 11AX. The NWI was subsequently approved by C1. At the 1998 Conference, it was reported that the WG had met during the winter work session and during this conference, and planned to meet again on October 19, 1998 in Midland, TX.

At the 1999 Conference, it was reported that the WG met in October and January. It was MSP to accept the TG recommendation to send the document out for ballot and disband the WG and drop from the agenda after Spec 11AX is published. At the 2000 Conference, it was reported that negative ballots have been resolved and the document is being edited for publishing. At the 2001 meeting, it was reported Spec 11AX editing is complete and the document will have May 2001 date of publishing (December 2001 Effective Date).

Note: *Spec 11AX was published June 2001 effective December 2001. Drop from report.*

At the 2002 Conference, Benny Williams reported that 11AX was published June 2001 and an errata he been issued correcting errors and omissions.

1.59  Alignment of API Spec 11B and ISO 10428

1.59.1 At the 1997 conference, under new business, SC11 noted need to pursue establishing an ISO WG to update the ISO sucker rod specification to reflect industry changes. SC11 noted API Spec 11B has had two revisions since the ISO document was last updated, and an effort should be made to maintain alignment. Status: ISO 10428, First Edition, 1993, is basically the 24th Edition of Spec 11B adopted in a now discontinued ISO fast track process. Updating of ISO 10328 was assigned to ISO/TC 67/SC 4/WG 4. The 1998 agenda noted WG4 was ready to restart the ISO project, and had invited the US to name a project leader. The WG4 Convenor had been advised that Brock Watson had offered to lead a US based effort. At the 1998 Conference, it was agreed the SC Chair would request API staff revise Spec 11B to ISO format. WG Chair, Brock Watson, will forward the revised document to SC4 for balloting.

(Note: After the 1998 conference, API learned that Germany, which had named an earlier project leader who resigned, may want to name a new project leader. API will await WG4 decision and proceed accordingly in consultation with the SC11 Chair.)

At the 1999 Conference, the API staff agreed to get a clarification on the status of the document. US representatives are working to move this effort forward in ISO. At the 2000 Conference, John Yonker, member ISO/TC67/SC4, requested help to reformat Spec 11B into ISO format for development as ISO 10428. Leon Cox, Benny Williams, Mark Mahoney, James Fraysur, Sid Thomas and John Franzwa will work on this. At the
2001 meeting, Leon Cox reported on progress in putting Spec 11B in ISO format. He requested assistance to assure accuracy of the data to be included in the document. He will provide electronic or paper copies of the draft for this purpose. There was discussion about incorporating RP 11BR into the ISO document but the consensus was that combining the documents at this time would make the task too burdensome.

At the 2002 Conference, Leon Cox provided copies of draft 6 of 11B/ISO 10428. The working draft completion is targeted for year end for review at the ISO workgroup meeting in February 2003. It was pointed out that including 11BR with 11B in an ISO document would not be an appropriate fit.

B. New Business: At the 2002 Conference, it was reported that a number of technical issues have been identified that need addressing in 11AX: surface finish, marking, etc. The task group will consider moving 11AX forward as an ISO document after completion of 11B.

2. TASK GROUP ON GAS LIFT

A. Old Business

2.3.4 Proposed RP 11V8

In 1994, it was reported a draft was approximately 85% complete. In 1995, the chairman reported progress had slowed, and Committee 1 deferred work on this item. In 1996, the chairman reported the work awaited Committee 1 authorization, and could be completed within one calendar year. Committee 1 subsequently approved reactivation of this work. At the 1997 Conference, Mr. Bennett reported the draft document had been completed and the TG would review the WG recommendations at the August 27, 1997 meeting.

At the 1998 Conference, it was reported that the TG is still reviewing the document. It was MSP that the SC Chair contact the TG Chair to determine if the document will be ready for balloting before the next conference. If so, it will be sent to SC11 for letter ballot, if appropriate. If the document is not ready, the TG Chair is requested to provide a timetable for completion.

At the 1999 Conference it was reported that 5 of the 8 sections are completed and figures were being developed for the last three. It was also reported that the document would be sent out for TG review in August 1999 and would be ready for SC balloting in 2000.

The work group was not available to report at the 2000 Conference; API staff and the SC11 chairman will establish contact with Wayne Mabry, Schlumberger, to determine SC11’s next action, and report back to the subcommittee. At the 2001 meeting it was reported the WG is completing the final draft and anticipates the document will be ready for balloting at the next Standardization Conference.
At the 2002 Conference it was reported that 11V8 is now out for letter ballot.

2.3.5 Revision of Spec 11V1

A revised edition, including gas lift mandrels for the first time, was issued in 1994 (effective February 1, 1995), and a WG started work on specifications for gas lift latches and associated wireline equipment to be added to this document. In 1995, it was reported the WG was surveying manufacturers to determine feasibility of including critical latch dimensions and tolerances. In 1996, Jim Bennett reported the WG had completed a dimensional specification for BK-2 latch (1"), and was gathering manufacturer data on the RK style latch (1-1/2") for consolidation. Preparation of these specifications was expected to take 2-3 years. At the 1997 Conference, Mr. Bennett reported there had been no progress on this work.

The June 1998 SC11 agenda noted that, subsequent to the 1997 Conference, the API work was tabled pending completion of ISO 14310-7 to allow review for possible adoption as an API/ANSI/ISO standard to replace Spec 11V1. This action was taken in consultation with the C1 and SC11 Chairs, under API S1 policy of coordinating related API and ISO efforts to avoid duplication. The ISO project leader, Wayne Mabry of Camco is a member of the API TG2. The project team reports to ISO/TC67/SC4/WG4, and hopes to change the ISO document number and expand the scope to include gas lift valves, inhibitor injection valves, side pocket mandrels, shearing devices, and associated wireline equipment.

At the 1998 Conference, the SC Chair agreed to contact the TG Chair to determine whether it is the TG's desire to follow the ISO lead in developing this document.

At the 1999 Conference it was reported that a WD of the ISO document on mandrels was distributed with a target date of 2/00 for comments. It was MSP to letter ballot Spec 11V1 for reaffirmation. A cover letter should be sent with the ballot to explain that this vote is a bridging action to keep the document active until the ISO document is completed. The document was reaffirmed by letter ballot. At the 2000 Conference it was reported the WG is waiting on the completion of the ISO document. API staff and the SC11 chairman will followup with work group members to determine SC11's next action. At the 2001 meeting, it was agreed to keep this item on the agenda until the final ISO document is completed.

At the 2002 Conference, John Yonker reported as follows:

ISO item 17078 for gaslift is split into three parts; Part 1, Sidepocket Mandrels is currently in CD circulation until July 2002. It will be advanced to DIS status in September and is expected to have DIS circulation November 2002 through March 2003.

Part 2, Sidepocket Valves and Flow Control Devices is expected to advance to CD status in November and CD circulation in early 2003.

Part 3, Sidepocket Latches and Profile Interfaces is expected to advance to CD status in the fall of 2003.

B. New Business
- At the 2002 Conference, Sid Thomas agreed to contact Jim Bennett to clarify the status of 11V5.
- At the 2002 Conference, a new work item was proposed for a new RP on dual gas lift equipment. MSP to approve the new work item.
- At the 2002 Conference, a new work item was proposed to develop a new RP on design of intermittent and chamber gas lift wells. It was MSP to approve the new work item.

3. TASK GROUP ON ELECTRIC SUBMERSIBLE PUMPS

A. Old Business

3.1 Standardization of ESP

3.1.4 11S9, RP on Motor Testing

In 1995, it was reported that the group had met once, and had completed a rough draft of a complete rewrite. The intent was to be able to determine the realistic hp that can be obtained from a specific nameplate at specific well conditions (primarily temperature). In 1996, it was reported that Noel Putscher had replaced George Rocha as chairman, and the project was inactive awaiting user support. Charles Williams suggested that users be requested to submit company requirements for motor testing, and an attempt be made to reach a consensus of current WG members. The chairman was requested to compile and circulate all current information to determine interest level. In 1997, Noel Putscher reported only manufacturers had responded to the request for motor testing requirements. There was no consensus on a procedure for testing so Noel will send a summary of the results to users with a request for additional involvement to help complete the document.

At the 1998 Conference, Noel reported copies of the draft had been sent out but there were no responses. Several names for possible candidates for the WG were given to Noel. It was MSP to re-solicit user candidates. If additional participants are found, the WG should meet during the winter work session.

At the 1999 Conference it was noted that this work item was ranked #2 in importance. It was MSP to accept the TG recommendation to request support from C1 to provide resources or a direction to take on developing an RP on motor testing At the 2000 Conference, TG Chair, Fred Brownlee, reported he will rework the scope of the RP and survey users for interest in supporting development of this document. He will also contact ESP manufacturers and selected users to determine areas of interest and concern about the document. Sid Thomas and Tim Sampson will review their files for information on action taken in this WG. There was discussion about holding a meeting around the time of the SPE ESP Workshop to encourage involvement in WG activities.

At the 2001 meeting, Tom Van Akkeren agreed to locate a copy of the draft of this document and determine whether there is enough consensus within the industry to develop a document, possibly by reworking the scope, if necessary, to put it in an RP format.

At the 2002 Conference, no action was reported. If no action is taken by January 2003, it was MSP to drop this item from the SC11 work program and agenda.
3.1.6 11S4, Sizing and Selection of ESP Installations

Shauna Noonan, Chevron, is WG Chair. In 1995, it was reported the technical work was complete and one meeting was needed before submittal for ballot in 1996. In 1996, it was reported that Tony Durham had replaced Bill Foley as Chair, and a draft would be submitted for review by the end of 1996. In 1997, there was confusion about who chaired the WG and the status of the draft. Fred Brownlee subsequently appointed Shauna Noonan to Chair the WG. At the 1998 Conference, the WG reported the document would be ready for balloting in 1999.

At the 1999 Conference it was reported the WG would have a draft of the document ready for TG review at the Winter Work Group meeting. It was MSP to request a two year extension to allow for completion of the document revisions. The document was sent to SC11 for letter ballot in early 2000, and was approved pending editorial revisions. At the 2000 Conference, Tom Van Akkeren reported there were outstanding editorial concerns that needed to be addressed before the document is sent out for publishing. At the 2001 meeting it was reported the document was modified to address concerns and was ready to be rebalotted. It was MSP to accept the TG recommendation to send the document out for rebalotting and disband the WG and drop from the agenda after RP 11S4 is published. Awaiting Publication.

3.1.10 Review of RP's 11S5, 11S7 AND 11S8

Under new business at the 1997 conference, it was noted that RP 11S5, RP 11S7 and RP 11S8 are four years old and need to be considered for revision, reaffirmation or withdrawal. Fred Brownlee agreed to ask TG members to review need for revisions, and make a recommendation to SC11 at the next Standardization meeting. At the 1998 Conference it was reported there were 10 responses to a survey sent out requesting user feedback on the need to revise, reaffirm or withdraw these documents. SC11 accepted TG recommendations as follows:

3.1.10.1 RP 11S5, Application of Electric Submersible Cable Systems, 1st Ed., February 1, 1993. In the survey, there were 8 votes to reaffirm and 2 to revise. It was MSP to request a 2 year extension for the document and to submit a NWI to revise RP 11S5. The work group met on Tuesday, June 15, 1999, and reported on the status.

At the 1999 Conference it was reported the WG met twice and will meet again at the Winter Work Group meeting. The WG chair said he felt the document would not be ready for balloting before the two year extension expired in 2/00. It was MSP letter ballot to reaffirm the document to keep it active while it was being revised. The SC chair should seek approval from C1 to issue the reaffirmed document without reformatting and republishing as a new edition. The document was reaffirmed as SC11 requested.

At the 2000 Conference, Tom Van Akkeren reported the WG completed a first pass review, plans to meet at a winter work group session and should have the document ready to go to ballot at next year's conference. At the 2001 meeting, Tom Van Akkeren reported the WG had completed a first draft revision. Because of a need for rapid action to maintain RP11S5 as an active document, it was MSP to allow the document to be balloted by mail through TG approval and then forwarded to the SC11 Chair to be sent
out for letter ballot. No report was provided at the 2002 Conference. Subsequent to the conference, Tom Van Akkeren advised that a draft is being developed.

3.1.10.2 RP 11S7, Application and Testing of Electric Submersible Pump Seal Chamber Section, 1st Ed., July 1993. In the survey, 10 votes to reaffirm; none to revise. It was MSP to reaffirm RP 11S7. Awaiting publication.

At the 1999 Conference it was MSP to seek approval from C1 to issue the reaffirmed document without reformatting and republishing as a new edition. 11S7 was reaffirmed without reformatting per SC11’s request. No further action required. This item will remain on the agenda for information only until action is completed on all of Item 3.1.10.

3.1.10.3 RP 11S8, Electric Submersible Pump System Vibrations, 1st Ed., May 1, 1993. In the survey, there were 9 votes to reaffirm; 1 vote to revise. It was MSP to request a 2 year extension and develop a NWI to revise RP 11S8.

At the 1999 Conference it was MSP letter ballot to reaffirm the document to keep it active while it was being revised. The SC chair should seek approval from C1 to issue the reaffirmed document without reformatting and republishing as a new edition. The WG will meet at the Winter Work Group session. The reaffirmation was approved. At the 2000 SC11 meeting, discussion indicated there wasn’t clarity on the need for a revision of this document. TG chair, Fred Brownlee will review the NWI and interview Noel Putscher and Norm Hein to determine the items of concern. API staff will have the document scanned into electronic format to make it easier to edit the document. At the 2001 meeting the TG agreed to gather documentation on the need for a revision to RP 11S8 and to solicit membership for a WG. No report was provided at the 2002 Conference.

B. New Business

None at the 2002 Conference.

4. TASK GROUP ON SURFACE PROCESS EQUIPMENT

A. Old Business

Q1 Technical Review of 12 Series Documents

4.13.1 Specs 12D, 12B, 12F, 12GDU, 12J, 12K, 12L, 12N and 11N

This item was added to the agenda in 1989 to review the standards for conformance with Spec Q1. Specs 12D, 12F, 12L, 12N and 11N were reaffirmed in 1993 and reissued in 1994. Spec 12B was reissued in 1995. Specs 12 GDU, 12J and 12K are due for reaffirmation, revision or withdrawal under API's five year review policy. In 1996, the TG reviewed results of a survey on need for the 12 series documents (See Appendix 4.13.1 or 1996 Report, Circ PS-2115) and took the following actions.

-- Agreed to keep 12B, 12D and 12F as separate specifications; and to editorially revise Par. 2.3 of Spec 12D and Spec 12F to read: "Sheets shall conform to the latest revision of ASTM A570, grade 33, 36 or 40. Sheets may be ordered on the weight or
thickness basis, at the option of the tank manufacturer." (The editorial change was in response to a 1995 Huntco letter -- 1995 Item 3.17. API staff requested guidance on whether this change should be published now, or await other possible changes.)

-- Agreed to keep 12GDU, 12J, 12K, 12L, 11N and 12N as separate specifications, and to poll users and manufacturers on use of these standards, purchases of the equipment, and what specifications are used if other than the API standards. Norm Hein agreed to help design the survey.

In 1997, it was reported that reference material had been assembled for the 12B, 12D and 12F, and WG members had reviewed the documents but had not yet prepared draft revisions. A motion passed to request API staff not publish the editorial revision to Par. 2.3 or Spec 12D and Spec 12F as requested by a letter from Huntco in 1995. It was noted the survey on 12GDU, 12J, 12K, 12L, 11N and 12N had not yet been performed.

The 1998 agenda noted the survey was conducted in early 1998. The agenda also noted Spec 12GDU, 12J and 12K were past due for 5 year review/action; and Spec 12D, 12F, 11N, 12L and RP 12N are due for 5 year review/action in 1999. At the 1998 Conference, it was MSP to accept the TG recommendation to reaffirm 12GDU, 12J and 12K. They were reaffirmed by letter ballot.

At the 1999 Conference it was MSP to ballot RP 12N and Specs 12B, 12D, 12F, 12L, 12P and 11N for reaffirmation, revision or withdrawal. All documents were approved for reaffirmation. Comments were received concerning emergency venting recommendations in 12B, 12D, and 12F suggesting that the words in paragraph 4.2 "unless tanks are installed in remote locations…" should be deleted. SC11 should consider this proposed change when the documents are revised. Also, one comment received on 12F, Para 3.12, recommends that the paragraph be revised to include a tolerance for the roof slope.

At the 2000 Conference, Allen Sindel, Shelby Traylor and John Franzwa agreed to reform the WG to prepare revisions to Specs 12F, 12B and 12D. No further action on this item was reported at the 2001 meeting.

At the 2002 Conference, it was MSP to recommend to C1 that the 12 series of specifications be forwarded as new ISO work items.

4.13.2 Spec 11P

In 1993, it was reported that Spec 11P was being revised, but no subsequent progress was reported. In 1995, the members asked the "drop dead" date for action on Spec 11P, and API staff reported there is a maximum time limit of seven years. In 1996, it was reported that ISO/TC 8 and TC 67 have formed a joint work group (NP 13631, Packaged Compressors). The task group requested the SC11 Chairman to investigate participation by API. In 1997, the TG Chair was asked to determine ISO WG status and assure API participation in the ISO WG. In September 1997, API received and forwarded to the TG chair, a first draft ISO/CD 13631. The Compressed Air and Gas Institute, Cleveland Ohio administer the US TAG for ISO/TC 118.

At the 1998 Conference, it was MSP to accept the TG recommendation to reaffirm Spec 11P.
At the 1999 Conference it was MSP to seek approval from C1 to issue the reaffirmed document without reformatting and republishing as a new edition. Allen Sindel will review Spec 11P and ISO/CD 13631 documents. Spec 11P has been reaffirmed as requested by SC11. At the 2000 Conference, it was reported that a survey of manufacturers confirmed the continuing validity of Spec 11P. There was nothing to report on the status of the ISO/CD 13631 document. Subsequent to the 2002 Conference, API staff was advised that downstream 11P users had concerns with the ISO 13631 document and had submitted comments on these concerns. Also, 13631 is not under the jurisdiction of TC67. No action is recommended at this time.

4.14 Q1 Revision of Spec 11E

Norm Hein, Conoco, is WG Chair. In 1990, a WG was formed to revise Spec 11E to satisfy Q1 based on color-coding. In 1994, it was reported that the group had met, and anticipated completion in one year. Spec 11E was editorially reformatted and reissued in 1994 to incorporate ISO 10431, 1993. In 1995, Mr. Hein reported a joint API and ISO effort was being made. In 1996, no progress was reported. The ISO project was not active and API had been requested to provide a US project leader. In 1997, it was reported that no progress had yet been made, but Norm Hein had agreed to chair the ISO project team as a US based effort and awaited confirmation from the Convenor of ISO/TC 67/SC 4/WG 4. At the 1998 Conference, Norm Hein indicated work on the ISO document will start at the winter work session.

At the 1999 Conference Norm Hein reported there was no meeting of the ISO project team. The SC requested a clarification on the status of the ISO document. It was MSP to reaffirm Spec 11E by letter ballot and to seek approval from C1 to issue the reaffirmed document without reformatting and republishing as a new edition. The document was reaffirmed as requested by SC11. At the 2000 Conference, it was reported that John Yonker, Cecil Hunt and Norm Nein will work on an initial draft for the ISO document based on API Spec 11E. At the 2001 meeting Cecil Hunt reported that there was interest in developing a WG to review the AGMA document referenced in Spec 11E. It was suggested that this might be resolved by taking over responsibility for maintaining the document as part of the ISO document development. The SC chair will provide an electronic copy of the document to Cecil Hunt.

At the 2002 Conference it was reported that a working draft on ISO 10431 (11E) has not been completed. SC 11 agreed to seek OGP funding assistance to convert the API document to ISO format in order to initiate a working draft.

4.16 Installation, Operation, Maintenance & Inspection of Lease Piping

A 1992 WG report indicated need for an RP, but no progress has been made due to loss of the WG Chair. It was noted that ARCO has considerable information it is willing to share with API. In 1996, the TG asked API staff to request a copy of the ARCO specifications for the API file. In 1997, Jim Curfew and John Franzwa agreed to participate when a Chair is found. Sid Thomas subsequently obtained a copy of the ARCO specifications, but a WG Chair is still needed. At the 1998 Conference, the SC Chair said there may be a candidate pending clarification of the scope of this document. If this isn’t successful, the SC chair will act on the TG motion to request help from C1 to recruit a chair or direct the SC to quit this effort.
At the 1999 Conference, John Franzwa agreed to make a technical review of API 570 to determine its suitability for use as a lease piping document. At the 2000 Conference, John Franzwa presented a summary of the contents of API Std 570, which covers only inspection of piping and equipment and not installation, operations and maintenance. There was no consensus within the TG to start working on an RP. John Franzwa will act as a liaison to the WG on Std 570 to provide input and will have a report at the 2001 Conference. At the 2001 meeting, it was reported that the comments on Std 570 are being resolved.

At the 2002 Conference, Tim Sampson reported that the 570 TG has decided not to proceed with seeking a NWI with the Upstream Executive Committee on Drilling and Production Operations. Recommend no further action by SC11.

4.18 Spec 1B, Letter from Visurgs Optibelt

In 1995, the TG reviewed the letter in Appendix 4.18, to determine if there was a need to clarify Spec 1B reference to ISO 4183. They agreed that if Spec 1B is a Class C (API only) standard, the group would need to clarify the suitability of the ISO 4183 reference.

Staff confirmed Spec 1B is a Class standard. In 1996, the TG Chair was requested to contact RMA to determine need to maintain Spec 1B parallel to ISO 4183 and 4184. In 1997, the TG Chair had not yet contacted RMA, but agreed to do so to help determine the need to maintain Spec 1B parallel to ISO 4183 and ISO 4184. At the 1998 Conference, the TG chair was requested to provide a report for the next conference.

At the 1999 Conference it was MSP to reaffirm Spec 1B by letter ballot and to seek approval from C1 to issue the reaffirmed document without reformatting and republishing as a new edition. This will keep the document active until ISO documents have been prepared. Spec 1B was reaffirmed by letter ballot. At the 2000 conference, it was reported there has been no contact with RMA or ISO 4183 and 4184 committees to update the status of the documents or their impact on Spec 1B. The TG Chair will get an update and report on the status at the next meeting.

At the 2002 Conference, John Franzwa, TG Chairman, agreed to review the status of 1B (licensees, publication sales, etc) with API to determine if the document should be withdrawn or carried forward in part as an RP. A report will be provided at the 2003 Conference.

4.19 Reaffirm, Revise or Withdraw RP 11ER

In 1995, it was noted Spec 11ER was due for review under API's five year review policy. In 1996, SC11 approved a TG recommendation to letter ballot 11ER for reaffirmation without changes. It passed ballot, however, API General Counsel recommended it not be reissued until reviewed for consistency with current OSHA regulations. Outdated references also need review/updating. In 1997, the TG chair agreed to contact Norm Hein to determine if he was willing to continue work on RP 11ER. If not, the TG chair would seek a new chair for the WG to revise RP 11ER references and assure that RP 11ER is compatible with OSHA requirements. At the 1998 Conference, Norm Hein agreed to chair the WG and will work with Cecil Hunt to resolve comments from the API legal staff. Revisions should be completed by the end of the year.
At the 1999 Conference it was reported that RP 11ER had been reviewed, marked up and color coded. A copy of the revisions will be forwarded to the SC Chair. It was MSP to give the SC Chair discretion to send the document out for letter ballot. A status report will be presented. The TG Chair will contact Norm Hein and Cecil Hunt on the status of revisions to this document. Based on input from API staff, the potential legal issues that were raised were not felt to be of sufficient concern to prevent the SC Chair sending the revised document out to ballot as previously authorized. At the 2001 meeting, the SC Chair agreed to follow up on the status of RP 11ER and, if it is completed, send it out for letter ballot.

At the 2002 Conference, it was MSP to ballot 11ER for reaffirmation. **BALLOT ITEM**

4.22 Reaffirm, Revise or Withdraw RP 12R1

In 1996, it was reported that RP 12R1 was due to be revised, reaffirmed or withdrawn under API's five year review policy. It was MSP to send RP 12R1 to ballot for reaffirmation, and to form a WG to consider revisions identified by a June 10, 1996 letter from Bob Hindman. The reaffirmation passed ballot, and the RP was reissued in 1997. At the 1997 Conference, Jim Curfew and Allen Sindel agreed to join the WG. TG Chair would ask Bob Hindman if he would be willing to chair the WG. At the 1998 Conference, the SC Chair said he would continue to seek a chair for this WG.

At the 1999 Conference it was MSP to have the SC Chair request that C1 identify resources to make identified revisions to the document. At the 2000 SC11 meeting, it was reported the TG recommends leaving this item on the agenda and continuing to seek industry support for revising the document. Comment was made that the document was available in electronic format. At the 2001 meeting, it was MSP to have the SC Chair and API Staff pursue print funding to draft an update of RP 12R1 for publication.

At the 2002 Conference, it was MSP to ballot 12R1 for reaffirmation. **BALLOT ITEM**

C. Other Business

None

5. Other Standards Activities

5.1 New Work Items

An issue of inconsistency in requirements for gauging standards in various SC 11 specs was raised. It was MSP that the SC develop a NWI to form a WG to revise, standardize and clarify gauging and other measurement and testing equipment requirements for SC 11 specifications. The formation of a WG was approved by C1. At the 2001 meeting, it was reported no work had been done yet.

At the 2002 Conference, Benny Williams reported that a kickoff meeting is being planned.
Liaison Reports

Packers/Bridge Plugs

John Yonker reported at the 2002 Conference that a new specification for packers and bridge plugs has been published as a result of SC11 balloting. API Spec 11D1 (ISO 14310) is now available from API. Final Report.

NACE Liaison, H. Byars:

At the 2002 Conference, Harry Byars presented the following report:

NACE International Items Of Interest To API E & P Standardization Committee Members
June 2002

STANDARDS AND REPORTS – Revised, Updated, and Reaffirmed Publications Since June 2001:

Note: PC*MRT0175 software also revised - and the MR0175 Ballot CD with all ballots on MR0175 since 1978 now available (ballots scanned into pdf files).
NACE Standard TM0197-2002, “Laboratory Screening Test to Determine the Ability of Scale Inhibitors to Prevent the Precipitation of Barium Sulfate and/or Strontium Sulfate from Solution (for Oil and Gas Production Systems)” – (Reaffirmed)
NACE Publication 1G186, “Oilfield Corrosion Inhibitors and Their Effects on Elastomeric Seals” -- Revision to be published soon.

WORK IN PROGRESS:

Revision -- NACE Standard TM0284-96, “Evaluation of Pipeline and Pressure Vessel Steels for Resistance to Hydrogen-Induced Cracking” (Re-ballot with unresolved negative attached, no changes to draft previously balloted)
Revision -- NACE Standard RP0291-96, “Care, Handling, and Installation of Internal Plastic Coatings for oilfield Tubular Goods and Accessories” -- to be balloted soon.

Proposed Standard Material Requirement -- “Materials Resistant to Sulfide Stress Cracking in Corrosive Petroleum Refining Environments” (This is intended to be “MR0175 for Refineries”) – (Task Group 231) -- To Be Balloted Soon.

Proposed Report -- “Hydrogen Permeation Measurement and Monitoring” – (Task Group 137) -- Review and Comment step has been completed; it should be balloted soon.

Standards to be reaffirmed at Fall Committee Week/2002 (Dallas, September 8 –12, 2002):


-- TM0384-94, “Holiday Detection of Internal Tubular Coatings of Less than 250 µm (10 mils) Dry Film Thickness”

-- TM0186-94, “Holiday Detection of Internal Tubular Coatings of 250 to 760 µm (10 to 30 mils) Dry Film Thickness”

NACE BOOKS

-- CORROSION CONTROL IN PETROLEUM PRODUCTION, 2ND EDITION, by Harry G. Byars:

-- CORROSION PREVENTATION by PROTECTIVE COATINGS, 2ND EDITION, by C.G. Munger and L. D. Vincent:

-- PEABODY’S CONTROL OF PIPELINE CORROSION, 2ND EDITION, Edited by Ron Bianchetti:

OTHER ITEMS

NACE Technical Committee Structure: Similar to API’s actions a few years back, NACE restructured its Technical Committees with the objective to broaden the input and balloting on standards, to reduce redundancy, and to eliminate an administrative layer. The existing Task Groups remained in tact; however, the numbering system was changed to a simpler format. The administrative and balloting structure also has changed. The administrative function will be handled by Specific Technology Groups (STGs). The primary STGs involving E & P subjects include:

STG30 -- Oil and Gas Production – Cathodic Protection,
STG31 -- Oil and Gas Production – Corrosion and Scale Inhibition,
STG32 -- Oil and Gas Production – Metallurgy,
STG33 -- Oil and Gas Production – Nonmetallic and Wear Coatings (Metallic)
STG35 -- Pipelines, Tanks and Well Casings

NACE International Web Site: http://www.nace.org has information on conferences, the Buyers Guide, Products Catalog (publications, etc.), news items and other corrosion/materials items.

NACE Technical Activities Department (phone 281/228-6221, Fax 281/228-6321) will handle specific inquiries on NACE activities.
D. Adjournment: The meeting was adjourned at 12PM.