



**ASME Standards Technology, LLC**  
**Request for Proposals**  
**RFP-ASMEST-07-03**  
**BPVC(#1) - Extend Low Cr Time-Dependent Range**

Date Posted: May 11, 2007

Proposal Due Date: June 15, 2007

**1. Summary**

ASME Standards Technology, LLC is soliciting proposals to investigate the feasibility of changing the criteria to extend time-dependent range for low-chrome (Cr) alloys used in heavy-wall pressure vessels.

This project has resulted from ASME Pressure Technology Codes & Standards (PTCS) Standards Committee requests to identify, prioritize, and address technology gaps in current or new PTCS Codes, Standards and Guidelines. This project is one of several included for ASME FY08 funding and intended to establish and maintain the technical relevance of ASME codes & standards products. An overview of the annual ASME PTCS project selection process is included at <http://files.asme.org/STLLC/10192.pdf>.

**2. Scope of Work**

a. Scope Description

Develop a new time dependent criterion to extend and replace the current criterion in ASME Section VIII in the neighborhood of the intersection point. The new criterion will be justified by examining the implications on deformation and fatigue behavior of base metal and weldments, and complex geometries. Requirements for hot tensile testing may be needed. Investigation should include consideration of 1-1/4, 2-1/4, and 9 to 12 Cr alloys.

The increased design stresses under the new basis in the ASME Section VIII Div. 2 rewrite will reduce the temperature at which the least of the values set by a time-dependent criterion intersect the value of a proposed time independent stress. The objective is to moderately extend the temperature of the intersection so that the higher allowable stresses can be used. Equipment with reduced wall thickness (increased allowable stresses) can be designed to approach the current operating temperatures.

This development work is of high interest to the petrochemical industry.

b. Deliverable

The project deliverable shall be a technical report provided as an electronic file in MS Word format. The report outline shall be approved by ASME ST-LLC. One peer review cycle is anticipated and modifications required to the report, as a result of the review cycle, are the responsibility of the contractor awarded the contract.

c. Schedule

Investigators shall submit a schedule with their proposal describing the major milestones and reporting schedule. ASME ST-LLC desires that the final deliverable be provided no later than June 30, 2008.

d. Reporting:

Progress reports shall be provided at ASME B&PVC code week meetings.

e. Travel Requirements

Current travel is anticipated to present project results to ASME C&S committees during ASME Boiler and Pressure Vessel Code (BPVC) code week meetings. Travel expenses shall be reimbursed, within the project budget, per the project Travel Policy.

f. Budget

The total budget is approximately \$40,000.

### **3. Applicant Eligibility Requirements**

ASME ST-LLC is seeking proposals from all qualified organizations including, but not limited to, engineering firms, consultants, academic institutions and Federally Funded Research and Development Centers. In addition to relevant technical qualifications and experience, applicants must possess an understanding of relevant ASME Codes and Standards.

### **4. Basis for Selection and Award**

Selection of a proposal by ASME ST-LLC will be achieved through a process of evaluating and comparing the relative merits of the applicant's complete responses. This process reflects ASME ST-LLC's desire to accept an application based on its potential in best achieving program objectives, rather than solely on evaluated technical merit or cost. Evaluation criteria includes, but is not limited to, the following:

- Technical capabilities
- Experience
- Price
- Schedule
- Agreement with Terms and Conditions

ASME ST-LLC reserves the right to award, in whole or in part, any, all, or none of the applications submitted in response to this solicitation.

### **5. Contract Terms and Conditions**

A fixed-price contract is preferred, however labor hour and expenses-type proposals will also be considered. Draft terms and conditions are attached. The final contractual terms and conditions will be negotiated between ASME ST-LLC and the selected applicant(s) following award.

ASME ST-LLC shall provide required access to codes and standards and other technical references necessary for performance of the work.

## 6. Submission Requirements

- a. Proposal Due Date: Proposals and amendments of proposals must be received by June 15, 2007. Applicants are encouraged to transmit their proposal well before the deadline.
- b. Anticipated Selection and Award Date: It is anticipated that selection and award will be made within 2 weeks of the proposal due date.
- c. Application Preparation Costs: This solicitation does not obligate ASME ST-LLC to pay any costs incurred in the preparation and submission of proposals or in making necessary studies or designs for the preparation thereof or to acquire, or contract for any services.
- d. Application Clarification: ASME ST-LLC reserves the right to require proposals to be clarified or supplemented to the extent considered necessary. The award may be made after few or no exchanges, discussions or negotiations. Therefore, all applicants are advised to submit their most favorable application to ASME ST-LLC. ASME ST-LLC reserves the right, without qualification, to reject any or all proposals received in response to this solicitation and to select any proposal, in whole or in part, as a basis for negotiation and or award. ASME ST-LLC reserves the right to modify or cancel this solicitation. All questions relating to the solicitation must be submitted to the contact below. Any amendments to the solicitation will be posted on the ASME ST-LLC web site ([http://stllc.asme.org/Requests\\_Proposals\\_RFPs.cfm](http://stllc.asme.org/Requests_Proposals_RFPs.cfm)).
- e. Treatment of Proprietary Information: A proposal may include technical data and other data, including trade secrets and/or privileged or confidential commercial or financial information, which the applicant does not want disclosed to the public or used by ASME ST-LLC for any purpose other than proposal evaluation. To protect such data, the applicant should specifically identify the data to be protected.
- f. Proposal Preparation and Submittal Instructions:

ASME ST-LLC may form a committee of subject matter experts to evaluate the technical qualifications of applicants. To help facilitate this evaluation, responses should include two separate documents, a Technical Proposal, and a Financial Proposal.

### 1. Technical Proposal

- (a) Provide organization name and contact information.
- (b) Provide evidence of technical capabilities: the credentials, qualifications, capabilities, and experience of individuals and the organization.
- (c) Describe approach to accomplishment of the Scope of Work.
- (d) Confirm agreement with the Scope of Work for the specified task(s)

### 2. Financial Proposal

- (a) Provide a fixed price quotation or an hourly billing rate quotation and estimated project maximum.
- (b) Confirm agreement with the draft Terms and Conditions, or state any specific exceptions.

### 3. Submit Technical and Financial Proposals via e-mail to the ASME ST-LLC contact below.

4. Responses must be received on or before the deadline.

**7. ASME Standards Technology, LLC Contact Information:**

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