

Department of Energy

Germantown, MD 20874-1290

March 18, 2002

Dear ARCS Instrument Design Team Members:

Thank you for agreeing to participate in this instrument baseline review on March 14, 2002. While you are not being asked to serve formally on this external review committee, your input is valued. What follows are the cover letter and charge to the review committee, and a draft agenda.

As you know, the Spallation Neutron Source (SNS) project is a major DOE construction project involving six DOE laboratories as partners: Argonne National Laboratory, Brookhaven National Laboratory, Thomas Jefferson National Accelerator Facility, Lawrence Berkeley National Laboratory, Los Alamos National Laboratory, and Oak Ridge National Laboratory. The SNS is designed as a tool for basic research using slow neutron scattering to probe structure and dynamics in a wide variety of materials. More information on the SNS can be found at www.sns.gov and information on the neutron scattering instruments can be found at www.sns.anl.gov.

Argonne National Laboratory is in charge of developing the initial suite of neutron scattering instruments for the SNS. These instruments are being funded as part of the construction of the SNS. We are now in the process of reviewing the second wave of SNS instruments which are supported primarily via grants with the major funding agencies. The ARCS instrument is supported by DOE's Office of Basic Energy Sciences through a grant with the California Institute of Technology (Professor Brent Fultz, Principal Investigator). The grant has undergone peer-review to evaluate the scientific and technical merit of the project. The purpose of this baseline review is to evaluate the design concepts and cost and schedule data developed for the ARCS spectrometer. A charge to the committee and an agenda for the review are attached.

To familiarize yourselves with the ARCS spectrometer and material to be reviewed, see the ARCS website at <http://www.its.caltech.edu/~matsci/btf/ARCS/Review/ARCSrev.html>. This site is password protected, with login name RevARCS, password CIT_ANL. This includes a draft of the Design Criteria Document, a set of sketches not included in the Design Criteria Document, and high-level versions of the schedule and cost summary. Some material will be updated over the next few days, but will be finalized by mid-week. More detail in each of these areas will be provided at the review.

Logistical support including help with travel arrangements, reimbursement for travel where appropriate, arrangement for access to the California Institute of Technology, etc. will be handled by Robin Hanan robin@hyperfine.caltech.edu 626 395-4424. Please contact her if you have any questions in these areas. Questions about the agenda and procedures should be directed to the Chair of the Review Committee: Jim Richardson jwrichardson@anl.gov 630 252-3554.

Sincerely,

Helen Kerch
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