

**Memorandum of Agreement  
Between  
The Spallation Neutron Source  
and  
Brookhaven National Laboratory**

**1. Introduction**

The Spallation Neutron Source (SNS) Project is being accomplished by a partnership between six laboratories – Argonne National Laboratory, Brookhaven National Laboratory (BNL), Lawrence Berkeley National Laboratory, Los Alamos National Laboratory, Oak Ridge National Laboratory (ORNL) and the Thomas Jefferson National Accelerator Facility. The current project schedule provides for BNL's subproject to be completed in early 2005, with the delivery of the accumulator ring and the beam transport line components, but it is anticipated that the SNS Project, as well as BNL, will mutually benefit from a continued collaboration. This Memorandum of Agreement (MOA) provides the overall framework for the continued collaboration between SNS/ORNL and BNL in several areas of common interest, including foremost the commissioning of the compressor ring, target development, accelerator physics and high beam power H<sup>-</sup> accelerators.

**2. Scope**

The MOA formalizes a mutual agreement to collaborate on the installation, commissioning and operation of high intensity proton storage rings. It represents the agreement of the signatory laboratories ORNL and BNL to work towards mutually supportive and agreed upon objectives in this area. It also represents a framework for BNL to support the work on SNS during hand-off until the end (CD4) and beyond the duration of the construction project.

**3. Roles and Responsibilities**

BNL, represented by a senior physicist in the Brookhaven Collider-Accelerator Department (C-A), will be responsible for managing the continuing collaboration and the individual contributions to the different parts of the collaboration. Upon the completion of the construction handoff by BNL to ORNL, the BNL Senior Team Leader will assume the duties of the collaboration spokesperson. The BNL collaboration spokesperson will coordinate with BNL management (C-A Department Chairperson, and the ALD for HENP) the resources that will contribute to this effort and time scale. The spokesperson will be the contact point for ORNL to ensure that the terms of the collaboration are met. The proposed areas of collaboration should be presented to SNS and BNL management in a timely fashion, typically the end of each fiscal year to allow appropriate planning and for final approval. SNS will fund yearly up to a maximum of 3.5 FTE's within the time period of hand-off until the end of the construction project. These funds become applicable for personnel on extended stays at ORNL and will cover the resulting off-site expenses as well as the base salary and the appropriate overheads. After the end of the SNS construction project (CD4), this MOA may be extended and re-approved by ORNL and BNL management. As part of this agreement, BNL will make a best effort to provide

qualified technical personnel to support the commissioning of the SNS transport lines and ring systems as identified by SNS. Such requests will be made by SNS only in case of urgent need, and SNS will fund all additional expenses arising from such requests.

#### **4. Provisions**

##### **Staffing and Equipment**

BNL is responsible for selection of a collaboration spokesperson, who will be responsible for the development of a staffing and manpower schedule. Any equipment that is required to execute the continued collaboration will be returned to the original owner at the expiration of the MOA.

##### **Costs and Accountability**

BNL is responsible for adhering to proper accounting procedures and for maintaining reviewable records. The representatives of both participating laboratories will annually provide a written report to management of both laboratories documenting the progress of the R&D program. This yearly report will include a cost/expense summary.

#### **5. MOA Implementation**

##### **Enactment**

This document will become effective when signed by the BNL and ORNL Laboratory Directors and the ORNL Associate Laboratory Director for the SNS. It shall remain in effect until CD4 is obtained for the SNS Project or until superseded. The actual efforts described in this MOA will be initiated following completion of handoff as specified by separate agreements between the undersigned parties for ring components.

##### **Change Procedure**

If changes to this MOA are deemed necessary, such changes will be implemented by mutual agreement between SNS/ORNL and BNL and will become effective upon reissue of the properly signed revised edition of this MOA. A new MOA shall bear a revision number and effective date as a footer on each page.

**Approvals**

The undersigned concur with the terms of this Memorandum of Agreement:



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William J. Madia, Director  
Oak Ridge National Laboratory

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March 7, 2002

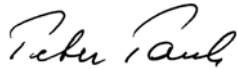
Date



\_\_\_\_\_  
Thomas E. Mason, Associate Laboratory Director  
Spallation Neutron Source

\_\_\_\_\_  
March 7, 2002

Date



\_\_\_\_\_  
Peter Paul, Acting Director  
Brookhaven National Laboratory

\_\_\_\_\_  
March 7, 2002

Date