

BROOKHAVEN NATIONAL LABORATORY

MEMORANDUM

TO: Adrian Fabich, Glimos for the MERIT experiment  
FROM: Harold G. Kirk MERIT Co-Spokesperson  
SUBJECT: Welding requirements for the MERIT solenoid cryostat  
DATE: April 4, 2007

All welds for the MERIT pulsed solenoid cryostat was performed by the company CVIP (Cryogenics-Vessels-Instrumentation-Piping) located in Emmaus, PA, USA. This company adheres to the ASME VIII code and possesses an ASME VIII U stamp certificate to indicate that their fabrication work adheres to the code. There QA program has been included in the documentation accompanying the cryostat. As a result, CVIP was responsible for imposing ASME VIII requirements for welders, welds, inspectors, and the inspection of all welds. A separate certification of each weld is not deemed to be necessary in lieu of the requirement of the company to adhere to these standards and there obligation to follow there QA program.

Further, at the conclusion of the fabrication, CVIP was required as part of the specifications of the Purchase Order to perform a room-temperature pressure test. This pressure test was conducted at 243 psig (16.2 bar over pressure). The certificate of this test is attached to this memo.