



Department of Energy  
Princeton Site Office  
P.O. Box 102  
Princeton, New Jersey 08542-0102

OCT 2 - 2007

Dr. A. J. Stewart Smith  
Dean for Research  
Princeton University, Main Campus  
4 New South Building  
Princeton, NJ 08544

Dear Dr. Smith:

SUBJECT: TECHNICAL REVIEW OF THE NATIONAL COMPACT  
STELLARATOR (NCSX) PROJECT AT  
PRINCETON PLASMA PHYSICS LABORATORY (PPPL)

As we have discussed, the DOE Office of Science must make a decision regarding the future of the NCSX Project in November 2007. In order to be fully informed regarding the viability of completing construction and successfully operating this device, we are requesting that a comprehensive technical design/constructability review of the project be performed by the University. The purpose of the review is to determine whether there is a high level of confidence, based on the current state of design, that NCSX can be built and maintained within its required tolerances.

It is understood that this design review can only address the design activities completed to date. Future design activities will require additional reviews. It is expected that this review will focus on the stellarator core components and assembly, and will not include standard auxiliary and support systems. It is also expected that this review committee will consist substantially of technical experts that are external to the NCSX project team and the participating laboratories.

We request that the University conduct this comprehensive design review and submit a final review report to me by November 5, 2007. Representatives of my office would also like to participate in the review as observers.

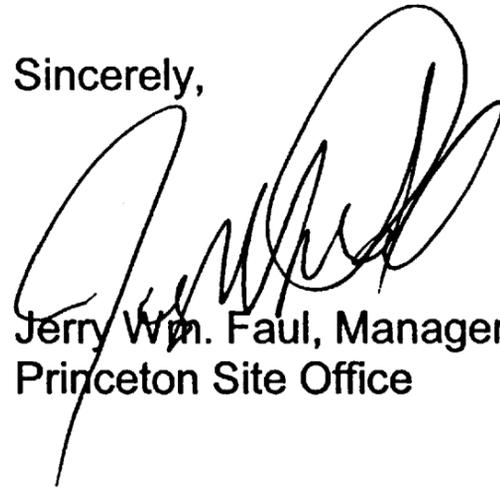
Dr. A. J. Stewart Smith

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If you have any questions about this request or need further information, please feel free to contact either me at 609-243-3706, or Jeffrey Makiel, the Federal Project Director for NCSX at 609-243-3721.

Sincerely,

A handwritten signature in black ink, appearing to read "Jerry Wm. Faul", written over a printed name and title.

Jerry Wm. Faul, Manager  
Princeton Site Office

cc: R. Fonck, SC-24, GTN, HQ  
D. Lehman, SC-28, GTN HQ  
G. Nardella, SC-24.2, GTN, HQ  
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