

**US ITER Forum
Activity Proposal Form**

Your name: David Andrews
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What is the scope of your proposed activity?

Produce pilot quantities of superconducting Nb₃Sn strand to provisional revised ITER specifications in order to verify designs and begin the optimization of production yields. Supply production quantities of superconducting strand for the program.

In which phase(s) would the activity be conducted?

Pre-construction (2003-5) Construction (2006-13) Research (2014-34)

In which phase(s) would the US benefit be realized?

Pre-construction (2003-5) Construction (2006-13) Research (2014-34)

What do you see as the US interest in the programmatic area of your proposed activity?

Superconductor technology is enabling for the ITER project. Superconducting Nb₃Sn strand is not a commodity, and US firms have led advances in the technology over the past several years. These advances should be leveraged to the advantage of the ITER project and future Office of Science initiatives, for example in high energy physics.

For design and fabrication activities, what do you see as the US interest in performing the design and fabrication scope in your proposed activity?

It is in the US and everyone else's interest for ITER to utilize the best superconducting strand available, and for the procurement of strand to be made on a fully competitive, world-wide basis. Pilot production to ITER specifications is a prerequisite for optimizing yields and generating economically attractive supply proposals for a program of this size.

The continued health of the US superconductor industry is dependent upon access to international projects such as ITER.

Indicate the nature(s) of the proposed activity:

- US preparations for Negotiations
- US preparations for the Construction Phase
- US preparations for the Research Phase

- R&D and design work
- Fabrication of US components/systems
- Preparation of tools for the Research Operations Phase
- Other: _____