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Progress of 2G HTS Development and Process Improvement at SuperPower

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Advancements in 2G HTS conductor performance continue to drive the operating limits for a broad range of demanding applications. The design, testing and fabrication technology of 2G HTS (RE)BCO conductors is presented, highlighting the ability of 2G HTS wire to function under a wide range of operating conditions. SuperPower continues to focus on process improvement to achieve high uniformity of wire performance, long piece length and high repeatability in wire production. In particular, extensive studies on wire properties have been carried out and processing upgrades implemented to improve both the base performance of the conductor, as well as its functionality by enhancing key characteristics such as piece length, mechanical properties, uniformity of critical current and lift factor. Updated measurements on recent production material are presented and plans for future performance targets discussed.

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