

**Memorandum**

August 4, 2010

**To:** Bruce Chrisman  
**From:** Nancy Grossman *NG*  
**Subject:** Revised FESHM Chapter 5031.6

**FESHM Chapter 5031.6 – Dressed Niobium SRF Cavity Pressure Safety (and associated technical guidelines)** – has been reviewed by CSSC, MSS and also went out for Labwide Review.

This new chapter defines the policy for the design, fabrication, testing, and quality control of dressed Superconducting Radio Frequency (SRF) Cavities, also referred to in this chapter as Dressed SRF cavities. SRF cavities containing cryogens pose a potential pressure hazard. Pressure vessels such as SRF cavities fall within the scope of the ASME Boiler and Pressure Vessel Code and/or ASME Code for Pressure Piping. The use of niobium as a material for the SRF cavities and other design features fall outside the scope of the ASME Codes and require additional provisions to ensure safe design and operation.

**Recommended for Approval:**

Bruce Chrisman

*8/9/10*

Date

**Approved:**

Piermaria Oddone

*8/10/10*

Date