

Tohoku Bubble Chamber Magnet
Safety Documents Formally Submitted
to the Safety Review Panel
Latest Revision - *
October 30, 1985

- 1) Tohoku Bubble Chamber Magnet Stress Analysis, addition of Appendix E
- 2) Tohoku Bubble Chamber Magnet LN2 Buffer Dewar Stress Analysis
- 3) LHe and LN2 Schematic Diagram #2771-ME-156379, Rev. D
- 4) Failure Mode and Effect Analysis, September 25, 1984
- 5) Operating Procedures, November 7, 1984
- 6) Randolite Compression Test, July 16, 1980
- 7) Electrical and Mechanical Properties of Lead/Tin Solders and Splices at 4.2 K
- 8) Pressure Rating of Miscellaneous Tohoku Bubble Chamber Magnet Components/Bellows in Tohoku Magnet System
- 9) Effect of the Liquid Nitrogen Cooldown on the ODH in Labs E and F
- 10) Tohoku (30-Inch) Bubble Chamber Magnet Vacuum Shell Analysis
- 11) Mechanical Analysis of Tohoku Bubble Chamber Magnet Helium Dewar Vent Piping
- 12) Maximum Pressure in the Tohoku Bubble Chamber Magnet System
- 13) Tohoku Bubble Chamber Helium Dewar Analysis, January 11, 1985
- 14) Cryogenic Welding Metallurgy, January 7, 1982
- 15) ODH Danger from 160L Nitrogen Dewars, January 2, 1985
- 16) Relief Valve Sizing for a Nitrogen Precool of the 30" Magnet, November 16, 1984
- 17) Tohoku Bubble Chamber Magnet Field Calculations, January 21, 1985
- 18) ODH in Lab E and F from LHe in the Tohoku Bubble Chamber System, February 27, 1985

- 19) ODH in Lab E & F from the 3000 Gallon External LN2 Tank, March 22, 1985
- 20) Summary of Tohoku Magnet Stability, Burnout Protection, and General Electrical Integrity, April 2, 1985
- 21) Tohoku Bubble Chamber Magnet Normal Parameters and Trip Levels, May 3, 1985
- 22) Tohoku Bubble Chamber Magnet Heat Leak Summary, July 31, 1985
- 23) Tohoku Bubble Chamber Magnet Vacuum Shell Analysis (Appendix 1) October 29, 1985
- *24) Measured Magnetic Forces on the Tohoku Bubble Chamber Magnet (from the first run, Sprig 1985), October 30, 1985