Misalignment Compensation of Superconducting Magnets in RHIC[*], J. WEI, M. HARRISON, S. PEGGS, S. TEPIKIAN, P.A. THOMPSON, D. TRBOJEVIC, BNL - The misalignment compensation is a challenging task in RHIC both for the arc region Corrector-Quadrupole-Sextupole (CQS) [1] and for the insertion region triplet assemblies [2], where many individual superconducting magnets share a common cryostat and experience warm-cold transitions. The production alignment measurements using various techniques including the colloidal-cell method [3] are summarized. The magnet centre offset and roll data are extracted and analysed. The effects and compensation methods are discussed*.

* Work performed under the auspices of the U.S. Department of Energy.

1 J. Wei, S. Peggs, S. Tepikian, P.A. Thompson, and D. Trbojevic, Effects of CQS and Dipole Misalignments in RHIC, RHIC/AP/71 (1995).

2 J. Wei, M. Harrison, S. Peggs, P.A. Thompson and D. Trbojevic, An Estimate on the Effects of Triplet Magnet Misalignments in RHIC, RHIC/AP/71 (1995)

3 D. Trbojevic, et. al., Alignment and Survey Elements in RHIC, Proc. 1995 Particle Accel. Conf., Dallas (1995) to be published.