Electrical Work Plan

(Reference ES&H Bulletin 68A. Attach additional pages as needed)

Job Name: BOOSTER Tunnel Access Hazards Verification

Location: BOOSTER Tunnel, B140

Effective Dates Of Plan - Start: 12/14/04 End: 12/14/05

Work To Be Performed By: Critt Taylor, Ray Ortiz, Greg Johnson, John Wachter

Person In Charge: Fernando Rafael **Phone:** 4607

Description Of Work:
Perform SAPE 112 "BOOSTER Tunnel Access Hazards Verification Procedure"
This procedure describes the steps necessary to "manually" verify that all BOOSTER Ring hazards are in a de-energized condition to allow entry into the BOOSTER tunnel, when the normal verification process is not possible

Associated Hazards (e.g. voltage, current, etc.):
White Circuit voltages up to 2400 V DC
Individual magnet voltages 10 to 40V DC

Hazard Mitigation (e.g. specific PPE, barriers, etc):
Follow Precautions and PPE requirements in SAPE 112 "BOOSTER Tunnel Access Hazards Verification Procedure"

Note: For a nominal system voltage range, phases to phase, of 751 to 15,000 volts, the Restricted Approach Boundary is 2 feet 2 inches per NFPA 70E Table 130.2(C). A Flash Protection Boundary of 1 foot and 2 inches was calculated for the worst case, the White Circuit by pass Capacitor CO (270 k Joules). The others have lower stored energy.

Inspection Required After Work? - Yes____ No X (Required for New Installations.)

Originator: Rafael **Date:** 12/14/04

Approvals As Required By Bulletin 68a (Sign, print name and title, and date):

M. Widmeyer, Widmeyer, Supervisor 12/14/04

Participants (All workers to read, sign, print name and date):