PATH 15 UPGRADE PROJECT

NORTH-TO-SOUTH RATING STUDY

Appendix 1

Transient Stability Plots

WECC Rating Process

Phase 1

Comprehensive Progress Report

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Electric Transmission and Distribution Engineering
August 5, 2002

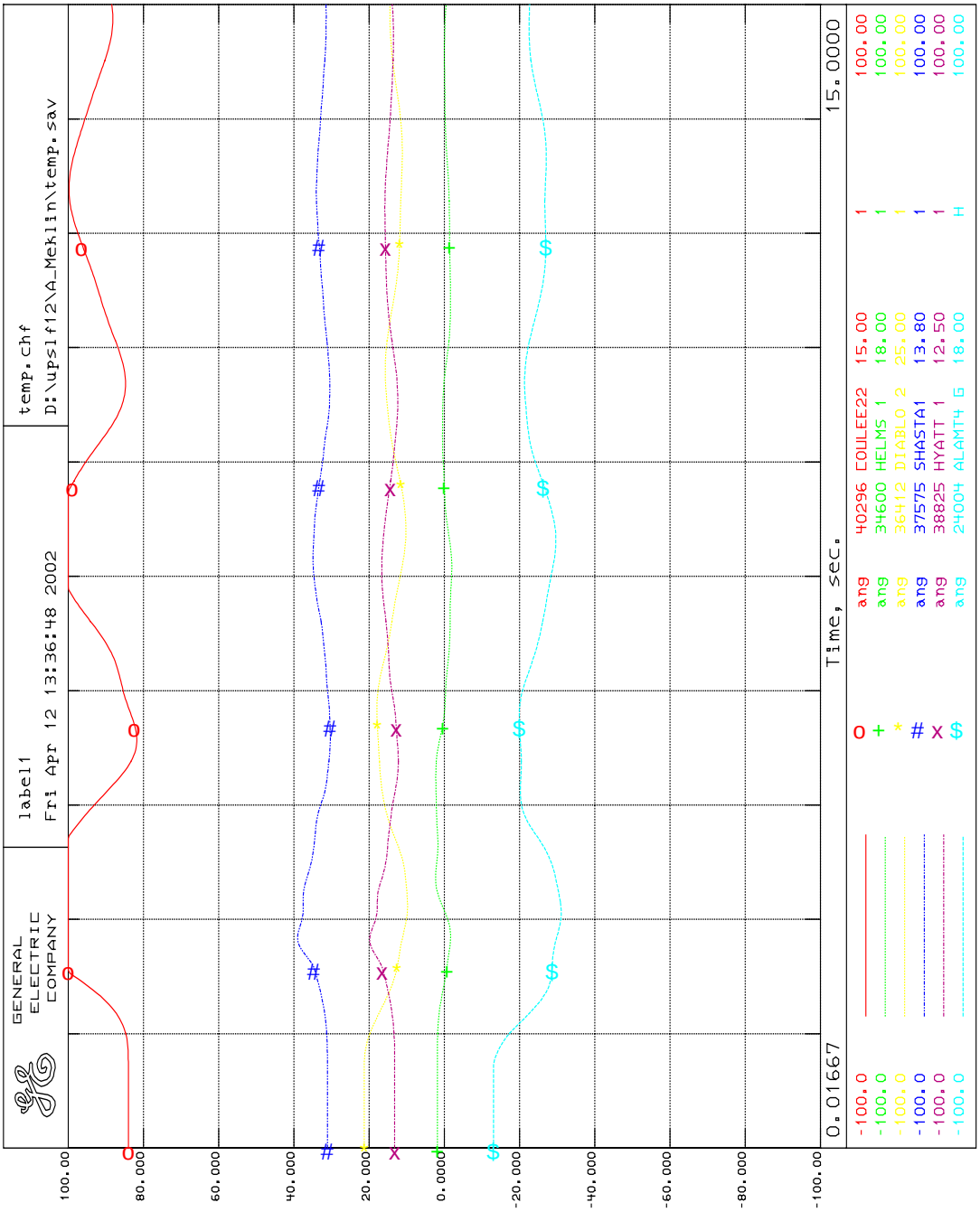

Figure 1. Palo Verde DLO. Pre-project. Angles.

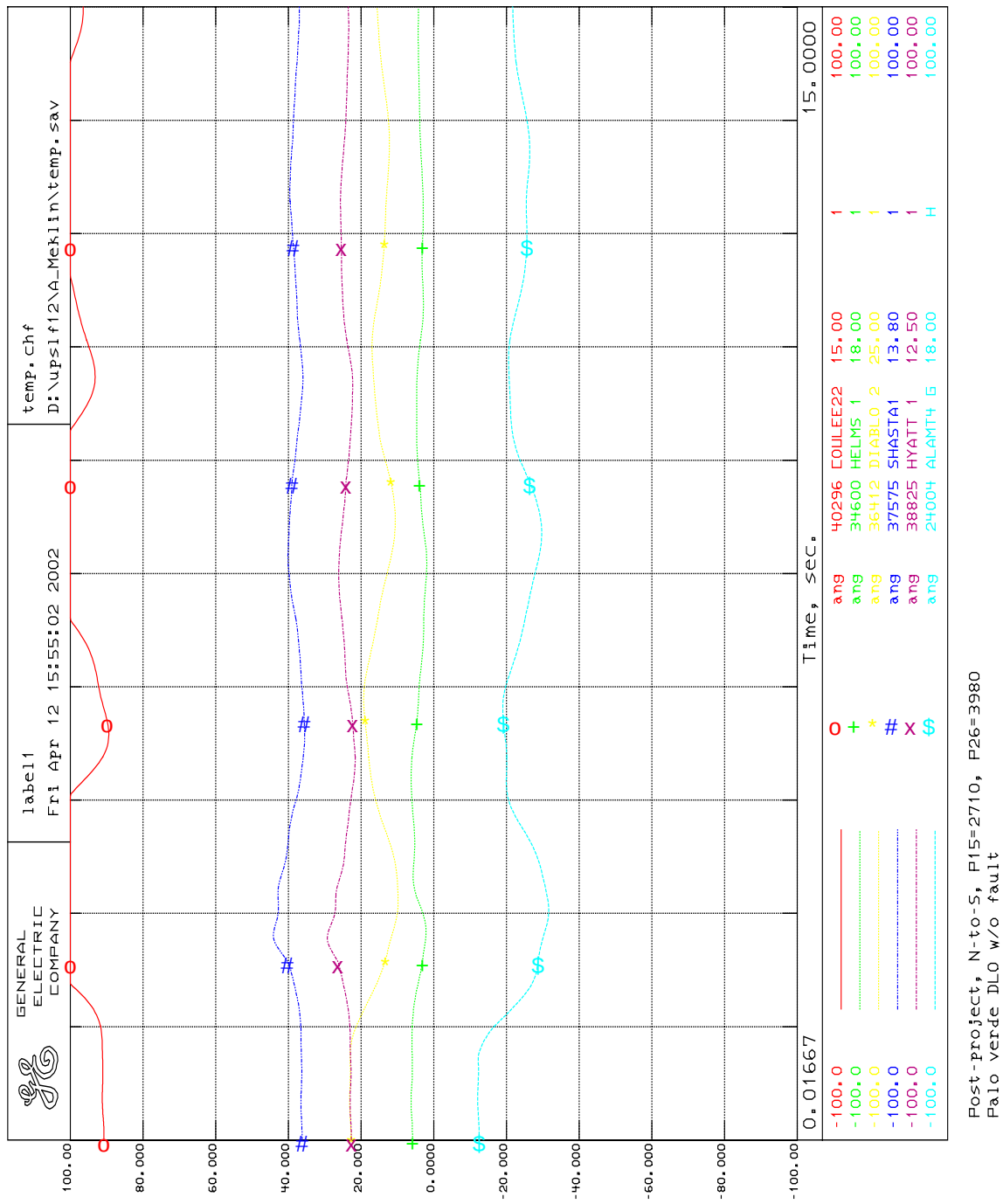

Figure 2. Palo Verde DLO. Post-project. Angles.

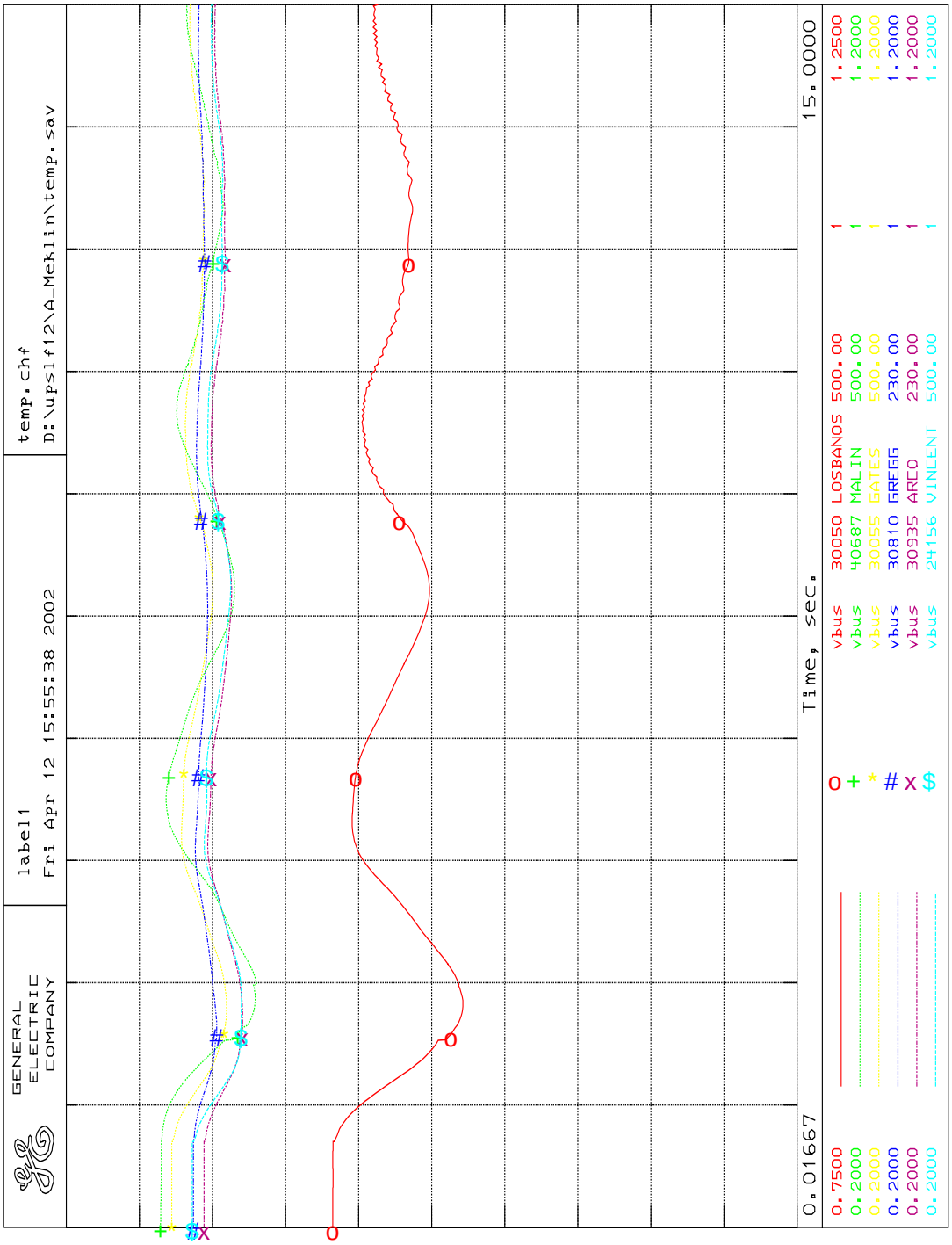

Figure 3. Palo Verde DLO. Post-project. Voltages.

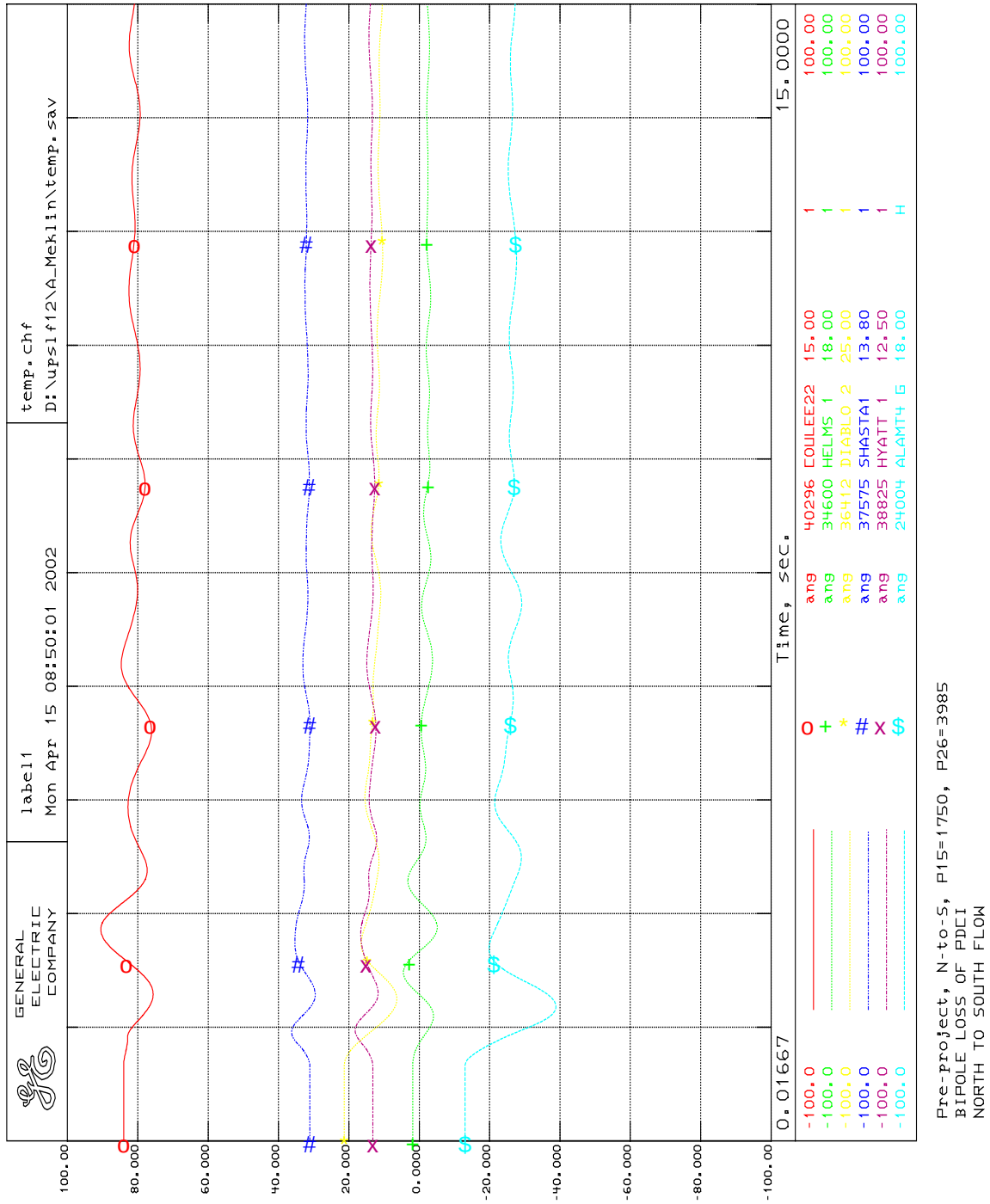

Figure 4. PDCI bi-pole. Pre-project. Angles.

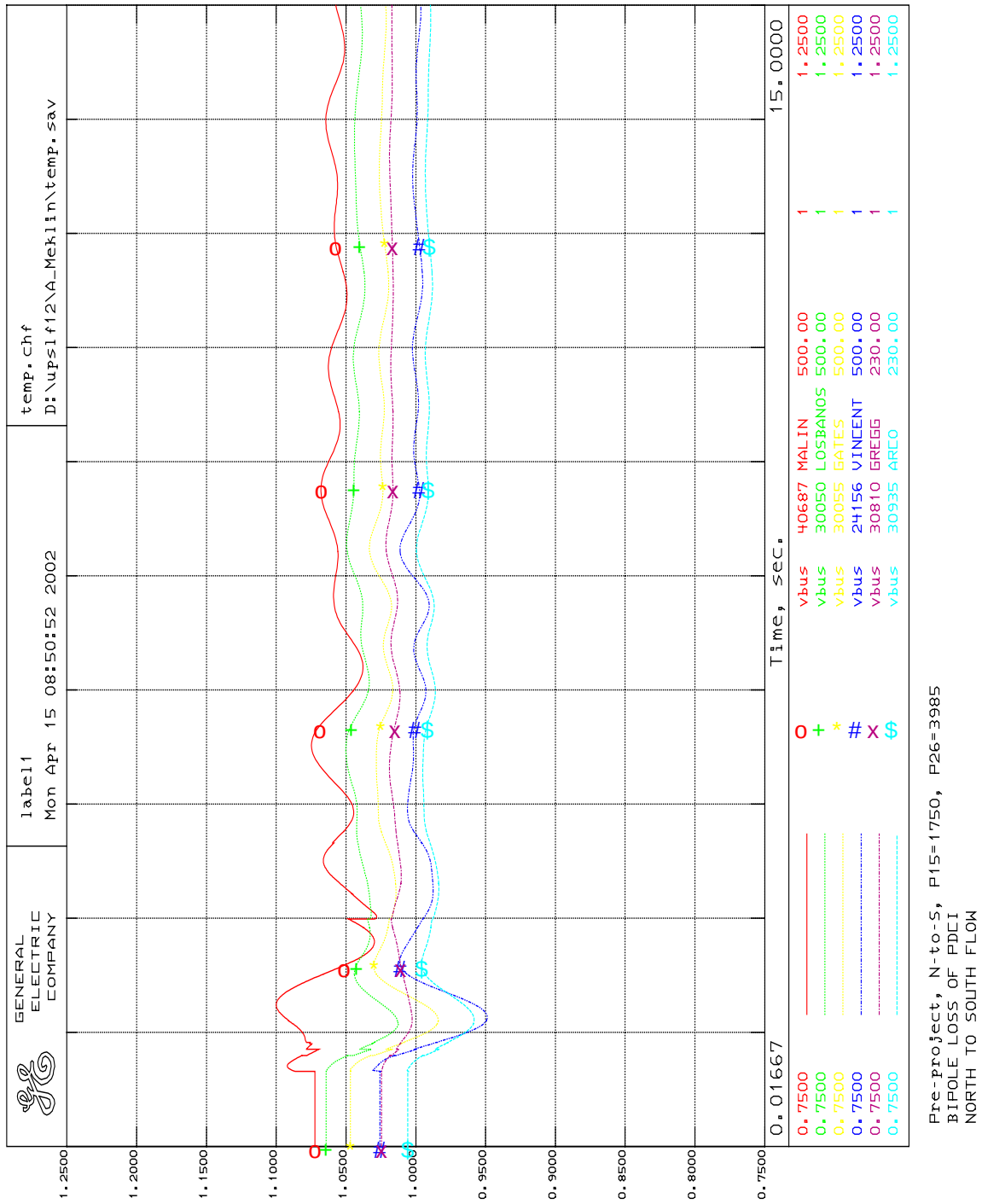

Figure 5. PDCI bi-pole. Pre-project. Voltages.

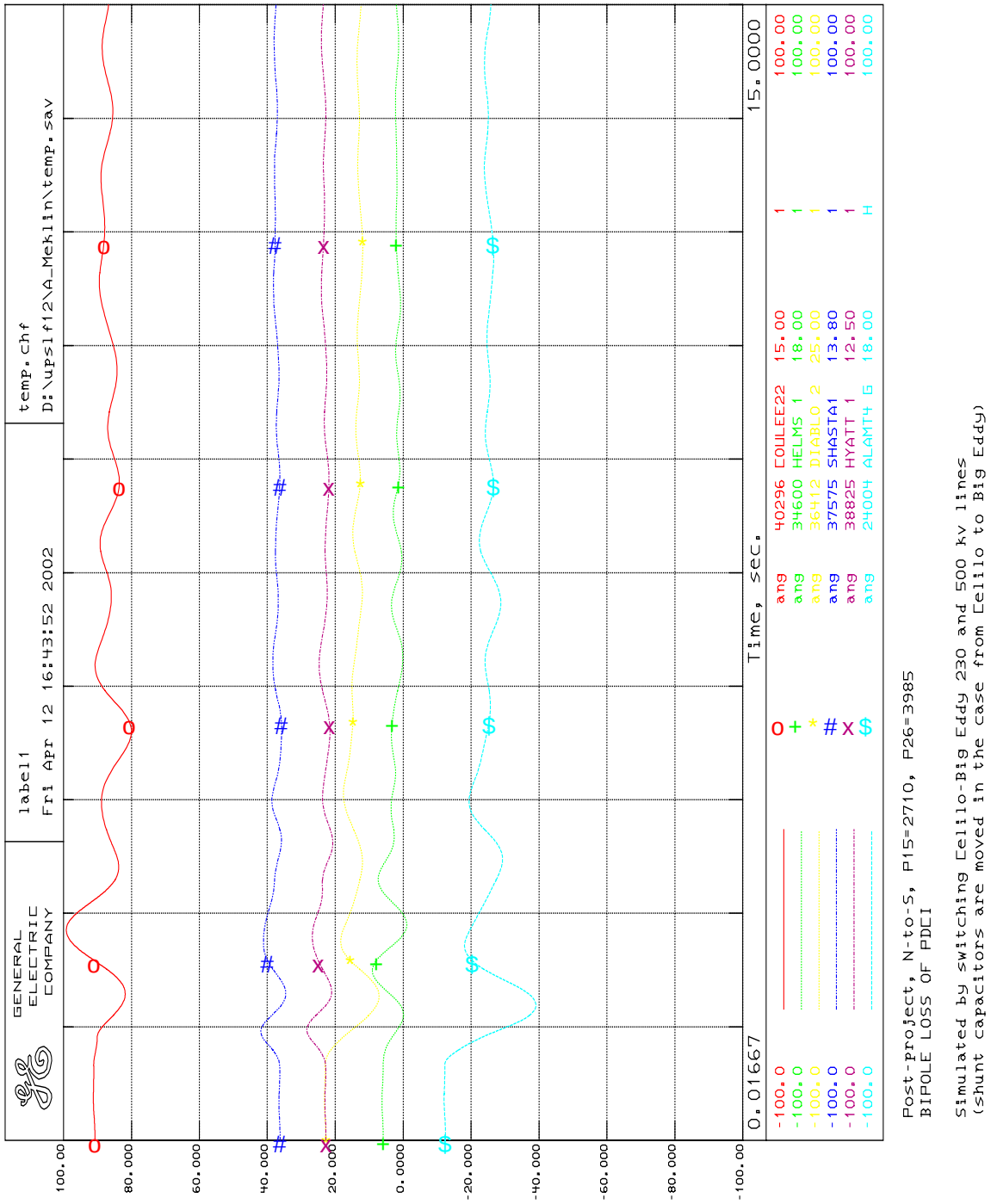

Figure 6. PDCI bi-pole. Post-project. Angles.

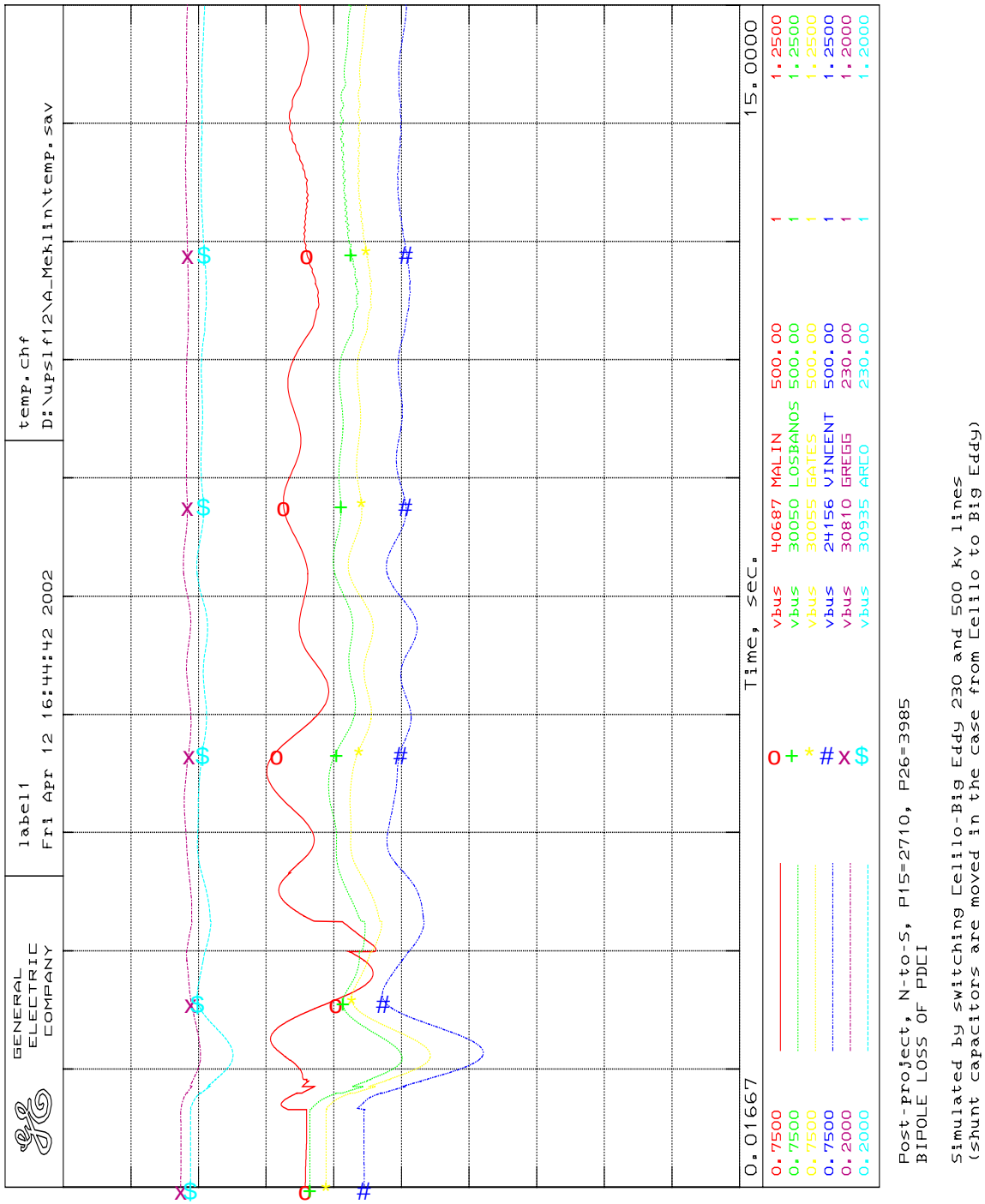

Figure 7. PDCI bi-pole. Post-project. Voltages.

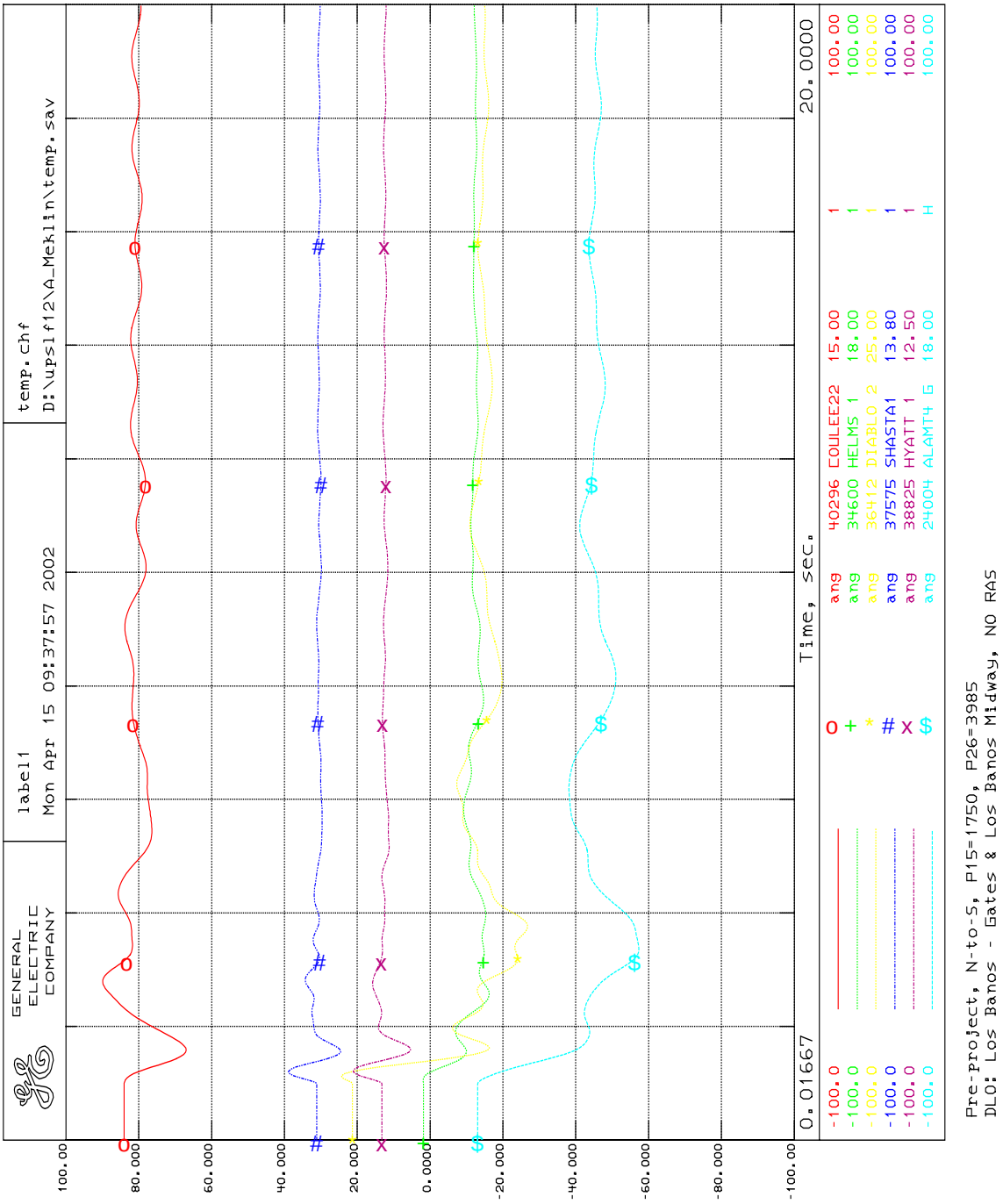

Figure 8 . Los Banos – Gates and Los Banos – Midway DLO. No RAS. Pre-project. Angles.

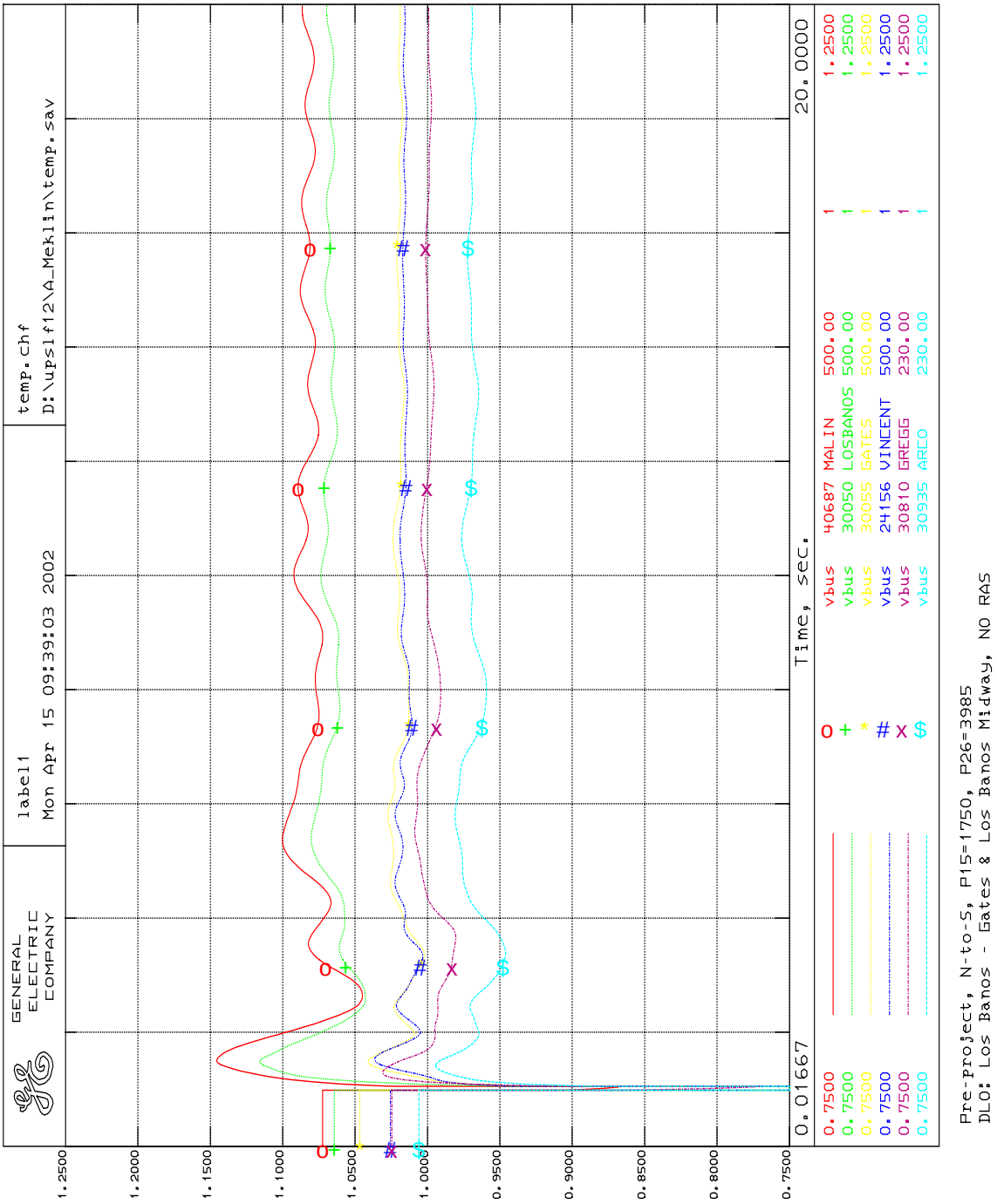

Figure 9. Los Banos – Gates and Los Banos – Midway DLO. No RAS. Pre-project. Voltages.

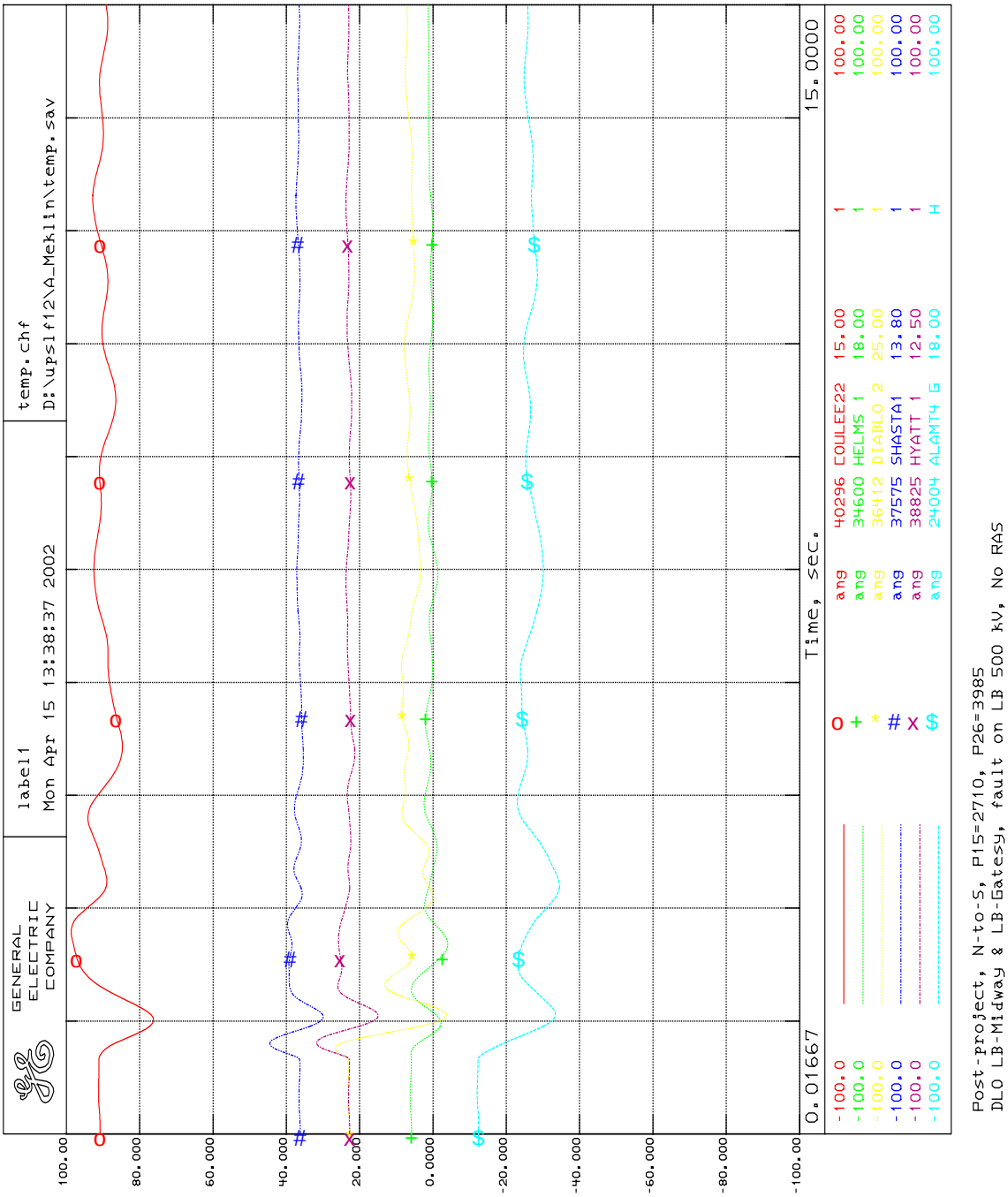

Figure 10. Los Banos – Gates and Los Banos – Midway DLO. No RAS. Post-project. Angles.

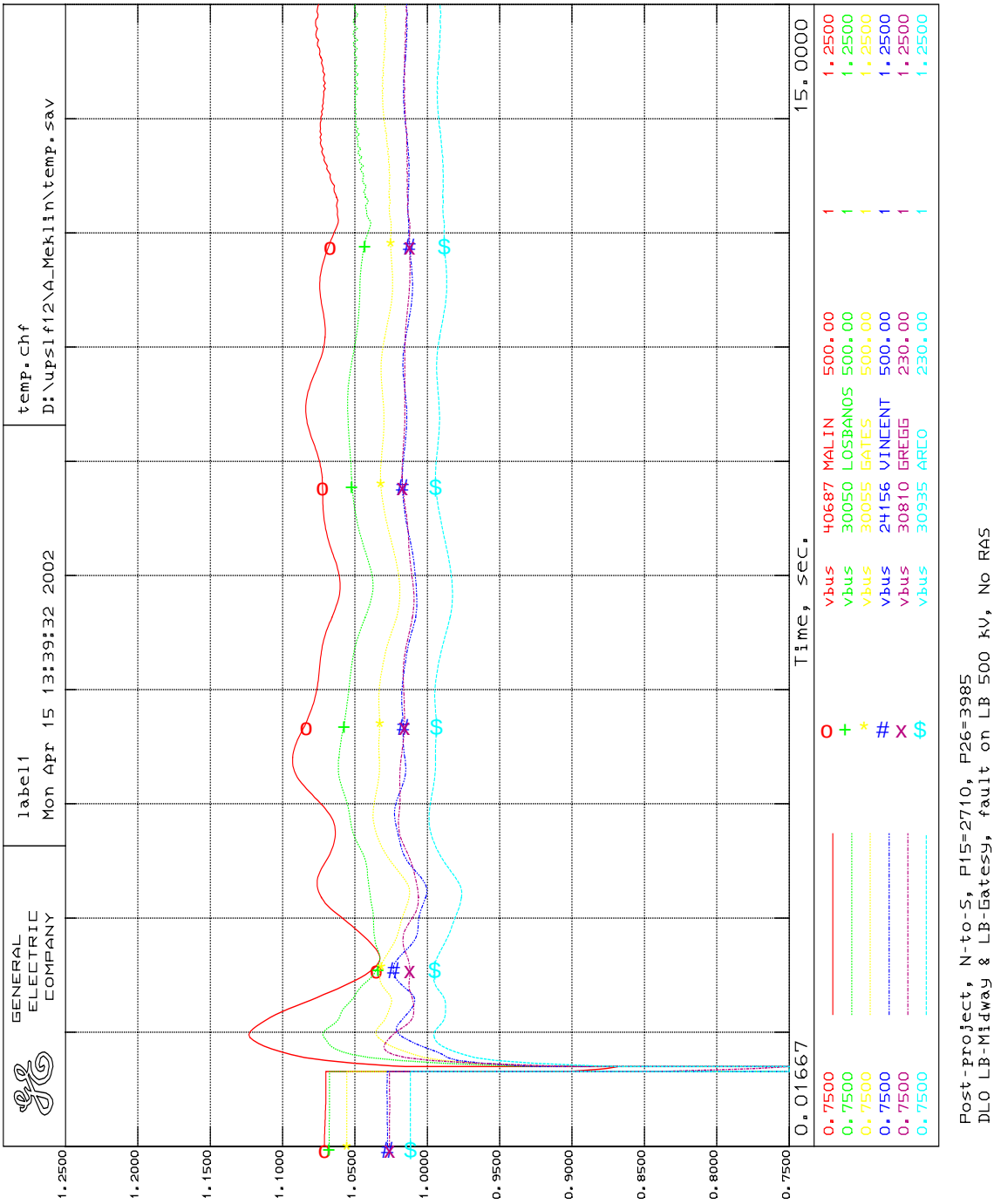

Figure 11. Los Banos – Gates and Los Banos – Midway DLO. No RAS. Post-project. Voltages.

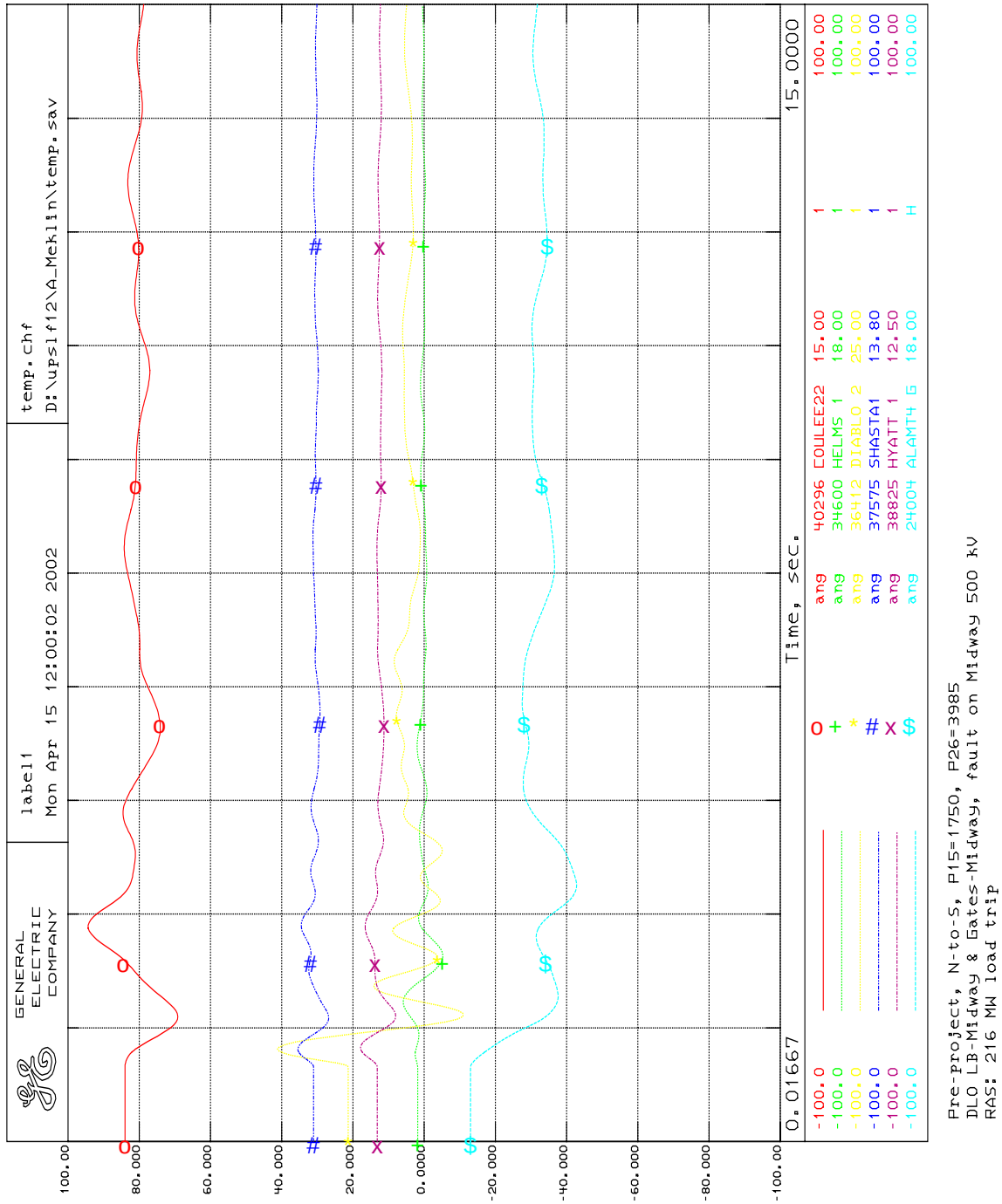

Figure 12. Los Banos – Midway and Gates – Midway DLO. No RAS Pre-project. Angles.

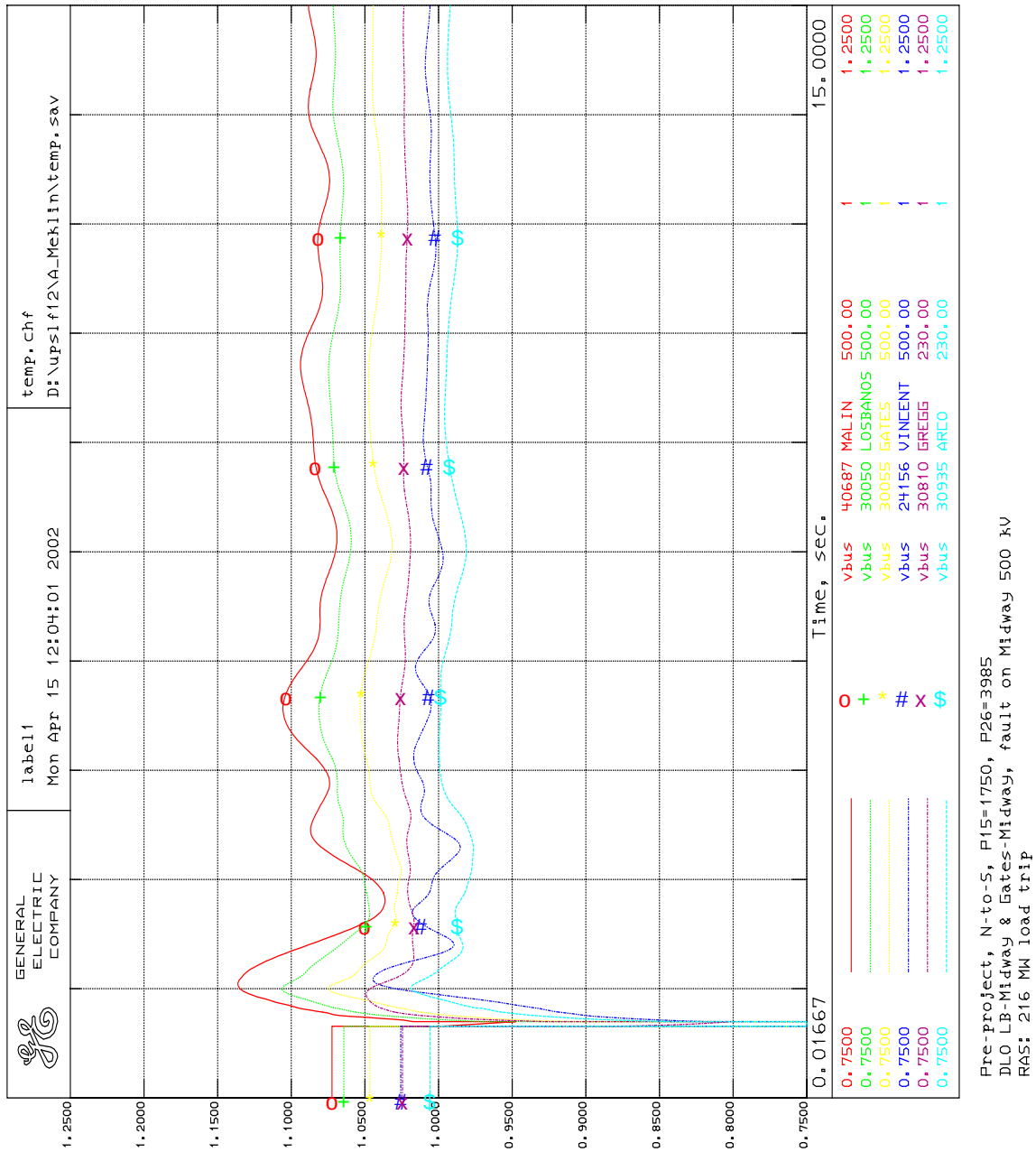

Figure 13. Los Banos – Midway and Gates – Midway DLO. No RAS Pre-project. Angles.

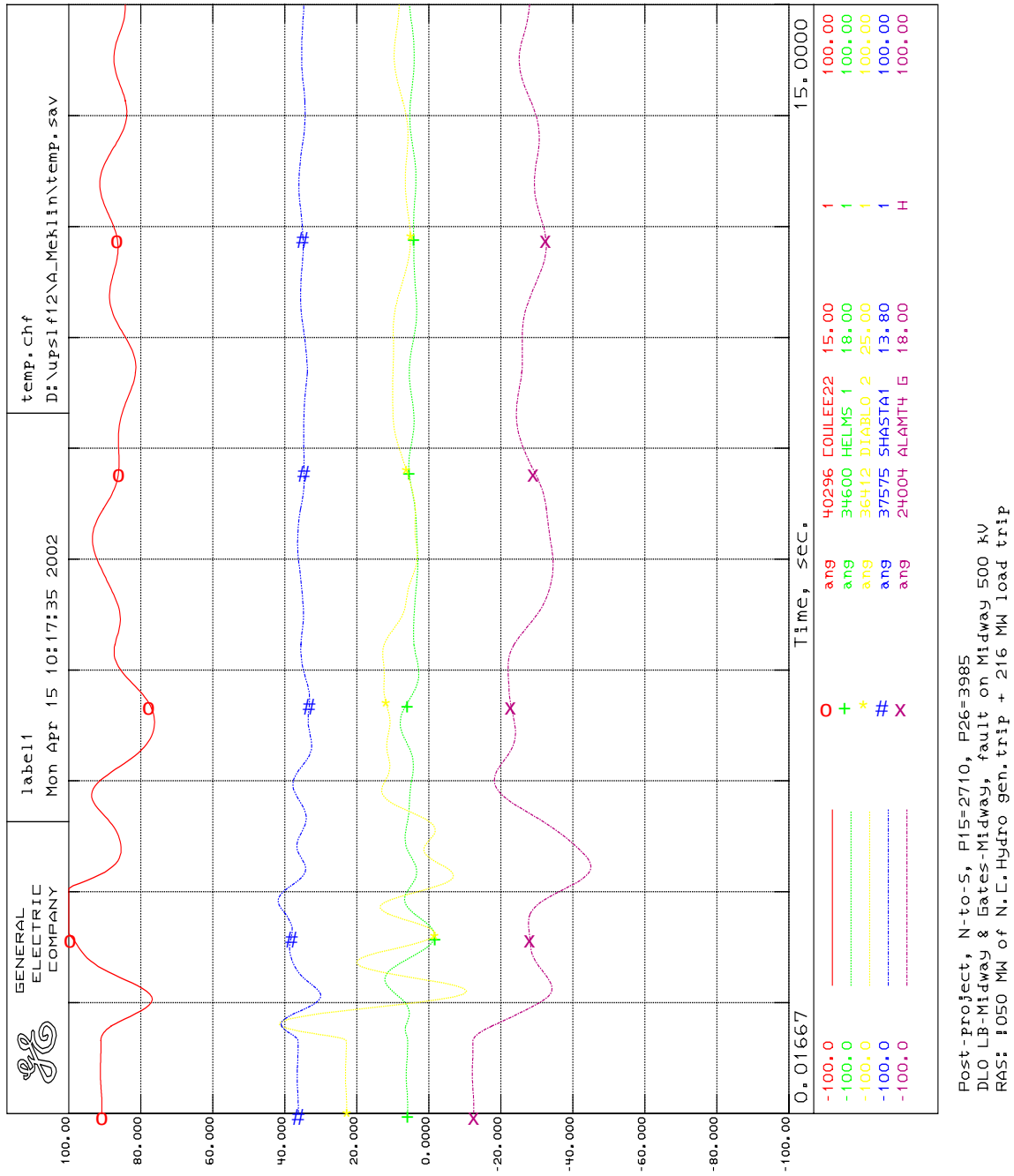

Figure 14. Los Banos – Midway and Gates – Midway DLO.
RAS: 1050 MW of N.C. Hydro gen. trip and 216 MW load trip.
Post-project. Angles.

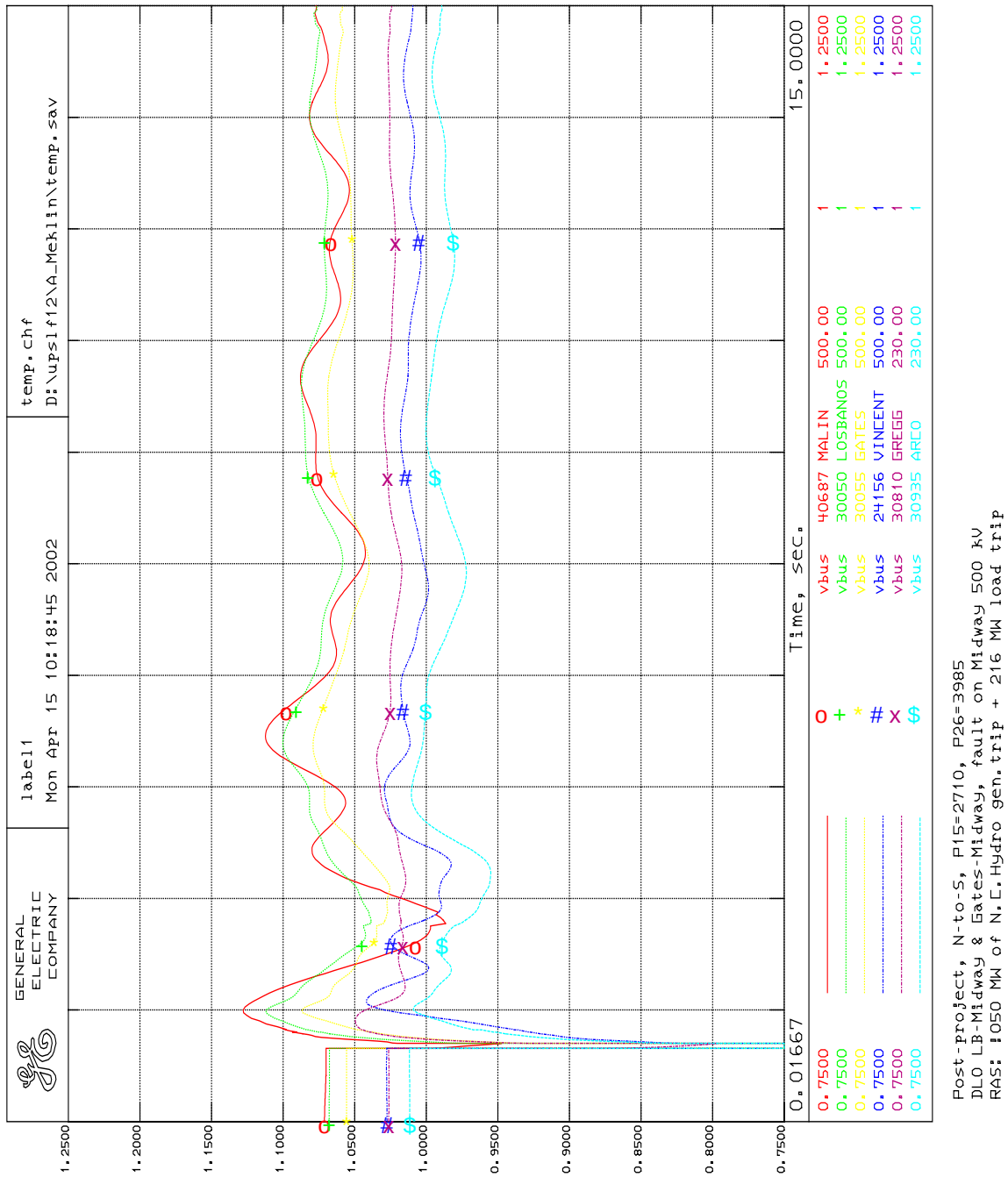

Figure 15. Los Banos – Midway and Gates – Midway DLO.
RAS: 1050 MW of N.C. Hydro gen. trip and 216 MW load trip.
Post-project. Angles.

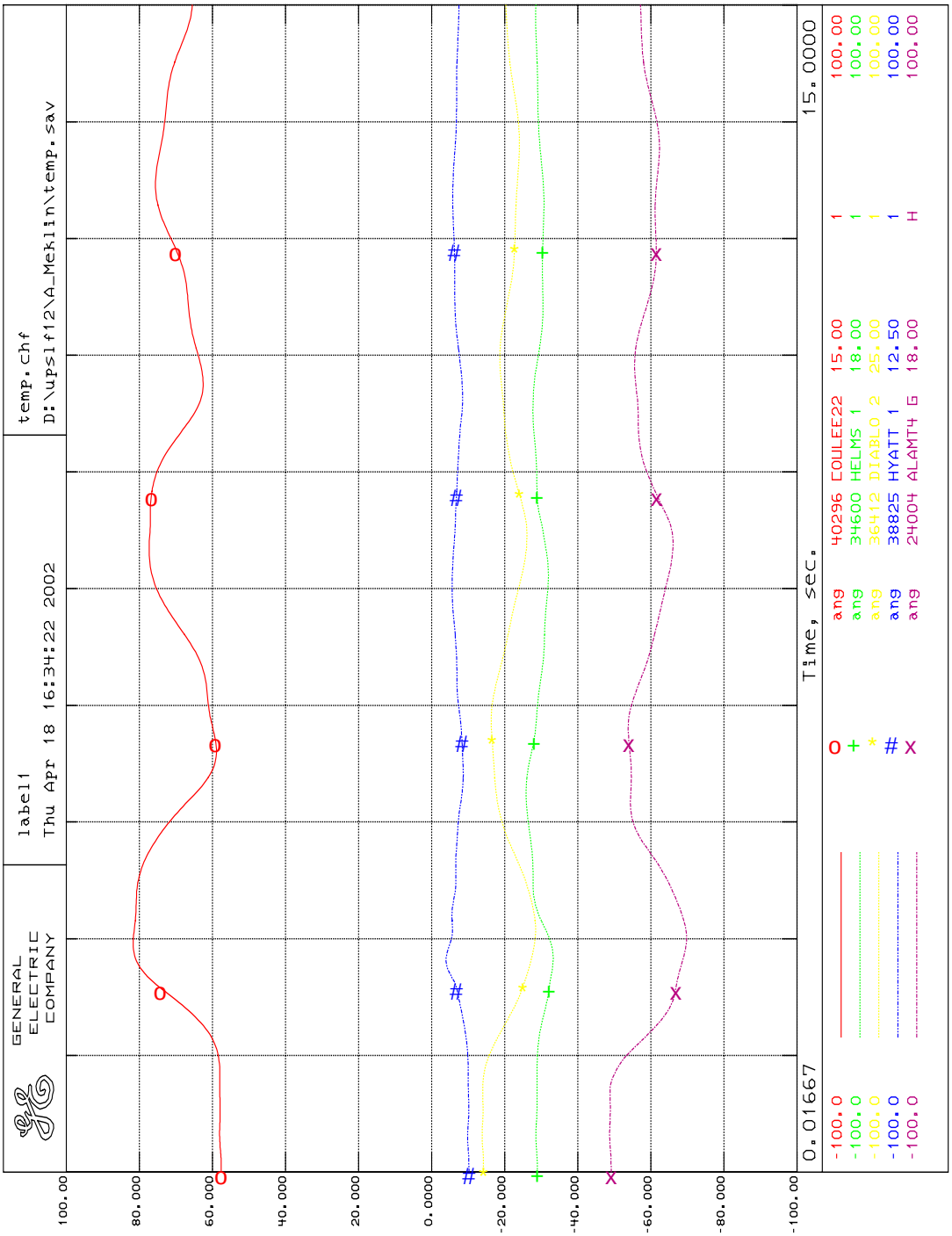

Figure 16. Palo Verde DLO. Post-project. Angles. 3265 MW on P15.

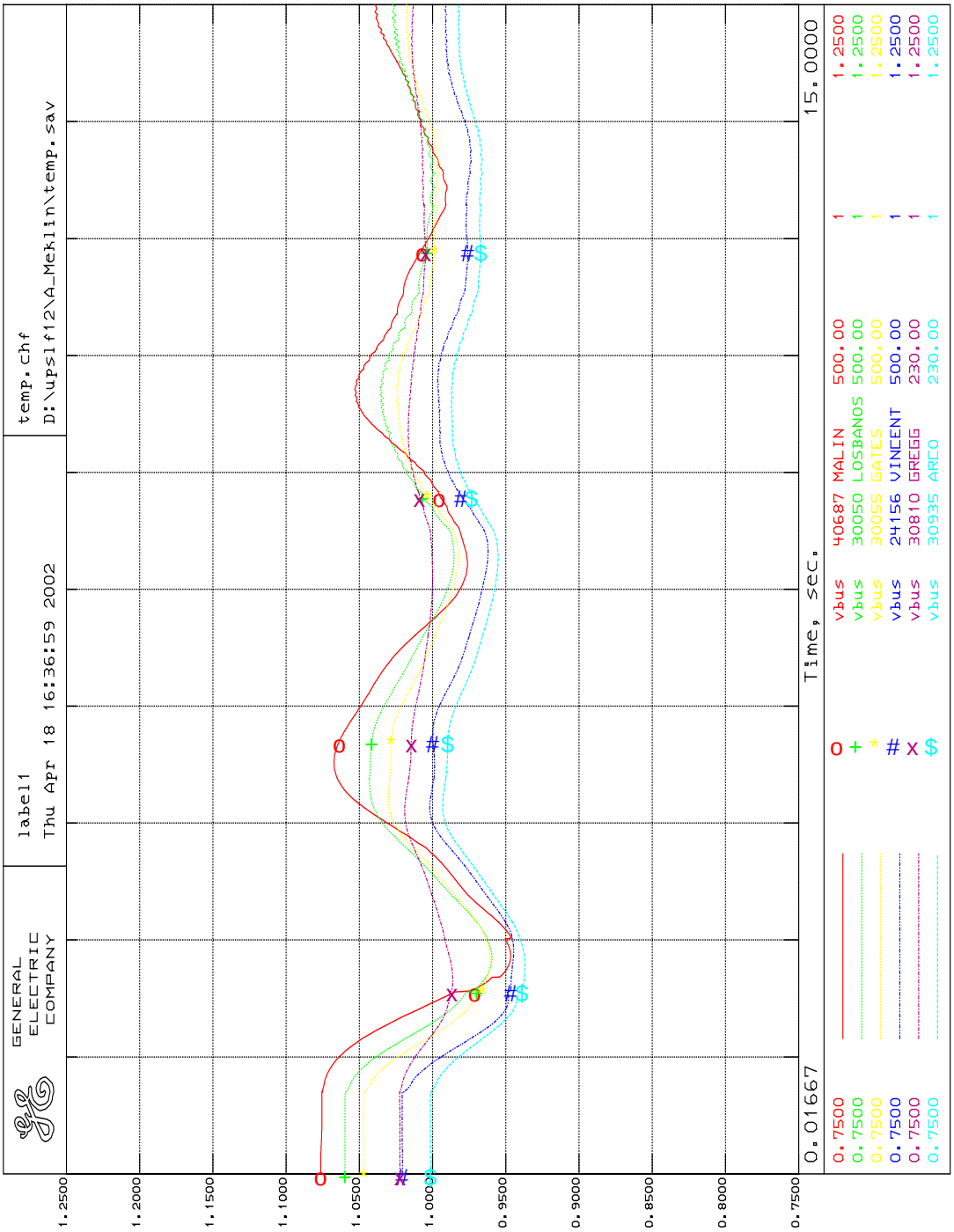

Figure 17. Palo Verde DLO. Post-project. Voltages. 3265 MW on P15.