

## PACIFIC GAS AND ELECTRIC COMPANY

PGE + 215 MARKET STREET • SAN FRANCISCO, CALIFORNIA 94106 • (415) 972-7000 • TWX 910-372-6587

February 13, 1989

Local Union No. 1245  
 International Brotherhood of  
 Electrical Workers, AFL-CIO  
 P.O. Box 4790  
 Walnut Creek, CA 94596

Attention: Mr. Jack McNally, Business Manager

Gentlemen:

Company proposes, pursuant to Section 109.2 of the Physical Agreement, to add Digital Electronics to the Apprentice Electrician Training Program in 19-24 months' step (attached). This course will be a 96 hours Academic Assignment. This program will also be offered on voluntary basis to Electrical Technician, Apprentice Electrical Technician, and Electrician. This program will enhance and update the skills of the Electrician, Electrical Technician and Apprentice Electrical Technician. This program is a review type program which will have open book exams.

If you are in accord with the foregoing and agree thereto, please so indicate in the space provided below and return one executed copy of this letter to the Company.

Very truly yours,

PACIFIC GAS AND ELECTRIC COMPANY

By Richard B. Bragg  
 Manager of Industrial Relations

The Union is in accord with the foregoing and it agrees thereto as of the date hereof.

LOCAL UNION NO. 1245, INTERNATIONAL  
 BROTHERHOOD OF ELECTRICAL WORKERS, AFL-CIO

March 14, 1989

By Jack McNally  
 Business Manager

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APPRENTICE ELECTRICIAN TRAINING PROGRAM

SCHEDULE

| ACADEMIC ASSIGNMENTS                               | 0-6 | 7-12 | 13-18 | 19-24 | 25-30 |
|--|-----|------|-------|-------|-------|
| 1. Basic Electricity Course -                      | 160 |      |       |       |       |
| 2. Basic Electronics Course -                      |     | 120  |       |       |       |
| 3. Relay and Vector Course -                       |     |      | 120   |       |       |
| 4. Digital Electronics                             |     |      |       | 96    |       |
| ON-THE-JOB ASSIGNMENTS                             |     |      |       |       |       |
| 1. Safety, First Aid, Resuscitation, etc.          | 8   | 8    | 8     | 8     | 8     |
| 2. Operating Procedures                            | 16  | 16   | 16    | 24    |       |
| 3. Job Orientation                                 | 8   | 8    | 12    |       |       |
| 4. Job Methods, Procedures and Techniques          | 12  | 12   |       | 36    |       |
| 5. Paper and Book Work                             | 16  | 12   | 30    |       |       |
| 6. Aerial Lifts                                    | 4   | 4    | 12    |       |       |
| 7. Fire Control Systems                            | 8   | 8    | 16    |       |       |
| 8. Batteries, D-C Power Supplies                   | 16  | 16   | 48    |       |       |
| 9. Other D-C Equipment                             | 8   | 8    | 24    |       |       |
| 10. Meters and Metering                            | 24  | 24   | 72    |       |       |
| 11. Cooling Systems: Air, Liquid or Fluid          | 8   | 8    |       | 16    |       |
| 12. Lubricating Systems                            | 8   | 8    |       | 24    |       |
| 13. Power Circuit Breakers: Oil, Air, Vacuum, etc. | 54  | 62   | 62    | 124   |       |
| 14. Transformers                                   | 48  | 54   | 54    | 100   |       |
| 15. Regulators and Regulating Transformers         | 38  | 46   | 54    | 72    |       |
| 16. Capacitors                                     | 10  | 10   | 10    | 16    |       |
| 17. A-C Rotating Equipment                         | 10  | 18   | 18    | 32    |       |

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| ON-THE-JOB ASSIGNMENTS (cont'd)   | 0-6 | 7-12 | 13-18 | 19-24 | 25-30 |
|---|-----|------|-------|-------|-------|
| 18. D-C Rotating Equipment  | 10  | 10   | 8     | 24    |       |
| 19. Alarms, Annunciators, Telemetry, Supervisory, etc.  | 8   | 8    | 8     | 24    |       |
| 20. Overhead Line Equipment   |     | 24   |       | 8     |       |
| 21. Pneumatics, Hydraulics, and Mechanics   | 8   | 8    | 8     | 8     |       |
| 22. Automatics: Transfer Schemes, Flip-Flop, Load Shedding, Reclosing, etc.                                     | 16  | 16   | 16    | 48    |       |
| 23. Construction and Erection<br>a. Conduit<br>b. Pipes<br>c. Iron Work<br>d. Other                             | 24  | 24   | 24    | 48    |       |
| 24. Wiring and Cabling: Indoor and Outdoor  | 24  | 24   | 24    | 48    |       |
| 25. Tools, Measuring Equipment, Test Equipment, etc.  | 24  | 24   | 24    | 50    |       |
| 26. Hot Washing, Wiping   | 8   | 8    | 8     | 12    |       |
| 27. Relays  |     | 48   |       |       | 24    |
| 28. Blueprints, Drawings, Sketches, Instruction Manuals, Standard Symbols, P. G. and E. Symbols, Drafting, etc. | 24  | 24   | 24    | 48    |       |
| 29. Air Switches: Automatic and Manual  | 16  | 16   | 16    | 24    | 24    |
| 30. Industrial Electronics  |     | 12   |       | 4     | 4     |
| 31. Communication Systems   |     | 12   |       | 12    |       |

GUIDE TO USE OF THE SCHEDULE

