



**Pacific Gas and
Electric Company**

LETTER AGREEMENT NO. 16-42-PGE

IBEW



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LABOR RELATIONS
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ROBERT JOGA
SENIOR DIRECTOR

INTERNATIONAL BROTHERHOOD OF
ELECTRICAL WORKERS, AFL-CIO
LOCAL UNION 1245, I.B.E.W.
P.O. BOX 2547
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TOM DALZELL
BUSINESS MANAGER

October 5, 2016

Mr. Tom Dalzell, Business Manager
Local Union No. 1245
International Brotherhood of
Electrical Workers, AFL-CIO
P.O. Box 2547
Vacaville, CA 95696

Dear Mr. Dalzell:

Field Meter Operations (FMO) has developed short and long term goals to transition the functional Meter Reading Department and integrate the remaining manual meter reading work to various classifications, (in accordance with current job definitions) using the FAS (Ventyx) system. These plans align with the progress made over the past several years to fully integrate SmartMeter™ technology and greatly minimize manual meter reading work. With the intent of completing a final transition of these work responsibilities, the Company proposes creating a Line of Progression for all existing employees in FMO (Electric Meter Department) that supports the future work requirements, systems and processes used to assign work, and creates opportunities for all employees to progress in their careers through the changes outlined below. This Agreement, with the revised Job Definitions and Lines of Progression (Attachment 2), cancels and supersedes Letter of Agreement R1-13-75-PGE, Electric Meter Department Job Definitions and Lines of Progression, Exhibit VI-L, Section No. 600.12.

1) Transition of Meter Reading Functions and Personnel

The Senior Meter Reader (50010474) and Meter Reader (50010475) classifications will be discontinued, and Letter of Agreement R1-00-40 (Exhibit XVII Meter Reader Agreement of the Physical Agreement) will be canceled. All existing regular status Senior Meter Readers and Meter Readers will be provided the following transitional options under this agreement:

Option A:

Existing Senior Meter Readers and Meter Readers will be provided an opportunity to elect voluntary severance as outlined in Attachment 1 of this agreement. Employees electing severance under this agreement will be placed in a Senior Routine Meter Person or Routine Meter Person classification, as defined in Option B below, until such time as an actual severance date has been determined by the Company based on business need. This agreement cancels and supersedes Letters of Agreements 08-19, 14-20, and 15-35.

Option B:

The parties agree to establish two new classifications within the Field Metering Line of Progression – Senior Routine Meter Person (PIO) (51922773) and Routine Meter Person (PIO) (51922774). These classifications will be established as “present incumbent only” (PIO) with the understanding that as manual meter reading continues to decline, these classifications will be

discontinued. Only incumbent regular status Senior Meter Readers will have the option to voluntarily transition to a Senior Routine Meter Person (PIO), and only incumbent regular status Meter Readers will have the option to voluntarily transition to a Routine Meter Person (PIO). Job duties for each position will be in accordance with Electric Meter Department JDLOP (Attachment 2) of this agreement. Employees who elect Option B will continue to retain severance options as outlined in Attachment 1 of this agreement.

The wage progression and wage rates of the Senior Routine Meter Person (PIO) and Routine Meter Person (PIO) will remain the same as the current Senior Meter Reader and Meter Reader classifications. Senior Meter Readers and Meter Readers electing to transition to these classifications will retain their current wage rate, and will be included in any applicable General Wage Increases.

Senior Routine Meter Person (PIO)	
Start	\$38.86
End 6 Mo	\$39.98

Routine Meter Person (PIO)	
Start	\$24.87
End 6 Mo	\$27.92
End 1 Yr	\$30.94
End 18 Mo	\$33.99
End 2 Yr	\$35.02
End 30 Mo	\$36.05

The Senior Routine Meter Person (PIO) and the Routine Meter Person (PIO) classifications will be established as beginner classifications and will have Priority One Status, in accordance with Section 205.5(b) of the Physical Agreement, to the Meter Maintenance Person and the CIP Inspector classifications.

The work schedules of Senior Routine Meter Persons and Routine Meter Persons will be consistent with other Field Metering employees at their assigned headquarters in accordance with Title 202 of the Physical Agreement.

Option C:

Senior Meter Readers and Meter Readers who are test qualified as of the signing of this letter will be offered a one-time opportunity to be voluntarily assigned to a Meter Maintenance Person position at locations identified by the Company based on work and resource needs. Those Senior Meter Readers and Meter Readers who are not test qualified as of the signing of this letter will be provided an opportunity to become test qualified and, if necessary, the test waiting period will be waived during the initial transition period; thereafter, the standard waiting periods for testing will apply for all future testing attempts. Senior Meter Readers and Meter Readers electing a Meter Maintenance Person position will have exercised their right to an employment opportunity and will no longer be eligible for severance under this agreement.

Option D:

Senior Meter Readers and Meter Readers will be offered a one-time opportunity to voluntarily be assigned to a CIP Inspector position at locations identified by the Company based on work and resource needs. Senior Meter Readers and Meter Readers electing a CIP Inspector position will have exercised their right to an employment opportunity as described in Attachment 1 and will no longer be eligible for severance under this agreement.

2) Hiring Hall Meter Readers

A new classification will be established, Hiring Hall Routine Meter Person. All incumbent Hiring Hall Meter Readers will be provided an opportunity to transition to a Hiring Hall Routine Meter Person classification, at their current Hiring Hall Meter Reader wage rate, at locations determined by the Company based on business need.

3) Meter Maintenance Person (50406798)

Employees currently holding the classification of Meter Maintenance Person (MMP) will be provided a one-time opportunity to voluntarily transfer, by seniority, to locations where the Company has established vacant MMP positions, prior to MMP vacancies being made available to Senior Meter Readers and Meter Readers under this agreement. Following the completion of these transitions, MMPs will have Priority One Status, in accordance with Section 205.5(b) of the Physical Agreement, to other Meter Maintenance Person vacancies and to the CIP Inspector classification.

The parties agree to eliminate the Meter Maintenance Person job definition Notes Nos. 7 & 8 under the Electric Meter Department JDLOP Exhibit VI-L, Section 600.12 (Attachment 2):

No.7: "Meter Maintenance Person vacancies will only be established in headquarters where a Metering Technician Crew Lead and/or Metering System Technician is assigned or established."

No. 8: "The compliment of Meter Maintenance Persons shall be limited to 80% of the department headcount positions for the following classifications: Apprentice Metering System Technicians, Apprentice Metering Electronics Technicians, Metering System Electronics Technicians, Metering System Technicians and Metering Technical Crew Leads I & II."

Letter of Agreement 14-31-PGE will be canceled, eliminating flextime schedules for MMPs when performing meter reading duties. MMP work schedules will be in accordance with Title 202 of the Physical Agreement.

4) Metering Technician Crew Leader I & II

The parties agree to eliminate the Metering Technician Crew Leader I (50010385) classification and revise the Metering Technician Crew Leader II (50010389) classification title to Metering Technician Crew Leader (50010389) as outlined in the Electric Meter Department JDLOP (Attachment 2). The wage progression and wage rates will remain the same as the current Metering Technician Crew Leader II classification and wage rate.

All incumbent employees holding the Metering Technician Crew Leader I classification will be assigned to the new Metering Technician Crew Leader classification and pay rate as soon as administratively possible. The effective date of applicable wage adjustments for incumbent employees in the Metering Technician Crew Leader I classification will be upon the execution of this agreement.

The Metering Technician Crew Leader will be an employee who is a Working Crew Lead in charge of two to ten employees, excluding him/herself, engaged in performing all types of metering work. Senior Routine Meter Persons and Routine Meter Persons, Regular and Hiring Hall status, will not be considered as part of the crew assigned to the Metering Technician Crew Leader classification.

The parties agree to establish a Joint Company and Union subcommittee that will be charged with creating a formal training program for the Metering Technician Crew Leader classification which will include leadership and technical criteria. Upon implementation of the formal training program, employees bidding into the Metering Technician Crew Leader position will be required to successfully pass the required training. Employees who are unsuccessful in meeting the criteria of the required

training will be returned to their base classification. Upon implementation of the training program, incumbent Metering Technician Crew Leaders will be required to complete the formal training program. The Joint Subcommittee will begin meeting no later than 60 days from the signing of this agreement. The training program, remediation guidelines and administrative procedures shall be subject to review and approval of the JATC.

5) CIP Inspector (50010372)

The CIP Inspector classification will be moved from the Customer Energy Efficiency Service (CES) Department (L/A 07-42-PGE) to the Electric Meter Department within Field Meter Operations (FMO). Manual meter reading will be added to the CIP Inspector job description as a shared duty. The wage rate and progression of CIP Inspectors will remain the same.

CIP Inspectors will be offered a one-time opportunity to voluntarily be assigned to vacant Meter Maintenance Person classifications. The locations of vacant MMP positions will be determined by the Company based on business need. Voluntary assignment of CIP Inspectors to the MMP vacancies will follow the voluntary assignment of incumbent Meter Maintenance Persons, Senior Routine Meter Persons and Routine Meter Persons to MMP vacancies under this agreement. At the conclusion of all voluntary assignments under this agreement, CIP Inspectors will have Priority One Status, in accordance with Section 205.5(b) of the Physical Agreement, to the Meter Maintenance Person classification and to other CIP Inspector positions. Additionally, CIP Inspectors will maintain their current Priority One Status to the Utility Gas Service Representative classification as outlined in Letter of Agreement 14-17-PGE.

6) Service Meterperson (50020303)

The Service Meterperson classification is obsolete and will be removed from the Electric Meter Department JDLOP (Attachment 2).

Except as agreed to herein, all other provisions of the collective bargaining agreement and supplements shall apply. Any unintentional omissions to the Electric Meter Department JDLOP, Exhibit VI-L, Section No. 600.12 (Attachment 2) will be discussed by the parties for inclusion in the proper classification. The parties agree to annually review ongoing business changes within FMO which may impact employees.

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

Very truly yours,

PACIFIC GAS & ELECTRIC COMPANY

By: 
Robert Joga
Senior Director

The Union is in agreement.

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

October 17th, 2016

By: 
Tom Dalzell
Business Manager

Severance and Transitional Benefits

In Letters of Agreement 05-66, 08-19, 14-20 and 15-35, the parties established a process for displacement and other transitional benefit provisions of IBEW-represented Physical Employees affected by the implementation of SmartMeter™. Letter of Agreement 16-42 extends the Title 206 displacement options and applicable transitional benefits from those agreements. All other provisions outlined in Letters of Agreement 05-66, 08-19, 14-20 and 15-35 will no longer be applicable. Employees who previously elected severance under Letter of Agreement 15-35 and who have not yet received a severance date will be required to confirm or revise their previous election under this agreement.

Employees who transition to a Senior Routine Meter Person (PIO) or Routine Meter Person (PIO) classification under Option B of this agreement who do not elect severance at this time will remain eligible for severance as outlined in this agreement upon future 206.2 notifications. Employees who accept transfers, bids or unrestricted appointments under Title 205 or through the Letter of Agreement 16-42 one-time offering to accept MMP or CIP Inspector positions will be considered to have exercised their rights under this agreement and will not be eligible for transitional benefits. .

206.2 Notice & Displacement Option Form

Employees subject to displacement will be provided a Section 206.2 Notice and a Displacement Option Form. Employees have seven calendar days to complete the form, indicating their preferences for the following options:

1. Layoff with Severance (includes Transitional Leave Benefits)
2. Change headquarters and replace a Hiring Hall Routine Meter Person employee.

Severance and Transitional Leave of Absence

EMPLOYEES will have their severance payment converted to a fully paid or, if necessary, a 50% partially paid leave of absence if doing so will enable them to reach the minimum retirement age of 55. The length of the leave of absence will be based on 100% or 50% funding of the severance payment. EMPLOYEES on a leave of absence at 50% of their pay will be required to pay 50% of the cost of their benefits. EMPLOYEES on a leave of absence at 100% of their pay will receive medical, dental, and vision benefits at the same rate as employees on full-time, regular status for plan purposes. EMPLOYEES on a leave of absence at 50% of their pay will receive medical, dental and vision benefits at the same rate as employees on part-time, regular status. EMPLOYEES may elect to cancel their medical, dental or vision coverage consistent with current plan provisions. In addition, EMPLOYEES on a 50% leave of absence will accrue half the service of a full-time employee during the period of their leave of absence. EMPLOYEES whose leave of absence is for a period less than their converted severance payment would provide will be paid for any unconverted portion of their severance when beginning the leave of absence. To obtain this benefit, EMPLOYEES must sign a severance agreement to that effect.

Enhanced Relocation Allowance

Provided all other requirements are met, the maximum reimbursement of reasonable moving expenses under Section 206.8 will be \$5,000. This additional allowance will be effective for Senior Routine Meter Person (PIO) and Routine Meter Person (PIO) following 206.2 notification of displacement for lack of work.

PACIFIC GAS AND ELECTRIC COMPANY

AND

IBEW, LOCAL UNION 1245

ELECTRIC METER DEPARTMENT

JOB DEFINITIONS AND LINES OF PROGRESSION

Exhibit VI-L, Section No. 600.12

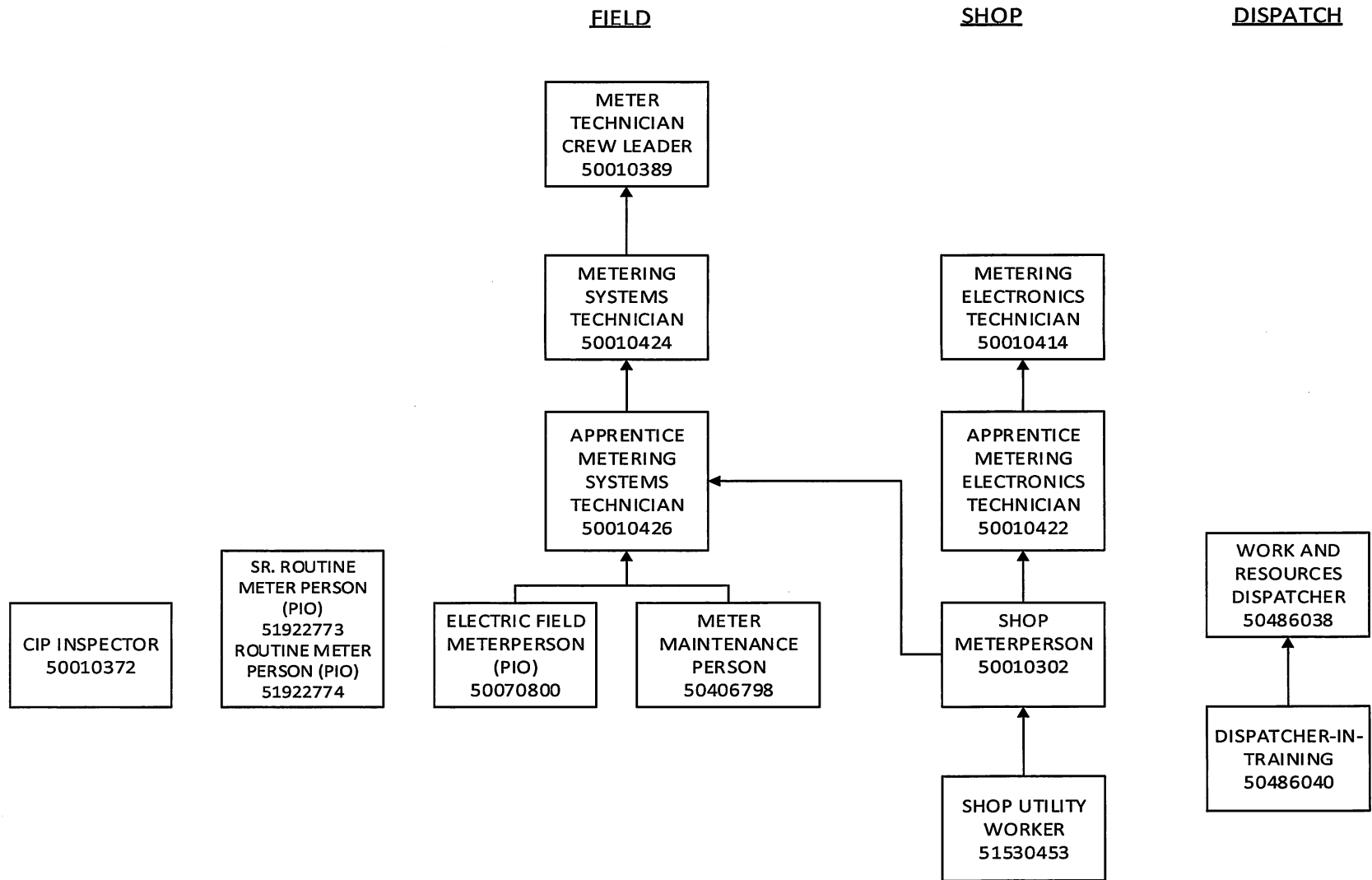
Updated *September 2016*
Replaces *L/A R1-13-75-PGE Dated January 2014*

New language appears in Italics

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ELECTRIC METER LINE OF PROGRESSION



For illustrative purposes only. See job descriptions for additional detail

ELECTRIC METER DEPARTMENT

JOB DEFINITIONS AND LINES OF PROGRESSION

METERING TECHNICIAN CREW LEADER **(50010389)**

An employee who is a Working Crew Lead in charge of two to *ten* employees excluding him/herself engaged in performing all types of metering work.

S/he shall have the personal qualifications of leadership and supervisory ability and the craft qualifications of a Metering Systems Technician and be familiar with work standards, procedures, accounting practices and safety rules.

Employees bidding to the Metering Technician Crew Leader classification will be required to successfully complete a jointly developed training program consisting of technical and leadership criteria (to be established by a Joint IBEW and Company Subcommittee).

SAP Job Code	Next Lower Classifications
50010424	Metering Systems Technician
50010425	Metering Systems Technician - UN

SAP Job Code	Same or Higher Classifications
50010389	<i>Metering Technician Crew Leader</i>

METERING SYSTEMS TECHNICIAN **(50010424)**

An employee who has successfully completed an approved apprenticeship program and without direct supervision, performs the following: install, program, test, calibrate, troubleshoot and repair all types of electric/electronic circuits, components and devices related to billing measurement. (May also perform measurement for other business applications.) Performs and/or assists in the analysis of measurement devices.

Install, troubleshoot, program, and operate power quality test equipment, conduct power and load surveys on customer premises and collect data from measurement devices. Operate all test equipment, solid state devices and computer systems necessary to perform the work described above.

Prepare and maintain all records associated with these functions, utilize prints, diagrams and schematics, and provide technical direction/assistance to others. Pre-approves meter/service plans and inspects facilities and installations for compliance with Company Standards and Governmental Regulations.

Maintains a high standard of employee and public safety, public relations and personal appearance.

This classification requires a Class C driver's license.

SAP Job Code	Next Lower Classifications
50010426	Appr. Metering Systems Tech.

SAP Job Code	Same or Higher Classifications
50010389	Metering Tech Crew Leader
50010414	Metering Electronics Tech.
50072967	Metering Electronics Tech. - UN
50010424	Metering Systems Technician
50010425	Metering Systems Technician - UN

Note: Metering Electronics Technicians who are successful bidders will be required to fulfill one of the following:

- a) Previously held Metering Systems Technician classification
- b) Previously had 18 months of on-the-job training as a Metering Systems Technician within the preceding 24 months.
- c) Complete 18 months of on-the-job training in the Metering Systems Technician classification.

APPRENTICE METERING SYSTEMS TECHNICIAN
(50010426)

An employee enrolled in the apprenticeship program and engaged in performing Metering Systems Technician work as an assistant to or under the general direction of a technician. To gain experience for advancement to Metering Systems Technician, an apprentice may work alone or under indirect supervision on jobs for which the employee has been trained and demonstrated proficiency. The employee's educational and general qualifications must be such that the employee is considered capable of attaining technician status.

SAP Job Code	Next Lower Classifications
50010302	Shop Meterperson*
50070800	Electric Field Meterperson (PIO)
50406798	Meter Maintenance Person**

SAP Job Code	Same or Higher Classifications
50010426	Apprentice Metering Systems Tech

*Placement from the Shop Meterperson into the Apprentice Metering Systems Technician classification will be in accordance with the following schedule:

Shop Meterperson
End 6 months
End 1 year
End 18 months

Apprentice Meter Sys Technician
Start
End 6 months
End 1 year

Employee so placed will be required to complete the required Apprentice Metering Systems Technician Academic Training Program up to that wage step.

**Meter Maintenance Persons with six months in line of progression will progress to first step of training program. (LA 13-09)

Note: An additional test has been established by written agreement between Company and Union under provisions of Section 205.11. A bidder must have successfully passed the test with a score of at least 70 points or have a request on file to take the test to receive consideration for a current vacancy. An employee who submits a request to take an entrance exam will be prepared to take the test immediately and the Company will administer the test as soon as possible and no longer than 2 weeks after receiving the request. (Letter of Agreement 02-21, pages 19-20)

METERING ELECTRONICS TECHNICIAN
(50010414)

An employee who is permanently assigned to and normally works in a system meter test and repair facility without direct supervision and regularly performs product analysis, testing, calibrating and repair of electronic circuits and components related to metering equipment and associated systems. The background of training and experience must be such as to qualify the employee to perform these duties with skill and efficiency.

SAP Job Code	Next Lower Classifications
50010422	Appr. Metering Electronics Technician

SAP Job Code	Same or Higher Classifications
50010389	<i>Metering Technician Crew Leader</i>
50010414	Metering Electronics Tech.
50072967	Metering Electronics Tech. - UN
50010424	Metering Systems Technician
50010425	Metering Systems Technician - UN

Notes:

1. A test and study guide have been established by written agreement between Company and Union (LA 86-78-PGE, Page 13) under the provisions of Section 205.11. The successful bidder, applicant, or new hire shall be required to pass the test. A total score of 70 percent is necessary to meet this test requirement. This test will only apply in the event that there are no qualified bidders from the established line of progression for this position.
2. Metering Systems Technicians who are successful bidders will be required to fulfill one of the following:
 - A. Previously held Metering Electronic Technician classifications, or
 - B. Previously had 9 months of on-the-job training as a Metering Electronic Technician.
 - C. Complete 9 months of on-the-job training in the Metering Electronics Technician classification.

APPRENTICE METERING ELECTRONICS TECHNICIAN
(50010422)

An employee engaged in performing Metering Electronics Technician's work as an assistant to or under the general direction of a technician. To gain experience for advancement to Metering Electronics Technician, an apprentice may work alone or under indirect supervision on jobs for which the employee has been trained and instructed. The employee's educational and general qualifications must be such that the employee is considered capable of attaining technician status.

SAP Job Code	Next Lower Classifications
50010302	Shop Meterperson*
50406798	Meter Maintenance Person

SAP Job Code	Same or Higher Classifications
50010422	Apprentice Metering Electronics Technician
50010389	<i>Metering Tech Crew Leader</i>
50010424	Metering Systems Technician
50010425	Metering Systems Technician - UN

A *Meter Technician Crew Leader*, Metering Systems Technician or Shop Meterperson who is the successful bidder on a vacancy in the Apprentice Metering Electronics Technician classification will be placed at the wage rate step applicable at the end of 18 months. Such employee will not have subsequent bids on Metering Electronics Technician vacancies considered under Subsection 205.7(b) until the employee has accrued 18 months' classification seniority as an Apprentice Metering Electronics Technician. In addition, the employee will not be considered for automatic progression to Unassigned Metering Electronics Technician under the provisions of the Master Apprenticeship Agreement until the employee has accrued 24 months' classification seniority as an Apprentice Metering Electronics Technician.

Note: An apprentice entrance exam and comprehensive study guide have been established by written agreement between Company and Union (LA 02-21, Pages 19-20) under the provisions of Section 205.11.

SHOP METERPERSON
(50010302)

An employee who is regularly assigned to work at a System Test and Repair Facility and who tests, calibrates and performs repairs on all types of electric meters and associated equipment in the facility. Works as an assistant to Metering Electronics Technician when required.

Requires a Class C driver's license and qualifying on the Physical Test Battery and Industrial Skills Test (IST).

Note: LA 97-99 (Pages 14-16) and LA 04-51

SAP Job Code	Next Lower Classifications
51530453	Shop Utility Worker

SAP Job Code	Same or Higher Classifications
50010302	Shop Meterperson
50010389	<i>Metering Technician Crew Leader</i>
50010424	Metering Systems Technician
50010425	Metering Systems Technician - UN
50010426	Apprentice Metering Systems Technician

SHOP UTILITY WORKER
(51530453)

An employee who assists in electric sorting and meter cleaning work; service and meter testing work, and prepares and handles tools, materials and paperwork.

SAP Job Code	Same or Higher Classifications
50010302	Shop Meterperson

BEGINNER'S CLASSIFICATION

ELECTRIC FIELD METERPERSON (PIO)
(50070800)

An employee who performs the following duties for which the employee has been trained and is qualified: On 240 volt and below self-contained single-phase meters; tests, installs, maintains, programs, replaces batteries, investigates high bill complaints, investigates broken seals, diversion, meter tampering, vandalism, lost meters and other instances of energy theft. Collects data and verifies meter information. Cannot work on any exposed three-phase equipment, or expose any three-phase equipment. Under direct supervision, may assist a Meter Systems Technician in installing and removing non-energized transformer rated services, cannot terminate wires. Assists the Meter Systems Technician, performs necessary paperwork and shop duties.

Notes:

- 1 The classification requires successful completion of the Physical Test Battery (PTB) and the Industrial Skills Test (IST)
2. This classification requires a Class C driver's license.
3. This position is a next lower classification to the Apprentice Metering Systems Technician (2433).

The current employees within the Electric Field Meterperson classification, as of the signature date of Letter of Agreement (LA 11-29, signed 8/1/11), will have an automatic progression to Apprentice Metering Systems Technician upon completion of 12 months in the classification and successfully meeting all necessary contractual qualifications. Following successful completion of those requirements and as soon as administratively possible, these incumbents will be progressed to the end of six months wage step. The Electric Field Meterperson shall be deemed Present Incumbent Only (PIO).

BEGINNER'S CLASSIFICATION

METER MAINTENANCE PERSON
(50406798)

1. Job Definitions and Line of Progression

- a) Install, maintain, read, program/re-program, upgrade and replace/change: gas modules and single-phase, self-contained electric meters (maximum 240 volt, 200 amp, socket meters without bypass), and replace batteries in single phase electric meters.
- b) May only verify meter connectivity to the testing device and only verify meter communication with other devices on the network by using a limited FSU with just those commands necessary to perform the duties on the population of meters the Meter Maintenance Person is allowed to maintain. Under no circumstances shall the Meter Maintenance Person perform any repairs or remediation of electric SSN meters or electric SSN network systems other than the limited duties noted above.
- c) Identify broken seals, diversion, meter tampering, vandalism, lost meters and other instances of energy theft.
- d) Collects and verifies meter/module information.
- e) Conduct Connect/Disconnect switch resets. Turns meter and module radios on and off.
- f) Turn off and Shut-Off Non Pay (SONP) residential gas and electric single-phase, self-contained meters; electric turn ons and Restore Lock Non Pay (RLNP).
- g) Trace-out electric meters (using circuit breakers only).
- h) Assists others in Metering work, performs necessary paperwork and shop duties. If necessary, may perform meter reads on any gas or electric meter.

Notes:

- 1. Electric Meter duties independently performed will be limited to single-phase, self-contained electric meters rated at 240 volt, 200 amp or below.
- 2. Classification requires a Class C driver's license.
- 3. Position entry requires successfully passing the Company's Physical Aptitude Tests including the Industrial Skills Test.
- 4. This position is covered by Department of Transportation requirements as outlined in applicable Letters of Agreement, and all provisions that apply under the Pipeline Safety Program, including pre-duty testing.
- 5. This position will have Line of Progression rights to Apprentice Metering Systems/Electronics Technician.
- 6. The parties agree that Home Area Network (HAN) duties will be the responsibility of this classification with respect to functions they are trained to perform, and agree to meet to discuss any future customer needs that may require alternate scheduling options.
- 7. Except for the Meter Maintenance Person, other classifications within the department shall not perform the Gas-related work described herein.
- 8. The parties agree to update the apprenticeship programs as necessary.
- 9. *Meter Maintenance Persons shall have Priority One Status to other MMP vacancies and the CIP Inspector classification in accordance with Section 205.5(b)*

BEGINNER'S CLASSIFICATION

SAP Job Code	Next Lower Classifications
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SAP Job Code	Same or Higher Classifications
50070800	Electric Field Meterperson (PIO)
50010426	Apprentice Metering Systems Technician
50010422	Apprentice Metering Electronics Technician
50010302	Shop Meterperson

Training Program

This classification requires successful completion of a jointly developed training program (to be established under the direction of the Company and IBEW Joint Apprenticeship Training Committee (JATC). New entrants must pass the applicable tests at the end of the training and complete field training/observation work. Two attempts will be allowed to pass the test.

Performance Standards

Upon completion of six months/1,000 hours of on-the-job experience, must achieve agreed-upon performance standards associated with Quality Audits and Operational Effectiveness.

SENIOR ROUTINE METER PERSON (PIO)
(51922773)

A Senior Routine Meter Person is a PIO classification that performs all job duties of a Routine Meter Person and, in addition, will temporarily continue to perform meter reading scheduling and case work until this work is fully transitioned. May perform other related bargaining unit work as assigned. The Routine Meter Person shall be deemed Present Incumbent Only (PIO).

Senior Routine Meter Persons will have Priority One Status, in accordance with Section 205.5(b) of the Physical Agreement, to the Meter Maintenance Person and CIP Inspector classifications.

BEGINNER'S CLASSIFICATION

ROUTINE METER PERSON (PIO)
(51922774)

A Routine Meter Person is a PIO classification that is assigned to perform manual monthly meter reading work in the field. Work includes significant time spent driving in various conditions and accessing meter locations in order to accurately obtain meter reads and verify other pertinent meter information. Responsibilities include reporting field conditions, entering accurate instructions and directions for safe access, recording Global Positioning System (GPS) coordinates, location and hazard codes. When necessary, meter seals or stickers will be replaced. The Routine Meter Person shall be deemed Present Incumbent Only (PIO).

Routine Meter Persons will have Priority One Status, in accordance with Section 205.5(b) of the Physical Agreement, to the Meter Maintenance Person and CIP Inspector classifications.

BEGINNER'S CLASSIFICATION

CIP INSPECTOR
(50010372)

An employee who is responsible for the inspection of weatherization work installed under PG&E-administered Energy Efficiency programs by contractors. In addition, this employee is responsible for implementing the Heating Appliance Repair and Replacement (R&R) program.

The employee will safely perform initial and follow-up inspections of Energy Efficiency Measures installed by PG&E and ensure the billed measures are present, safely installed to program standards, and were feasible.

Employee will be required to use phone and/or site visits to schedule inspections and to route work to ensure customer convenience and employee efficiency. Monitor and track overtime and travel time. Determine the most economical and efficient methods to handle peak and non-peak workloads.

Ensure inspection paperwork, including measure quantities, "on-site" time frames, and comment(s) are complete, accurate, and legible. Data entry work of that paperwork is to be completed accurately and within allotted time frames.

Ensure that time cards and expense reporting are completed accurately and submitted timely.

Handle all customer complaints. Investigate complaint as needed, then resolve or elevate to the proper authority. Follow-up to ensure resolution was achieved. Respond to customer phone, e-mail, and mail inquiries or concerns.

Respond to PG&E Program Manager concerns and requests such as high profile inspections, suspected fraud cases, short notice inspections, and customer complaints.

Perform R&R work including Natural Gas Appliance Testing (NGAT) inspections. Ensure that customers, their homes, and appliances meet program guidelines. Ensure that all field paperwork is completely and accurately filled out. Coordinate R&R process with Heating, Ventilation and Air Conditioning (HVAC) contractor, customer, weatherization contractor, and local building officials.

May be assigned manual meter reads as required.

May be required to light pilots in conjunction with their work

Must have combustion appliance knowledge, Energy Efficiency programs knowledge, and excellent customer and contractor relations, be physically able to lift extension ladder, and physically able to crawl in attics and under houses, **on roofs**, and have the ability to assess and appropriately respond to hazardous situations.

Training Requirements:

1. Employee must pass one-week NGAT training session, which includes a written and lab test.
2. Employee must pass one-week weatherization training session that includes a written and lab test.
3. Employee must pass pilot light training.

CIP Inspector is a beginning classification *and will have Priority One Status, in accordance with Section 205.5(b) of the Physical Agreement, to the Meter Maintenance Person and the Utility Gas Service Representative classifications. Additionally, CIP Inspectors will have Priority One Status to other CIP Inspector vacancies.* Current CIP Inspectors will not be considered a beginning level classification for purposes of displacement.

Pre-employment qualifications test to enter the classification is the Physical Test Battery.

Wages

2016 Wage Rate:	Start:	\$ 26.73
	End six months	\$ 29.96
	End 1 Yr.	\$ 36.24*

BEGINNER'S CLASSIFICATION

***Employees at the End 1 yr step are not considered as in a Beginning classification.**

SAP Job Code	Next Lower Classifications
-----------------------------	---------------------------------------

SAP Job Code	Same or Higher Classifications
50010372	CIP Inspector

WORK & RESOURCE DISPATCHER – Metering (Relief)
(50486038) (50486039)

A service employee who receives and dispatches operation tags and/or assists employees with issues encountered in the course of their day's work in the service, construction and design workgroups. Optimizes schedules through technology to accommodate changes in employee availability and manages current workload commitments so that the priority of public safety and customer commitments are met. Shall have a comprehensive knowledge of Company's Customer Service Policies. Shall be familiar with the Company's gas and electric distribution systems. Will be required to generate pre-defined daily, weekly and monthly operational and performance reports. May be required to contact customers or outside public agencies regarding service issues.

Job Requirements

- Be responsible for managing same day, short-term, and long-term operation tags.
- Be proficient in working with dispatch technology in distributing work to field personnel.
- Ensures that emergency and priority customer work is dispatched expeditiously in accordance with emergency policies and Quality Assurance Standards (QAS).
- Respond promptly to call out procedures and emergency duties during major events or storms
- Ensures that all compliance and company generated work is dispatched as scheduled.
- Actively manage and monitor work completion in real time to ensure customer and company commitments are met.
- Manage work that may interrupt preset daily schedules (emergency, same day and field condition).
- Partner with Work and Resource Scheduler on issues regarding scheduling and completion issues.
- Adhere to all safety regulations and policies.
- Be proficient in customer and employee communication techniques and technology (phone, radio, computer and written).
- Performs duties and associated clerical tasks as assigned.
- Available to perform work in varied shift assignment
- Be proficient in handling multiple tasks and priorities simultaneously

Notes:

1. Relief positions will be offered to the senior Work & Resource Dispatcher-Metering on a voluntary basis. For the initial staffing of Relief Dispatcher positions in Concord, incumbent Relief Dispatchers from Fresno and Concord will be offered the Relief positions in order of years of service.
2. This position is covered by Department of Transportation requirements as outlined in applicable Letters of Agreement, and all provisions that apply under the Pipeline Safety Program, including pre-duty testing.
3. The residency requirement in Section 3.5 of the Agreement shall not apply to this classification.

Entry Test Requirements:

Clerical Test Battery (CTB)

Notes:

The CTB requirement will be waived for bidders in the Line of Progression for Work & Resource Dispatcher-Metering who have already qualified on the PTB.

Line of Progression

SAP Job Code	Next Lower Classifications	SAP Job Code	Same or Higher Classifications
50486040	Dispatcher-in-Training - Metering	50486038	Work & Resource Dispatcher - Metering
50073353	Dispatcher-in-Training - Gas	50486039	Work & Resource Dispatcher - Metering - Relief
50406798	Meter Maintenance Person	50073351	Work & Resource Dispatcher - Gas
		50073352	Work & Resource Dispatcher - Gas - Relief
		50442772	Work & Resource Dispatcher - Electric
		50442774	Work & Resource Dispatcher - Electric - Relief
		50010373	Gas Service Representative
		50010293	Service Mechanic

Bidding Qualifications: Bidders into the Work & Resource Dispatcher - Metering position, will be awarded the position on a conditional basis, contingent upon successfully completing a three-week training. While completing this three-week program, the bidder's base position will be held. Should the bidder applicant fail the three-week program, they will be returned to their base classification.

DISPATCHER-IN-TRAINING – Metering (50486040)

An employee who has completed the Dispatcher Qualification School and is in training to become a Work & Resource Dispatcher-Metering or Work & Resource Relief Dispatcher- Metering. Upon completion of six months of formal classroom and on-the-job training, the Dispatcher-in-Training (DIT) will progress to the Work & Resource Dispatcher – Metering or the Relief Work & Resource Dispatcher – Metering.

BEGINNER'S CLASSIFICATION

Dispatcher-in-Training will be trained to fulfill the following job description/requirements:

A service employee who receives and dispatches operation tags and/or assists employees with issues encountered in the course of their day's work in the service, construction and design workgroups. Optimizes schedules through technology to accommodate changes in employee availability and manages current workload commitments so that the priority of public safety and customer commitments are met. Shall have a comprehensive knowledge of Company's Customer Service Policies. Shall be familiar with the Company's gas and electric distribution systems. Will be required to generate pre-defined daily, weekly and monthly operational and performance reports. May be required to contact customers or outside public agencies regarding service issues.

Job Requirements

- Be responsible for managing same day, short-term, and long-term operation tags.
- Be proficient in working with dispatch technology in distributing work to field personnel.
- Ensures that emergency and priority customer work is dispatched expeditiously in accordance with emergency policies and Quality Assurance Standards (QAS).
- Respond promptly to call out procedures and emergency duties during major events or storms
- Ensures that all compliance and company generated work is dispatched as scheduled.

- Actively manage and monitor work completion in real time to ensure customer and company commitments are met.
- Manage work that may interrupt preset daily schedules (emergency, same day and field condition).
- Partner with Work and Resource Scheduler on issues regarding scheduling and completion issues.
- Adhere to all safety regulations and policies.
- Be proficient in customer and employee communication techniques and technology (phone, radio, computer and written).
- Performs duties and associated clerical tasks as assigned.
- Available to perform work in varied shift assignment
- Be proficient in handling multiple tasks and priorities simultaneously

Notes:

1. This position is covered by Department of Transportation requirements as outlined in applicable Letters of Agreement, and all provisions that apply under the Pipeline Safety Program, including pre-duty testing.
2. The residency requirement in Section 3.5 of the Agreement shall not apply to this classification.

Transfer Qualifications: Transfers into the Work & Resource DIT – Metering position will be awarded the position on a conditional basis, contingent upon successfully completing a three-week training. While completing this three-week program, the transfer's base position will be held. Should the transfer applicant fail the three-week program, they will be returned to their base classification.

DIT Training Program: As in Letter of Agreement 08-38, the DIT Proficiency Evaluation will be utilized to determine progression to the Work & Resource Dispatcher classifications. A Work & Resource DIT – Metering who has fulfilled the requirements and has become proficient in all areas of the DIT Proficiency Evaluation may be accelerated to the Work & Resources Dispatcher classification prior to the designated time frame with prior notification to the Union. A Work & Resources DIT who is not progressing and has not become proficient within the designated time frame or wishes to be removed from the Work & Resources DIT program will be displaced from the program per Section 206.15 of the Physical Agreement with prior written notification to the Union.

Wages: Upon successful completion of the formal and on-the-job training, the Dispatcher-in-Training will progress to the Work & Resource Dispatcher or the Relief Work & Resource Dispatcher at the starting rate of pay.

**STUDY GUIDE FOR
METERING ELECTRONICS TECHNICIAN
QUALIFYING TEST
(LA 86-78PGE)**

ABOUT THE TEST

- 60 questions
- percent correct overall required to pass with no less than 60 percent correct in any category
- A maximum of three hours will be allowed to complete the test
- The questions will be selected from the categories according to the following:

AC-DC Theory	10 questions
Electronic components	10 questions
Electronic circuits	30 questions
Test and troubleshooting	10 questions

MATERIAL COVERED IN THE TEST

- I. AC-DC Theory (Circuit analysis, quantitative relationships, calculations, recognition)
 - DC circuits
 - Single phase AC circuits
 - Poly phase AC circuits
 - Series and parallel RCL circuits
- II. Electronic Components (Characteristics, types, ratings, connections, families)
 - Resistors, capacitors and inductors Transformers
 - Batteries
 - Bipolar devices
 - IC devices
- III. Electronic Circuits (Circuit analysis, recognition, characteristics, connections, functions)
 - Oscillators
 - Amplifiers
 - Miscellaneous circuits
 - Power supplies
 - Pulse circuits
 - Counters
 - Registers and adders
 - Logic
 - Microprocessors
- IV. Test and Troubleshooting (Circuits and components, repair practices, use of test equipment)
 - General
 - Grounding
 - Components
 - Circuits
 - Logic
 - Test equipment

**LETTER AGREEMENT
97-99-PGE**

July 17, 1997

Local Union No. 1245
International Brotherhood of
Electrical Workers, AFL-CIO
P.O. Box 4790
Walnut Creek, CA 94598

Attention: Mr. Jack McNally, Business Manager

Dear Mr. McNally:

As you know the Company and Union agreed in January 1996, to replace the Apprentice Meterperson, Sr. Meterperson, and Electric Crew Leader classifications with Apprentice Metering Systems Technician, Metering Systems Technician, and Metering Technician Crew Leader respectively.

As a result of work being done in the 94-53 Committee - Electric Metering and the changes referenced above, Company proposes to revise the Shop Meterperson classification, job definitions and lines of progression.

This letter agreement cancels and supersedes Letter Agreement 89-28.

1. Job Definition and Line of Progression

The proposed job definitions, line of progression, and proposed wage rates are as follows:

1489 Shop Meterperson

An employee who is regularly assigned to work at a System Test and Repair Facility and who tests, calibrates and performs repairs on all types of electric meters and associated equipment. Works as an assistant to Metering Technician when required.

The classification requires a Class C driver's license and passing the ACT.

Next Lower Classification
0924 Utility Worker

Same or Higher Classification
1489 Shop Meterperson
1490 Service Meterperson
2364 Metering Technician Crew Leader
2431 Metering Systems Technician
2432 Un Metering System Technician
2433 Apprentice Metering Technician

Proposed Rate Schedule

1489 Shop Meterperson	<u>8/1/97</u>	<u>1/1/98</u>	<u>1/1/99</u>
Start	815.40	841.90	871.37
End of 6 months	833.20	860.28	890.39
End of 12 months	885.75	914.53	946.54
End of 18 months	938.85	969.36	1003.29

The classification of Shop Meterperson PIO (1485 and Un 1486) will be eliminated.

2. Impact on the Current Workforce

- A. *Employees currently holding the Shop Meterperson classification will be placed effective August 1, 1997 in the new wage schedule according to their current wage and step.*

3. Training Program

- A. *The existing Shop Meterperson Training Program, as described in Exhibit VI-L, Section 600.12, dated 4/12/94, will be discontinued immediately.*
- B. *Shop Meterpersons will be offered the opportunity complete the following academic training in the period indicated:*
- | | |
|--------------------------------|--------------------------|
| <i>Basic Electricity</i> | <i>0-6 month step</i> |
| <i>Basic Electric Metering</i> | <i>7-12 month step</i> |
| <i>Basic Electronics</i> | <i>13-18 month step.</i> |
- C. *Shop Meterpersons will be allowed one opportunity to complete the academic training referenced in Paragraph 3B. In addition, Shop Meterpersons will not be allowed to complete subsequent academic training unless they successfully complete the prior academic training.*
- D. *Shop Meterpersons who do not successfully complete the academic training may retake the tests in accordance with the following:*
- i Shall be allowed to retake the test upon an employee's request any time after one month's time from an employee's failure. Shall be allowed two additional retests, spaced at lease one month apart.*
 - ii Shall pass the agreed-upon test not later than the end of an employee's ninth month of training, regardless of the number of retests that an employee has requested. Failure to meet this standard of achievement will be cause of an employee's removal from the classification in accordance with Paragraph G 6 of the Master Apprenticeship Agreement.*
 - iii Progression to the second step of the classification shall be in accordance with Paragraph G 3 and 4 of the Master Apprenticeship Agreement.*
- E. *Employees holding the Shop Meterperson classification who have successfully completed the academic training described in Paragraph 3A and are successful bidders to the Apprentice Metering Systems Technician classification will be placed at the 6 month step.*
- F. *In accordance with Apprenticeship Committee Decision 96-40, employees holding the Shop Meterperson classification as of October 10, 1996 who are successful bidders to the Apprentice Metering System Technician vacancies are not required to take and pass the pre-qualifying test. (This paragraph modified per LA 97-124).*
- G. *While employees holding the Shop Meterperson classification need not have completed the academic training described in Paragraph 3A, they must take and pass the Apprentice Metering Systems Technician Entrance Exam to be considered qualified bidders to the Apprentice Metering Systems Technician classification. Upon successful award of an Apprentice Metering System Technician classification, the Shop Meterperson shall be placed at the start of the wage schedule except as provided in paragraph 3E.*

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 & ELECTRIC COMPANY

By: s/David J. Bergman
Director and Chief Negotiator

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

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

August 29, 1997

By: s/Jack McNally
Business Manager



LETTER AGREEMENT NO. R1-00-12-PGE



PACIFIC GAS AND ELECTRIC COMPANY
INDUSTRIAL RELATIONS DEPARTMENT
2850 SHADELANDS DRIVE, SUITE 100
WALNUT CREEK, CALIFORNIA 94598
(925) 974-4104

INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS COMPANY
INDUSTRIAL RELATIONS DEPARTMENT
2850 SHADELANDS DRIVE, SUITE 100
WALNUT CREEK, CALIFORNIA 94598
(925) 974-4104
925-933-6060

STEPHEN A. RABYURN, DIRECTOR
AND CHIEF NEGOTIATOR

JACK McNALLY, BUSINESS MANAGER

November 14, 2000

Local Union No. 1245
International Brotherhood of
Electrical Workers, AFL-CIO
P.O. Box 4790
Walnut Creek, CA 94598

Attention: Mr. Jack McNally, Business Manager

Dear Mr. McNally:

Company proposes to modify Section 202.19 of the Physical Agreement to allow for employees in the Field Metering Department to take their company vehicles home at the end of the workday. In an effort to improve efficiencies in ways that produce more value than the costs associated with employees taking the company vehicle home and to minimize cost and maximize site availability, this voluntary vehicle take home policy will commence upon the execution of this agreement.

Classifications eligible under this agreement are Apprentice Metering Systems Technician, Unassigned Metering Systems Technician, Metering Systems Technician, Metering Technician Crew Leader and Service Meterperson. The local supervisor may allow employees who live beyond the headquarters' service territory or beyond the 30 minute automotive travel time to volunteer to take their vehicles home at the supervisor's discretion.

Use of company vehicles for other than authorized company use or allowing unauthorized persons to drive or ride in company vehicles (except in emergency situations), is a violation of Standard Practice 735.6-1.

All eligible employees may participate on a voluntary basis. Voluntary agreement to this policy includes an acceptance of all guidelines. Participating employees who fail to meet their obligations in accordance with these guidelines may be ineligible to participate. Company may disqualify employees from this policy where efficiencies are not gained, guidelines are abused, security is violated, or other business reasons as deemed by the company. Disqualifications may be reviewed by the local Labor Management Committee.

Participating employees shall report to their work areas or route by the start time of their scheduled shift. On days employees are required to report to their regular headquarters (as defined in 202.19), they shall report at the beginning of their regularly scheduled shift.

Participating employees shall leave their work areas or route no earlier than the end of their scheduled shift, commuting home on their own time, not to exceed one hour.

Current local procedures will apply, e.g. turning in paperwork, calling in uncompleted work, picking up uniforms, fueling vehicles, servicing vehicles, etc.

For the purposes of reporting commute miles, the "Summary of Rules for Use of Vehicles for Company Business" shall apply.

If a participating employee is scheduled to be off for more than two days, the vehicle may be returned to the yard at the end of the last shift worked, or at a time agreed to by the local supervisor. Depending on vehicle availability or other business reasons, vehicles may be required to be in the yard any time the participating employee is scheduled to be off for one full day. All commutes outside of this agreement will be the responsibility of the employee.

The security compliance with local parking requirements of the assigned vehicle will be the employee's responsibility. Vehicles will be parked at the employee's residence, or other agreed to secure area. When a vehicle is taken home, if the lap top computer is removable, the computer is to be removed and stored in the employee's home, locked bin, etc.

This policy has no impact on local overtime agreements. All 212 and local letter agreements pertaining to POT and EOT shall be followed regardless of this policy.

This agreement supersedes any local vehicle take home letters of agreement that currently exist for the Field Metering Services Department.

This agreement may be canceled by the Company and Union by providing 30 days advance written notice.

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 & ELECTRIC COMPANY

By: s/Stephen A. Rayburn
Stephen A. Rayburn
Director and Chief Negotiator

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

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

 December 11 , 2000

By: s/Jack McNally
Jack McNally
Business Manager



**Pacific Gas and
Electric Company**

WE DELIVER ENERGY™

PACIFIC GAS AND ELECTRIC COMPANY
INDUSTRIAL RELATIONS DEPARTMENT
2850 SHADELANDS DRIVE, SUITE 100
WALNUT CREEK, CALIFORNIA 94598
(925) 974-4104

**LETTER AGREEMENT
NO. 02-21-PGE**

IBEW



INTERNATIONAL BROTHERHOOD OF
ELECTRICAL WORKERS, AFL-CIO
LOCAL UNION 1245, I.B.E.W.
P.O. BOX 4790
WALNUT CREEK, CALIFORNIA 94596
925-933-6060

STEPHEN A. RAYBURN
DIRECTOR AND CHIEF NEGOTIATOR

PERRY ZIMMERMAN
BUSINESS MANAGER

May 16, 2002

Local Union No. 1245
International Brotherhood of
Electrical Workers, AFL-CIO
P. O. Box 4790
Walnut Creek, CA 94598

Attention: Mr. Perry Zimmerman, Business Manager

Dear Mr. Zimmerman:

Company proposes to replace the existing Apprentice Metering Electronics Technician (AMET) entrance exam with the more up-to-date Apprentice Metering Systems Technician (AMST) entrance exam. The current exam is no longer meeting the needs of the department and has negatively impacted the Company's ability to fill vacancies.

Upon reviewing the entrance exam for the AMET, it was concluded that the AMST entrance exam agreed to in Apprentice Committee Case 97-14 is more appropriate in evaluating an individual's potential to progress through the Metering Electronics Technician apprenticeship. The study guide has been updated to reflect that it is applicable to both the AMST and AMET.

As a result of this proposed change and recent experience with the existing AMET exam, the Company proposes that AMET test results for candidates who failed to qualify during the past six months be purged.

This proposal has been reviewed with Assistant Business Manager Jim McCauley and Technical Crew Lead Renee Cederquist.

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 & ELECTRIC COMPANY

By: s/Stephen A. Rayburn
Stephen A. Rayburn
Director and Chief Negotiator

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

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

June 11, 2002

By: s/Perry Zimmerman
Perry Zimmerman
Business Manager

**STUDY GUIDE FOR
PACIFIC GAS AND ELECTRIC COMPANY
APPRENTICE METERING SYSTEMS TECHNICIAN AND
APPRENTICE METERING ELECTRONICS TECHNICIAN
QUALIFYING TEST**

Prerequisites

Although there are no education requirements, it is highly recommended that all candidates be thoroughly familiar with:

- (1) Basic Electricity (AC and DC) and Basic Electronics*
- (2) Mathematics (Algebra and Basic Trigonometry)*

Candidates are strongly encouraged to gain such education through accredited programs in vocational schools and community colleges.

About the Test

There are 80 questions. There are two parts to this test. 1) Eighteen (18) math questions and 2) 62 mixed questions on basic electricity and electronics.

Candidates are allowed 1.5 hours to complete the math portion without the aid of a calculator and 2.5 or more hours (depending the time used for the math portion) for basic electricity and electronics portion with calculators. The math portion will be administered first. Once the test takers turn in the math portion, they will receive the second portion, basic electricity and electronics. Test takers will not be allowed to return to the math portion once it has been turned in. The total amount of time allowed for the test is 4 hours.

Seventy (70%) percent score required to qualify.

This test allows you to demonstrate your knowledge and understanding of the fundamentals of basic electricity, electronics and mathematics as well as your preparedness for advanced technical training.

Taking the Qualifying Test

Candidates for the program have two options:

(1) Bid Apprentice Metering Systems Technician or Apprentice Metering Electronics Technician jobs: When you become the top bidder for the position, you will be required to take the qualifying test. If you successfully pass the test, the position would be awarded to you.

(2) Pre-qualify yourself for the program: When ready, request to take the test through your supervisor, who will make all necessary arrangements with the Human Resources Department. Upon passing of the test, you would be awarded an Apprentice Meter Systems Technician or Apprentice Metering Electronics job when you become the top bidder.

Test Administration

All tests are handled and graded by the Learning Services or Human Resources Department. A letter will be forwarded to you within a few days after taking the test showing the results. If unsuccessful, the letter will contain suggested areas for further study. This is to increase your chance of qualifying in retaking the test.

Review of this exam will be done in accordance with Title 205.11 of the Contract.

Retaking the Qualifying Test

After the first attempt, you must wait three months, or thereafter, following the date of the first testing.

After the second attempt, you must wait six months, or thereafter, following the date of the second testing.

After the third attempt, by special request only, six months, or thereafter, following the date of the third testing provided that the employee is able to show satisfactory evidence that the employee has prepared himself or herself to pass the test.

References

These references are listed as additional study material sources for becoming proficient in basic electricity and mathematics to qualify you for the Apprentice Metering Systems Technician or Apprentice Metering Electronics Technician program. The reference materials listed here are provided to assist you in preparing for this qualifying test, but they are not substitutes for extensive formal education and training. Scholastic Aptitude Test (Study Guide for math),

Many other excellent basic electricity and mathematics reference books are available from libraries, bookstores, and college bookstores.

Materials Covered in the Test

I. AC-DC- Theory (Circuit Analysis, Quantitative relationships, calculations, recognition)

DC circuits

Single Phase AC circuits

Series and Parallel RCL circuits, Transformer Circuit Analysis (Inductors, Capacitors, Resistors, Diodes, SCR's)

II. Mathematics (See SAT - Study Guide)

Sample Test Questions:

These sample test questions are included to give you an idea of the kind and types of questions you can expect to find on the qualifying test. These questions do not appear in the actual test, but the nature and difficulty are representative of the ones on the qualifying test. Try completing these questions as a self-test to evaluate your knowledge and preparedness for qualifying for the Apprentice Metering Systems Technician or Apprentice Metering Electronics Technician Program. (Answers and solutions to questions are attached.)

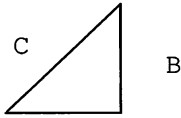
Correct Answers

0-10 A long way to go.

11-14 Back to the books.

15-20 You should be able to successfully qualify for the program

1. For the triangle shown, if $A = 8$ and $B = 6$, find C ?



- (a) 9
- (b) 10
- (c) 14
- (d) 15
- (e) 16

2. A car averages 15 miles per gallon of gas in city driving and 20 miles per gallon in highway driving. At these rates, how many gallons of gas will the car use on a 600 mile trip if $\frac{4}{5}$ of the trip is highway driving and the rest is city driving?

- (a) 24
- (b) 32
- (c) 40
- (d) 44
- (e) 60

3. If $8(x - 1) - 4x = 16$, then $x =$

- (a) 4
- (b) 6
- (c) 11
- (d) 13
- (e) 16

4. Which of the following is equal to $\frac{200 + n}{50}$

- (a) $\frac{8 + n}{10}$
- (b) $\frac{20 + n}{5}$
- (c) $4n$
- (d) $4 + n$
- (e) $4 + \frac{n}{50}$

5. If $su^3t^4 > 0$, which of the following products must be positive?

- (a) su
- (b) st
- (c) ut
- (d) sut
- (e) su^2

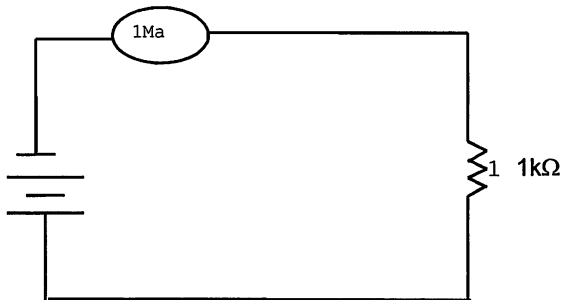
6. A 6-microfarad capacitor and a 4-microfarad capacitor are connected in parallel across a 50-v, 100-HZ source. Determine the:

- (a) Total capacitance =

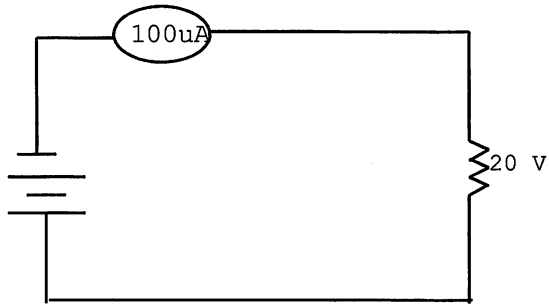
(b) Total reactance =

(c) Total current =

7. T F A potential difference between two points is called a power.
8. T F For a given weight and size, a capacitor stores more energy than a battery.
9. What is the resistance of a lamp which draws 250 milliamperes when connected to a 12.6 volt battery?
10. A toaster draws 10 amps from a 120 volt source, how much energy would it cost to operate the toaster in 2 hours, if energy cost 10 cents per Kwh?
11. The base unit of energy is the
- (A) Ion
(B) Proton
(C) Joule
(D) Pound
12. A 30 ohms load is connected to the 6 volt secondary of a transformer with a 120 volt primary, what ohmic value does the load appear to be to the source?
13. T F Reducing the inductance in a series RL circuit causes the true power to increase.
14. At resonance, the Power Factor of a circuit is _____.
15. Draw two capacitors in series.
16. Three capacitors of 11 pf, 22 pf, and 33 pf are connected in series.
Find the total capacitance? _____
17. Find the reactance X_c for a 100 microfarad capacitor when the frequency is 60 Hz? _____.
18. Solve for Voltage. Ans. _____



19. Solve for Resistance Ans. _____



20. A current of 1 ampere splits between 10Ω and 20Ω resistors in parallel. Find the current through each? $I_{10\Omega}$ _____, $I_{20\Omega}$ _____.

Answers to the Sample test questions

1. B

2. B

3. B

4. E

5. A

6. Total C = $10\ \mu\text{f}$, Total Reactance = 159.235 ohms, Total Current = .31446A.

7. F

8. F

9. 50.4 ohms

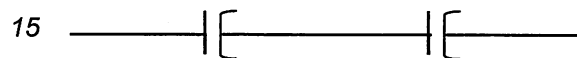
10. 24 cents

11. C

12. 12000 ohms

13. T

14. Unity or 100% P.F.



16. 6 pf

17. 26.54 ohms

18. 1 volt

19. 200 Kohms

20. $I_{10\Omega} = .666 \text{ amps}$ $I_{20\Omega} = .333 \text{ amps}$.

Solutions to Mathematical Questions:

1. $C^2 = a^2 + b^2$

$$C = \sqrt{8^2 + 6^2}$$

$$C = \sqrt{100}$$

$$C = 10$$

2. $4/5 \times 600 \text{ miles} = 480 \text{ miles of highway driving}$
 $1/5 \times 600 \text{ miles} = 120 \text{ miles of city driving}$
 $480/20 \text{ miles per gallon} = 24 \text{ gallons highway driving}$
 $120/15 \text{ miles per gallon} = 8 \text{ gallons city driving}$
Total gallons used is $24 + 8 = 32 \text{ gallons}$

3. $8(x-1) - 4x = 16$
 $8x - 8 - 4x - 16 = 0$
 $4x = 24$
 $x = 6$

4. $\frac{200 + N}{50 \quad 50}$
 $4 + \frac{N}{50}$

5. If $su^3t^4 > 0$, which of the following products must be positive?

T can be + or - and T^4 would always be + so T is not part of the answer. Eliminate (B,C and D). E doesn't work because U could be -1 and S could be -1, then $SU^2 = -1(-1)^2 = -1$ but SU^3 would $-1(-1)^3 = +1$.

(a) SU

6. a) 6 microfarad + 4 microfarad = 10 microfarad

b) $X_c = \frac{1}{2\pi f C}$
 $= \frac{1}{2 (\pi) (100) (10 \times 10^{-6})}$

Total Reactance = 159.23 ohms, Total current = $E/Z = 50v/159.23 = .31446 \text{ amps}$

7. F

8. F

$$9. R = \frac{E}{I} = \frac{12.6}{.25} = 50.4 \text{ ohms}$$

$$10. \text{Energy in Kwh} = \frac{P \times T}{1000}$$

$$\frac{120 \times 10 \times 2 \text{hrs}}{1000} = 2.4 \text{ kwh} \times .10/\text{kwh} = 24 \text{ cents}$$

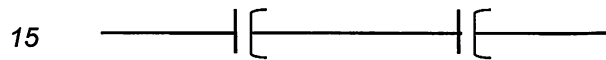
11. C

$$12. I_{\text{sec}} = \frac{E_{\text{sec}}}{R} = 6\text{v} \div 30 \text{ ohms} = .2 \text{ amps}$$

$$R_{\text{pri}} = \frac{E_{\text{pri}}}{I_{\text{pri}}} = 120\text{v} \div .2/\text{TR} = 120\text{v} \div .2 / 20 = 120\text{v} \div .01 = 12000 \text{ ohms}$$

13. T

14. Unity or 100% p.f.



$$16. \text{Total capacitance} = \frac{1}{\frac{1}{11\text{pf}} + \frac{1}{22\text{pf}} + \frac{1}{33\text{pf}}} = 6 \text{ pf}$$

$$17. \text{Total reactance} = \frac{1}{2 \pi F C} = \frac{1}{2 (\pi) (60) (100 \times 10^{-6})} = 26.54 \text{ ohms}$$

$$18. E = I \times R = .001 \times 1000 = 1 \text{ volt}$$

$$19. R = E \div I = 20 \div 100 \times 10^{-6} = 200 \text{ kilo ohms}$$

$$20. R_{\text{eq}} = \frac{R_1 \times R_2}{R_1 + R_2} = \frac{200}{30} = 6.6666 \text{ ohms}$$

$$E_t = I_t \times R_t = 1\text{a} \times 6.6666 \text{ ohms} = 6.6666 \text{ v}$$

$$I_{10\Omega} = \frac{E_t}{R_{10\Omega}} = 6.666\text{v} \div 10\Omega = .6666 \text{ amps}$$

$$I_{20\Omega} = \frac{E_t}{R_{20\Omega}} = 6.666\text{v} \div 20\Omega = .3333 \text{ amps}$$



**Pacific Gas and
Electric Company.**

LETTER AGREEMENT NO. 13-24-PGE

IBEW



PACIFIC GAS AND ELECTRIC COMPANY
LABOR RELATIONS AND HUMAN RESOURCES DEPARTMENT
MAIL CODE N2Z
P.O. BOX 770000
SAN FRANCISCO, CALIFORNIA 94177
(415) 973-4310
STEPHEN RAYBURN
DIRECTOR AND CHIEF NEGOTIATOR

INTERNATIONAL BROTHERHOOD OF
ELECTRICAL WORKERS, AFL-CIO
LOCAL UNION 1245, I.B.E.W.
P.O. BOX 2547
VACAVILLE, CALIFORNIA 95696
(707) 452-2700
TOM DALZELL
BUSINESS MANAGER

April 5, 2013

Mr. Tom Dalzell, Business Manager
Local Union No. 1245
International Brotherhood of
Electrical Workers, AFL-CIO
P.O. Box 2547
Vacaville, CA 95696

Dear Mr. Dalzell:

In Letter of Agreement 12-40 the parties agreed to establish separate Work & Resource Dispatcher classifications and lines of progression for Gas and Metering. This proposal addresses the process for filling vacant schedules internally in Metering Dispatch and, along with Letter of Agreement 12-65 for Gas Dispatch, cancels and supersedes Letter of Agreement 09-30.

All incumbent Metering Dispatchers - those who were displaced under the process outlined in Letter of Agreement 12-43 and who elected a vacant Metering Dispatcher position at the Concord headquarters as provided for on the initial option form - shall have the same yard/office seniority date for purposes of filling vacant shifts internally. The yard/office seniority date for these employees is January 1, 2013. Their Company seniority date shall be used for purposes of a tie-breaker when filling a vacant shift internally.

Employees who bid into a W&R Dispatcher - Metering position at the Concord headquarters after March 1, 2013 shall have the date they report to the headquarters considered as their yard/office seniority date for the purpose of ranking when requesting to fill vacant schedules internally.

The yard/office seniority date for W&R Dispatchers-In-Training will be considered the date upon which they have successfully completed all agreed-to training requirements or when s/he is considered qualified.

This proposal has been discussed with Assistant Business Managers Joe Osterlund and Bob Dean.

Either party may cancel this agreement by providing the other party with 60 days written notice of cancellation.

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 & ELECTRIC COMPANY

By: s/Stephen A. Rayburn
Stephen A. Rayburn
Director and Chief Negotiator

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

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

April 30, 2013

By: s/Tom Dalzell
Tom Dalzell
Business Manager

Reference	Subject	Page
LA R1-13-75 1/2/2014	<p>Established Sr. Routine Meter Person (PIO) (50010474) and Routine Meter Person (PIO) (50010475) as beginner classifications; and established Priority One Status for these classifications to Meter Maintenance Person and CIP Inspector classifications.</p> <p>Established Meter Maintenance Person Priority One Status to other Meter Maintenance Person vacancies and to CIP Inspector classification.</p> <p>Eliminated Service Meterperson (50020303) classification.</p> <p>Eliminated Meter Technician Crew Leader I (50010385) classification.</p> <p>Changed the title of Meter Technician Crew Leader II (50010389) to Meter Technician Crew Leader (50010389).</p> <p>Eliminated Meter Technician Crew Leader Notes No. 7 & 8.</p>	N/A R1-13-75 Canceled and superseded by this Letter of Agreement (LA 16-42-PGE)
LA R1-00-40 7/31/00	Deleted Exhibit XVII Meter Reader Agreement	N/A
LA(s) 08-19, 14-20, & 15-35	Canceled Meter Reader displacement and severance letter agreements	N/A
LA 14-31 6/6/14	Canceled Meter Maintenance Person flextime option when reading meters	N/A
LA 07-42 6/20/2007	<p>Moved CIP Inspectors from the Customer Energy Efficiency Services Department to Field Meter Operations.</p> <p>Added manual meter reading as an additional job duty.</p> <p>Established Priority One Status to other CIP Inspector vacancies and to the Meter Maintenance Person classification.</p>	N/A