VERIFICATION

I affirm that the contents of this report are true to the best of my knowledge, signed under penalty of perjury this 30th day of June, 2000, in San Diego, California.

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David L. Geier, Director

Distribution Management & Strategies

SAN DIEGO GAS and ELECTRIC

CORRECTIVE MAINTENANCE PROGRAM

REPORT FOR

1999

INTRODUCTION

The Corrective Maintenance Program (CMP) is managed through San Diego Gas and Electric's (SDG&E) Distribution Management and Strategies Department. By coordinating with the Construction & Operations (C&O) Centers, General Foremen, Inspectors and other personnel, the inspections required by the CMP are performed and follow-up work to correct deficiencies is completed. Corrective action, for items other than those rated as needing immediate attention, is handled on a 12 months cycle.

A listing of inspection schedules is included as Attachment "A" in accordance with General Order 165.

The individual segments for 1999 are as follows:

Patrols

A simple visual inspection of applicable utility equipment and structures, that is designed to identify obvious structural problems and hazards. The patrols were performed using a “drive by” concept.

Detailed overhead visual inspection

A walking program of visual inspection of overhead facilities and primarily pole mounted equipment.

Detailed underground external inspection

An inspection cycle in which the cabinet exterior and supporting structure of each qualifying piece of equipment is inspected. This inspection includes such items as corrosion, identification and warning signage, wire entry and intrusion by dirt and surrounding vegetation. This inspection has been altered to include an internal inspection segment. The internal portion of this inspection was started on July 1, 1999. This inspection is now the same as the "Detailed underground internal inspection", however, the data is being maintained separately for future comparative purposes.

Detailed underground internal inspection

An inspection cycle in which each qualifying piece of equipment is opened for an inspection of the cabinet interior and all components as well as an inspection of the cabinet exterior and supporting structure. An internal inspection incorporates an external inspection and is a superset of the external inspection activities.

Underground oil and gas switch inspection

This is a specialized internal inspection of oil and gas filled switches found in or on underground structures (vaults, manholes, etc.). Oil samples and pressure readings are obtained and recorded, laboratory analysis of oil samples is performed.

INTRODUCTION (Cont.)

Intrusive wood pole reinforcement inspection

Wood pole inspections are performed by a contractor who performs routine inspections for integrity as well as wood preservative treatments and pole reinforcements.

PATROLS

Following is the percentage of SDG&E's system in urban and rural areas that was patrolled during 1999:

- Urban Area
  - % Of system patrolled during year 100 %.
  - % of system patrolled during annual cycle 100%.

- Rural Area
  - % Of system patrolled during year 35%
  - % of system patrolled during 2 year cycle 100%.

Following are the number of problems identified by overhead and underground patrols:

Overhead Patrol

- Broken hardware ……. 13
- Poles leaning badly / Damaged …… 4
- Broken Crossarms ……. 15
- Foreign Objects ……. 1
- Conductors …….. 0
- Street lights broken ……0
- Critical Repair …….. 0

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- Total 33

Underground Patrol

- Off Pad ……... 0
- Cabinet and / or cover or door damaged …….. 15
- Street Lights broken …….. 0
- Critical Repair ……. 5
- Severe Corrosion ……. 125

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- Total 145

DETAILED INSPECTIONS

Overhead

- Detailed inspections of all poles in the overhead system will be performed on a 5-year cycle. Approximately 20% of SDG&E's total pole population will be inspected annually. Small variations in inspected percentages may occur yearly, but 100% will be completed every 5 years. Pole mounted equipment and conductors supported by the poles are inspected at the same time. As with the poles the annual percentage may vary but 100% will be completed every 5 years. This is the 2nd year of the cycle.

- The detailed overhead inspection requires that each pole position be visited and the pole and the equipment supported by the pole be carefully examined visually for conformance to CPUC General Order 95 requirements. By systematically inspecting all poles and the equipment they support, required equipment inspections will be completed within the time frames prescribed by General Order 165.

- Corrective action, for items other than those needing immediate attention, is handled on a 12 months cycle. Equipment and spans of conductor needing corrective action are managed by the structure that supports them.

DETAILED OVERHEAD INSPECTIONS

- **Beach Cities District**

  - Poles
  - Number of poles in District 24,629.
  - Number of poles inspected during reporting year 4,451. Inspected poles as a % of poles in District 18.07%.
  - Number of poles inspected during current inspection cycle 9,392. Inspected poles as a % of poles in district 38.1%.
  - Number of poles, including pole mounted equipment and spans of conductor, inspected during current inspection cycle coded as needing maintenance activity 1,728. Poles, including pole mounted equipment and spans of conductor, needing maintenance as a % of poles inspected during current inspection cycle 38.82%.
  - % Of needed corrective actions, including pole mounted equipment and spans of conductor, completed during 12 month cycle 100%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:

  - Overhead Transformer Stations
  - Number of overhead transformer stations in District 5,849.
  - Number of overhead transformer stations inspected during reporting year 1,136. Inspected overhead transformer stations as a % of overhead transformer stations in District 19.42%.
  - Number of overhead transformer stations inspected during current inspection cycle 2,301. Inspected transformers as a % of transformers in district 39.34%.

  - Overhead Switching / Protective Devices
  - Number of overhead switching / protective devices in District 2,232.
  - Number of overhead switching / protective devices inspected during reporting year 519. Inspected switching / protective devices as a % of switching / protective devices in District 23.25%.
  - Number of switching / protective devices inspected during current inspection cycle 958. Inspected switching / protective devices as a % of switching / protective devices in district 42.92%.

  - Overhead Regulator / Capacitor Stations
  - Number of overhead regulator / capacitor stations in District 177.
  - Number of overhead regulator / capacitor stations inspected during reporting year 50. Inspected regulator / capacitor stations as a % of regulator / capacitor stations in District 28.25%.

- Number of regulator / capacitor stations inspected during current inspection cycle 86. Inspected regulator / capacitor stations as a % of regulator / capacitor stations in district 48.59%.

DETAILED OVERHEAD INSPECTIONS (Cont.)

- **Beach Cities District (Cont.)**

  - Overhead Conductors and Cables
  - Number of spans of overhead conductors and cables in District 24,628.
  - Number of spans of overhead conductors and cables inspected during reporting year 4,450. Inspected spans of overhead conductors and cables as a % of spans of overhead conductors and cables in District 18.07%.
  - Number of spans of overhead conductors and cables inspected during current inspection cycle 9,391. Inspected spans of overhead conductors and cables as a % of spans of overhead conductors and cables in district 38.13%.

DETAILED OVERHEAD INSPECTIONS (Cont.)

- **Eastern District**

  - Number of poles in District 60,985.
  - Number of poles inspected during reporting year 11,890. Inspected poles as a % of poles in District 19.5%.
  - Number of poles inspected during current inspection cycle 23,837. Inspected poles as a % of poles in district 39.09%.
  - Number of poles, including pole mounted equipment and spans of conductor, inspected during current inspection cycle coded as needing maintenance activity 3,556. Poles, including pole mounted equipment and spans of conductor, needing maintenance as a % of poles inspected during current inspection cycle 29.91%.
  - % Of needed corrective actions, including pole mounted equipment and spans of conductor, completed during 12 month cycle 100%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:

  - <u>Overhead Transformer Stations</u>
  - Number of overhead transformer stations in District 17,808.
  - Number of overhead transformer stations inspected during reporting year 3,602.
  - Inspected overhead transformer stations as a % of overhead transformer stations in District 20.23%.
  - Number of overhead transformer stations inspected during current inspection cycle 7,249. Inspected transformers as a % of transformers in district 40.7%.

  - <u>Overhead Switching / Protective Devices</u>
  - Number of overhead switching / protective devices in District 5,188.
  - Number of overhead switching / protective devices inspected during reporting year 1,232. Inspected switching / protective devices as a % of switching / protective devices in District 23.75%.
  - Number of switching / protective devices inspected during current inspection cycle 2,501. Inspected switching / protective devices as a % of switching / protective devices in district 48.2%.

- **Eastern District (Cont.)**

  - <u>Overhead Regulator / Capacitor Stations</u>
  - Number of overhead regulator / capacitor stations in District 276.

- Number of overhead regulator / capacitor stations inspected during reporting year 83. Inspected regulator / capacitor stations as a % of regulator / capacitor stations in District 30.07%.
- Number of regulator / capacitor stations inspected during current inspection cycle 164. Inspected regulator / capacitor stations as a % of regulator / capacitor stations in district 59.4%.

- Overhead Conductors and Cables
- Number of spans of overhead conductors and cables in District 60,984.
- Number of spans of overhead conductors and cables inspected during reporting year 11,889. Inspected spans of overhead conductors and cables as a % of spans of overhead conductors and cables in District 19.5%.
- Number of spans of overhead conductors and cables inspected during current inspection cycle 23,836. Inspected spans of overhead conductors and cables as a % of spans of overhead conductors and cables in district 39.09%.

- **Metro District**

  - Poles
  - Number of poles in District 47,795.
  - Number of poles inspected during reporting year 9,069. Inspected poles as a % of poles in District 18.97%.
  - Number of poles inspected during current inspection cycle 18,043. Inspected poles as a % of poles in district 37.75%.
  - Number of poles, including pole mounted equipment and spans of conductor, inspected during current inspection cycle coded as needing maintenance activity 4,350. Poles, including pole mounted equipment and spans of conductor, needing maintenance as a % of poles inspected during current inspection cycle 47.97%.
  - % Of needed corrective actions, including pole mounted equipment and spans of conductor, completed during 12 month cycle 100%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:

  - Overhead Transformer Stations
  - Number of overhead transformer stations in District 10,811.
  - Number of overhead transformer stations inspected during reporting year 2,229.
  - Inspected overhead transformer stations as a % of overhead transformer stations in District 20.62%.
  - Number of overhead transformer stations inspected during current inspection cycle 4,319. Inspected transformers as a % of transformers in district 39.95%.

  - Overhead Switching / Protective Devices
  - Number of overhead switching / protective devices in District 3,594.
  - Number of overhead switching / protective devices inspected during reporting year 840. Inspected switching / protective devices as a % of switching / protective devices in District 23.37%.
  - Number of switching / protective devices inspected during current inspection cycle 1,584. Inspected switching / protective devices as a % of switching / protective devices in district 44.07%.

  - Overhead Regulator / Capacitor Stations
  - Number of overhead regulator / capacitor stations in District 245.

- Number of overhead regulator / capacitor stations inspected during reporting year 43. Inspected regulator / capacitor stations as a % of regulator / capacitor stations in District 17.55%.
- Number of regulator / capacitor stations inspected during current inspection cycle 101. Inspected regulator / capacitor stations as a % of regulator / capacitor stations in district 41.22%.

- **Metro District (Cont.)**

  - <u>Overhead Conductors and Cables</u>
  - Number of spans of overhead conductors and cables in District 47,794.
  - Number of spans of overhead conductors and cables inspected during reporting year 9,068. Inspected spans of overhead conductors and cables as a % of spans of overhead conductors and cables in District 18.97%.
  - Number of spans of overhead conductors and cables inspected during current inspection cycle 18,042. Inspected spans of overhead conductors and cables as a % of spans of overhead conductors and cables in district 37.75%.

- **North Coast District**

  - Poles
  - Number of poles in District 24,966.
  - Number of poles inspected during reporting year 5,061. Inspected poles as a % of poles in District 20.27%.
  - Number of poles inspected during current inspection cycle 9,595. Inspected poles as a % of poles in district 38.43%.
  - Number of poles, including pole mounted equipment and spans of conductor, inspected during current inspection cycle coded as needing maintenance activity 2,229. Poles, including pole mounted equipment and spans of conductor, needing maintenance as a % of poles inspected during current inspection cycle 44.04%.
  - % Of needed corrective actions, including pole mounted equipment and spans of conductor, completed during 12 month cycle 100%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:

  - Overhead Transformer Stations
  - Number of overhead transformer stations in District 7,050.
  - Number of overhead transformer stations inspected during reporting year 1,500.
  - Inspected overhead transformer stations as a % of overhead transformer stations in District 21.28%.
  - Number of overhead transformer stations inspected during current inspection cycle 2,849. Inspected transformers as a % of transformers in district 40.41%.

  - Overhead Switching / Protective Devices
  - Number of overhead switching / protective devices in District 3,113.
  - Number of overhead switching / protective devices inspected during reporting year 585. Inspected switching / protective devices as a % of switching / protective devices in District 18.79%.
  - Number of switching / protective devices inspected during current inspection cycle 1,153. Inspected switching / protective devices as a % of switching / protective devices in district 37.04%.

  - Overhead Regulator / Capacitor Stations
  - Number of overhead regulator / capacitor stations in District 119.

- Number of overhead regulator / capacitor stations inspected during reporting year 23. Inspected regulator / capacitor stations as a % of regulator / capacitor stations in District 19.33%.
- Number of regulator / capacitor stations inspected during current inspection cycle 43. Inspected regulator / capacitor stations as a % of regulator / capacitor stations in district 36.13%.

- **North Coast District (Cont.)**

  - <u>Overhead Conductors and Cables</u>
  - Number of spans of overhead conductors and cables in District 24,965.
  - Number of spans of overhead conductors and cables inspected during reporting year 5,060. Inspected spans of overhead conductors and cables as a % of spans of overhead conductors and cables in District 20.27%.
  - Number of spans of overhead conductors and cables inspected during current inspection cycle 9,594. Inspected spans of overhead conductors and cables as a % of spans of overhead conductors and cables in district 38.43%.

DETAILED OVERHEAD INSPECTIONS (Cont.)

- **Northeast District**

  - Poles
  - Number of poles in District 67,328.
  - Number of poles inspected during reporting year 13,516. Inspected poles as a % of poles in District 20.07%.
  - Number of poles inspected during current inspection cycle 27,433. Inspected poles as a % of poles in district 40.75%.
  - Number of poles, including pole mounted equipment and spans of conductor, inspected during current inspection cycle coded as needing maintenance activity 3,556. Poles, including pole mounted equipment and spans of conductor, needing maintenance as a % of poles inspected during current inspection cycle 29.91%.
  - % Of needed corrective actions, including pole mounted equipment and spans of conductor, completed during 12 month cycle 99.99%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:
      - P217032 - ETA 12/31/2000 - Damaged hardware, in pond/wetland, to Planning to re-route or remove.
      - P319103 - ETA 12/31/2000 - Damaged pole, secondary pole with customer meter, to Planning for customer contact.
      - P811639 - ETA 12/31/2000 - Pole leaning, requires stub and anchor in right-of-way, to Real Estate Operations.

  - Overhead Transformer Stations
  - Number of overhead transformer stations in District 21,030.
  - Number of overhead transformer stations inspected during reporting year 4,055.
  - Inspected overhead transformer stations as a % of overhead transformer stations in District 19.28%.
  - Number of overhead transformer stations inspected during current inspection cycle 8,030. Inspected transformers as a % of transformers in district 38.18%.

  - Overhead Switching / Protective Devices
  - Number of overhead switching / protective devices in District 4,769.
  - Number of overhead switching / protective devices inspected during reporting year 795. Inspected switching / protective devices as a % of switching / protective devices in District 16.67%.
  - Number of switching / protective devices inspected during current inspection cycle 2,138. Inspected switching / protective devices as a % of switching / protective devices in district 44.83%.

- **Northeast District (Cont.)**

  - Overhead Regulator / Capacitor Stations
  - Number of overhead regulator / capacitor stations in District 200.
  - Number of overhead regulator / capacitor stations inspected during reporting year 35. Inspected regulator / capacitor stations as a % of regulator / capacitor stations in District 17.5%.
  - Number of regulator / capacitor stations inspected during current inspection cycle 119. Inspected regulator / capacitor stations as a % of regulator / capacitor stations in district 59.5%.

  - Overhead Conductors and Cables
  - Number of spans of overhead conductors and cables in District 67,327.
  - Number of spans of overhead conductors and cables inspected during reporting year 13,515. Inspected spans of overhead conductors and cables as a % of spans of overhead conductors and cables in District 20.07%.
  - Number of spans of overhead conductors and cables inspected during current inspection cycle 27,432. Inspected spans of overhead conductors and cables as a % of spans of overhead conductors and cables in district 40.74%.

- **Orange County District**

  - Poles
  - Number of poles in District 6,174.
  - Number of poles inspected during reporting year 1,140. Inspected poles as a % of poles in District 18.46%.
  - Number of poles inspected during current inspection cycle 2,327. Inspected poles as a % of poles in district 37.69%.
  - Number of poles, including pole mounted equipment and spans of conductor, inspected during current inspection cycle coded as needing maintenance activity 490. Poles, including pole mounted equipment and spans of conductor, needing maintenance as a % of poles inspected during current inspection cycle 42.98%.
  - % Of needed corrective actions, including pole mounted equipment and spans of conductor, completed during 12 month cycle 100%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:

  - Overhead Transformer Stations
  - Number of overhead transformer stations in District 1,377.
  - Number of overhead transformer stations inspected during reporting year 234.
  - Inspected overhead transformer stations as a % of overhead transformer stations in District 16.99%.
  - Number of overhead transformer stations inspected during current inspection cycle 492. Inspected poles as a % of transformers in district 35.73%.

  - Overhead Switching / Protective Devices
  - Number of overhead switching / protective devices in District 762.
  - Number of overhead switching / protective devices inspected during reporting year 111. Inspected switching / protective devices as a % of switching / protective devices in District 14.57%.
  - Number of switching / protective devices inspected during current inspection cycle 295. Inspected switching / protective devices as a % of switching / protective devices in district 38.71%.

  - Overhead Regulator / Capacitor Stations
  - Number of overhead regulator / capacitor stations in District 55.

- Number of overhead regulator / capacitor stations inspected during reporting year 8. Inspected regulator / capacitor stations as a % of regulator / capacitor stations in District 14.55%.
- Number of regulator / capacitor stations inspected during current inspection cycle 23. Inspected regulator / capacitor stations as a % of regulator / capacitor stations in district 41.82%.

- **Orange County District (Cont.)**

  - <u>Overhead Conductors and Cables</u>
  - Number of spans of overhead conductors and cables in District 6,173.
  - Number of spans of overhead conductors and cables inspected during reporting year 1,139. Inspected spans of overhead conductors and cables as a % of spans of overhead conductors and cables in District 18.46%.
  - Number of spans of overhead conductors and cables inspected during current inspection cycle 2,326. Inspected spans of overhead conductors and cables as a % of spans of overhead conductors and cables in district 37.8%.

UNDERGROUND (Pad mounted) INSPECTIONS

The underground pad mounted inspection consists of two separate inspection types:

- Dead Front Equipment
- Live Front Equipment

Dead Front Equipment

Detailed inspections of all dead front, pad-mounted equipment, in the underground system is performed on a 5-year cycle. Approximately 20% of SDG&E's total pad mounted dead front equipment is inspected annually. Small variations in inspected percentages may occur yearly, but 100% will be completed every 5 years. This is the 2nd year of the cycle. This inspection has been altered to include an internal inspection segment.

A detailed inspection of dead front, pad mounted equipment requires that each dead front, pad mounted piece of equipment be visited and the piece of equipment be opened and carefully examined externally and internally, by visual methods, for conformance to CPUC General Order 128 requirements.

- **Beach Cities District**

  - Transformers
  - Number of pad mounted dead front transformers in District 9,902.
  - Number of pad mounted dead front transformers inspected during reporting year 2,337. Inspected pad mounted dead front transformers as a % of pad mounted dead front transformers in District 23.60%.
  - Number of pad mounted dead front transformers inspected during current inspection cycle 4,355. Inspected pad mounted dead front transformers as a % of pad mounted dead front transformers in District 43.98%.
  - Number of dead front, pad mounted transformers inspected during current inspection cycle coded as needing maintenance activity 653. Dead front, pad mounted transformers needing maintenance as a % of dead front, pad mounted transformers inspected during current inspection cycle 27.94%.
  - % Of needed corrective actions completed during 12 month cycle 100%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:

  - Regulators / Capacitors
  - Number of pad mounted dead front regulators / capacitors in District 0.
  - Number of pad mounted dead front regulators / capacitors inspected during reporting year 0. Inspected pad mounted dead front regulators / capacitors as a % of pad mounted dead front regulators / capacitors in District 0.
  - Number of pad mounted dead front regulators / capacitors inspected during current inspection cycle 0. Inspected pad mounted dead front regulators / capacitors as a % of pad mounted dead front regulators / capacitors in District 0.
  - Number of dead front, pad mounted regulators / capacitors inspected during current inspection cycle coded as needing maintenance activity 0. Dead front, pad mounted regulators / capacitors needing maintenance as a % of dead front, pad mounted regulators / capacitors inspected during current inspection cycle 0%.
  - % Of needed corrective actions completed during 12 month cycle 100%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:

PAD-MOUNTED DEAD FRONT EQUIPMENT (Cont.)

- **Eastern District**

  - Transformers
  - Number of pad mounted dead front transformers in District 9,039.
  - Number of pad mounted dead front transformers inspected during reporting year 2,058. Inspected pad mounted dead front transformers as a % of pad mounted dead front transformers in District 22.77%.
  - Number of pad mounted dead front transformers inspected during current inspection cycle 4,047. Inspected pad mounted dead front transformers as a % of pad mounted dead front transformers in District 44.77%.
  - Number of dead front, pad mounted transformers inspected during current inspection cycle coded as needing maintenance activity 1,403. Dead front, pad mounted transformers needing maintenance as a % of dead front, pad mounted transformers inspected during current inspection cycle 68.17%.
  - % Of needed corrective actions completed during 12 month cycle 100%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:

  - Regulators / Capacitors
  - Number of pad mounted dead front regulators / capacitors in District 0.
  - Number of pad mounted dead front regulators / capacitors inspected during reporting year 0. Inspected pad mounted dead front regulators / capacitors as a % of pad mounted dead front regulators / capacitors in District 0.
  - Number of pad mounted dead front regulators / capacitors inspected during current inspection cycle 0. Inspected pad mounted dead front regulators / capacitors as a % of pad mounted dead front regulators / capacitors in District 0.
  - Number of dead front, pad mounted regulators / capacitors inspected during current inspection cycle coded as needing maintenance activity 0. Dead front, pad mounted regulators / capacitors needing maintenance as a % of dead front, pad mounted regulators / capacitors inspected during current inspection cycle 0%.
  - % Of needed corrective actions completed during 12 month cycle 100%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:

PAD-MOUNTED DEAD FRONT EQUIPMENT (Cont.)

- **Metro District**

  - Transformers
  - Number of pad mounted dead front transformers in District 9,052.
  - Number of pad mounted dead front transformers inspected during reporting year 2331. Inspected pad mounted dead front transformers as a % of pad mounted dead front transformers in District 25.75%.
  - Number of pad mounted dead front transformers inspected during current inspection cycle 3,858. Inspected pad mounted dead front transformers as a % of pad mounted dead front transformers in District 42.62%.
  - Number of dead front, pad mounted transformers inspected during current inspection cycle coded as needing maintenance activity 1,720. Dead front, pad mounted transformers needing maintenance as a % of dead front, pad mounted transformers inspected during current inspection cycle 73.79%.
  - % Of needed corrective actions completed during 12 month cycle 100%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:

  - Regulators / Capacitors
  - Number of pad mounted dead front regulators / capacitors in District 0.
  - Number of pad mounted dead front regulators / capacitors inspected during reporting year 0. Inspected pad mounted dead front regulators / capacitors as a % of pad mounted dead front regulators / capacitors in District 0.
  - Number of pad mounted dead front regulators / capacitors inspected during current inspection cycle 0. Inspected pad mounted dead front regulators / capacitors as a % of pad mounted dead front regulators / capacitors in District 0.
  - Number of dead front, pad mounted regulators / capacitors inspected during current inspection cycle coded as needing maintenance activity 0. Dead front, pad mounted regulators / capacitors needing maintenance as a % of dead front, pad mounted regulators / capacitors inspected during current inspection cycle 0%.
  - % Of needed corrective actions completed during 12 month cycle 100%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:

PAD-MOUNTED DEAD FRONT EQUIPMENT (Cont.)

- **North Coast District**

  - Transformers
  - Number of pad mounted dead front transformers in District 15,283.
  - Number of pad mounted dead front transformers inspected during reporting year 3,453. Inspected pad mounted dead front transformers as a % of pad mounted dead front transformers in District 22.59%.
  - Number of pad mounted dead front transformers inspected during current inspection cycle 5,926. Inspected pad mounted dead front transformers as a % of pad mounted dead front transformers in District 38.78%.
  - Number of dead front, pad mounted transformers inspected during current inspection cycle coded as needing maintenance activity 2,988. Dead front, pad mounted transformers needing maintenance as a % of dead front, pad mounted transformers inspected during current inspection cycle 86.53%.
  - % Of needed corrective actions completed during 12 month cycle 100%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:

  - Regulators / Capacitors
  - Number of pad mounted dead front regulators / capacitors in District 0.
  - Number of pad mounted dead front regulators / capacitors inspected during reporting year 0. Inspected pad mounted dead front regulators / capacitors as a % of pad mounted dead front regulators / capacitors in District 0.
  - Number of pad mounted dead front regulators / capacitors inspected during current inspection cycle 0. Inspected pad mounted dead front regulators / capacitors as a % of pad mounted dead front regulators / capacitors in District 0.
  - Number of dead front, pad mounted regulators / capacitors inspected during current inspection cycle coded as needing maintenance activity 0. Dead front, pad mounted regulators / capacitors needing maintenance as a % of dead front, pad mounted regulators / capacitors inspected during current inspection cycle 0%.
  - % Of needed corrective actions completed during 12 month cycle 100%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:

PAD-MOUNTED DEAD FRONT EQUIPMENT (Cont.)

- **Northeast District**

  - Transformers
  - Number of pad mounted dead front transformers in District 16,552.
  - Number of pad mounted dead front transformers inspected during reporting year 3,793. Inspected pad mounted dead front transformers as a % of pad mounted dead front transformers in District 22.92%.
  - Number of pad mounted dead front transformers inspected during current inspection cycle 6,439. Inspected pad mounted dead front transformers as a % of pad mounted dead front transformers in District 38.90%.
  - Number of dead front, pad mounted transformers inspected during current inspection cycle coded as needing maintenance activity 3,326. Dead front, pad mounted transformers needing maintenance as a % of dead front, pad mounted transformers inspected during current inspection cycle 87.69%.
  - % Of needed corrective actions completed during 12 month cycle 100%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:

  - Regulators / Capacitors
  - Number of pad mounted dead front regulators / capacitors in District 0.
  - Number of pad mounted dead front regulators / capacitors inspected during reporting year 0. Inspected pad mounted dead front regulators / capacitors as a % of pad mounted dead front regulators / capacitors in District 0.
  - Number of pad mounted dead front regulators / capacitors inspected during current inspection cycle 0. Inspected pad mounted dead front regulators / capacitors as a % of pad mounted dead front regulators / capacitors in District 0.
  - Number of dead front, pad mounted regulators / capacitors inspected during current inspection cycle coded as needing maintenance activity 0. Dead front, pad mounted regulators / capacitors needing maintenance as a % of dead front, pad mounted regulators / capacitors inspected during current inspection cycle 0%.
  - % Of needed corrective actions completed during 12 month cycle 100%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:

PAD-MOUNTED DEAD FRONT EQUIPMENT (Cont.)

- **Orange County District**

  - Transformers
  - Number of pad mounted dead front transformers in District 8,115.
  - Number of pad mounted dead front transformers inspected during reporting year 1,745. Inspected pad mounted dead front transformers as a % of pad mounted dead front transformers in District 21.50%.
  - Number of pad mounted dead front transformers inspected during current inspection cycle 3,161. Inspected pad mounted dead front transformers as a % of pad mounted dead front transformers in District 38.95%.
  - Number of dead front, pad mounted transformers inspected during current inspection cycle coded as needing maintenance activity 1,049. Dead front, pad mounted transformers needing maintenance as a % of dead front, pad mounted transformers inspected during current inspection cycle 60.11%.
  - % Of needed corrective actions completed during 12 month cycle 100%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:

  - Regulators / Capacitors
  - Number of pad mounted dead front regulators / capacitors in District 0.
  - Number of pad mounted dead front regulators / capacitors inspected during reporting year 0. Inspected pad mounted dead front regulators / capacitors as a % of pad mounted dead front regulators / capacitors in District 0.
  - Number of pad mounted dead front regulators / capacitors inspected during current inspection cycle 0. Inspected pad mounted dead front regulators / capacitors as a % of pad mounted dead front regulators / capacitors in District 0.
  - Number of dead front, pad mounted regulators / capacitors inspected during current inspection cycle coded as needing maintenance activity 0. Dead front, pad mounted regulators / capacitors needing maintenance as a % of dead front, pad mounted regulators / capacitors inspected during current inspection cycle 0%.
  - % Of needed corrective actions completed during 12 month cycle 100%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:

Live Front Equipment

- Detailed inspections of all live front, pad mounted equipment, in the underground system will be performed on a 5-year cycle. Approximately 20% of SDG&E's total pad mounted live front equipment will be inspected annually. Small variations in inspected percentages may occur yearly, but 100% will be completed every 5 years. This is the 2nd year of the cycle.
- A detailed inspection of live front, pad mounted, equipment requires that each live front, pad mounted, piece of equipment be visited and the equipment be opened and carefully examined externally and internally, by visual methods, for conformance to CPUC General Order 128 requirements.

PAD-MOUNTED LIVE FRONT EQUIPMENT

- **Beach Cities District**

  - Transformers
  - Number of pad mounted live front transformers in District 821.
  - Number of pad mounted live front transformers inspected during reporting year 334. Inspected pad mounted live front transformers as a % of pad mounted live front transformers in District 40.68%.
  - Number of pad mounted live front transformers inspected during current inspection cycle 624. Inspected pad mounted live front transformers as a % of pad mounted live front transformers in District 76.00%.
  - Number of live front, pad mounted transformers inspected during current inspection cycle coded as needing maintenance activity 99. Live front, pad-mounted transformers needing maintenance as a % of live front, pad mounted transformers inspected during current inspection cycle 29.64%.
  - % Of needed corrective actions completed during 12 month cycle 99.99%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:
      - D2520970425 - ETA 12/31/2000 - Transformer, facility inaccessible, customer retaining wall, to Real Estate Operations for customer resolution.

  - Regulators / Capacitors
  - Number of pad mounted live front regulators / capacitors in District 66.
  - Number of pad mounted live front regulators / capacitors inspected during reporting year 13. Inspected pad mounted live front regulators / capacitors as a % of pad mounted live front regulators / capacitors in District 19.7%.
  - Number of pad mounted live front regulators / capacitors inspected during current inspection cycle 30. Inspected pad mounted live front regulators / capacitors as a % of pad mounted live front regulators / capacitors in District 45.45%.
  - Number of live front, pad mounted regulators / capacitors inspected during current inspection cycle coded as needing maintenance activity 0. Live front, pad mounted regulators / capacitors needing maintenance as a % of live front, pad mounted regulators / capacitors inspected during current inspection cycle 0%.
  - % Of needed corrective actions completed during 12 month cycle 100%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:

PAD-MOUNTED LIVE FRONT EQUIPMENT (Cont.)

- **Eastern District**

  - Transformers
  - Number of pad mounted live front transformers in District 1,265.
  - Number of pad mounted live front transformers inspected during reporting year 453. Inspected pad mounted live front transformers as a % of pad mounted live front transformers in District 35.81%.
  - Number of pad mounted live front transformers inspected during current inspection cycle 877. Inspected pad mounted live front transformers as a % of pad mounted live front transformers in District 69.33%.
  - Number of live front, pad mounted transformers inspected during current inspection cycle coded as needing maintenance activity 286. Live front, pad-mounted transformers needing maintenance as a % of live front, pad mounted transformers inspected during current inspection cycle 63.13%.
  - % Of needed corrective actions completed during 12 month cycle 100%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:

  - Regulators / Capacitors
  - Number of pad mounted live front regulators / capacitors in District 17.
  - Number of pad mounted live front regulators / capacitors inspected during reporting year 1. Inspected pad mounted live front regulators / capacitors as a % of pad mounted live front regulators / capacitors in District 5.88%.
  - Number of pad mounted live front regulators / capacitors inspected during current inspection cycle 5. Inspected pad mounted live front regulators / capacitors as a % of pad mounted live front regulators / capacitors in District 29.41%.
  - Number of live front, pad mounted regulators / capacitors inspected during current inspection cycle coded as needing maintenance activity 0. Live front, pad mounted regulators / capacitors needing maintenance as a % of live front, pad mounted regulators / capacitors inspected during current inspection cycle 0%.
  - % Of needed corrective actions completed during 12 month cycle 100%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:

PAD-MOUNTED LIVE FRONT EQUIPMENT (Cont.)

- **Metro District**

  - Transformers
  - Number of pad mounted live front transformers in District 1,040.
  - Number of pad mounted live front transformers inspected during reporting year 359. Inspected pad mounted live front transformers as a % of pad mounted live front transformers in District 34.52%.
  - Number of pad mounted live front transformers inspected during current inspection cycle 725. Inspected pad mounted live front transformers as a % of pad mounted live front transformers in District 69.71%.
  - Number of live front, pad mounted transformers inspected during current inspection cycle coded as needing maintenance activity 230. Live front, pad-mounted transformers needing maintenance as a % of live front, pad mounted transformers inspected during current inspection cycle 64.07%.
  - % Of needed corrective actions completed during 12 month cycle 100%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:

  - Regulators / Capacitors
  - Number of pad mounted live front regulators / capacitors in District 18.
  - Number of pad mounted live front regulators / capacitors inspected during reporting year 4. Inspected pad mounted live front regulators / capacitors as a % of pad mounted live front regulators / capacitors in District 22.22%.
  - Number of pad mounted live front regulators / capacitors inspected during current inspection cycle 10. Inspected pad mounted live front regulators / capacitors as a % of pad mounted live front regulators / capacitors in District 55.56%.
  - Number of live front, pad mounted regulators / capacitors inspected during current inspection cycle coded as needing maintenance activity 2. Live front, pad mounted regulators / capacitors needing maintenance as a % of live front, pad mounted regulators / capacitors inspected during current inspection cycle 50.00%.
  - % Of needed corrective actions completed during 12 month cycle 100%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:

PAD-MOUNTED LIVE FRONT EQUIPMENT (Cont.)

- **North Coast District**

  - Transformers
  - Number of pad mounted live front transformers in District 887.
  - Number of pad mounted live front transformers inspected during reporting year 302. Inspected pad mounted live front transformers as a % of pad mounted live front transformers in District 34.05%.
  - Number of pad mounted live front transformers inspected during current inspection cycle 569. Inspected pad mounted live front transformers as a % of pad mounted live front transformers in District 64.15%.
  - Number of live front, pad mounted transformers inspected during current inspection cycle coded as needing maintenance activity 265. Live front, pad-mounted transformers needing maintenance as a % of live front, pad mounted transformers inspected during current inspection cycle 87.75%.
  - % Of needed corrective actions completed during 12 month cycle 100%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:

  - Regulators / Capacitors
  - Number of pad mounted live front regulators / capacitors in District 3.
  - Number of pad mounted live front regulators / capacitors inspected during reporting year 1. Inspected pad mounted live front regulators / capacitors as a % of pad mounted live front regulators / capacitors in District 33.33%.
  - Number of pad mounted live front regulators / capacitors inspected during current inspection cycle 4. Inspected pad mounted live front regulators / capacitors as a % of pad mounted live front regulators / capacitors in District 100%.
  - Number of live front, pad mounted regulators / capacitors inspected during current inspection cycle coded as needing maintenance activity 1. Live front, pad mounted regulators / capacitors needing maintenance as a % of live front, pad mounted regulators / capacitors inspected during current inspection cycle 100%.
  - % Of needed corrective actions completed during 12 month cycle 100%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:

PAD-MOUNTED LIVE FRONT EQUIPMENT (Cont.)

- **Northeast District**

  - Transformers
  - Number of pad mounted live front transformers in District 1,348.
  - Number of pad mounted live front transformers inspected during reporting year 362. Inspected pad mounted live front transformers as a % of pad mounted live front transformers in District 26.85%.
  - Number of pad mounted live front transformers inspected during current inspection cycle 579. Inspected pad mounted live front transformers as a % of pad mounted live front transformers in District 42.95%.
  - Number of live front, pad mounted transformers inspected during current inspection cycle coded as needing maintenance activity 309. Live front, pad-mounted transformers needing maintenance as a % of live front, pad mounted transformers inspected during current inspection cycle 85.36%.
  - % Of needed corrective actions completed during 12 month cycle 100%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:

  - Regulators / Capacitors
  - Number of pad mounted live front regulators / capacitors in District 51.
  - Number of pad mounted live front regulators / capacitors inspected during reporting year 27. Inspected pad mounted live front regulators / capacitors as a % of pad mounted live front regulators / capacitors in District 52.94%.
  - Number of pad mounted live front regulators / capacitors inspected during current inspection cycle 41. Inspected pad mounted live front regulators / capacitors as a % of pad mounted live front regulators / capacitors in District 80.39%.
  - Number of live front, pad mounted regulators / capacitors inspected during current inspection cycle coded as needing maintenance activity 23. Live front, pad mounted regulators / capacitors needing maintenance as a % of live front, pad mounted regulators / capacitors inspected during current inspection cycle 85.19%.
  - % Of needed corrective actions completed during 12 month cycle 100%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:

- **Orange County District**

  - Transformers
  - Number of pad mounted live front transformers in District 616.
  - Number of pad mounted live front transformers inspected during reporting year 159. Inspected pad mounted live front transformers as a % of pad mounted live front transformers in District 25.81%.
  - Number of pad mounted live front transformers inspected during current inspection cycle 312. Inspected pad mounted live front transformers as a % of pad mounted live front transformers in District 50.65%.
  - Number of live front, pad mounted transformers inspected during current inspection cycle coded as needing maintenance activity 86. Live front, pad-mounted transformers needing maintenance as a % of live front, pad mounted transformers inspected during current inspection cycle 54.09%.
  - % Of needed corrective actions completed during 12 month cycle 99.99%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:
      - D4766456547 - ETA - 12/31/2000 - Transformer corroded, To Real Estate Operations to relocate right-of-way.

  - Regulators / Capacitors
  - Number of pad mounted live front regulators / capacitors in District 41.
  - Number of pad mounted live front regulators / capacitors inspected during reporting year 4. Inspected pad mounted live front regulators / capacitors as a % of pad mounted live front regulators / capacitors in District 9.76%.
  - Number of pad mounted live front regulators / capacitors inspected during current inspection cycle 9. Inspected pad mounted live front regulators / capacitors as a % of pad mounted live front regulators / capacitors in District 21.95%.
  - Number of live front, pad mounted regulators / capacitors inspected during current inspection cycle coded as needing maintenance activity 2. Live front, pad mounted regulators / capacitors needing maintenance as a % of live front, pad mounted regulators / capacitors inspected during current inspection cycle 50.00%.
  - % Of needed corrective actions completed during 12 month cycle 100%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:

UNDERGROUND (Sub-surface) INSPECTIONS

- Detailed inspections of all underground subsurface transformers, protective devices, and regulators/capacitors, in the underground system will be performed on a 3-year cycle. Approximately 33% of SDG&E's total population of these pieces of equipment will be inspected annually. Small variations in inspected percentages may occur yearly, but 100% will be completed every 3 years. This is the 2nd year of the cycle. A detailed inspection of underground subsurface equipment requires that each subsurface enclosure be visited and opened so that the equipment within can be carefully examined visually for conformance to CPUC General Order 128 requirements.

UNDERGROUND SUBSURFACE EQUIPMENT INSPECTIONS

- **Beach Cities District**

  - Transformers
  - Number of subsurface transformers in District 337.
  - Number of subsurface transformers inspected during reporting year 119. Inspected subsurface transformers as a % of subsurface transformers in District 29.3%.
  - Number of subsurface transformers inspected during current inspection cycle 224. Inspected subsurface transformers as a % of subsurface transformers in District 66.47%.
  - Number of subsurface transformers inspected during current inspection cycle coded as needing maintenance activity 7. Subsurface transformers needing maintenance as a % of subsurface transformers inspected during current inspection cycle 5.88%.
  - % Of needed corrective actions completed during 12 month cycle 71.43%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:
      - M2625269300 - ETA 4/30/2001 - Transformer, facility inaccessible, cannot open/inspect, project requires re-planning.
      - M2629069350 - ETA 4/30/2001 - Transformer, facility inaccessible, cannot open/inspect, project requires re-planning.

  - Regulators / Capacitors
  - Number of subsurface regulators / capacitors in District 1.
  - Number of subsurface regulators / capacitors inspected during reporting year 1. Inspected subsurface regulators / capacitors as a % of subsurface regulators / capacitors in District 100%.
  - Number of subsurface regulators / capacitors inspected during current inspection cycle 1. Inspected subsurface regulators / capacitors as a % of subsurface regulators / capacitors in District 100%.
  - Number of subsurface regulators / capacitors inspected during current inspection cycle coded as needing maintenance activity 0. Subsurface regulators / capacitors needing maintenance as a % of subsurface regulators / capacitors inspected during current inspection cycle 0%.
  - % Of needed corrective actions completed during 12 month cycle 100%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:

UNDERGROUND SUBSURFACE EQUIPMENT INSPECTIONS (Cont.)

- **Eastern District**

  - Transformers
  - Number of subsurface transformers in District 151.
  - Number of subsurface transformers inspected during reporting year 34. Inspected subsurface transformers as a % of subsurface transformers in District 22.52%.
  - Number of subsurface transformers inspected during current inspection cycle 67. Inspected subsurface transformers as a % of subsurface transformers in District 44.37%.
  - Number of subsurface transformers inspected during current inspection cycle coded as needing maintenance activity 18. Subsurface transformers needing maintenance as a % of subsurface transformers inspected during current inspection cycle 52.94%.
  - % Of needed corrective actions completed during 12 month cycle 100%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:

  - Regulators / Capacitors
  - Number of subsurface regulators / capacitors in District 0.
  - Number of subsurface regulators / capacitors inspected during reporting year 0. Inspected subsurface regulators / capacitors as a % of subsurface regulators / capacitors in District 0.
  - Number of subsurface regulators / capacitors inspected during current inspection cycle 0. Inspected subsurface regulators / capacitors as a % of subsurface regulators / capacitors in District 0.
  - Number of subsurface regulators / capacitors inspected during current inspection cycle coded as needing maintenance activity 0. Subsurface regulators / capacitors needing maintenance as a % of subsurface regulators / capacitors inspected during current inspection cycle 0%.
  - % Of needed corrective actions completed during 12 month cycle 100%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:

UNDERGROUND SUBSURFACE EQUIPMENT INSPECTIONS (Cont.)

- **Metro District**

  - Transformers
  - Number of subsurface transformers in District 623.
  - Number of subsurface transformers inspected during reporting year 238. Inspected subsurface transformers as a % of subsurface transformers in District 38.20%.
  - Number of subsurface transformers inspected during current inspection cycle 492. Inspected subsurface transformers as a % of subsurface transformers in District 78.97%.
  - Number of subsurface transformers inspected during current inspection cycle coded as needing maintenance activity 143. Subsurface transformers needing maintenance as a % of subsurface transformers inspected during current inspection cycle 60.08%.
  - % Of needed corrective actions completed during 12 month cycle 100%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:

  - Regulators / Capacitors
  - Number of subsurface regulators / capacitors in District 29.
  - Number of subsurface regulators / capacitors inspected during reporting year 3. Inspected subsurface regulators / capacitors as a % of subsurface regulators / capacitors in District 10.34%.
  - Number of subsurface regulators / capacitors inspected during current inspection cycle 23. Inspected subsurface regulators / capacitors as a % of subsurface regulators / capacitors in District 79.31%.
  - Number of subsurface regulators / capacitors inspected during current inspection cycle coded as needing maintenance activity 0. Subsurface regulators / capacitors needing maintenance as a % of subsurface regulators / capacitors inspected during current inspection cycle 0%.
  - % Of needed corrective actions completed during 12 month cycle 100%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:

UNDERGROUND SUBSURFACE EQUIPMENT INSPECTIONS (Cont.)

- **North Coast District**

  - Transformers
  - Number of subsurface transformers in District 139.
  - Number of subsurface transformers inspected during reporting year 29. Inspected subsurface transformers as a % of subsurface transformers in District 20.86%.
  - Number of subsurface transformers inspected during current inspection cycle 62. Inspected subsurface transformers as a % of subsurface transformers in District 44.60%.
  - Number of subsurface transformers inspected during current inspection cycle coded as needing maintenance activity 25. Subsurface transformers needing maintenance as a % of subsurface transformers inspected during current inspection cycle 86.21%.
  - % Of needed corrective actions completed during 12 month cycle 100%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:

  - Regulators / Capacitors
  - Number of subsurface regulators / capacitors in District 0.
  - Number of subsurface regulators / capacitors inspected during reporting year 0. Inspected subsurface regulators / capacitors as a % of subsurface regulators / capacitors in District 0.
  - Number of subsurface regulators / capacitors inspected during current inspection cycle 0. Inspected subsurface regulators / capacitors as a % of subsurface regulators / capacitors in District 0.
  - Number of subsurface regulators / capacitors inspected during current inspection cycle coded as needing maintenance activity 0. Subsurface regulators / capacitors needing maintenance as a % of subsurface regulators / capacitors inspected during current inspection cycle 0%.
  - % Of needed corrective actions completed during 12 month cycle 100%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:

UNDERGROUND SUBSURFACE EQUIPMENT INSPECTIONS (Cont.)

- **Northeast District**

  - Transformers
  - Number of subsurface transformers in District 190.
  - Number of subsurface transformers inspected during reporting year 6. Inspected subsurface transformers as a % of subsurface transformers in District 3.16%.
  - Number of subsurface transformers inspected during current inspection cycle 10. Inspected subsurface transformers as a % of subsurface transformers in District 5.26%.
  - Number of subsurface transformers inspected during current inspection cycle coded as needing maintenance activity 3. Subsurface transformers needing maintenance as a % of subsurface transformers inspected during current inspection cycle 50%.
  - % Of needed corrective actions completed during 12 month cycle 100%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:

  - Regulators / Capacitors
  - Number of subsurface regulators / capacitors in District 0.
  - Number of subsurface regulators / capacitors inspected during reporting year 0. Inspected subsurface regulators / capacitors as a % of subsurface regulators / capacitors in District 0.
  - Number of subsurface regulators / capacitors inspected during current inspection cycle 0. Inspected subsurface regulators / capacitors as a % of subsurface regulators / capacitors in District 0.
  - Number of subsurface regulators / capacitors inspected during current inspection cycle coded as needing maintenance activity 0. Subsurface regulators / capacitors needing maintenance as a % of subsurface regulators / capacitors inspected during current inspection cycle 0%.
  - % Of needed corrective actions completed during 12 month cycle 100%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:

UNDERGROUND SUBSURFACE EQUIPMENT INSPECTIONS (Cont.)

- **Orange County District**

  - Transformers
  - Number of subsurface transformers in District 320.
  - Number of subsurface transformers inspected during reporting year 73. Inspected subsurface transformers as a % of subsurface transformers in District 22.81%.
  - Number of subsurface transformers inspected during current inspection cycle 170. Inspected subsurface transformers as a % of subsurface transformers in District 53.13%.
  - Number of subsurface transformers inspected during current inspection cycle coded as needing maintenance activity 27. Subsurface transformers needing maintenance as a % of subsurface transformers inspected during current inspection cycle 36.99%.
  - % Of needed corrective actions completed during 12 month cycle 100%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:

  - Regulators / Capacitors
  - Number of subsurface regulators / capacitors in District 0.
  - Number of subsurface regulators / capacitors inspected during reporting year 0. Inspected subsurface regulators / capacitors as a % of subsurface regulators / capacitors in District 0.
  - Number of subsurface regulators / capacitors inspected during current inspection cycle 0. Inspected subsurface regulators / capacitors as a % of subsurface regulators / capacitors in District 0.
  - Number of subsurface regulators / capacitors inspected during current inspection cycle coded as needing maintenance activity 0. Subsurface regulators / capacitors needing maintenance as a % of subsurface regulators / capacitors inspected during current inspection cycle 0%.
  - % Of needed corrective actions completed during 12 month cycle 100%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:

Underground Switch (Pad mounted and sub-surface) INSPECTIONS

- Detailed inspections of all underground switches, both pad mounted and subsurface, in the underground system are performed on a 3-year cycle. Approximately 33% of SDG&E's total population of these pieces of equipment are inspected annually. Small variations in inspected percentages may occur yearly, but 100% will be completed every 3 years. This is the 2nd year of the cycle.
- A detailed inspection of underground switches requires that each equipment location, pad mount or subsurface enclosure be visited and opened so that the equipment within can be carefully examined visually for conformance to CPUC General Order 128 requirements. In addition, oil filed switches will have the oil sampled and processed by the lab for conformance with SDG&E standards.

UNDERGROUND SWITCH INSPECTIONS

- **Beach Cities District**

  - Number of underground switches in District 2,254.
  - Number of underground switches inspected during reporting year 880. Inspected underground switches as a % of equipment in sub-surface enclosures in District 39.04%.
  - Number of underground switches inspected during current inspection cycle 1396. Inspected underground switches as a % of equipment in sub-surface enclosures in District 61.93%.
  - Number of underground switches inspected during current inspection cycle coded as needing maintenance activity 167. Number of underground switches needing maintenance as a % of the number of underground switches inspected during current inspection cycle 18.98%.
  - % Of needed corrective actions completed during 12 month cycle 97.60%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:
      - M2418773245 - ETA 12/31/2000 - Group switch corroded, to Real Estate Operations to acquire right-of-way to raise and padmount.
      - M2578170034 - ETA 12/31/2000 - Group switch leaking, to Real Estate Operations to acquire right-of-way to raise and padmount.
      - M2613069420 - ETA 6/30/2000 - Group switch corroded, part of planned circuit upgrade to be constructed.
      - M2629069370 - ETA 6/30/2000 - Group switch corroded, part of planned circuit upgrade to be constructed.

UNDERGROUND SWITCH INSPECTIONS (Cont.)

- **Eastern District**

  - Number of underground switches in District 845.
  - Number of underground switches inspected during reporting year 233. Inspected underground switches as a % of equipment in sub-surface enclosures in District 27.57%.
  - Number of underground switches inspected during current inspection cycle 439. Inspected underground switches as a % of equipment in sub-surface enclosures in District 51.95%.
  - Number of underground switches inspected during current inspection cycle coded as needing maintenance activity 100. Number of underground switches needing maintenance as a % of the number of underground switches inspected during current inspection cycle 42.92%.
  - % Of needed corrective actions completed during 12 month cycle 100%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:

UNDERGROUND SWITCH INSPECTIONS (Cont.)

- **Metro District**

  - Number of underground switches in District 1,732.
  - Number of underground switches inspected during reporting year 640. Inspected underground switches as a % of equipment in sub-surface enclosures in District 36.95%.
  - Number of underground switches inspected during current inspection cycle 1,143. Inspected underground switches as a % of equipment in sub-surface enclosures in District 65.99%.
  - Number of underground switches inspected during current inspection cycle coded as needing maintenance activity 164. Number of underground switches needing maintenance as a % of the number of underground switches inspected during current inspection cycle 25.63%.
  - % Of needed corrective actions completed during 12 month cycle 100%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:

UNDERGROUND SWITCH INSPECTIONS (Cont.)

- **North Coast District**

  - Number of underground switches in District 1,234.
  - Number of underground switches inspected during reporting year 308. Inspected underground switches as a % of equipment in sub-surface enclosures in District 24.96%.
  - Number of underground switches inspected during current inspection cycle 564. Inspected underground switches as a % of equipment in sub-surface enclosures in District 45.70%.
  - Number of underground switches inspected during current inspection cycle coded as needing maintenance activity 186. Number of underground switches needing maintenance as a % of the number of underground switches inspected during current inspection cycle 60.39%.
  - % Of needed corrective actions completed during 12 month cycle 100%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:

UNDERGROUND SWITCH INSPECTIONS (Cont.)

- **Northeast District**

  - Number of underground switches in District 1,212.
  - Number of underground switches inspected during reporting year 433. Inspected underground switches as a % of equipment in sub-surface enclosures in District 35.73%.
  - Number of underground switches inspected during current inspection cycle 866. Inspected underground switches as a % of equipment in sub-surface enclosures in District 71.45%.
  - Number of underground switches inspected during current inspection cycle coded as needing maintenance activity 278. Number of underground switches needing maintenance as a % of the number of underground switches inspected during current inspection cycle 64.20%.
  - % Of needed corrective actions completed during 12 month cycle 100%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:

UNDERGROUND SWITCH INSPECTIONS (Cont.)

- **Orange County District**

  - Number of underground switches in District 754.
  - Number of underground switches inspected during reporting year 265. Inspected underground switches as a % of equipment in sub-surface enclosures in District 35.15%.
  - Number of underground switches inspected during current inspection cycle 524. Inspected underground switches as a % of equipment in sub-surface enclosures in District 69.50%.
  - Number of underground switches inspected during current inspection cycle coded as needing maintenance activity 103. Number of underground switches needing maintenance as a % of the number of underground switches inspected during current inspection cycle 38.87%.
  - % Of needed corrective actions completed during 12 month cycle 99.99%. *
    - If this answer is not 100% explain and provide date corrective actions to be completed by:
      - M4796555885 - ETA 12/31/2000 - Subsurface group switch, zero gas pressure, job created 4/12/2000 to raise and padmount.

INTRUSIVE POLE INSPECTION

Wood Pole

- Intrusive inspections of all poles in the overhead system are performed in conformance with CPUC General Order 165 requirements. Approximately 10% of SDG&E's poles over 15 years of age, that have not had a previous intrusive inspection, will be inspected annually, creating a 10 year inspection cycle. This is the 2nd year of the cycle. SDG&E poles that are older than 15 years and have had a previous intrusive inspection will be inspected on a 20-year cycle with approximately 5% of these poles being inspected annually. This is the 2nd year of the cycle.
- Small variations in inspected percentages may occur yearly, but 100% will be completed in conformance with CPUC General Order 165 requirements.
- The intrusive pole testing program at SDG&E is a centralized program that systematically addresses all SDG&E poles on a system wide basis and not on a district by district process. Program direction and records are handled on a centralized basis.
- Intrusive testing of wood poles is normally accomplished by excavating about the pole base and/or a sound and bore of the pole about the groundline area for conformance to CPUC General Order 95 requirements.

10 Year Inspection Cycle

- Number of poles in Company 231,889.
- Number of poles inspected during reporting year 24,472. Inspected poles as a % of poles in Company 10.6%.
- Number of poles inspected during current inspection cycle 48,086. Inspected poles as a % of poles in Company 20.7%.
- Number of poles inspected during current inspection cycle coded as needing maintenance activity 898. Number of poles needing maintenance as a % of the number of poles inspected during current inspection cycle 3.7%.
- % Of needed corrective actions completed during 12 month cycle 99.99%. *
- If this answer is not 100% explain and provide date corrective actions to be completed by:

20-Year Inspection Cycle - SDG&E is inspecting all wood poles on a 10-year cycle at this time.

- Number of poles in Company ____NA___
- Number of poles inspected during reporting year ____NA____. Inspected poles as a % of poles in Company ___NA____.
- Number of poles inspected during current inspection cycle ___NA_____. Inspected poles as a % of poles in Company.

INTRUSIVE POLE INSPECTION (Cont.)

- Number of poles inspected during current inspection cycle coded as needing maintenance activity ___NA___. Number of poles needing maintenance as a % of the number of poles inspected during current inspection cycle __NA__ %.
- % Of needed corrective actions completed during 12 month cycle ____NA_____. *

- If this answer is not 100% explain and provide date corrective actions to be completed by:

ATTACHMENT

“A”