SOUTH LAKE TAHOE, CALIFORNIA

2nd Revised CPUC Sheet No. 42 Canceling 1st Revised CPUC Sheet No. 42

## PRELIMINARY STATEMENT

(Continued)

# ELECTRIC AND MAGNETIC FIELDS (EMF) MEASUREMENT POLICY

#### Α. Purpose

The purpose of Liberty Utilities (Calpeco Electric)LLC's (Liberty's)Electric and Magnetic Fields Measurement Policy is to conduct magnetic field 'spot' measurements for customers and employees on request. Customers include, but are not limited to, residential and business customers, parents, realtors and potential home buyers, employers and employees interested in workplace exposures, as well as public agencies and/or schools.

This EMF Measurement Policy is being set forth in compliance with Ordering Paragraph 10 of the Interim Order in Decision 93-11-013 (I.91-01-012), dated November 2, 1993.

#### B. Introduction to EMF

"EMF" is a convenient acronym for electric and magnetic fields or electromagnetic fields. Electric fields are associated with the voltage of the source; magnetic fields are associated with the current. Electric fields are measured in units of kilovolts per meter (kV/M); magnetic fields are measured in units of Gauss (G) or thousandths of a Gauss, called milligauss (mG). The earth itself has a static or DC magnetic field of about 0.5 Gauss (500 mG). Normally, we speak of magnetic fields associated with transmission and distribution systems, as well as everyday electricity use, in terms of milligauss.

Most electricity in the United States is alternating current (AC) and operates at a frequency of 60 Hertz (cycles per second). Power-frequency (that is, 60 Hertz) EMF exist everywhere there is electricity, including common home appliances, power tools, office equipment, video games and electric lines. EMF levels are higher close to their source and decrease rapidly with distance. For example, EMF levels near appliances can range from tens to thousands of milligauss, but virtually disappear at distances of more than five feet. EMF levels in the vicinity of electric lines are within the range of those encountered daily in homes, offices, shopping malls, and other locations where there is electricity.

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## PRELIMINARY STATEMENT

(Continued)

# **ELECTRIC AND MAGNETIC FIELDS (EMF) MEASUREMENT POLICY** (Continued)

C. Types of Measurement/Measurement Interpretation

> The health questions which are currently being discussed and/or researched generally focus on exposure to magnetic fields. Therefore, Liberty conducts only the magnetic field measurements.

> Liberty does not provide detailed diagnostic analysis of the sources of magnetic field measurements and/or the interpretation of the magnetic field readings. Literature on EMF survey is provided to enable the customer to compare the results of the readings provided by Liberty with those typically found in similar situations.

> Liberty is not a health expert, and we rely on scientific and medical experts to assess and make recommendations on EMF studies. Although science does not provide any specific information on safe or unsafe magnetic field levels, we will share with the customer any information we have on this issue.

D. How Does the Customer Schedule a Reading

If a customer requests information on EMF, Liberty will mail out an information packet which contains the following brochures:

- Your Guide to Understanding EMF, Culver Company
- Electric and Magnetic Fields: Measurement and Possible Effects on Human Health, California Department of Health Services
- Questions & Answers About Electric and Magnetic Fields (EMF's), EPA

If a customer requests magnetic field measurement, a pre-measurement telephone discussion is held with the customer and the measurement appointment is scheduled. Once the appointment is arranged, Liberty's representative visits the customer's home or business, completes the measurements, and records the results on the Measurement Data Form. It is normally required that the person requesting the survey be present to participate in the survey process. If not previously provided, the literature normally mailed to the customer will be provided at the time of the visit for Measurement.

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# PRELIMINARY STATEMENT

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## 14. ELECTRIC AND MAGNETIC FIELDS (EMF) MEASUREMENT POLICY (Continued)

D. How Does the Customer Schedule a Reading (Continued)

A copy of the Measurement Data Form and a letter are normally mailed to the customer within a week.

E. Measurement Protocol

Liberty follows Residential Magnetic Field Measurement Protocol similar to the one developed by California Department of Health Service. Liberty requires written permission of an authorized person prior to conducting a measurement. A verbal permission at the time of measurement may suffice. An authorized person is the property owner or the person who is responsible for the account at the location being measured. It does not include real estate agents or brokers.

Copies of the written magnetic field measurement results will be provided only to the property owner, the customer or an authorized representative of the owner or the customer.

F. Meter Loan

Liberty does not have a meter loan program. Occasionally a magnetic field meter may be loaned or left with a customer as an educational tool, but only after a Liberty representative has discussed the EMF issue, measurement limitations and discussed different types of magnetic field sources.

G. Types of Meter

Liberty primarily uses EMDEX II (three axis) meter for conducting magnetic field measurements.

H. Tracking of Costs (California Customers)

Liberty will provide reasonable magnetic field measurement service at no cost to the customer.

To comply with the California Public Utilities Commission decision, we will be tracking the time spent with the customer inside the home, along with the total time spent on information package/consultation, round-trip travel, measurements outside the home, and report preparation etc.

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