



# DIVISION OF WATER RESOURCES

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**DATE:** APRIL 1, 2008

**TO:** APPROVED WELL TESTERS  
GROUND WATER ASSOCIATIONS  
ASSOCIATION CONSULTANTS

**FROM:** CHRISTINE M. LYTLE, GROUND WATER OPERATIONS COORDINATOR  
DIVISION OF WATER RESOURCES, DIVISION 2

**SUBJECT: MEASUREMENT RULE POLICY 2008-03.0B**

- ◆ ALLOWABLE VARIANCE TO AMENDED MEASUREMENT RULE 3: PRIVATELY-OWNED ELECTRIC METERS (AKA SLAVE METER)
- ◆ **EFFECTIVE DATE: APRIL 11, 2008**

## PURPOSE

This MEASUREMENT RULE POLICY pertains to RULE 3 of the AMENDED RULES GOVERNING THE MEASUREMENT OF TRIBUTARY GROUND WATER DIVERSIONS LOCATED IN THE ARKANSAS RIVER BASIN (AMENDED MEASUREMENT RULES). RULE 3 states that all Wells subject to the AMENDED MEASUREMENT RULES must either have a TOTALIZING FLOW METER (TFM) or be rated for a POWER CONSUMPTION COEFFICIENT (PCC).

**PRIVATELY-OWNED ELECTRIC METERS** includes any meter that records power usage for operation of a mechanical device, such as a pump. Power usage is usually measured as kilowatt hours. Such meters are generally known as **SLAVE METERS**. Use of **PRIVATELY-OWNED ELECTRIC METERS (AKA SLAVE METER)**, in addition to or in lieu of a TFM or a PCC for a POWER COMPANY METER, will be approved only for the ALLOWABLE USES stated below.

## **This POLICY repeals and replaces:**

- ◆ MEASUREMENT RULE POLICY 2006-03.0B "ALLOWABLE VARIANCE TO AMENDED MEASUREMENT RULE 3: PRIVATELY-OWNED ELECTRIC METERS (AKA SLAVE METER)"
  - Dated February 15, 2006 ..... Repealed and Replaced in its entirety

## **Changes from previous policies related to this issue include:**

- ◆ **A phased elimination of the use of SLAVE METERS:**
  - No additional **SLAVE METERS** will be allowed as valid MEASUREMENT METHODS effective immediately.
  - Existing **SLAVE METERS** must be replaced by the expiration of the current MEASUREMENT TEST.
    - Because verification of **SLAVE METERS** is dependent upon determining a POWER CONSUMPTION COEFFICIENT, **SLAVE METERS** are subject to AMENDED MEASUREMENT RULE 3.2 which requires a two-year testing cycle.

**ALLOWABLE USES OF SLAVE METER**

SLAVE METERS ARE **prohibited** for use on **COMPLEX SYSTEMS**. COMPLEX SYSTEMS are defined by the AMENDED MEASUREMENT RULES as those " ... where the total dynamic head at the pump will vary due to multiple discharge locations in a pipeline, or where the method of delivery will vary between open discharge, gated pipe, or sprinkler system during a single irrigation season, or where multiple wells discharge into a common pipeline."

**EXISTING SLAVE METERS**

PRIVATELY-OWNED SLAVE METERS **currently in-place** and previously-approved for use, will **continue to be allowed** on systems where more than one device is operated by a POWER COMPANY ELECTRIC METER (COMPOUND SYSTEM) **provided that** the WELL is not part of a COMPLEX SYSTEM.

On or **before the expiration date of the currently approved MEASUREMENT TEST**, **existing SLAVE METERS must be replaced** by a TFM, verified by a CERTIFIED WATER WELL METER TESTER, or a PCC rating for the POWER COMPANY METER must be established by a CERTIFIED WATER WELL METER TESTER.

**NEW SLAVE METERS**

**New SLAVE METERS**, whether as a replacement to a previous SLAVE METER or as a newly-installed MEASURING DEVICE, **will not be approved** as meeting the requirements of the AMENDED MEASUREMENT RULES.

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If you have questions about this or other MEASUREMENT RULE POLICIES, contact DIVISION 2 GROUND WATER OPERATIONS at 719.542.3368: Dan DiRezza (Ext. 2202), Dale Baker (Ext. 2121) or Chris Lytle (Ext. 2108).