



DIVISION OF WATER RESOURCES

BILL RITTER, JR.
GOVERNOR
HARRIS D. SHERMAN
EXECUTIVE DIRECTOR
DICK WOLFE, P.E.
DIRECTOR/STATE ENGINEER
STEVEN J. WITTE, P.E.
DIVISION ENGINEER

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 2008-03.2B

- ◆ CLARIFICATION OF AMENDED MEASUREMENT RULE 3.2: PCC RE-RATING FREQUENCY
- ◆ **EFFECTIVE DATE: APRIL 11, 2008**

PURPOSE

The purpose of this MEASUREMENT RULE POLICY is to clarify revisions to the required frequency of re-rating ELECTRIC POWER METERS by the POWER CONSUMPTION COEFFICIENT (PCC) RATING METHOD.

This POLICY repeals and replaces the following previously-issued POLICY:

- ◆ MEASUREMENT RULE POLICY 2007-03.2B "CLARIFICATION OF AMENDED MEASUREMENT RULE 3.2: PCC RE-RATING FREQUENCY"
 - Dated October 1, 2007..... Repealed and Replaced in its entirety

REVISIONS TO AMENDED MEASUREMENT RULES

With the 1996 adoption of the AMENDMENTS TO RULES GOVERNING THE MEASUREMENT OF TRIBUTARY GROUND WATER DIVERSIONS LOCATED IN THE ARKANSAS RIVER BASIN (1996 AMENDED MEASUREMENT RULES), all WELLS subject to those RULES must either have a TOTALIZING FLOW METER (TFM) or be rated for a PCC a minimum of once every four years.

In 2006, DIVISION 2 WATER COURT issued an ORDER approving AMENDED RULES GOVERNING THE MEASUREMENT OF TRIBUTARY GROUND WATER DIVERSIONS LOCATED IN THE ARKANSAS RIVER BASIN, REVISED NOVEMBER 30, 2005 (CASE No. 05CW088 dated DECEMBER 1, 2006). One of the most significant revisions approved with the 2006 AMENDED MEASUREMENT RULES was a change to RULE 3.2:

3.2 The State Engineer may adopt standards and specifications for power coefficient testing. As a minimum, power coefficients shall: be determined utilizing rating procedures approved by the State Engineer and conducted under the supervision of an individual or entity annually approved by the State Engineer to do such tests; be conducted when the pumping system has stabilized, i.e., both operating pressure and pumping drawdown has not changed more than 10% in the last hour; have been determined on or after April 1, 1992; include the pumping drawdown and operating pressure at the time the test was conducted; and be updated through re-rating at least every two years. The Division Engineer shall be **provided notice of the re-rating on a form approved by the Division Engineer**.

IMPLEMENTATION OF REVISED PCC RE-RATING FREQUENCY

At the time that the 2006 AMENDED MEASUREMENT RULES came into effect, over 400 WELLS were identified as having PCC RATINGS. To moderate the impact of the RULE change, DIVISION 2 developing a phased implementation plan and notified WELL OWNERS of the revised TESTING FREQUENCY.

DIVISION 2 will continue to notify WELL OWNERS/USERS 60- to 90-days prior to expiration of current Tests. DIVISION 2 also provides lists of WELLS/METERS with Measurement Tests approaching expiration to the appropriate WELL USERS ASSOCIATIONS and to TESTERS upon request.

OTHER CONDITIONS REQUIRING A PCC RE-RATING

The requirements of RULE 3.5 as stated in the 1996 AMENDED MEASUREMENT RULES remain substantially the same with the 2006 AMENDED MEASUREMENT RULES. Only the minimum frequency was changed to match the revisions to RULE 3.2:

3.5 Re-rating of power coefficients shall be required more frequently than every **two** years if any of the Following occur:

3.5.1 A new or re-worked pump and/or motor is installed on the well.

3.5.2 The well is re-worked to change the yield of the well.

3.5.3 The system that the pump discharges into is modified in such a manner as to change the power coefficient or the discharge of the pump.

3.5.4 Any other alteration to the system which changes the discharge of the pump or power coefficient.

3.5.5 Additional tests may also be required if the Division Engineer conducts or reviews tests and determines an error was made.

If any of the above condition is found to exist, the WELL OWNER/USER will be notified by WRITTEN ORDER that a PCC RE-RATING is required.

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).