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## ARIZONA DEPARTMENT OF AGRICULTURE

### WEIGHTS AND MEASURES SERVICES DIVISION

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To: Vapor Recovery Registered Service Agencies

From: Vince Wolpert, Compliance Manager

Date: April 20, 2023

RE: New Stage I Vapor Recovery Testing Requirement

On February 3, 2023, a Notice of Final Rulemaking was published in the Arizona Administrative Register updating the Arizona Administrative Code, Title 3, Chapter 7, Article 10, effective March 5, 2023. The rulemaking includes a new requirement to conduct the CARB TP-201.1B Static Torque Test:

- At new and modified stage I vapor recovery installations as part of the Authority to Construct permitting process in areas A and B; and
- During annual stage I vapor recovery testing in area A.

The links to maps showing the boundaries for areas A and B may be found at <https://agriculture.az.gov/weights-measures/fueling/gasoline-vapor-recovery>.

At this time, we are preparing to implement the new test procedure. **We anticipate the start of this testing following our stage I vapor recovery training in July.**

In order to prepare for conducting this new test later this year, you should do the following:

1. Obtain a copy of CARB TP-201.1B, "Static Torque of Rotatable Phase I Adaptors" at: <https://ww2.arb.ca.gov/our-work/programs/vapor-recovery/vapor-recovery-certification-and-test-procedures>
2. Purchase the necessary equipment to conduct the test. Review Section 5 "Equipment" of the test procedure regarding requirements for:
  - a. Torque wrench
  - b. Static Torque Test Assembly; and
  - c. Socket wrench and socket extension. Please note per section 7.4, the socket extension shall not exceed 12 inches in length.

Make sure the torque wrench to be purchased meets the requirements outlined in Section 4 "Sensitivity, Range, and Precision." These requirements include a maximum

full scale range up to 250 pound-inches, readability of 5 pound-inch increments, and a 3% full scale accuracy. It shall incorporate an ability to identify the maximum applied torque.

While we do not recommend any particular brand, the following have been determined to meet the requirements:

- a. Snap-On® Model TER12FUA Torque Wrench or equivalent. Some equivalent torque wrenches that we have found online include:
    - i. CDI Torque Dial Indicating Torque Wrench Model 2502LDIN
    - ii. WESTWARD Electronic Torque Wrench Model 4RYL2
    - iii. PROTO Electronic Torque Wrench Model J6345
  - b. One of the following:
    - i. Emco Wheaton Model 494240 Swivel Adaptor Torque Test Wrench;
    - ii. OPW 61SA-TOOL; or
    - iii. Phil Tite T-7104 (Franklin Fueling); and
  - c. New vapor recovery fill and vapor caps and associated gaskets for use during testing
3. Train vapor recovery testing staff. The San Diego Air Pollution Control District has prepared a video on conducting the torque test, which may be used to train staff on the torque test procedures:
- [https://www.youtube.com/watch?v=a-83LpFFNc&feature=player\\_embedded](https://www.youtube.com/watch?v=a-83LpFFNc&feature=player_embedded)
- Please note that while the video states that specific equipment is required for use depending on the model of the swivel adaptor, WMSD has been informed that this equipment is interchangeable. For example, you can use an EMCO Wheaton or Phil Tite Swivel Adaptor Torque Test Wrench (tool) to test an OPW swivel adaptor, or vice versa.
4. A copy of the testing form will be provided prior to implementation.
  5. Please be aware that sites are required to be maintained as approved in the Authority to Construct Permit/ Plan Approval. Therefore sites must replace equipment like-for-like (you may not replace a rotatable adaptor with a non-rotatable adaptor).

Please email [dwm@azda.gov](mailto:dwm@azda.gov) or call me at 602-920-4236 if you have any questions regarding this new testing procedure.