

ORIGINAL



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ORANGE GROVE WATER CO., INC.
P.O. BOX 889
YUMA, AZ 85366
928-726-8272

June 21, 2010

Arizona Corporation Commission
Utilities Division
1200 W Washington St.
Phoenix, Az 85007

RE: DOCKET NO: W-02237A-08-0455 DECISION NO: 71110 DATED 6/5/2009

Dear Sir,

Orange Grove Water Co., Inc. has a compliance order to submit a Certificate of APPROVAL TO CONSTRUCT a water storage tank. Compliance due date for the ATC is 6/30/10.

We have submitted our PER and application to ADEQ. Enclosed is a copy of the letter from ADEQ stating that our application is not substantively complete. We have a meeting set with ADEQ for 6/23/10. As we do not know how long it will take us to meet their requirements I am requesting an extension to 9/30/10.

Sincerely,

Orange Grove Water Co., Inc.
Kathleen Day, President

Arizona Corporation Commission

DOCKETED

JUN 28 2010

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AZ CORP COMMISSION
DOCKET CONTROL

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Janice K. Brewer
Governor

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

1110 West Washington Street • Phoenix, Arizona 85007
(602) 771-2300 • www.azdeq.gov



Benjamin H. Grumbles
Director

OWNER

June 14, 2010

Mr. Blake E. Abts, PE
Tres Rios Consulting Engineers, Inc.
230 W. Baseline Road, Suite 101A
Temp, Arizona 85282

Re: Orange Grove Water Company
Storage Tank, Booster Pumps, Variable Frequency Drive and Yard Piping
ADEQ File No. 20100110

Dear Mr. Abts:

The Technical Engineering Unit (TEU) of the Arizona Department of Environmental Quality (ADEQ) has reviewed your submittal for the Orange Grove Water Company Storage Tank, Booster Pumps, Variable Frequency Drive and Yard Piping located in Somerton, Arizona. We regret to inform you that at this time a Certificate of Approval to Construct (ATC) cannot be issued.

ADEQ's review of this application is subject to the requirements of the licensing time frames ("LTF") statute under Arizona Revised Statutes ("A.R.S.") § 41-1072 through § 41-1079 and the LTF rules under Arizona Administrative Code ("A.A.C.") R18-1-501 through R18-1-525. **Under A.R.S. § 41-1075(A), ADEQ has determined your application is not substantively complete because it is missing the relevant information for Substantive Completeness.** This Notice suspends the time frame for the review of your application as of the date of this Notice. To complete this application and resume the licensing time frame you must provide the following missing information:

General:

1. The proposed Storage Tank and Booster Pumps will receive potable water from existing Wells. Are these existing Wells part of an approved distribution system(s)? If so, provide the ADEQ File Number (YEARXXXX) or Licensing Time Frame (LTF) Number or copy of State of Arizona approval letter of the approved Wells. If not, please provide an additional ATC application for the Wells. If the Wells was installed prior to January 1993

Northern Regional Office
1801 W. Route 66 • Suite 117 • Flagstaff, AZ
86001
(928) 779-0313

Southern Regional Office
400 West Congress Street • Suite 433 • Tucson, AZ
85701
(520) 628-6733

an ATC application will not be required if evidence can be provided showing the actual installation date.

2. Per Arizona Administrative Code (AAC) R18-5-505.B.1, Approval to Construct; requires that...“An application for Approval to Construct, including the following documents and data in ACC R18-5-505.B.1. a-e, shall be submitted to the Department”: Please provide a revised “ATC Application” for the proposed work that includes the following missing information:
 - a. **1. Project Information-** Provide revised “Project Description” that does not include New Source Well; and
 - b. **10. Public Water Supply Distribution System Information -** Provide all information requested in A, B, and C.
3. Provide a “Materials and Quantities List” on the cover sheet of the engineering plans that is included in the proposed ATC Application. Include pipe diameter/type/class and lengths, and number and types of valves, hydrants, service connections, all major proposed equipment such as number of booster pumps, horsepower ratings and discharge capacities, tank(s) capacity etc.
4. Per Bulletin No. 10 “Guidelines for the Construction of Water Systems”, Bulletin 10, Chapter 7.B, Materials; requires that...“Pipe, fittings, valves, fire hydrants, and other appurtenances shall conform to the current standards of the American Water Works Association, American Standards Association or the federal Government”. If true, please provide “Water Note” on engineering plans.
5. Per AAC R18-4-213.C, Standards for Additives, Materials, and Equipment; requires that...“Evidence that a product conforms to the requirements of this Section shall be the appearance on the product or product package of a seal of a certifying entity that is accredited by the American National Standards Institute to provide certification”. If true, please provide a “Water Note” on engineering plans that the piping and fittings proposed bears the seal of the National Sanitation Foundation.
6. Per Bulletin No. 10, Chapter 6.E.1.a, Location; requires that...“The bottom of ground storage units shall be placed at the normal ground surface and shall be either above the 100-year flood level or protected from the 100-year flood. If such location or protection cannot be provided, provisions shall be made permitting isolation of the storage unit and protection of the other waterworks facilities from contamination during flood periods”. Provide elevations of top of area 100-year flood level and bottom of Storage Tank and show on engineering plans and also provide a copy of the FEMA Map Panel and show project location on Map Panel.
7. Per AAC R18-4-213.B & .E, Standards for Additives, Materials, and Equipment; requires that...“a material and product installed after January 1, 1993, that comes into contact with water or a water treatment chemical shall conform to “ANSI/NSF Standard 61”. The plans show that “Galvanized Steel Pipe and Fittings” will be utilized in the design. If

galvanized pipe or fittings are part of the distribution system and is a so-called *wet part* it must be National Sanitation Foundation (NSF) Standard 61 certified. It is the position of ADEQ not to accept galvanized pipe for potable waterlines because of their propensity to corrode unless approved by NSF. If the material in question is a so-called *wet part*, please provide the Manufacture Information that shows the galvanized steel pipe and fittings are NSF Standard 61 approved for potable water use. The pipe and fittings should bear the NSF Standard 61 seal of approval. Otherwise, please use pipe and fittings that is NSF Standard 61 approved.

8. Provide four (4) complete sets of "Sealed" "Final Engineering Plans" that satisfy the above and below items.

Storage Tanks:

9. Per Bulletin No. 10 "Guidelines for the Construction of Water Systems", Bulletin No. 10, Chapter 6.D, Capacity; requires that..."Storage facilities should have sufficient capacity, as determined from engineering studies, to help meet domestic demands, and where fire protection is provided, fire flow demands". Report provided with the ATC Application showed that the actual quantity of drinking water used by Orange Grove Water Company in June 2008 was 108,662 gallons and the fireflow requirements are 120,000 gallons, totaling daily storage of 220,662 gallons. AAC R18-5-503.B, Storage Requirements; states that..."The minimum storage capacity for a multiple-well system for a CWS or a noncommunity water system that serves a residential population or a school may be reduced by the amount of the total daily production capacity minus the production from the largest producing well". The current system has 2 wells with Well 2 (55-809347) producing 55 gpm (79,200 gpd) and Well # (55-84965) producing an unknown quantity. AAC R18-5-503.B allows Well 2 production quantity to be removed from the total storage capacity required, since Well 3 produces an unknown quantity, resulting in required storage capacity of 141,462 gallon. If these facts are correct, the proposed 100,000 gallon storage tank is insufficient. Please provide a larger storage tank or demonstrate that the current proposed 100,000 gallon storage tank is satisfactory.
10. Per Bulletin 10, Chapter 6.E.9.c, Vents; requires that..."Finished water storage units shall be vented. Overflows shall not be considered as vents. Open construction between the sidewall and roof is not permissible. (c) shall, exclude insects and dust, as much as this function can be made compatible with effective venting: for elevated tanks and standpipes, 16-mesh noncorrodible screen may be used". Provide a "Storage Tank Vent" with 16-mesh non-corrodible screen, show and label on engineering plans.
11. Per Bulletin No. 10, Chapter 6.E.8.c & .d, ACCESS, requires that..."Finished water storage units shall be designed with reasonable convenient access to the interior for cleaning and maintenance. Manholes or roof hatches above the waterline: (c) should be hinged at one side, and (d) shall have a locking device". If the storage tank has or will have a locking device on the roof hatch, please provide detail and label on engineering

plans. If not, provide "Roof Hatch Locking Device" on "Storage Tank" and show on engineering plans.

12. Per Bulletin No. 10, Chapter 6.E.12.a, SAFETY, requires that... "As a minimum, the following safety features shall be provided:" "Interior and exterior ladders, ladder guards...etc". Provide "Interior Ladder" on "Storage Tank" and show on engineering plans.

Booster Pumps:

13. Per Bulletin No. 10, Chapter 3.C.1, Pumping Units and Appurtenances; requires that... "Pumps shall be of suitable type, have adequate capacity for the intended purpose, and shall be installed in accordance with the manufacturer's direction". The "Water Supply Facilities Upgrades" report showed maximum day flow rate of 300 gpm and the fire flow rate of 1,000 gpm. This results in total flow rate of 1,300 gpm. The proposed booster pumps are rated as 150 gpm each (2 proposed) and 1-20 gpm maintenance pump. The proposed booster pumps do not meet the total flow rate if the fire flow requirements are to be met. Please provide booster pumps with capacity to meet all flow rate requirements. Revise report and engineering plans as required.
14. Per Bulletin No. 10, Chapter 3.C.5, Pressure Reliefs; requires that... "Sudden changes in the velocity of water in a system cause pressure surges which can seriously damage system elements, and allow entry of pollutants. Surge can be caused by valve or automatic control system malfunction pipe line breaks, or any one of a number of system failures. Each discharge line and each suction line which is subject to surging flows shall be adequately protected against excessive pressures and vacuums, and provisions shall be made to remove entrained air by means of pressure and vacuum-relief valves, surge tanks, air-relief valves or other means which will be dependable under all probable conditions". Provide means of discharge line protection from excessive pressures and vacuums and show on engineering plans.
15. Per Bulletin No. 10, Chapter 3.C.7, Gages and Meters; requires that... "Each pump shall have a standard bourdon-type gauge, or its equivalent, upon its discharge line. A similar gauge or means for pressure measurement should be provided, where necessary, upon its suction line. Provide a pressure gauge on the discharge line of each booster pump and show on engineering plans.
16. Per Bulletin No. 10, Chapter 3.C.7, Gages and Meters; requires that... "Satisfactory means should be provided for measuring the discharge of each pump, preferably by means of a calibrated meter. Wherever practicable, means should be provided for measuring the total water pumped by the station, preferably by an indicating, recording and integrating meter. Provide "Totalizing Measuring Device" on the discharge side of the "Booster Pump Station" and show on engineering plans.

Variable Frequency Drive:

17. Does each Booster Station Pump have its own Variable Frequency Drive (VFD) or will one VFD control all the pumps? It is the policy of ADEQ Engineering Review Section that at-least 2-VFD's are part of the control system with each capable of operating the system on its own, thus 50% redundancy is required. If one VFD controls the entire Booster Pump Station, please provide another VFD with appropriate switchgear.
18. The VFD component must be protected from extreme heat and cold. The VFD component should be housed in a temperature controlled structure or if housed in a NEMA cabinet, well shaded. If a NEMA cabinet is used, its rating must be at-least 3R or better (i.e. have its own cooling/ventilation system). Climate protection is based on manufacture Recommendations and location/climate of area (i.e. case-by-case basis). Demonstrate how the VFD will be climate protected and show on engineering plans.
19. The design must include a back-up power source to be readily available (on-site). But if the utility can demonstrate (a letter from the electric utility) that their power grid is supplied by more than one source, or, more than one sub-station, then back-up power is not necessary. Please provide backup power and show on engineering plans or provide letter from utility demonstrating that there is multi-source grid power or power supplied by more than one substation to the VFD.
20. Please provide Manufacturers Specifications and General Information concerning the VFD proposed.

If you fail to submit the missing information within 90 days of this Notice, ADEQ may proceed to a final decision on your application without further notice. As an alternative to providing ADEQ with all of the missing information identified above, you may respond to this Notice within 90 days with a Notice of Intent to Rely on the Application Components as Submitted in accordance with A.A.C. R18-1-205(B) and R18-1-520.

This decision is an appealable agency action under A.R.S. § 41-1092. You have a right to request a hearing and file an appeal under A.R.S. § 41-1092.03(B). You must file a written Request for Hearing or Notice of Appeal within **30 days** of your receipt of this Notice. A Request for Hearing or Notice of Appeal is filed when it is received by ADEQ's Hearing Administrator as follows:

Judith Fought, Hearing Administrator
Office of Administrative Counsel
Arizona Department of Environmental Quality
1110 W. Washington Street
Phoenix, AZ 85007

The Request for Hearing or Notice of Appeal shall identify the party, the party's address, the agency and the action being appealed and shall contain a concise statement of the reasons for the

appeal. Upon proper filing of a Request for Hearing or Notice of Appeal, ADEQ will serve a Notice of Hearing on all parties to the appeal. If you file a timely Request for Hearing or Notice of Appeal you have a right to request an informal settlement conference with ADEQ under A.R.S. § 41-1092.06. This request must be made in writing no later than **20 days** before a scheduled hearing and must be filed with the Hearing Administrator at the above address.

Although I cannot guarantee that the ATC issuance can be accomplished by any particular date, I can assure you that your prompt response will accelerate that process.

If you have any questions or concerns, I can be reached at (602) 771-4237 or fms@azdeq.gov.

Sincerely,



Frank M. Smaila
ADEQ Water Quality Division
Engineering Review Section
Drinking Water Facilities Review Unit

cc: ADEQ File No.: 20100110
Regional Office: Southern
Owner: Orange Grove Water Company, c/o Kathleen M. Day
P.O. Box 889, Yuma, AZ 85366
Yuma County Health Department