



State of Utah

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*Executive Secretary*

March 14, 2011

Mike Richey  
Sunridge Water System  
653 North 4100 West  
West Point, UT 84015

Dear Mr. Richey:

Subject: **Plan Approval**, Sunridge Booster Pump Station from Tank ST003 (PF002),  
System #29108, File #08391

On February 17, 2011, the Division of Drinking Water (the Division) received updated plans and specifications for the booster pump station from your consultant, Mark Babbitt, P.E. with Great Basin Engineering. Review comments were sent on September 28, 2010. All review comments were adequately addressed.

Our understanding of the project is this proposed pump station (referenced as TP002 in our inventory database) will pump 100 gallons per minute with a total dynamic (TDH) of 300 feet. The new waterline from the booster pump will connect to the existing waterline from the upper system (Tank ST003), just above the existing pressure reducing system. The booster pump will use a propane operated motor. The booster pump will be manually controlled, and only used to supplement the reservoir in the higher pressure zone.

We have completed our review of the plans and specifications, stamped and signed by Mark Babbitt, P.E. and dated February 17, 2011, and find they basically comply with the applicable portions of Utah's Administrative Rules for Public Drinking Water Systems in R309. On this basis, **the plans for the Sunridge Booster Pump Station (PF002) are hereby approved.**

This approval pertains to construction only. **An operating permit must be obtained from the Executive Secretary before this facility may be put in service.** A checklist outlining the items required for operating permit issuance is enclosed for your information.

Approvals or permits by local authority or county may be necessary before beginning construction of this project. As the project proceeds, notice of any changes in the approved design, as well as any change affecting the quantity or quality of the delivered water, must be submitted to the

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Division. We may also conduct interim and final inspections of this project. Please notify us when actual construction begins so that these inspections can be scheduled.

This approval must be renewed if construction has not begun or if substantial equipment has not been ordered within one year of the date of this letter.

If you have any questions regarding this letter, please contact Nathan Lunstad, P.E., of this office, at (801) 536-0039, or Ying-Ying Macauley, Engineering Section Manager, of this office, at (801) 536-4188.

Sincerely,

DRINKING WATER BOARD



Kenneth E. Wilde, P.E.  
Assistant Executive Secretary

NL

Enclosure — Operating Permit Checklist

cc: Mark E. Babbit, P.E., Great Basin Engineering, 5746 South 1475 East, Ogden, UT 84403  
Louis Cooper, Weber-Morgan Health Department, 477 23rd St., Ogden, UT 84401-1507  
Nathan Lunstad, P.E., Division of Drinking Water

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## DIVISION OF DRINKING WATER

### Checklist for Operating Permit (per Utah Administrative Code R309-500-9)

The following items must be submitted and found to be acceptable for all projects for operating permit issuance with the exception of distribution lines and distribution lines with booster pumps and pressure-reducing valves. *[Distribution system projects may be placed into service prior to submittal of all items or issuance of operating permit if a water system has officially designated a professional engineer responsible for the entire water system and if this designated engineer has received a Certification of Rule Conformance by a P.E. and proof of satisfactory bacteriological result. In this case, a public water system will submit all items needed for obtaining an operating permit for specific distribution system project even after the new waterlines has been placed into service as determined by the water system's designated professional engineer.]*

- Utah Registered Engineer's Certification of Rule Conformance that all conditions of plan approval (including conditions set forth by the Executive Secretary in any conditional approval letter) have been accomplished.
- Utah Registered Engineer's statement of what plan changes, if any, were necessary during construction and a Certification of Rule Conformance that all of these changes were in accordance with applicable Utah Administrative Code, *R309-500 through R309-550, Drinking Water Facility, Construction, Design, and Operation Rules.*
- As-built drawings have been received at the Division (unless no changes were made to the previously submitted and approved pre-construction drawings).
- Confirmation that as-built drawings have been received by the water system (unless no changes were made to the previously submitted and approved pre-construction drawings).
- Evidence of proper flushing and disinfection in accordance with the appropriate ANSI/AWWA Standards.
  - ANSI/AWWA C651-05 AWWA Standard for Disinfecting Water Mains
    - Two consecutive sample sets (each 1200 feet, end-of-line, each branch, etc.), none positive, at least 24 hours apart.
  - ANSI/AWWA C652-02 AWWA Standard for Disinfection of Water-Storage Facilities
    - One or more samples, none positive.
  - ANSI/AWWA C653-03 AWWA Standard for Disinfection of Water Treatment Plants
    - Two consecutive samples per unit, none positive, no less than 30 minutes apart.
  - ANSI/AWWA C654-03 AWWA Standard for Disinfection of Wells
    - Two consecutive samples, none positive, no less than 30 minutes apart.
- Water quality data, where appropriate. *[Guidance: Storage tank water should be analyzed for residual volatile organic compounds after tank interior painting or coating.]*
- Confirmation that water system owner has been provided with O&M manuals for any new facilities.
- Location data of new storage tank, treatment facility, or source, if applicable.

