

## Paradise Water System Report January 2021

Since the last report the water system has been operating normally with the exception of an issue the second week of December. During a power outage, the generator started normally and ran for several hours until a low coolant alarm shut it down prematurely. I had checked it in September and it was okay. Fortunately it was an easy fix. I looked up the correct coolant type in the manual and acquired and added about half a gallon to bring it up to the proper operating level. I left the rest in the generator cabinet for future use. I did not detect any leaks. I figured the block heater evaporated it out over time. The only way to prevent this is to periodically stick a finger in the radiator and check the level I do that during periodic routine inspections. Probably something NW Water should do as well. I'll talk to them about it and see what they say. I contacted Pacific Power systems to come out and perform an annual service but they are still four to six weeks out. They will call me when we show up on the scheduling with a firm date and time. In the meantime we will be fine. There has only been 40 hours on the engine since the last service and I've checked the fluids. Oil is clean and coolant level is full, and the battery is good.

As a result of this incident I did notice that when the pumps restart after a power outage with low or no pressure, is that when the booster pumps come back automatically the secondary pump operated by relays will ramp up instantly and cause a condition where the primary pump operated by a variable speed control sees the line pressure and doesn't come up to speed and assume it's role as the primary pump. No big deal just a little less efficient. Problem is easily solved by turning off the secondary pump and fire pump long enough for the primary pump to ramp up and assume primary operation status.

The important thing to remember about all this is that everything worked as it should have. The low coolant sensor did it's job protecting the generator and shutting it down. Once power was restored the backup pump started when it should have and the soft starter did it's job sensing there was no need to ramp up the primary pump. Everything worked! The cause was due to a inspection oversight not an equipment failure is my point.

The Mission alarm system needed to have a new radio card installed. To save money I told them I could do that so they shipped the new card directly to me along with new firmware on an SD card. I got it installed okay but I had a little trouble with the firmware install and some incomplete instructions they included but eventually was able to figure it out with help from their tech support and everything has been updated and working.

I have received a request to post placards of what to do during these incidents so when I'm gone someone can come in and do these things. I'm not going to do that. I cannot predict what problems may come up or what do do during an incident as they are all different. And we don't want someone unfamiliar with our system flipping switches based on general information posted on a wall. Call NW Water if I'm not available that's what we pay them for.

Again we've acquired the hoses and fittings needed to divert the water from flushing the hydrants and blow offs. We'll be looking for volunteers to help with valve exercising and hydrant flushing when the time comes.

For the Water System's financial information please see the Treasure's report.

Submitted by  
Tom Moore  
Water System Co-Chair

