

19.0 Maintenance Points

Script:

Maintenance in this type system is something that needs to be paid attention to. Make sure you maintain the operational reliability and integrity of your backup electrical energy system, your backup generator. Do that by exercising it under load. No point at all in just started it and running it and shutting it off. Exercise is it under load once or twice a week. Have fire drills as to your advantage. Spend the time doing that so that your staff understands how to deal with these issues.

Maintaining the white water units. The white water unit consists of first the blower, and then the white water unit itself. The blower handles a tremendous amount of air. More often than not, people forget that when it's a tremendous amount of air being handled around fish ponds 24 hours a day, they suck in a lot of bugs and bug parts. Maintaining your filters is really, really a big critical element. On the unit itself, there's a lot of tubes that are delivering air. Some of them are exposed to sunlight. If they don't have UV protection in the tubing, it won't be long that that's gonna split or flat out break and you're gonna have a blower that's blowing like crazy and no air going down to the unit.

Make sure you maintain that tubing, and actually you want to try the use UV protected tubing so that it will continue to what its job is to do without failure. But as that that goes on down to the diffuser, the diffuser itself is such a high quality environment there in that aquatic environment, films grow slowly on that diffuser. It's not slick like glass. It has a rough texture to it, so bacterial slime or film grows on that and you have to take that off every now and again. Typically, depending upon how rich the pond is and what the particular environment is like, you have to do that maybe once a month, or maybe once every three months. But you have to do it to maintain the flow of air down and through and coming out of that diffuser.

Now, the next maintenance point assuming you've got that taken care of, the next maintenance point is the surface of the gates. This mesh, whether it be stainless steel or PVC coated steel, or whatever it is, it will also build up either debris from around the pond if you're mowing and whatnot and not careful and some vegetation blows into the water. If you don't have a species like grass carp that will eat it, it will clog up your intake, your gates. We try to maintain those by, let's say weekly brushing of that surface of that gate. We always do the upstream one first, take that off and take whatever we could out of the water. But sometimes the material goes down to the downstream gate and we then process it and also the gate on the downstream side of the quasi zone.

Next step is removing solid waste and maintain no system. We want to make sure that those things are operationally sound, they're operating on a frequency that we dial in, and make sure that this whole thing is

Key Points:

Make sure you perform regular maintenance on the following equipment:

- Backup generator
- White water unit
- Filters
- Tubing
- Diffuser
- Surface of the gates

operating as we prescribe. Those are basically the maintenance points. If we've got white water units out in open water, which that's what were supposed to have, those diffusers out there need to be similarly maintained. If you have a broken tube, you'll be able to see it because water is boiling up from underneath the hood. You'll be able to very readily see it. But similarly, if you don't see white water coming out from under of the hood there, you say hmm, I need to go and maintain that because the flow of air coming through the diffuser has been compromised by something.