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Chapter 20

Miscellaneous Improvements

With any large upgrade project at a wastewater treatment plant, there are always some minor items that are unrelated to the main drivers for the project, but are worth addressing while an engineer is designing improvements and a contractor will be onsite to build them. This section describes improvements to a few items at the Salisbury WWTP that were not covered in previous chapters. These improvements are not essential to the ENR upgrade, but will improve overall plant operations.

20.1 Re-use of Existing Chlorine Building

The Salisbury WWTP will stop using chlorine for disinfection after the new UV disinfection facilities are put into operation. The building was constructed in the late 1980s as part of a plant-wide improvements project and has approximately 1,900 square feet of floor space. It currently is used to store one-ton cylinders of chlorine gas and sulfur dioxide gas.

There are no definite plans yet for re-using the Chlorine Building. Both the operations and the maintenance staffs have expressed interest in using the building for additional office and meeting space. There have also been discussions about using it as a storage location. During design, plant staff and BC will select a new use for the building and BC will prepare plans and specifications to renovate the building in accordance with the proposed use.

Plant staff has raised concerns about the possibility of residual chlorine in the walls of the building and if this could pose risks of future safety or corrosion problems. BC believes this is not a problem. Chlorine is a very strong oxidizer and any gas that escaped from the cylinders or feed equipment would have oxidized something it came into contact with very shortly after escaping. Chlorine gas would not adsorb onto the structure of the building and would not accumulate over time.

20.2 Demolition

The existing gravity thickeners and the associated control building are no longer in use and plant staff would like to demolish them. They are between Oxidation Fiber No. 2 and Primary Clarifier No. 2. Plant staff has noted that other plant facilities receive electrical power from the Gravity Thickener Building. BC will examine this in detail during design and will develop a plan to provide electrical power to the other facilities so the building can be demolished.

The lime silo near the primary clarifiers is no longer used and plant staff would like to demolish it. As discussed in Chapter 12, the plant now uses a temporary liquid alkalinity system and this project includes the design and construction of a permanent liquid alkalinity system. The silo is approximately 70 feet tall with a diameter of 12 feet and is made of steel.

The lime silo demolition will require the services of an experienced demolition contractor. There are three electrical duct banks that run under or near the silo's base. Also, the silo is tall enough that if it fell over, it could hit Primary Clarifier No. 2 or the Grit Building. BC will coordinate with plant staff to prepare specifications for the lime silo demolition that address all of their concerns.



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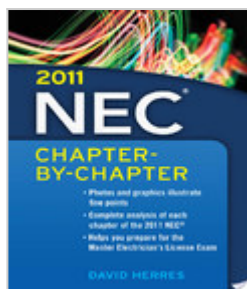
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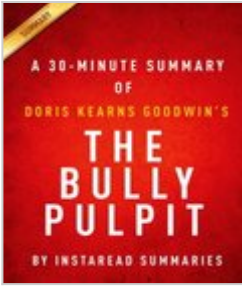
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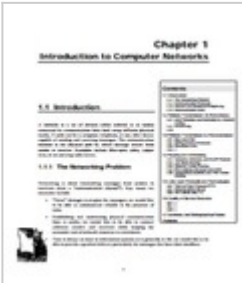
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