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QUESTION E290.27

Provide the data as applicable above for the secondary pumping station located a few miles away, both in construction and operation phase.

RESPONSE

There will be no intake back-flush operation; therefore there will be no compressors located at the pumphouse.

The pumphouse transformers will have a KVA rating of 2500. The BIL will be at least 150 KV on the high side, and at least 30 KV on the low side. The transformers will be oil immersed, self cooled. The transformer system will be three-phase, and will be housed in one tank.

There will be four, vertical turbine, multi-stage pumps. The number of stages is not yet known and will depend upon the pump manufacturer selected. The pumps will be rated at 450 horsepower and a maximum 1200 revolutions per minute. Motor sound level is specified to be 86 dB as measured by IEEE Standard 85.

The general arrangement and structural drawings are shown on Figures E290.27-1, and E290.27-2. There are no drawings at this time which show the ventilation system.

In order to minimize the noise emanating from the pumphouse, axial vane fans will be located inside the building, and all ductwork will be acoustically lined.

The pumphouse dimensions will be approximately 52 feet by 56 feet by 15 feet in height.

The walls will be precast concrete textured modular "corewall" panels. The ceiling will consist of metal roof decking topped with tapered perlite insulation with a minimum thickness of 3/4", topped with a 0.045" layer of elastomer membrane, topped with a 1 1/2" layer of loose-laid gravel ballast. The floors will be concrete. There will be no windows.

There are no quarries or other external noise sources in the immediate vicinity of the proposed reservoir and pumping station site.

There has been no ambient noise measurement study sponsored by the Applicant; however, available sound level readings in the project area may be found on page III-75 of the Environmental Report On Neshaminy Water Supply System, dated February, 1979, prepared by the Neshaminy Water Resources Authority.

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QUESTION E291.20

In Section 5.1.3.3, indicate on a map those stretches of the East Branch of the Perkiomen Creek streambed that will experience erosion, increased siltation, channel modification, and bank flooding.

RESPONSES

Minor changes, if any, in the streambed are expected along the East Branch Perkiomen Creek, except near the energy dissipater, where the flow is discharged from the East Branch Transmission Main. This area will be protected by the placement of riprap as shown on figure E291.20-1.