

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

THE APPLICATION OF THE PENDLETON)
COUNTY WATER DISTRICT, OF)
PENDLETON AND CAMPBELL COUNTIES,) CASE NO. 9328
KENTUCKY, FOR APPROVAL OF CON-)
STRUCTION, FINANCING AND INCREASED)
RATES)

O R D E R

IT IS ORDERED that Pendleton County Water District ("Pendleton") shall file an original and seven copies of the following information with the Commission with a copy to all parties of record by August 9, 1985. If the information requested or a motion for an extension of time is not filed by the stated date, the Commission may dismiss the case without prejudice. Pendleton shall furnish with each response the name of the witness who will be available at the public hearing for responding to questions concerning each item of information requested.

1. Provide hydraulic analyses, supported by computations and actual field measurements, of typical operational sequences of the existing water distribution system (Phase II). These hydraulic analyses should demonstrate the operation of all pump stations and the "empty-fill" cycles of all water storage tanks. Computations are to be documented by a schematic map of the system that shows pipeline sizes, lengths, connections, pumps, water storage tanks, wells, and

sea level elevations of key points, as well as allocations of actual customer demands. Flows used in the analyses shall be identified as to whether they are based on average instantaneous flows, peak instantaneous flows, or any combination or variation thereof. The flows used in the analysis shall be documented by actual field measurements and customer use records. Justify fully any assumptions used in the analyses.

2. Provide a summary of any operational deficiencies of the existing water system that are indicated by the hydraulic analyses or that are known from experience.

3. Provide hydraulic analyses, supported by computations and field measurements, demonstrating the appropriateness of the engineering design of the proposed construction of additions and extensions. Justify fully any assumptions used in the analyses.

4. Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available on Pendleton's existing water line near the proposed connection point of the water line to serve the Highway 22 area. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

5. Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available at Pendleton's 150,000-gallon tank. Identify the 24-hour

period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

6. Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available on the suction side of Pendleton's Phase II booster pump station. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

7. Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available on the discharge side of Pendleton's Phase II booster pump station. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

8. Provide a copy of the pump manufacturer's characteristic (head/capacity) curve(s) for Pendleton's Phase II booster pump station.

9. Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available on Pendleton's existing water line near the proposed connection point of the water line to serve the Highway 330 area. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

10. Provide narrative description of the proposed daily operational sequences of the water system. Documentation should include the methods and mechanisms proposed to

provide positive control of the existing and the proposed tanks' water level. Narrative description should also include how both tanks will "work" (expected inflow and outflow of water and approximate times of day) and how all pumps will function. Any assumptions are to be fully supported by appropriate measurements and hydraulic calculations.

Done at Frankfort, Kentucky, this 19th day of July, 1985.

PUBLIC SERVICE COMMISSION


For the Commission

ATTEST:

Secretary