

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

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In the Matter of:

THE APPLICATION OF WARREN COUNTY WATER)
DISTRICT, WARREN COUNTY, KENTUCKY, (A) FOR)
CERTIFICATE OF CONVENIENCE AND NECESSITY,)
PURSUANT TO KRS 278.020, AUTHORIZING SAID)
DISTRICT TO CONSTRUCT IMPROVEMENTS AND) CASE NO. 8983
EXTENSIONS TO ITS EXISTING WATER DISTRI-)
BUTION SYSTEM, AND (B) FOR AUTHORITY TO)
ISSUE CERTAIN SECURITIES AS REQUIRED BY)
KRS 278.300.)

O R D E R

IT IS ORDERED that Warren County Water District ("Warren County") shall file an original and 7 copies of the following information with the Commission with a copy to all parties of record by March 23, 1984. If neither the requested information nor a motion for an extension of time is filed by the stated date, the case may be dismissed.

(1) Provide hydraulic analyses, supported by computations and actual field measurements, of typical operational sequences of the existing water distribution system. Computations are to be documented by a schematic map of the system that shows pipeline sizes, lengths, connections, pumps, water storage tanks, 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 analyses 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 at Warren County's Richardsville tank. 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 Warren County's Glen-Lily 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 at Warren County's Pilot Knob tank. 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 at Warren

County's Oakland tank. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

(8) Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available at Warren County's Sand Hill tank. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

(9) Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available at Warren County's Blue Level tank. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

(10) Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available at Warren County's Alavaton tank. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

(11) Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available at Warren County's Woodburn tank. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

(12) Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available at Warren County's Plum Springs tank. Identify the 24-hour period recorded,

the exact location of the pressure recorder and the sea level elevation of the recorder.

(13) Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available at Warren County's Pleasant Hill tank. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

(14) Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available at Warren County's Greenwood tank. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

(15) Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available on Warren County's water line in the vicinity of Kelly Road. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

(16) Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available on Warren County's water line in the vicinity of Highway 1297 and Sunnyside-Gotts Road. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

(17) Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available on Warren

County's water line in the vicinity of Highway 31W and Highway 101. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

(18) Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available on Warren County's water line in the vicinity of Highway 1297 and Bohannon Road. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

(19) Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available on Warren County's water line in the vicinity of Thomas Road. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

(20) Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available on Warren County's water line in the vicinity of Garvin Lane. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

(21) Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available on Warren County's water line on Highway 263 in the vicinity south of Richardsville. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

(22) Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available on Warren County's water line on Highway 263 north of Richardsville.

Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

(23) Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available on Warren County's water line on Highway 185 between Sand Hill Road and Austin Raymer Road. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

(24) Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available on Warren County's water line on Highway 1320 in the vicinity of Raleigh-Wilson Road. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

(25) Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available on Warren County's water line in the vicinity of Youngs Ferry Road and Richardsville-Threkel Ferry Road. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

(26) Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available on Warren County's water line on Highway 1037 in the vicinity of Highway 1592. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

(27) Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available on Warren

County's water line in the vicinity of Boiling Spring road and Norris Road. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

(28) Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available on Warren County's water line in the vicinity of Highway 1435 and Highway 626. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

(29) Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available on Warren County's water line on Westbrook road. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

(30) Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available on Warren County's water line in the vicinity of Haley-Price Road. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

(31) Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available on Warren County's water line in the vicinity of Blue Level Road. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

(32) Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available on Warren County's water line in the vicinity of Hammitt Hill Road.

Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

(33) Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available on Warren County's water line in the vicinity of Highway 231 and Highway 626. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

(34) Provide a pressure recording chart showing the actual 24-hour continuously measured pressure available on Warren County's water line in the vicinity of the intersection of Highway 626 and White Stone Quarry Road. Identify the 24-hour period recorded, the exact location of the pressure recorder and the sea level elevation of the recorder.

(35) Provide a list of each of Warren County's water storage tanks. Give the location, capacity, and overflow elevation of each tank. Explain how water is supplied to each tank.

(36) Provide a list of each of Warren County's existing and proposed pump stations. Give the location, number of pumps and their rated capacities, and the purpose of each pump station. Explain how the operation of each pump station is controlled. Provide a copy of the pump manufacturer's characteristic (head/capacity) curve for each of Warren County's existing and proposed pumps. Identify each curve as to the particular pump and pump station to which it applies.

(37) Provide a copy of the Edmonson County Court Order annexing that portion of Edmonson County along Highway 1749 to the Warren County Water District's service territory.

Done at Frankfort, Kentucky, this 27th day of February,
1984.

PUBLIC SERVICE COMMISSION


For the Commission

ATTEST:

Secretary