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JUN 14 2007

PUBLIC SERVICE
COMMISSION

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

IN THE MATTER OF:

THE APPLICATION OF KENTUCKY-AMERICAN
WATER COMPANY FOR A CERTIFICATE OF
CONVENIENCE AND NECESSITY AUTHORIZING
THE CONSTRUCTION OF KENTUCKY RIVER
STATION II, ASSOCIATED FACILITIES AND
TRANSMISSION MAIN

CASE NO. 2007-00134

NOTICE

Comes Kentucky-American Water Company ("Kentucky American Water") and files herewith (1) a letter from the Division of Water dated June 4, 2007, approving the construction plans and specifications for the transmission main booster station and water storage tank as described in paragraph 14(5) of the Application, being Exhibit 1 attached hereto, and (2) a letter from the Division of Water dated May 18, 2007, approving the discharges from the sludge dewatering process as described in paragraph 14(6) of the Application, being Exhibit 2 attached hereto.

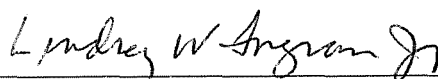
Respectfully submitted,

A. W. TURNER, JR., GENERAL COUNSEL
KENTUCKY-AMERICAN WATER COMPANY
2300 Richmond Road
Lexington, Kentucky 40502

and

STOLL KEENON OGDEN PLLC
300 West Vine Street, Suite 2100
Lexington, Kentucky 40507-1801
Telephone: (859) 231-3000

BY:



Lindsey W. Ingram, Jr.

Lindsey W. Ingram III

Attorneys for Kentucky-American Water Company

CERTIFICATE OF SERVICE

This is to certify that the original and eight (8) copies of foregoing Notice has been filed with the Public Service Commission this the 14th day of June, 2007, and a copy mailed, postage prepaid, to:

David E. Spenard, Esq.
Dennis G. Howard II
Assistant Attorneys General
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By Lundy W. Anger Jr.

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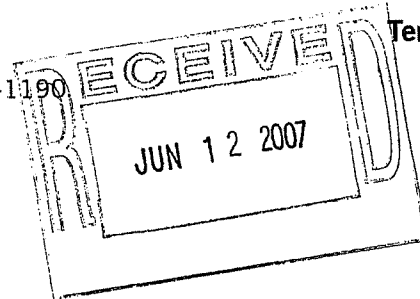


ENVIRONMENTAL AND PUBLIC PROTECTION CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION

Ernie Fletcher
Governor

Division of Water
14 Reilly Road
Frankfort, Kentucky 40601-1190
www.kentucky.gov
June 4, 2007

Teresa J. Hill
Secretary



Ms. Linda C. Bridwell
Director of Engineering
Kentucky American Water
2300 Richmond Road
Lexington, Kentucky 40502

RE: Kentucky American Water
AI: 1063
DW No. 0340250-07-014
20 MGD Booster Pump Station and 3 MG Storage Tank
Activity ID: APE20070014
Franklin

Dear Ms. Bridwell:

We have reviewed the plans and specifications for the above referenced project. The plans include the construction of a 20 MGD Booster Pump Station expandable to 30 MGD and a 3 MG storage tank with provisions for a second 3 MG tank. This is to advise that plans and specifications for the above referenced project are APPROVED with respect to sanitary features of design, as of this date with the requirements contained in the enclosed construction permit.

The Extended Period Simulation (EPS) hydraulic modeling submitted on May 29, 2007 with the project indicates that there may be points in the existing distribution system in the Lexington area where water pressures are not adequate once the above referenced project is placed in service. Therefore, hydraulics of the existing system shall be monitored. If necessary, operating conditions and/or system modifications may be needed to maintain adequate pressures. Any changes or modifications in the distribution system will need to be approved by the Division of Water.

If you have any questions regarding this decision, please contact George Partridge, at (502) 564-3410, extension 545.

Sincerely,

Donna S. Marlin
Donna S. Marlin, Manager
Drinking Water Branch
Division of Water

DSM/MR/GPP
Enclosure

CC: Mark Askin – Strand Associates, Inc.
Michael D. Galavotti – Kentucky American Water Company
David Spenard – Attorney General's Office
Tom Fitzgerald – Kentucky Resources Council
Citizens for an Alternate Water Solution
Franklin County Health Department
Fayette County Health Department
Public Service Commission

Distribution-Major Construction

KY American Water Co

Subject Item Inventory

Activity ID No.: APE20070014

Subject Item Inventory:

ID	Designation	Description
AIOO1063		
PORT261	Booster Pump Station	3 Pumps; 6,944 gpm ea.; 263' TDH; 1185 rpm; 957 HP ea.
STOR6	Ground Tank	3 MG prestressed concrete ground storage tank

Subject Item Groups:

ID	Description	Components
GACT260	3 Pumps; 6,944 gpm ea.; 263' TDH; 1185 rpm; 957 HP ea. Pump Station; 3 MG prestressed concrete ground storage tank	STOR6 3 MG prestressed concrete ground storage tank
		PORT261 3 Pumps; 6,944 gpm ea.; 263' TDH; 1185 rpm; 957 HP ea.

KEY

ACTV = Activity

AREA = Area

EQPT = Equipment

PERS = Personnel

STOR = Storage

AIOO = Agency Interest

COMB = Combustion

MNPT = Monitoring Point

PORT = Transport

STRC = Structure

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Subject Item Inventory

Activity ID No.: APE20070014

KEY

TRMT = Treatment

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GACT260 (20 MGD BPS & 3 MG S-Tank) 3 Pumps; 6,944 gpm ea.; 263' TDH; 1185 rpm; 957 HP ea. Pump Station; 3 MG prestressed concrete ground storage tank:
Monitoring Requirements:

Condition No.	Parameter	Condition
M-1	Coliform	The presence or absence of total Coliform monitored by sampling and analysis as needed shall be determined for the new or relocated water line(s). Take samples at connection points to existing lines, at 1 mile intervals, and at dead ends without omitting any branch of the new or relocated water line. Sample bottles shall be clearly identified as "special" construction tests. [401 KAR 8:100 Section 1(7), 401 KAR 8:150 Section 4, Recommended Standards for Water Works 8.5.6] This requirement is applicable during the following months: All Year. Statistical basis: Instantaneous determination.
M-2	Coliform	The presence or absence of total Coliform monitored by sampling and analysis as needed shall be determined for the new storage structure(s). With at least 1 sample taken at least 24 hours after the first construction complete sample(s), take 2 or more samples from the yard hydrant, the outlet piping from the storage structure, or a sample tap directly connected to the storage structure. Sample bottles shall be clearly identified as "special" construction tests. [Recommended Standards for Water Works 7.0.18, 401 KAR 8:150 Section 4] This requirement is applicable during the following months: All Year. Statistical basis: Instantaneous determination.
M-3	Coliform	The presence or absence of total Coliform monitored by sampling and analysis as needed shall be determined for the new pump(s). If the pump(s) are independent of (not directly connected to) the new or relocated lines, take at least 1 sample at the discharge side pitcock. Otherwise, no additional sampling beyond the sampling required for new or relocated lines shall be required in association with the pump(s). Sample bottles shall be clearly identified as "special" construction tests. [401 KAR 8:100 Section 1(7)] This requirement is applicable during the following months: All Year. Statistical basis: Instantaneous determination.

Submittal/Action Requirements:

Coliform:

Condition No.	Condition
S-1	Coliform For new construction projects, the distribution system, using the most expedient method, shall submit Coliform test results to the Cabinet. Due immediately following disinfection and flushing. [401 KAR 8:150 Section 4(2)]

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GACT260 (continued):

Submittal/Action Requirements:

Condition No.	Condition
S-2	For proposed changes to the approved plan, submit information: Due prior to any modification to the Cabinet for approval. Changes to the approved plan shall not be implemented without the prior written approval of the Cabinet. [401 KAR 8:100 Section 1(8)]
S-3	The person who presented the plans shall submit the professional engineer's certification: Due when construction is complete to the Division of Water. The certification shall be signed by a registered professional engineer and state that the water project has been constructed and tested in accordance with the approved plans, specifications, and requirements. [401 KAR 8:100 Section 1(8)]

Narrative Requirements:

Additional Limitations:

Condition No.	Condition
T-1	Additional Limitations: Chlorinated water resulting from disinfection of project components shall be disposed in a manner which will not violate 401 KAR 5:031. [401 KAR 8:020 Section 2(20)]

Condition No.	Condition
T-2	This project has been permitted under the provisions of KRS Chapter 224 and regulations promulgated pursuant thereto. Issuance of this permit does not relieve the applicant from the responsibility of obtaining any other approvals, permits or licenses required by this Cabinet and other state, federal and local agencies. Further, this permit does not address the authority of the permittee to provide service to the area to be served. [401 KAR 8:100 Section 1(7)]
T-3	Unless construction of this project is begun within 1 year from the issuance date of this permit, the permit shall expire. If requested prior to the permit expiration, an official extension from the Division of Water may be granted. If this permit expires, the original plans and specifications may be resubmitted for a new comprehensive review. If you have any questions concerning this project, please contact the Drinking Water Branch at 502/564-3410. [401 KAR 8:100 Section 1(9)]

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GACT260 (continued):

Narrative Requirements:

Condition No.	Condition
T-4	During construction, a set of approved plans and specification shall be available at the job site at all times. All work shall be performed in accordance with the approved plans and specifications. [401 KAR 8:100 Section 1(7)(a)]

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PORT261 (Booster Pump Station) 3 Pumps; 6,944 gpm ea.; 263' TDH; 1185 rpm; 957 HP ea.:

Limitation Requirements:

Condition No.	Parameter	Condition
L-1	Pressure	Pump stations shall be located or controlled so that intake Pressure ≥ 20 psi is maintained during normal pump operation. [Recommended Standards for Water Works 6.4.b] This requirement is applicable during the following months: All Year. Statistical basis: Minimum.
L-2	Pressure	Pump stations shall be located or controlled so that an automatic cutoff or a low pressure controller maintains a Pressure ≥ 10 psi in the suction line under all operating conditions. [Recommended Standards for Water Works 6.4.c] This requirement is applicable during the following months: All Year. Statistical basis: Minimum.
L-3	Residual Disinfection	New pumps shall be thoroughly disinfected (in accordance with AWWA Standard C651) upon completion of construction and before being placed into service. To disinfect new pumps use chlorine or chlorine compounds in such amounts as to produce an initial disinfectant concentration of at least 50 ppm and a Residual Disinfection ≥ 25 ppm at the end of 24 hours. Follow the disinfection with thorough flushing and place each pump into service if, and only if, Coliform monitoring applicable to the pump does not show the presence of Coliform. If Coliform is detected, repeat flushing of the pump and Coliform monitoring. If Coliform is still detected, repeat disinfection and flushing as if the pump has never been disinfected. Continue the described process until monitoring does not show the presence of Coliform. [401 KAR 8:100 Section 1(7)] This requirement is applicable during the following months: All Year. Statistical basis: Minimum.
L-4	Slope	Pumping facilities shall be located and designed to maintain the sanitary quality of pumped water. As part of this, all pump station floors shall have Slope ≥ 3 in per 10 ft to a suitable drain. [Recommended Standards for Water Works 6.2.e, Recommended Standards for Water Works 6.0, Recommended Standards for Water Works 6.1] This requirement is applicable during the following months: All Year. Statistical basis: Minimum.
L-5	Air Change Rate	Ventilation shall conform to existing local and/or state codes. At a minimum forced ventilation shall produce an Air Change Rate ≥ 6 air change(s)/hr. [401 KAR 8:100 Section 1(7), Recommended Standards for Water Works 6.2.5] This requirement is applicable during the following months: All Year. Statistical basis: Minimum.

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PORT261 (continued):

Limitation Requirements:

Condition No.	Parameter	Condition
L-6	Height	<p>Pumping stations shall not be subject to flooding. To this end,</p> <ol style="list-style-type: none">1) grading around stations shall lead surface drainage away and2) stations shall be elevated or protected to a Height \geq 3 ft above the highest of the following:<ol style="list-style-type: none">a) the 100-year flood elevation, orb) the highest recorded flood elevation. [Recommended Standards for Water Works 6.1.1, Recommended Standards for Water Works 6.0] This requirement is applicable during the following months: All Year. Statistical basis: Minimum. <p>When a pump station has pits or compartments which must be entered, stairways or ladders shall be provided between all floors. Stairs shall have risers with a Height \leq 9 in, handrails on both sides, and treads with non-slip material wide enough for safety. [Recommended Standards for Water Works 6.2.3] This requirement is applicable during the following months: All Year. Statistical basis: Maximum.</p>
L-7	Height	

Narrative Requirements:

Additional Limitations:

Condition No.	Condition
T-1	<p>Additional Limitations: Pumping stations shall be so located that the proposed site will meet the requirements for hydraulics of the system. [Recommended Standards for Water Works 6.1]</p>
T-2	<p>Additional Limitations: Pumping stations shall be readily accessible at all times for servicing and repairs. [Recommended Standards for Water Works 6.1.1.b, Recommended Standards for Water Works 6.4.3]</p>
T-3	<p>Additional Limitations: Pumping stations shall be designed to prevent vandalism and protect against entrance of animals or unauthorized persons. [Recommended Standards for Water Works 6.1.1.d]</p>
T-4	<p>Additional Limitations: Pumping stations shall be of durable construction with outward-opening doors. [Recommended Standards for Water Works 6.2.b]</p>

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PORT261 (continued):

Narrative Requirements:

Additional Limitations:

Condition No.	Condition
T-5	<p>Additional Limitations: Pumping stations shall be fire and weather resistant. [Recommended Standards for Water Works 6.2.b]</p>
T-6	<p>Additional Limitations: Pumping stations shall have suitable pump gland discharges so that drainage from the glands is not onto the floor. [Recommended Standards for Water Works 6.2.f]</p>
T-7	<p>Additional Limitations: If underground structures are present at pumping stations, they shall waterproofed. [Recommended Standards for Water Works 6.2.d]</p>
T-8	<p>Additional Limitations: Pumping stations shall have adequate space for the installation of additional pumps. [Recommended Standards for Water Works 6.2.a]</p>
T-9	<p>Additional Limitations: Pumping stations shall have adequate space for the safe servicing of all equipment. [Recommended Standards for Water Works 6.2.a]</p>
T-10	<p>Additional Limitations: Pump stations shall have crane-ways, hoist beams, eyebolts, or other adequate facilities for servicing or removal of pumps, motors or other heavy equipment. [Recommended Standards for Water Works 6.2.2.a]</p>
T-11	<p>Additional Limitations: Pump stations shall have openings as needed for removal of heavy or bulky equipment. [Recommended Standards for Water Works 6.2.2.b]</p>
T-12	<p>Additional Limitations: Pump stations shall have a convenient tool board, or other facilities as needed, for proper maintenance of equipment. [Recommended Standards for Water Works 6.2.2.c]</p>
T-13	<p>Additional Limitations: In areas where excess moisture could cause safety hazards or damage to equipment, dehumidification shall be provided. [401 KAR 8:100 Section 1(7), Recommended Standards for Water Works 6.2.6]</p>
T-14	<p>Additional Limitations: Electrical controls shall be located above grade. [Recommended Standards for Water Works 6.6.5]</p>

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PORT261 (continued):

Narrative Requirements: Additional Limitations:

Condition No.	Condition
T-15	<p>Additional Limitations: All electrical equipment and work shall conform with the applicable state and local electrical codes and the National Electrical Code. [Recommended Standards for Water Works 6.5, Recommended Standards for Water Works 6.2.7]</p>
T-16	<p>Additional Limitations: Pump stations shall be adequately lighted throughout. [Recommended Standards for Water Works 6.2.7]</p>
T-17	<p>Additional Limitations: All automatic pump stations shall be provided with automatic signaling apparatus which will report when the station is out of service. All remote controlled stations shall be electrically operated and controlled and shall have signaling apparatus of proven performance. [Recommended Standards for Water Works 6.5]</p>
T-18	<p>Additional Limitations: Automatic or remote control pump stations shall be located or shall have control devices setup so that the range between start and cutoff pressure prevents excessive pump cycling. [Recommended Standards for Water Works 6.4.d]</p>
T-19	<p>Additional Limitations: Equipment shall be provided or other arrangements made to prevent surge pressures from activating controls which switch on pumps or activate other equipment outside the normal design cycle of operation. [Recommended Standards for Water Works 6.6.5]</p>
T-20	<p>Additional Limitations: Provisions shall be made to prevent energizing the motor in the event of a backspin cycle. [Recommended Standards for Water Works 6.6.5]</p>
T-21	<p>Additional Limitations: Pump stations shall be provided with enough heat to prevent freezing of equipment or treatment processes. [Recommended Standards for Water Works 6.2.4]</p>
T-22	<p>Additional Limitations: Pump stations shall have at least 2 pumps. Pumps shall be sized so that if any single pump is out service, the remaining pump or pumps shall be capable of providing the peak demand on the station. [Recommended Standards for Water Works 6.3, Recommended Standards for Water Works 6.4.1]</p>
T-23	<p>Additional Limitations: Provisions shall be made for pump alternation. [Recommended Standards for Water Works 6.6.5]</p>

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PORT261 (continued):

Narrative Requirements: Additional Limitations:

Condition No.	Condition
T-24	<p>Additional Limitations: Pumps shall</p> <ul style="list-style-type: none">a) have ample capacity to supply the peak demand against the required distribution system pressure without dangerous overloading,b) be driven by prime movers able to meet the maximum horsepower condition of the pumps,c) be provided readily available spare parts and tools, andd) be served by control equipment that is properly protected against temperatures to be encountered. [Recommended Standards for Water Works 6.3] <p>Additional Limitations: Pumps, their prime movers and accessories shall be controlled in such a manner that they will operate at rated capacity without dangerous overload. [Recommended Standards for Water Works 6.6.5]</p> <p>Additional Limitations: Pump stations shall be located or controlled so that a bypass is available. [Recommended Standards for Water Works 6.4.e]</p> <p>Additional Limitations: Pump stations shall contain indicating and totalizing metering of the total water pumped. Each pump shall have</p> <ul style="list-style-type: none">a) a standard pressure gauge on its discharge line andb) a compound gauge on its suction line. <p>Each pump should have a means for measuring the instantaneous volume per time discharge. [401 KAR 8:100 Section 1(7), Recommended Standards for Water Works 6.4.2, Recommended Standards for Water Works 6.6.3]</p> <p>Additional Limitations: Pumps shall be adequately valved to permit satisfactory operation, maintenance and repair of the equipment. Each pump shall have a positive-acting check valve on the discharge side between the pump and the shut-off valve. [Recommended Standards for Water Works 6.6.1]</p>
T-25	
T-26	
T-27	
T-28	

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PORT261 (continued):

Narrative Requirements:

Additional Limitations:

Condition No.	Condition
T-29	<p>Additional Limitations:</p> <p>Piping for pumps shall, in general,</p> <ol style="list-style-type: none">1) be designed so that the friction losses will be minimized,2) not be subject to contamination,3) have watertight joints,4) be protected against surge or water hammer,5) be provided with restraints where necessary, and6) a) be such that each pump has an individual suction line or b) be manifolded such that the lines insure similar hydraulic and operating conditions. [Recommended Standards for Water Works 6.6.2]
T-30	<p>Additional Limitations:</p> <p>To ensure continuous service when the primary power is interrupted, power supplied to pump stations shall be</p> <ol style="list-style-type: none">a) from at least 2 independent sources orb) from a primary source with a standby or auxiliary source provided. <p>If standby power is provided by onsite generators or engines, the fuel storage and fuel line must be designed to protect the water supply from contamination. [Recommended Standards for Water Works 6.6.6]</p>

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STOR6 (Ground Tank) 3 MG prestressed concrete ground storage tank:

Limitation Requirements:

Condition No.	Parameter	Condition
L-1	Depth	High and low level Depth ≥ 30 ft apart should not be allowed in storage structures providing pressure to a distribution system. [Recommended Standards for Water Works 7.3.2] This requirement is applicable during the following months: All Year. Statistical basis: Maximum.
L-2	Depth	Water Depth ≥ 50 percent of the total water depth should be above grade. [Recommended Standards for Water Works 7.0.2.b] This requirement is applicable during the following months: All Year. Statistical basis: Not applicable.
L-3	Distance	Sewers, drains, standing water and similar sources of possible contamination shall be a Distance ≥ 50 ft from ground-level storage structures. The only exception allowed is for gravity sewers. Gravity sewers are allowed within 50 ft of ground-level storage structures only if they are a) greater than 20 ft from all ground-level storage structures and b) constructed of water main pipe pressure tested in place to 50 psi without leakage. [Recommended Standards for Water Works 7.0.2.b] This requirement is applicable during the following months: All Year. Statistical basis: Minimum.
L-4	Distance	To prevent excessive erosion of storage structure foundations, the overflow and main drain shall either a) discharge to concrete or other stable surfaces (splash pads) which extend a Distance ≥ 10 ft away from the base of the storage structure or b) discharge directly into a crushed stone pit that is at least 2' x 2' x 2' which is a Distance ≥ 10 ft away from the base of the storage structure. [401 KAR 8:100 Section 1(7)] This requirement is applicable during the following months: All Year. Statistical basis: Minimum.
L-5	Height	Tanks shall have an overflow which is a) brought down to a Height ≥ 12 and ≤ 24 in above the ground surface, b) of sufficient diameter to permit waste of water in excess of the filling rate, c) open downward, d) screened with twenty-four mesh noncorrodible screen installed within the pipe at a location least susceptible to damage by vandalism, and e) located on the outside of the tank so that any discharge is visible. [Recommended Standards for Water Works 7.0.7] This requirement is applicable during the following months: All Year. Statistical basis: Not applicable.

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STOR6 (continued):

Limitation Requirements:

Condition No.	Parameter	Condition
L-6	Height	Tanks shall have manholes that are a) framed a Height ≥ 4 in above the surface of the roof at the opening and b) fitted with a solid watertight cover which overlaps the framed opening and extends down around the frame at least 2 inches. Manholes should be hinged at one side and shall have a locking device. [Recommended Standards for Water Works 7.0.8] This requirement is applicable during the following months: All Year. Statistical basis: Minimum.

Narrative Requirements:

Additional Limitations:

Condition No.	Condition
T-1	Additional Limitations: The materials and designs used for storage structures shall provide stability and durability as well as protection for the quality of the stored water. Steel structures shall follow the AWWA standards wherever they are applicable. Other materials of construction are acceptable when properly designed to meet the requirements in this permit. [Recommended Standards for Water Works 7.0] Additional Limitations: The safety of employees must be considered in the design of any storage structure. The design of storage structures shall a) meet or exceed the minimum requirements of pertinent safety laws and regulations in the areas where the structures are constructed, b) include ladders, ladder guards and balcony railings (where applicable), c) locate entrance hatches in safe places, and d) consider confined space entry requirements. [Recommended Standards for Water Works 7.0.12]
T-3	Additional Limitations: Storage structures shall be designed with reasonably convenient access to the interior for cleaning and maintenance. Where space permits, at least 2 manholes shall be provided above the waterline at each water compartment. [Recommended Standards for Water Works 7.0.8]
T-4	Additional Limitations: Fencing, locks on access manholes, and other necessary precautions shall be provided to prevent trespassing, vandalism, and sabotage. [Recommended Standards for Water Works 7.0.4]

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STOR6 (continued):

Narrative Requirements:

Additional Limitations:

Condition No.	Condition
T-5	<p>Additional Limitations: All storage structures and their appurtenances, especially the riser pipes, overflows, and vents, shall be designed to prevent freezing. [Recommended Standards for Water Works 7.0.13]</p>
T-6	<p>Additional Limitations: Tanks shall be constructed with no openings except properly constructed vents, manholes, overflows, risers, drains, pump mountings, control ports, and piping for inflow and outflow. For steel tanks, any pipes running through the roof or sidewall must be welded or properly gasketed. For concrete tanks, any pipes running through the roof or sidewall shall be connected to standard wall castings which were poured in place during the forming of the concrete and which should have seepage rings imbedded in the concrete. [Recommended Standards for Water Works 7.0.10]</p>
T-7	<p>Additional Limitations: All finished water storage structures shall have suitable watertight roofs and sidewalls which exclude birds, animals, insects, and excessive dust. [Recommended Standards for Water Works 7.0.3, Recommended Standards for Water Works 7.0.10]</p>
T-8	<p>Additional Limitations: The roof of each storage structure shall be well drained. Downspout pipes shall not enter or pass through storage structures. Parapets or similar structures which would tend to hold water and snow on a storage structure roof shall not be approved unless adequate waterproofing and drainage are provided. [Recommended Standards for Water Works 7.0.11]</p>
T-9	<p>Additional Limitations: Storage structures shall be designed so they can be isolated from the distribution system and drained for cleaning or maintenance without necessitating loss of pressure in the distribution system. [Recommended Standards for Water Works 7.3.2, Recommended Standards for Water Works 7.0.5]</p>
T-10	<p>Additional Limitations: Storage structure drains shall discharge to the ground surface at a drainage structure inlet or splash plate. [Recommended Standards for Water Works 7.3.2, Recommended Standards for Water Works 7.0.7]</p>
T-11	<p>Additional Limitations: No drain on a storage structure may have a direct connection to a sewer or storm drain. [Recommended Standards for Water Works 7.0.5, Recommended Standards for Water Works 7.0.7, Recommended Standards for Water Works 7.3.2]</p>

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STOR6 (continued):

Narrative Requirements: Additional Limitations:

Condition No.	Condition
T-12	<p>Additional Limitations: Main drains from storage structures shall have a twenty-four mesh noncorrodible screen installed within the drain pipe at a location least susceptible to damage by vandalism. [401 KAR 8:100 Section 1(7)]</p>
T-13	<p>Additional Limitations: Storage structures shall be designed to facilitate turn over of water. [401 KAR 8:100 Section 1(7), Recommended Standards for Water Works 7.0.6]</p>
T-14	<p>Additional Limitations: Ground level storage tanks and standpipes shall be equipped with separate inlet/outlet pipes installed on opposite sides of the tank. A check valve shall be installed in the outlet pipe to insure turnover of the water. The inlet pipe a) shall be installed near the overflow elevation and b) shall not interfere with the overflow discharge. [401 KAR 8:100 Section 1(7)]</p>
T-15	<p>Additional Limitations: Storage structures shall have sufficient capacity, as determined from engineering studies, to meet domestic demands. Additionally, if fire protection is provided, capacity shall also be sufficient to meet fire flow demands. [401 KAR 8:100 Section 1(7), Recommended Standards for Water Works 7.0.1]</p>
T-16	<p>Additional Limitations: The bottom of the structure shall be above a) the maximum flood level and b) the groundwater level. [Recommended Standards for Water Works 7.0.2]</p>
T-17	<p>Additional Limitations: Storage structure discharge pipes shall be located in a manner that will prevent the flow of sediment into the distribution system. Additionally, removable silt stops should be provided. [Recommended Standards for Water Works 7.0.15]</p>
T-18	<p>Additional Limitations: Appropriate sampling tap(s) shall be provided to facilitate collection of water samples for both bacteriologic and chemical analyses. [Recommended Standards for Water Works 7.0.19]</p>

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STOR6 (continued):

Narrative Requirements: Additional Limitations:

Condition No.	Condition
T-19	<p>Additional Limitations: Storage structures shall be vented. Overflows shall not be considered as vents. Open construction between the sidewall and roof is not permitted. Vents shall</p> <ul style="list-style-type: none">a) prevent the entrance of rainwater,b) exclude birds and animals, andc) exclude insects and dust (as much as compatible with effective venting). <p>Vents may use four-mesh noncorrodible screen. [Recommended Standards for Water Works 7.0.9]</p>
T-20	<p>Additional Limitations: Adequate controls shall be provided to maintain levels in storage structures. The level controls shall be acceptable to the Division of Water. Level indicating devices should be provided at a central location. Overflow and low-level warnings or alarms should be located at places in the community where they will be under responsible surveillance 24 hrs a day. [401 KAR 8:100 Section 1(7), Recommended Standards for Water Works 7.3.3]</p>
T-21	<p>Additional Limitations: If storage structures have a catwalk over the water, the catwalk floor shall be solid with raised edges so that shoe scrapings and dirt will not fall into the water. [Recommended Standards for Water Works 7.0.14]</p>
T-22	<p>Additional Limitations: The area around the storage structure shall be graded in a manner that will prevent surface water from standing within 50 ft of the storage structure. [Recommended Standards for Water Works 7.0.16]</p>
T-23	<p>Additional Limitations: Proper protection shall be given to metal surfaces by</p> <ul style="list-style-type: none">a) paints or other protective coatings and/orb) cathodic protective devices. [Recommended Standards for Water Works 7.0.17]
T-24	<p>Additional Limitations: If cathodic protection is utilized,</p> <ul style="list-style-type: none">a) competent technical personnel should design and install the protection andb) a maintenance contract should be provided. [Recommended Standards for Water Works 7.0.17]

Distribution-Major Construction

KY American Water Co
Facility Requirements

Activity ID No.: APE20070014

Page 15 of 16

STOR6 (continued):

Narrative Requirements: Additional Limitations:

Condition No.	Condition
T-25	<p>Additional Limitations: If the interior of the storage structure is coated or lined, the coating or lining shall be of a type approved by the Division of Water for use in contact with potable water. [401 KAR 8:020 Section 2(19)]</p>
T-26	<p>Additional Limitations: Paints and coatings</p> <ol style="list-style-type: none">shall meet NSF standard 61,shall be acceptable to the Division of Water,shall be properly applied and cured, andshall not transfer any substance to the water which will be toxic or cause tastes or odors (following curing). <p>Wax coatings shall not be used in any storage structure and must be completely removed before using other paints or coatings in an existing storage structure. [401 KAR 8:100 Section 1(7), Recommended Standards for Water Works 7.0.17]</p>
T-27	<p>Additional Limitations: New water storage structures shall be thoroughly disinfected (in accordance with AWWA Standard C652) upon completion of construction and before being placed into service. To disinfect new storage structures</p> <ol style="list-style-type: none">remove all scaffolding, planks, tools, rags, and other items that are not part of the structural or operational facilities of the storage structure,clean thoroughly by sweeping, scrubbing, using high-pressure water jets, or some equivalently effective means, anduse chlorine or chlorine compounds as subsequently described. <p>Finalize disinfection by</p> <ol style="list-style-type: none">chlorination method 1, described in detail at AWWA Standard C652 Section 4.3.1,chlorination method 2, described in detail at AWWA Standard C652 Section 4.3.2, orchlorination method 3, described in detail at AWWA Standard C652 Section 4.3.3. <p>See the following conditions for abbreviated descriptions of the methods. Following the finalization of disinfection, place storage structures into service if, and only if, Coliform monitoring applicable to the storage structure does not show the presence of Coliform. If Coliform is detected, flush the tank and repeat Coliform monitoring. If Coliform is still detected, repeat disinfection and flushing as if the tank has never been disinfected. Continue the described process until monitoring does not show the presence of Coliform. [Recommended Standards for Water Works 7.0.18]</p>

Distribution-Major Construction

KY American Water Co
Facility Requirements

Page 16 of 16

Activity ID No.: APE20070014

STOR6 (continued):

Narrative Requirements:

Condition No.	Condition
T-28	<p>If applicable, chlorination method 1 generally requires</p> <ul style="list-style-type: none">a) filling a storage structure to the overflow level with water providing a free chlorine residual disinfection ≥ 10 ppm andb) i) completely draining the storage facility and refilling orb) ii) otherwise reducing (in accordance with method 1) the free chlorine residual to a level appropriate for distribution. [Recommended Standards for Water Works 7.0.18]
T-29	<p>If applicable, chlorination method 2 generally requires</p> <ul style="list-style-type: none">a) scrubbing or spraying the water-contact surfaces of a storage structure with a water solution having an available chlorine concentration = 200 ppm andb) purging of the strong chlorine solution and filling to the overflow level. [Recommended Standards for Water Works 7.0.18]
T-30	<p>If applicable, chlorination method 3 generally requires</p> <ul style="list-style-type: none">a) filling a storage structure to approximately 5% of the total storage volume with water having an available chlorine concentration of 50 ppm,b) continued filling of the storage structure to the overflow level with normal potable water, andc) purging the storage structure so that various disinfection by-products do not reach water consumers. [Recommended Standards for Water Works 7.0.18, 401 KAR 8:100 Section 1(7)]



ERNE FLETCHER
GOVERNOR

ENVIRONMENTAL AND PUBLIC PROTECTION CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
DIVISION OF WATER
14 REILLY ROAD
FRANKFORT, KENTUCKY 40601
www.kentucky.gov

TERESA J. HILL
SECRETARY

May 18, 2007

Nick Rowe, President
Kentucky American Water
2300 Richmond Road
Lexington, Kentucky 40502

Re: KPDES No.: KYG640175
Kentucky American Water – KY River Pool 3 WTP
AI ID: 34054
Activity ID: APE20070003
Owen County, Kentucky

Dear Mr. Rowe:

The discharge associated with the Notice of Intent you submitted have been approved for coverage under a "General KPDES Permit for Wastewater Discharges associated with Drinking Water Plant Activities." This coverage becomes effective the date of this letter and will remain effective until the general permit expires or the Division of Water revokes coverage. During this period of coverage all discharges shall comply with the conditions of the general permit. A copy of the permit has been enclosed.

Any questions concerning the general permit and its requirements should be directed to me at (502) 564-8158, extension 423.

Sincerely,

Ronnie Thompson, KPDES Permit Writer
Industrial Section
KPDES Branch
Division of Water

RT:rt
Enclosure

KPDES



KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

PERMIT

Permit No: KYG64

GENERAL KPDES PERMIT FOR WASTEWATER DISCHARGES ASSOCIATED WITH DRINKING WATER PLANT ACTIVITIES

In compliance with the provisions of the Kentucky Revised Statutes Chapter 224 and pursuant to 401 KAR 5:055, Section 5, the following discharges are authorized:

Filter backwash water and other wastewater discharges associated with potable water production.

Specifically excluded from authorization under this permit are discharges that:

1. Are subject to an existing individual KPDES permit or application,
2. The Director has determined to be or may reasonably be expected to be contributing to a violation of a water quality standard or to the impairment of a 303(d) listed water, or
3. Are into a surface water that has been classified as an Exceptional or Outstanding State or National Resource Water.

The receiving waters for any discharge authorized by this permit are located within the political boundaries of the Commonwealth of Kentucky. Such authorization is in accordance with the effluent limitations and other conditions set forth in PARTS I, II, and III hereof. This permit consists of this cover sheet, Part I 2 pages, Part II 1 page, and Part III 1 page.

This permit shall become effective on September 1, 2004.

This permit and the authorization to discharge shall expire at midnight, August 31, 2009.

SEP 19 2004
Date Signed

A handwritten signature in black ink, appearing to read "Jeffrey W. Pratt", written over a horizontal line.

Jeffrey W. Pratt, Director
Division of Water

Lloyd R. Cress
Commissioner

DEPARTMENT FOR ENVIRONMENTAL PROTECTION
Division of Water, Frankfort Office Park, 14 Reilly Road, Frankfort, Kentucky 40601

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A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning on the effective date of this permit and lasting through the term of this permit, the permittee is authorized to discharge filter backwash water and other wastewater discharges associated with potable water production.

Such discharges shall be limited and monitored by the permittee as specified below:

	<u>DISCHARGE LIMITATIONS</u>			<u>MONITORING REQUIREMENTS</u>		
	<u>lbs/day</u>		<u>Other Units (Specify)</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>	
	<u>Monthly Avg.</u>	<u>Daily Max.</u>				
Flow (MGD)	Report	Report	N/A	1/Month	Instantaneous	
Total Suspended Solids	N/A	N/A	30 mg/l	1/Month	Composite <u>1/</u>	
Total Residual Chlorine (mg/l)	N/A	N/A	Report	1/Month	Grab <u>2/</u>	

The pH of the effluent shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored 1/month by grab sample.

There shall be no discharge of floating solids or visible foam or sheen in other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: nearest accessible point after final treatment, but prior to actual discharge or mixing with receiving waters.

Report means specific effluent limitations do not exist.

1/ The composite sample shall contain four (4) combined equal volume grab samples. Where the duration of the discharge allows, these samples shall be taken approximately two (2) hours apart. Otherwise, samples shall be taken at evenly spaced intervals over the period of discharge.

2/ Monitoring for this parameter is not necessary if the discharge does not contain chlorinated water.

B. Schedule of Compliance

The permittee shall achieve compliance with all requirements upon notification of coverage under this general permit.

PART II
Page II-1
Permit No.: KYG64

STANDARD CONDITIONS FOR KPDES PERMIT

The permittee is also advised that all KPDES permit conditions in KPDES Regulation 401 KAR 5:065, Section 1 will apply to all discharges authorized by this permit.

This permit has been issued under the provisions of KRS Chapter 224 and regulations promulgated pursuant thereto. Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits or licenses required by this Cabinet and other state, federal and local agencies.

PART III

OTHER REQUIREMENTS

A. Reporting of Monitoring Results

Monitoring results must be obtained for each month and reported on a preprinted Discharge Monitoring Report (DMR) Form that will be mailed to you each quarter for the upcoming quarter. The completed DMRs for each month must be sent to the Division of Water at the address listed below (with a copy to the appropriate Regional Office) postmarked no later than the 28th day of the month following the completed quarter.

Environmental and Public Protection Cabinet
Dept. for Environmental Protection
Division of Water/KPDES Branch
14 Reilly Road, Frankfort Office Park
Frankfort, Kentucky 40601

A list of Division of Water Regional Offices and the counties that they serve is included as Attachment A.

B. Reopener Clause

This permit shall be modified, or alternatively revoked and reissued, to comply with any applicable effluent standard or limitation issued or approved under 401 KAR 5:050 through 5:080 and KRS 224, if the effluent standard or limitation so issued or approved:

1. Contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
2. Controls any pollutant not limited in the permit.

The permit as modified or reissued under this paragraph shall also contain any other requirements of KRS Chapter 224 when applicable.

Regional Office Listing

Bowling Green Regional Office 1508 Westen Avenue Bowling Green, Kentucky 42104 (270) 746-7475 Fax (270) 746-7865 Allen Grayson Simpson Barren Harl Warren Butler Logan Edmonson Ohio	London Regional Office 876 South Main Street London, Kentucky 40741 (606) 878-0157 Fax (606) 877-9091 Bell Knox Owsley Clay Laurel Rockcastle Harlan Leslie Whitley Jackson McCreary
Columbia Regional Office 102 Burkesville Street Columbia, Kentucky 42728 (270) 384-4734 Fax (270) 384-5199 Adair LaRue Pulaski Boyle Lincoln Russell Casey Marlon Taylor Clinton Metcalfe Washington Cumberland Monroe Wayne Green Nelson	Louisville Regional Office 9116 Leesgate Road Louisville, Kentucky 40222-5084 (502) 425-4671 Fax (502) 425-4471 Breckinridge Meade Bullitt Oldham Hardin Shelby Jefferson Spencer
Florence Regional Office 8020 Veterans Memorial Drive, Suite 110 Florence, Kentucky 41042 (859) 525-4923 Fax (859) 525-4157 Boone Gallatin Owen Bracken Grant Pendleton Campbell Henry Trimble Carroll Kenton	Madisonville Regional Office Madisonville State Office Building 625 Hospital Drive Madisonville, Kentucky 42431-1683 (270) 824-7529 Fax (270) 824-7070 Caldwell Hancock Muhlenberg Christian Henderson Todd Crittenden Hopkins Union Davless McLean Webster
Frankfort Regional Office 643 Teton Trail, Suite B Frankfort, Kentucky 40601 (502) 564-3358 Fax (502) 564-5043 Anderson Franklin Mercer Scott Bourbon Garrard Montgomery Woodford Clark Harrison Nicholas Estill Jessamine Powell Fayette Madison Robertson	Morehead Regional Office 200 Christy Creek Road, Suite 2 Morehead, Kentucky 40351 (606) 784-6635 Fax (606) 784-4544 Bath Fleming Mason Boyd Greenup Menifee Carter Lawrence Morgan Elliott Lewis Rowan
Hazard Regional Office 233 Birch Street, Suite 1 Hazard, Kentucky 41701 (606) 435-6022 Fax (606) 435-6025 Breathitt Knott Magoffin Pike Floyd Lee Martin Wolfe Johnson Letcher Perry	Paducah Regional Office 4500 Clarks River Road Paducah, Kentucky 42003 (270) 898-8468 Fax (270) 898-8640 Ballard Fulton Livingston Marshall Calloway Graves Lyon Trigg Carlisle Hickman McCracken



ERNE FLETCHER
GOVERNOR

ENVIRONMENTAL AND PUBLIC PROTECTION CABINET

DEPARTMENT FOR ENVIRONMENTAL PROTECTION

DIVISION OF WATER

14 REILLY ROAD

FRANKFORT, KENTUCKY 40601-1190

www.kentucky.gov

FACT SHEET

LAJUANA S. WILCHER
SECRETARY

**GENERAL KPDES PERMIT FOR WASTEWATER DISCHARGES ASSOCIATED
WITH DRINKING WATER PLANT ACTIVITIES**

Permit No.: KYG64
Date: April 22, 2004

1. COVERAGE UNDER THIS GENERAL PERMIT

Area of Coverage:

This permit covers all areas of the Commonwealth of Kentucky.

Discharges Eligible for Coverage:

This permit covers all new and existing filter backwash water and other wastewater discharges associated with potable water production from public or privately owned drinking water plants (SIC Code 4941).

Limitations on Coverage:

This permit does not authorize discharges that:

1. Are subject to an existing individual KPDES permit or application,
2. The Director has determined to be or may reasonably be expected to be contributing to a violation of a water quality standard or to the impairment of a 303(d) listed water, or
3. Are into a surface water that has been classified as an Exceptional or Outstanding State or National Resource Water.

2. REQUIREMENTS FOR GENERAL PERMIT COVERAGE

Notice of Intent:

A signed copy of a Notice of Intent (NOI) form and a U.S. Geological Survey 7.5 minute topographical map with the discharge location marked must be submitted to the following address:

Section Supervisor
Inventory and Data Management Section
KPDES Branch, Division of Water
Frankfort Office Park
14 Reilly Road
Frankfort, Kentucky 40601

Authorization to Discharge:

Owners or operators who submit the above notification are authorized to discharge drinking water plant wastewater under the terms and conditions of this permit upon receipt of written notification of coverage from the Division of Water.

vb



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The Director may deny coverage under this general permit and require submittal of an application for an individual KPDES permit based on a review of the NOI and/or other information.

Notice of Termination:

In the event of an elimination of all wastewater discharges authorized by this permit, the owner or operator may submit a Notice of Termination (NOT) in order to terminate coverage under this permit and nullify its requirements. NOTs are to be sent to the above address.

Change of Ownership:

When the owner or operator of a facility covered by this permit changes, the new owner or operator must submit a notice 48 hours before the change in order to transfer coverage under this general permit. Change of ownership notices are to be sent to the above address.

3. ADDITIONAL INFORMATION

No water or wastewater treatment facility shall be constructed, including additions or modifications to existing treatment facilities, without having received approval from the Division of Water. Additional information concerning necessary permits or approvals for construction projects may be obtained from the Drinking Water Branch of the Division of Water at (502) 564-3410.

4. PROPOSED EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Wastewater discharges associated with potable water production.

Discharge Description	Effluent Characteristics	Limitations		Applicable Water Quality Criteria
		Monthly Average	Daily Maximum	
Filter backwash water and other wastewater discharges associated with potable water production	Flow (MGD)	Report	Report	401 KAR 5:065, Section 2(8)
	Total Suspended Solids	30 mg/l	50 mg/l	401 KAR 5:080, Section 1(2)(c)2
	Total Residual Chlorine	Report	Report	401 KAR 5:065, Section 2(8)
	pH (standard units)	within range of 6-9		401 KAR 5:031, Section 4

Monitoring Requirements:

<u>Parameter</u>	<u>Frequency</u>	<u>Sample Type</u>
Flow	1/Month	Instantaneous
Total Suspended Solids	1/Month	Composite
Total Residual Chlorine	1/Month	Grab
pH	1/Month	Grab

5. JUSTIFICATION OF LIMITS

The following regulations are pursuant to KRS 224.10-100, 224.70-100, and 224.70-110.

Flow and Total Residual Chlorine

The monitoring requirements for these parameters are consistent with 401 KAR 5:065, Section 2(8).

Total Suspended Solids

The limitations for this parameter are based on the Permit Writer's "Best Professional Judgment" (BPJ) of the "Best Conventional Pollutant Control Technology" (BCT) consistent with 401 KAR 5:080, Section 1(2)(c)2.

pH

The limitations for this parameter are consistent with 401 KAR 5:031, Section 4.

Antidegradation:

The conditions of 401 KAR 5:029, Section 1(1) have been satisfied by this permit action. A review under Section 1(2), (3) and (4) is not applicable.

6. COMPLIANCE SCHEDULE

The permittee shall attain compliance with the permit conditions upon notification of coverage under this general permit.

7. PERMIT DURATION

Five (5) years. Upon issuance of a new general permit, the permittee will have coverage automatically renewed. A new NOI or other notification is not necessary.

8. PERMIT INFORMATION

The administrative record, including application, draft permit, fact sheet, public notice, comments received, and additional information is available from the Division of Water at 14 Reilly Road, Frankfort, Kentucky 40601.

9. REFERENCES AND CITED DOCUMENTS

All material and documents referenced or cited in this fact sheet are part of the permit information as described above and are readily available at the Division of Water Central Office. Information regarding these materials may be obtained from the person listed below.

10. CONTACT

Additional information concerning this permit may be obtained from Ronnie Thompson at the address noted in item 8 or at (502) 564-2225, extension 423.

11. PUBLIC NOTICE INFORMATION

Please refer to the attached Public Notice for details regarding the procedures for a final permit decision, deadline for comments and other information required by KAR 5:075, Section 4(2)(e).