SECTION 3.20 - SPECIFIC UTILITY EXTENSION POLICY (CONT.)

location and number of houses and other planned structures that will be requiring utility service. If other than residential structures are to be located on the property, all other types of anticipated businesses and their service demands shall be identified with specificity. All areas requiring special irrigation and/or other unique water demands must be identified. To the extent reasonably possible, this information must be precise so that adequate facilities can be designed and constructed to meet all future service demands without hazard to the public, other utility customers and/or the environment.

(b) After the requirements of easements and rights-of-way have been determined, a red line copy will be returned by the Utility to the Developer for final plat preparation.

(c) Copies of all proposed plats and plans must be submitted to the Utility before their submission to the county for approval to insure that they are compatible with the adequate long-term utility needs of potential service customers. Copies will be returned after review by the Utility so that necessary changes may be incorporated into the Developer's final submitted plat(s) and plans.

(d) The Utility shall be provided with three (3) certified copies of the final plat(s) approved by the County Commissioners Court. At this time, the Utility will begin engineering the facilities necessary to serve the property. Plans and specifications will be prepared and submitted to the TCEQ by the Utility if required by law. If further plat or plans changes are necessary to accommodate the specific service needs of the property and the anticipated customer demands, the Developer will be so notified. Plat amendments must be obtained by the Developer. The Developer shall be notified when all required TCEQ or other governmental approvals or permits have been received. No construction of utility plant that requires prior TCEQ plans approval shall be commenced until that approval has been received by the Utility and any conditions imposed by the TCEQ in association with its approvals have been satisfied.

(e) The Developer shall be required to post bond or escrow the funds necessary to construct all required utility plant, except individual taps, meters and sewer connections, required to serve the property. Construction shall not commence until funds are available. If the construction is to be done in coordination with the phased development of the property, funds must be provided in advance which are sufficient to complete each phase. No phase or facilities for any phase shall be constructed before the bonding or escrowing of all funds associated with that phase.

SECTION 3.20 - SPECIFIC UTILITY EXTENSION POLICY (CONT.)

(f) At the sole option of the Utility, the Developer may be required to execute a Developer Extension Contract setting forth all terms and conditions of extending service to their property including all contributions-in-aid of construction and developer reimbursements, if any.

(g) The Utility may require the Developer to commence construction of subdivision improvements within three (3) months of utility plans approval or the Utility may abate its construction activities until full development construction begins. If the Developer stops construction of subdivision improvements for any purpose, the Utility may abate its construction for a similar period.

(h) As soon as the roads are rough cut and before paving, extension lines will need to be constructed at each road crossing. The Developer must notify the Utility sufficiently in advance of this development stage to allow for the necessary utility construction without disruption to other service operations of the Utility. Failure to provide adequate advance notice and cooperation in the construction of necessary utility plant may result in additional delays in obtaining service to the property. The Developer shall be required to pay for all additional costs of road boring or other remedial construction necessary to install adequate utility plant throughout the affected property.

(i) The Developer, not the Utility, shall insure that Developer's employees, agents, contractors and others under its control coordinate their work or construction throughout the property with the Utility to insure the orderly and timely construction of all utility plant necessary to serve the public.

Within its certificated area, the Utility shall bear the cost of the first 200 feet of any water main or sewer collection line necessary to extend service to an individual residential service applicant within a platted subdivision unless the Utility can document:

(a) that the developer of the subdivision refused to provide facilities compatible with the utility's facilities in accordance with the Utility's approved extension policy after receiving a written request from the Utility; or,

(b) that the Developer defaulted on the terms and conditions of a written agreement or contract existing between the utility and the developer or the terms of this tariff regarding payment for services, extensions, or other requirements; or in the event the Developer declared

SECTION 3.20 - SPECIFIC UTILITY EXTENSION POLICY (CONT.)

(c) that the residential service applicant purchased the property from the Developer after the Developer was notified of the need to provide facilities to the utility. A residential service applicant may be charged the remaining costs of extending service to his property; provided, however, that the residential service applicant may only be required to pay the cost equivalent to the cost of extending the nearest water main, whether or not that line has adequate capacity to serve that residential service applicant. The following criteria shall be considered to determine the residential service applicant's cost for extending service:

(a) the residential service applicant shall not be required to pay for costs of main extensions greater than 2" in diameter for water distribution.

(b) Exceptions may be granted by the TCEQ Executive Director if:

(1) adequate service cannot be provided to the applicant using the maximum line sizes listed due to distance or elevation, in which case, it shall be the utility's burden to justify that a larger diameter pipe is required for adequate service;

(2) larger minimum line sizes are required under subdivision platting requirements or applicable building codes.

(c) If an exception is granted, the Utility shall establish a proportional cost plan for the specific extension or a rebate plan which may be limited to seven years to return the portion of the applicant's costs for oversizing as new customers are added to ensure that future applicants for service on the line pay at least as much as the initial service applicant.

For purposes of determining the costs that service applicants shall pay, commercial customers with service demands greater than residential customer demands in the certificated area, industrial, and wholesale customers shall be treated as developers.

A service applicant requesting a one-inch meter for a lawn sprinkler system to service a residential lot is not considered nonstandard service.

Drought Contingency Plan for an Investor Owned Utility

Texas Commission on Environmental Quality

Instructions: The following form is a model of a drought contingency plan for an investor owned utility. Not all items may apply to your system's situation. This form is supplied for your convenience, but you are not required to use this form to submit your plan to the TCEQ. Submit completed plans to: Water Supply Division MC 160, TCEQ, P.O. Box 13087, Austin TX 78711-3087.

Texas Water Systems
(Name of Utility)

P. O. Box 131945, Tyler, TX 75713
(Address, City, Zip Code)

12473
(CCN#)

2120034, 2120081, 2120104, 1070176, 2300021, 2300020, 2300026, 0920031
(PWS #s)

August 20, 2008
(Date)

Section 1 Declaration of Policy, Purpose, and Intent

In cases of extreme drought, periods of abnormally high usage, system contamination, or extended reduction in ability to supply water due to equipment failure, temporary restrictions may be instituted to limit non-essential water usage. The purpose of the Drought Contingency Plan is to encourage customer conservation in order to maintain supply, storage, or pressure or to comply with the requirements of a court, government agency or other authority.

Please note: Water restriction is not a legitimate alternative if a water system does not meet the Texas Commission on Environmental Quality's (TCEQ) capacity requirements under normal conditions **or** if the utility fails to take all immediate and necessary steps to replace or repair malfunctioning equipment.

I Glenn E. Trimble (print name), being the responsible official for Texas Water Systems, Inc. (Name of utility), **request a minor tariff amendment to include the enclosed Drought Contingency Plan.**

_____

_____

(Signature) **(Date)**

Section 2 Public Involvement

Opportunity for the public to provide input into the preparation of the Plan was provided by:

(check at least one of the following)

☐ *scheduling and providing public notice of a public meeting to accept input on the Plan.*

The meeting took place at:

Date: _____ Time: _____ Location: _____

☐ *mailed survey with summary of results* **(attach survey and results)**

☒ *bill insert inviting comment* **(attach bill insert)**

☐ *other* *method*

_____

Section 3 Public Education

The Texas Water Systems (*name of utility*) will periodically provide the public with information about the Plan, including information about the conditions under which each stage of the Plan is to be initiated or terminated and the drought response measures to be implemented in each stage.

Drought plan information will be provided by:
(check at least one of the following)

☐ *public meeting*

☐ *press releases*

☐ *utility bill inserts*

☒ *other* newsletters

Section 4 Coordination with Regional Water Planning Groups

The service area of the Texas Water Systems (*name of your utility*) is located within Regional Water Planning Group (RWPG) D & I.
Texas Water Systems (*name of your utility*) has mailed a copy of this Plan to the RWPG.

Section 5 Notice Requirements

Written notice will be provided to each customer **prior to implementation or termination of each stage of the water restriction program**. Mailed notice must be given to each customer 72 hours prior to the start of water restriction. If notice is hand delivered, the utility cannot enforce the provisions of the plan for 24 hours after notice is provided. The written notice to customers will contain the following information:

1. the date restrictions will begin,
2. the circumstances that triggered the restrictions,
3. the stages of response and explanation of the restrictions to be implemented, and,
4. an explanation of the consequences for violations.

The utility must notify the TCEQ by telephone at (512) 239-4691, or electronic mail at *watermon@tceq.state.tx.us* prior to implementing Stage III and must notify in writing the Public Drinking Water Section at MC - 155, P.O. Box 13087, Austin, Texas 78711-3087 within five (5) working days of implementation including a copy of the utility's restriction notice. The utility must file a status report of its restriction program with the TCEQ at the initiation and termination of mandatory water use restrictions (i.e., Stages III and IV).

Section 6 Violations

1. First violation - The customer will be notified by written notice of their specific violation.

2. Subsequent violations:

   a. After written notice, the utility may install a flow restricting device in the line to limit the amount of water which will pass through the meter in a 24-hour period. The utility may charge the customer for the actual cost of installing and removing the flow restricting device, not to exceed $50.00.

   b. After written notice, the utility may discontinue service at the meter for a period of seven (7) days, or until the end of the calendar month, whichever is LESS. The normal reconnect fee of the utility will apply for restoration of service.

Section 7 Exemptions or Variances

The utility may grant any customer an exemption or variance from the drought contingency plan for good cause **upon written request**. A customer who is refused an exemption or variance may appeal such action of the utility in writing to the Texas Commission on Environmental Quality. The utility will treat all customers equally concerning exemptions and variances, and shall not discriminate in granting exemptions and variances. No exemption or variance shall be retroactive or otherwise justify any violation of this Plan occurring prior to the issuance of the variance.

Section 8 Response Stages

Unless there is an immediate and extreme reduction in water production, or other absolute necessity to declare an emergency or severe condition, the utility will initially declare Stage I restrictions. If, after a reasonable period of time, demand is not reduced enough to alleviate outages, reduce the risk of outages, or comply with restrictions required by a court, government agency or other authority, Stage II may be implemented with Stage III to follow if necessary.

STAGE I - CUSTOMER AWARENESS

Stage I will begin:

Every April 1st, the utility will mail a public announcement to its customers.
No notice to TCEQ required.

Stage I will end:

Every September 30th, the utility will mail a public announcement to it's customers. No notice to TCEQ required.

Utility Measures:

This announcement will be designed to increase customer awareness of water conservation and encourage the most efficient use of water. A copy of the current public announcement on water conservation awareness shall be kept on file available for inspection by the TCEQ.

Voluntary Water Use Restrictions:

Water customers are requested to voluntarily limit the use of water for non-essential purposes and to practice water conservation.

STAGE II - VOLUNTARY WATER CONSERVATION:

Target: Achieve a 10 percent reduction in daily demand (example: total water use, daily water demand, etc.)

The water utility will implement Stage 2 when any one of the selected triggers is reached:

Supply-Based Triggers: (check at least one and fill in the appropriate value)

- ☐ Well level reaches 25 ft. above pump.
- ☐ Overnight recovery rate reaches _____ ft.
- ☐ Reservoir elevation reaches _____ ft. (m.s.l.)
- ☐ Stream flow reaches _____ cfs at USGS gage # _____
- ☐ Wholesale supplier's drought Stage 2 _____
- ☐ Annual water use equals _____ % of well permit/Water Right/purchased water contract amount
- ☐ Other _____

Demand- or Capacity-Based Triggers: (check at least one and fill in the appropriate value)

- ☐ Drinking water treatment as % of capacity _____ %
- ☐ Total daily demand as % of pumping capacity 80 %
- ☐ Total daily demand as % of storage capacity _____ %
- ☐ Pump hours per day _____ hrs.
- ☐ Production or distribution limitations.
- ☐ Other _____

Upon initiation and termination of Stage II, the utility will mail a public announcement to its customers. No notice to TCEQ required.

Requirements for Termination:

Stage II of the Plan may end when all of the conditions listed as triggering events have ceased to exist for a period of three (3) consecutive days. Upon termination of Stage II, Stage I becomes operative.

Utility Measures:

Visually inspect lines and repair leaks on a daily basis. Monthly review of customer use records and follow-up on any that have unusually high usage.

Describe additional measures, if any, to be implemented directly by the utility to manage limited water supplies and/or reduce water demand. Examples include: reduced or discontinued flushing of water mains, activation and use of an alternative supply source(s); use of reclaimed water for non-potable purposes.

The second water source for _____ (*name of utility*) is: (check one)

- ☐ Other well
- ☐ Interconnection with other system
- ☐ Purchased water
- ☐ Other

_____

Voluntary Water Use Restrictions:

2 Restricted Hours: Outside watering is allowed daily, but only during periods specifically described in the customer notice; between 10:00 p.m. and 5:00 a.m. for example; or

3 Restricted Days/Hours: Water customers are requested to voluntarily limit the irrigation of landscaped areas with hose-end sprinklers or automatic irrigation systems. Customers are requested to limit outdoor water use to **Mondays for water customers with a street address ending with the numbers 1, 2, or 3, Wednesdays for water customers with a street address ending with the numbers 4, 5, or 6, and Fridays for water customers with a street address ending with the numbers 7, 8, 9, or 0.** Irrigation of landscaped areas is further limited to the hours of 12:00 midnight until 10:00 a.m. and between 8:00 p.m. and 12:00 midnight on designated watering days. However, irrigation of landscaped areas is permitted at anytime if it is by means of a hand-held hose, a faucet-filled bucket or watering can of five (5) gallons or less, or drip irrigation system; or

1) Other uses that waste water such as water running down the gutter.

STAGE III - MANDATORY WATER USE RESTRICTIONS:

Target: Achieve a 20 percent reduction in Total use (example: total water use, daily water demand, etc.)

The water utility will implement Stage III when any one of the selected triggers is reached:

Supply-Based Triggers (check at least one and fill in the appropriate value)

- ☐ Well level reaches 15 ft. above pump
- ☐ Overnight recovery rate reaches _____ ft.
- ☐ Reservoir elevation reaches _____ ft. (m.s.l.)
- ☐ Stream flow reaches _____ cfs at USGS gage # _____
- ☐ Wholesale supplier's drought Stage III _____
- ☐ Annual water use equals _____ % of well permit/Water Right/purchased water contract amount.
- ☐ Other _____

Demand- or Capacity-Based Triggers (check at least one and fill in the appropriate value)

- ☐ Drinking water treatment as % of capacity _____ %
- ☐ Total daily demand as % of pumping capacity 90 %
- ☐ Total daily demand as % of storage capacity _____ %
- ☐ Pump hours per day _____ hrs.
- ☐ Production or distribution limitations.
- ☐ Other _____

Upon initiation and termination of Stage III, the utility will mail a public announcement to its customers. Notice to TCEQ required.

Requirements for Termination:

Stage III of the Plan may end when all of the conditions listed as triggering events have ceased to exist for a period of three (3) consecutive days. Upon termination of Stage III, Stage II becomes operative.

Utility Measures:

Visually inspect lines and repair leaks on a regular basis. Flushing is prohibited except for dead end mains.

Describe additional measures, if any, to be implemented directly by the utility to manage limited water supplies and/or reduce water demand. Examples include: activation and use of an alternative supply source(s); use of reclaimed water for non-potable purposes; offering low-flow fixtures and water restrictors.

Mandatory Water Use Restrictions:

The following water use restrictions shall apply to all customers.

1. Irrigation of landscaped areas with hose-end sprinklers or automatic irrigation systems **shall be limited to Mondays for water customers with a street address ending with the numbers 1, 2, or 3, Wednesdays for water customers with a street address ending with the numbers 4, 5, or 6, and Fridays for water customers with a street address ending with the numbers 7, 8, 9, or 0.** Irrigation of landscaped areas is further limited to the hours of 12:00 midnight until 10:00 a.m. and between 8:00 p.m. and 12:00 midnight on designated watering days. However, irrigation of landscaped areas is permitted at anytime if it is by means of a hand-held hose, a faucet-filled bucket or watering can of five (5) gallons or less, or drip irrigation system.

2. Use of water to wash any motor vehicle, motorbike, boat, trailer, airplane or other vehicle is prohibited except on designated watering days between the hours of 12:00 midnight and 10:00 a.m. and between 8:00 p.m. and 12:00 midnight. Such washing, when allowed, shall be done with a hand-held bucket or a hand-held hose equipped with a positive shutoff nozzle for quick rinses. Vehicle washing may be done at any time on the immediate premises of a commercial car wash or commercial service station. Further, such washing may be exempted from these regulations if the health, safety, and welfare of the public are contingent upon frequent vehicle cleansing, such as garbage trucks and vehicles used to transport food and perishables.

3. Use of water to fill, refill, or add to any indoor or outdoor swimming pools, wading pools, or "jacuzzi" type pool are prohibited except on designated watering days between the hours of 12:00 midnight and 10:00 a.m. and between 8:00 p.m. and 12:00 midnight.

4. Operation of any ornamental fountain or pond for aesthetic or scenic purposes is prohibited except where necessary to support aquatic life or where such fountains or ponds are equipped with a recirculation system.

5. Use of water from hydrants or flush valves shall be limited to maintaining public health, safety, and welfare.

6. Use of water for the irrigation of golf courses, parks, and green belt areas are prohibited except by hand-held hose and only on designated watering days between the hours 12:00 midnight and 10:00 a.m. and between 8:00 p.m. and 12:00 midnight.

7. The following uses of water are defined as non-essential and are prohibited:

   a. wash down of any sidewalks, walkways, driveways, parking lots, tennis courts, or other hard-surfaced areas;
   b. use of water to wash down buildings or structures for purposes other than immediate fire protection;
   c. use of water for dust control;
   d. flushing gutters or permitting water to run or accumulate in any gutter or street;
   e. failure to repair a controllable leak(s) within a reasonable period after having been given notice directing the repair of such leak(s); and
   f. any waste of water.

STAGE IV - CRITICAL WATER USE RESTRICTIONS:

Target: Achieve a 40 **percent reduction in** daily demand **(example: total water use, daily water demand, etc.)**

The water utility will implement Stage IV when any one of the selected triggers is reached:

Supply-Based Triggers: (check at least one and fill in the appropriate value)

- ☐ Well level reaches _0_____ ft. above pump
- ☐ Overnight recovery rate reaches _____ ft.
- ☐ Reservoir elevation reaches _____ ft. (m.s.l.)
- ☐ Stream flow reaches _____ cfs at USGS gage # _____
- ☐ Wholesale supplier's drought Stage IV

  _____
- ☐ Annual water use equals _____ % of well permit/Water Right/purchased water contract amount
- ☐ Supply contamination
- ☐ Other _____

Demand- or Capacity-Based Triggers: (check at least one and fill in the appropriate value)

- ☐ Drinking water treatment as % of capacity _____ %
- ☐ Total daily demand as % of pumping capacity __100_____ %
- ☐ Total daily demand as % of storage capacity _____ %
- ☐ Pump hours per day _____ hrs
- ☐ Production or distribution limitations
- ☐ System outage
- ☐ Other _____

Upon initiation and termination of Stage IV, the utility will mail a public announcement to its customers. Notice to TCEQ required.

Requirements for Termination:

Stage IV of the Plan may be rescinded when all of the conditions listed as triggering
events have ceased to exist for a period of three (3) consecutive days. Upon termination of Stage IV, Stage III becomes operative.

Operational Measures:

The utility shall visually inspect lines and repair leaks on a daily basis. Flushing is prohibited except for dead end mains and only between the hours of 9:00 p.m. and 3:00 a.m. Emergency interconnects or alternative supply arrangements shall be initiated. All meters shall be read as often as necessary to insure compliance with this program for the benefit of all the customers. *Describe additional measures, if any, to be implemented directly to manage limited water supplies and/or reduce water demand.*

Mandatory Water Use Restrictions: (all outdoor use of water is prohibited)

1. Irrigation of landscaped areas is absolutely prohibited.

2. Use of water to wash any motor vehicle, motorbike, boat, trailer, airplane or other vehicle is absolutely prohibited.

SYSTEM OUTAGE or SUPPLY CONTAMINATION

Notify TCEQ Regional Office immediately.

PLUMBING CODE

Only those materials listed below under "BUILDING SERVICE LINES" or materials as required by the Texas Commission on Environmental Quality ("TCEQ") are approved for use. The Southern Building Code shall govern on method of installation, pipe sizing, fixture count and all general requirements, insofar as they apply to water supply and sewage collection systems, and to the extent that they are not contradictory to TCEQ Customer Service Inspection Requirements.

BUILDING SERVICE LINES

A. Waste pipe material shall be of the following material only:

1. Schedule 40 ABS or PVC Plastic
2. Schedule 35 PVC Plastic
3. For temperatures in excess of one hundred degrees (100^{o}) Fahrenheit, schedule 40 CPVC Plastic, ASTM Designation D-3034 MUST BE USED
4. Cast iron hub type soil pipe extra heavy service weight, ASTM A-74, with rubber ring and gasket. "No-Hub" pipe is not permitted below grade
5. SIX INCH ONLY shall be not less than ABS-SDR 35.0
6. ABS composite truss pipe may be used for eight-inch (8") diameter and above
7. Ductile iron pipe (push-on joint) conforming to ANSI A21.51

B. Water pipe material shall be:

1. Schedule 40 galvanized steel pipe, ASTM A-53
2. Seamless copper tubing Type K, L or M, ASTM B-88
3. Type 1 PVC 1120 and PVC 1220, 160 psi minimum pressure rating, ASTM D-1784
4. Ductile iron pipe (push-on joint) conforming to ANSI A 21.51
5. Polyethylene for one inch (1") and smaller ASTM Designation D-2239

C. Diameter of Service Lines:

1. Residential service lines shall be sized according to the Southern Building Code and in no case shall be smaller than three-fourths inch (3/4") for water or four inch (4") waste
2. commercial service lines shall be sized according to the Southern Building Code and in no case shall be smaller than one inch (1") for water and four inch (4") for waste unless special approval is obtained

D. Solvent for ABS shall e ASTM Designation D-2235. Solvent for PVC shall be STM Designation D-2564. Industrial polychemical solvent 795 shall be used for joining PVC to ABS

GRADE (WASTE LINES)

A. Minimum grade for four-inch (4") sewer pipe shall be 1% (one-foot drop/hundred feet), with a maximum grade of 2% (two-foot drop/hundred feet).

B. Minimum grade for six-inch (6") sewer pipe shall be 0.7% (8.5 inch-drop/hundred feet), with a maximum grade of 1.5% (18 inch-drop/hundred feet)

CONNECTION OF BUILDING STUB-OUTS TO SERVICE LINES

A. Building tie-on connections shall be made directly to the stub at the foundation on all waste outlets. Septic tanks and all grease traps must be bypassed. Septic tanks and grease traps should be pumped out, sides broken down, and then filled with dirt or sand. (This applies to existing residences being connected.)

B. Type of Waste Connections: Watertight adapter shall be used at house connections. All other connections shall be solvent weld.

C. No drain rim shall be installed less than one (1) foot above the top of the nearest manhole.

FITTINGS AND CLEANOUTS

A. No bends or turns at any point shall be greater than 45^{o}.

B. Each horizontal drainage pipe shall be provided with cleanout at its upper terminal, and each such run of piping which is more than 90 feet shall be provided with cleanout for each 90 feet or fraction thereof in the length of such piping.

C. Each cleanout shall be installed so that it opens in a direction opposite to the flow of the waste and, except in the case of "wye" branch and ending-of-line cleanouts, cleanouts shall be installed vertically above the flow of the pipe

D. Cleanout should be made with airtight mechanical plug

UNDER SLAB PLUMBING

Under-slab pipe and fittings shall be cast iron, Schedule 40 PVC

COMPLIANCE WITH TCEQ AND/OR COUNTY HEALTH DEPARTMENT INSPECTOR (" APPROVING AUTHORITY"

A. Unless exception is granted by the Approving Authority, the public sanitary sewer system shall be used by all persons discharging wastewater.

B. Unless authorized by the Texas Commission on Environmental Quality, no person may deposit or discharge any waste included in Subsection A of this Section on public or private property or into or adjacent to any: (1) natural outlet, (2) water course, (3) storm sewer or (4) other area within the jurisdiction of the District.

C. The Approving Authority shall verify before discharge that wastes authorized to be discharged will receive suitable treatment within the provisions of the laws, regulations, ordinances, rules and orders of federal, state and local governments.

APPROVING AUTHORITY REQUIREMENTS

A. If discharges or proposed discharges to sewer may: (i) deleteriously affect wastewater facilities, processes, equipment or receiving waters, (ii) create a hazard to life or health or (iii) create a public nuisance, the Approving Authority shall require:

1. Pre-treatment to an acceptable condition for discharge to the public sewers;

2. Control over the quantities and rates of discharge; and

3. Payment to cover the cost of hauling and treating the wastes.

B. The Approving Authority is entitled to determine whether a discharge of proposed discharge is included under Subsection A of this Section.

C. The Approving Authority shall reject wastes when it determines that a discharge or proposed discharge does not meet the requirements of Subsection A of this Section.

APPROVING AUTHORITY REVIEW AND APPROVAL

A. If pre-treatment or control is required, the Approving Authority shall review and approve design and installation of equipment and processes. A fee will be charged to cover the cost of said review.

B. The design and installation of equipment and processes must conform to all applicable statutes, codes, ordinances and other laws.

C. Any person responsible for discharges requiring pre-treatment, flow equalizing or other facilities shall provide and maintain the facilities in effective operating condition at his own expense.

REQUIREMENTS FOR TRAPS

A. Discharges requiring a trap include: (i) grease or waste containing grease in amounts that will impede or stop the flow in the public sewers, (ii) oil, (iii) sand, (iv) flammable wastes and (v) other harmful ingredients. Any person responsible for discharges requiring a trap shall at his own expense and as required by the Approving Authority:

1. Provide equipment and facilities of a type and capacity approved by the Approving Authority;

2. Locate the trap in a manner that provides ready and easy accessibility for cleaning and inspection; and

3. Maintain the trap in effective operating condition acceptable to the Approving Authority to protect the overall operation of the wastewater treatment plant.

REQUIREMENTS FOR BUILDING SEWERS

A. Any person responsible for discharges through a building sewer carrying industrial

wastes shall, at his own expense and as required by the Approving Authority:

1. Install an accessible control manhole;

2. Install meters and other appurtenances to facilitate observation sampling and measurement of the waste;

3. Install safety equipment and facilities (ventilation, steps, etc.) where needed; and

4. Maintain the equipment and facilities.

B. No industrial waste will be discharged into the District's system without formal approval by the Approving Authority.

SAMPLING AND TESTING

A. Sampling shall be conducted according to customarily accepted methods, reflecting the effect of constituents upon the sewage works and determining the existence of hazards to health, life, limb and property.

B. Examination and analyses of the characteristics of waters and wastes required shall be: (i) conducted in accordance with the latest edition of "Standard Methods" and (ii) determined from suitable samples taken at the control manhole provided or other control point authorized by the Approving Authority.

C. BOD and suspended solids shall be determined from composition sampling, except to detect unauthorized discharges.

D. The Approving Authority shall determine which users or classes of users may contribute wastewater that is greater strength than normal domestic wastewater. All users or classes of users so identified shall be samples for flow BOD, TSS and pH at least annually.

E. The Approving Authority may select an independent firm or laboratory to determine flow, BOD and suspended solids, if necessary. Flow may alternately be determined by water meter measurements if no other flow device is available and no other source of raw water is used.

F. Any and all charges required for the above shall be paid by the user.

PROHIBITED DISCHARGES

A. No person may discharge to public sewers any waste which by itself or by interaction with other wastes may: (i) injure or interfere with wastewater treatment processes or facilities; (ii) constitute a hazard to humans or animals; or (iii) create a hazard in receiving waters of the wastewater treatment plant effluent.

B. All discharges shall conform to requirements of this ordinance.

CHEMICAL DISCHARGES

A. No discharge to public sewers may contain:

1. Cyanide greater than .01 mg/l;

2. Fluoride other than those contained in the public water supply;

3. Chlorides in concentrations greater than 250 mg/l;

4. Gasoline, benzene, naphtha, fuel oil or other flammable or explosive liquid, solid or gas; or

5. Substances causing an excessive chemical oxygen demand (COD).

B. No waste or wastewater discharged or public waters may contain:

1. Strong acid, iron-pickling wastes or concentrated plating solutions whether neutralized or not;

2. Fats, wax, grease or oils, whether emulsified or not, in excess of one hundred (100) mg/lor containing substances which may solidify or become viscous at temperatures between 32^{O} and 150^{O} Fahrenheit (0^{O} and 65^{O} Centigrade).

3. Objectionable or toxic substances, exerting an excessive chlorine requirement to such degrees that any such material received in the composite wastewater treatment works exceeds the limits established by the Approving Authority for such materials; or

4. Obnoxious, toxic or poisonous solids, liquids or gases in quantities sufficient to violate the provisions of Section (12)A.

C. No waste, wastewater or other substance may be discharged into public sewers which has a pH lower than 6.0 or higher than 9.0 or any other corrosive property capable of causing damage or hazard to structures, equipment and/or personnel at the wastewater facilities.

D. All waste, wastewater or other substance containing phenols, hydrogen sulfide or other taste and odor producing substances, shall conform to concentration limits established by the Approving Authority. After treatment of the composite wastewater, concentration limits may not exceed the requirements established by state, federal or other agencies with jurisdiction over discharges to receiving waters.

HAZARDOUS METALS AND TOXIC MATERIALS

A. No discharges may contain concentration of hazardous metals other than amounts specified by the State Water Code.

B. The materials, their concentration parameters and rules governing same are as promulgated under authority of Sections 5.131 and 5.132, Texas Water Code - HAZARDOUS METALS, and in accordance with Texas Water Commission Rules 156.19.

C. No other hazardous metals or toxic materials may be discharged into public sewers without a permit from the Approving Authority specifying conditions of pre-treatment, concentration, volumes and other applicable provisions.

PARTICULATE SIZE

A. No person may discharge garbage or other solids into public sewers unless it is shredded to a degree that all particles can be carried freely under the flow conditions normally prevailing in public sewers. Particles greater than one-half inch (1/2") in any dimensions are prohibited.

B. The Approving Authority is entitled to review and approve the installation and operation of any garbage grinder equipped with a motor of 3/4 HP (0.76 HP metric) or greater.

STORM WATER AND OTHER UNPOLLUTED DRAINAGE

A. No person may discharge to public sanitary sewers: (i) unpolluted storm water, surface water, ground water, swimming pools, roof run-off or subsurface drainage, (ii) unpolluted cooling water, (iii) unpolluted industrial process water or (iv) other unpolluted drainage, or make new connections from inflow sources.

B. In compliance with the Texas Water Quality Act and other statutes, the Approving Authority may designate storm sewers and other water courses into which unpolluted drainage described in Subsection A of this Section may be discharged.

TEMPERATURE

No person may discharge liquid or vapor having a temperature higher than 150o Fahrenheit (65o Centigrade) or any substance that causes the temperature of the total wastewater treatment plant influent to increase at a rate of 10o Fahrenheit or more per hour, or combined total increase of plant influent to 110o Fahrenheit.

RADIOACTIVE WASTES

A. No person may discharge radioactive wastes or isotopes into public sewers without the permission of the Approving Authority.

B. The Approving Authority may establish, in compliance with applicable state and federal regulation, regulations for discharge of radioactive wastes into public sewers.

IMPAIRMENT OF FACILITIES

A. No person may discharge into public sewers any substance capable of causing: (i) obstruction to the flow in sewers, (ii) interference with the operation of treatment processes of facilities, or (iii) excessive loading of treatment facilities.

B. No person may discharge into public sewers any substance that may: (i) deposit grease or oil in the sewer lines in such a manner as to clog the sewers, (ii) overload skimming and grease handling equipment, (iii) pass to the receiving waters without being effectively treated by normal wastewater treatment processes due to the non-amenability of the substance to bacterial action or (iv) deleteriously affect the treatment process due to excessive quantities.

C. No person may discharge any substance into public sewers which: (i) is not amenable to treatment or reduction by the processes and facilities employed, or (ii) is amenable to treatment only to such a degree that the treatment plant effluent cannot meet the requirements of the agencies having jurisdiction over discharge to the receiving waters.

D. The Approving Authority shall regulate the flow and concentration of slugs when they may: (i) impair the treatment process, (ii) cause damage to collection facilities, (iii) incur treatment costs exceeding those for normal wastewater, or (iv) render the effluent unfit for stream disposal or industrial use.

WATER CONSERVATION SECTION

A. GENERAL - Automatic-flushing devices of the siphonic design shall not be used to operate urinals.

B. HOT WATER PIPES - All aboveground hot water piping shall be insulated.

C. WATER CLOSETS - Water closets, either wall-mounted or flushometer operated shall be designed, manufactured and installed to be operable and adequately flushed with no more than 2.0 gallons per flushing cycle when tested in accordance with applicable standards. All other water closets and toilets shall have no more than 1.6 gallons per flushing cycle when tested in accordance with applicable standards.

D. URINALS - Urinals shall be designed, manufactured and installed to be operable and adequately flushed with no more than 1.0 gallon of water per flush.

E. LAVATORY FACILITIES

1. Public Facilities:

Faucets for public lavatories shall be equipped with outlet devices which limit the flow of water to a maximum of 0.5 gpm at 60 psi pressure or be equipped with self-closing valves that limit the delivery to a maximum of 0.25 gallon of hot water for recirculating systems and to a maximum of 0.5 gallon for non-recirculating systems.

EXCEPTION: Separate lavatories for physically handicapped persons shall not be equipped with self-closing valves.

2. Private Facilities:

Faucets for private lavatories shall be designed, manufactured and installed to deliver water at a flow rate not to exceed 2.2 gpm at 6-psi pressure when tested in accordance with applicable standards.

F. SHOWER HEADS - Showerheads shall be designed, manufactured and installed to deliver water at a rate not to exceed 2.75 gpm at 80 psi pressure when tested in accordance with applicable standards.

G. SINK FAUCETS - Sink faucets shall be designed, manufactured and installed to deliver water at a rate not to exceed 2.2 gpm at 60 psi pressure when tested in accordance with applicable standards.

H. SWIMMING POOLS - All swimming pools installed in areas covered by the Certificates of Convenience and Necessity issued to XYZ UTILITY, INC. shall be equipped with recirculating filtration equipment.

I. DRINKING WATER FOUNTAINS - All drinking water fountains must be equipped with self-closing valves.

J. ORNAMENTAL FOUNTAINS - All ornamental fountains installed in areas covered by the Certificates of Convenience and Necessity issued to XYZ UTILITY, INC. shall be equipped with recirculating water equipment.