



CITY OF OMAHA CLASS SPECIFICATION

CLASSIFICATION TITLE: WASTEWATER TREATMENT PLANT OPERATOR

BARGAINING UNIT: [CIV BARGAINING](#)

CODE NUMBER: 6520

PAY RANGE CODE: [08105](#)

REVISION DATE: 10/26/17

NATURE OF WORK:

This is skilled work in the operation of wastewater treatment plant equipment on an assigned shift. Work involves responsibility for the operation, routine servicing, and care of a variety of plant equipment. Operation of the equipment includes reading meters and gauges, recording measurements, operating pumps, and maintaining chemical mixes. Work is reviewed by the assigned supervisor through inspection, tests, and observation of plant effectiveness.

ESSENTIAL FUNCTIONS: *(Any one position may not perform all the duties listed, nor do the listed examples include all the duties that may be performed in positions allocated to this class.)*

Operates and monitors wastewater treatment plant equipment using pre-determined procedures.

Reads meters and gauges in order to measure flow, functions, temperatures, pressures, and chemical levels, records measurements on shift logs and charts, and may also replace flow meter charts.

Collects samples for laboratory testing and analysis following pre-determined procedures.

Adjusts chemical and water mix, sludge filtrations systems, and pumps as necessary.

Operates sewage and sludge pumps, skims primary tanks, transfers grease to holding tanks, washes tanks, and draws sludge.

Operates power generating equipment and compressors for the storage of gases and recovery of energy.

Performs routine cleaning and servicing of equipment to include lubricating equipment, checking bearings and pumps, closing gate valves, removing rags and grit from pumps, refilling and replacing chemical containers, and draining condensation.

Performs air readings with gas detectors to determine if equipment is functioning properly and to identify potentially hazardous conditions.

Maintains regular job attendance in accordance with a schedule established for the position by the supervisor.

Performs other related duties as assigned or as the situation dictates within the scope of this classification.

REQUIRED KNOWLEDGE, SKILLS, AND ABILITIES:

Knowledge of and ability to operate a computer or other technology using standard or customized computer or systems software applications appropriate to the assigned tasks.

Knowledge of functions and servicing requirements for wastewater treatment equipment.

Knowledge of the processes involved in the treatment and disposal of wastewater.

Knowledge of the standard practices, tools, equipment, and materials used in the maintenance of pumping equipment.

Ability to learn occupational hazards and safety precautions.

Ability to use audio and visual means in order to monitor equipment for efficient operation.

Ability to accurately measure gauges and record readings.

Ability to use basic hand tools such as wrenches and hammers.

Ability to inspect operating mechanical and electrical equipment to detect flaws and defects in operation.

Ability to perform mathematical computations to include addition, multiplication, division, and subtraction.

Ability to learn and adapt to advances in computer and electronics device technology and software.

Ability to understand oral and written instructions.

Ability to adhere to safety policies, procedures, and guidelines.

Ability to establish and maintain effective working relationships with fellow employees and members of the general public.

EDUCATION AND EXPERIENCE: *(The knowledge, skills, and abilities above may be acquired through, but are not limited to, the following combination of education and/or experience.)*

High school graduation or its equivalent

AND

Experience in the operation and minor maintenance of mechanical and electrical equipment.

SPECIAL QUALIFICATIONS

Must possess and maintain a class 'O' driver's license.

Must maintain a Wastewater Treatment Plant Certificate, Class II, in accordance with Nebraska Department of Environmental Quality Wastewater Certification Act.

WORKING CONDITIONS: *(The conditions herein are representative of those that must be met by the employee to successfully perform the essential functions of the job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential job functions.)*

Working conditions consist of exposure to industrial building conditions, extreme temperatures from below 32 degrees to above 100 degrees, vibrating machinery, moving mechanical parts, electrical currents, confined spaces, humidity, fumes, odors, dust, mist, gases and chemicals. Noise levels may require shouting in order to be heard.

EQUIPMENT OPERATION: *(Any one position may not use all of the tools and equipment listed nor do the listed examples comprise all of the tools and equipment that may be used in positions allocated to this classification.)*

Electric Control Panels
Electrical Motors
Hydraulic Equipment
Gate Controls
Grease Grinder
Gas Detector
Augers
Air Scrubbers
Blowers
Vat Mixer
Air Compressor
Motorized Strainers
Clarifier Sweeps
Scott Air Packs

Pumps
Power Generators
Valve Controls
Automatic Sampler
Bar screens
Grit Washer
Conveyor Belts
Air Handlers
Tank Mixer
Gas Compressor
Collectors
Computer

Previous Revision Date(s): 5/30/96
1/30/07

**WASTEWATER TREATMENT PLANT OPERATOR-MISSOURI RIVER WASTEWATER
TREATMENT PLANT
PHYSICAL REQUIREMENTS**

Physical Requirements	EXAMPLES OF RELATED JOB DUTIES	Rarely 1-5%	Occasionally 6-33%	Frequently 34-66%	Continuously 67-100%
Standing	Monitoring proper functions of equipment and machines; working on pump/equipment if plugged; using fire hose; to observe various monitors.		X		
Walking	Monitoring equipment during rounds. Walking surfaces include concrete and outside terrain and during various weather conditions. Rounds may be performed during the day and evening.			X	
Sitting	Reviewing orders on the computer.	X			
Lifting	Raising and lowering an object weighing up to 95 lb.	X			
Carrying	Salt bags, pumps, valves, sandbags, firehoses.	X			
Pushing/Pulling	Moving the siphon pump with a force of 25-35 lb; moving the Trash Pump Cart with a force of 25-55 lb (depending upon the condition of the floor); moving a wheelbarrow (10 cubic feet) filled with wet sludge – force up to 100 lb.		X		
Climbing	Stairs – ascending and descending stairs to access various areas in the waste treatment plant facility. Stairs are located inside and outside of the buildings. Ladders - climbing vertical ladders, step ladders, and extension ladders to access various areas of the facility. Ramps - climbing a ramp to access the secondary area.		X		
Reaching	Adjusting monitors during rounds; turning valves.		X		
Stooping	Accessing various parts and equipment during inspection, repair, and replacement of equipment (i.e., removing and replacing sprinklers in the Roughing Tower), performing trouble-shooting maintenance as needed.			X	
Crouching	Accessing various parts and equipment during inspection, repair, and replacement of equipment (i.e., removing and replacing sprinklers in the Roughing Tower), performing trouble-shooting maintenance as needed.			X	
Kneeling	Crawling to access for inspection and maintenance.		X		
Crawling	Climbing into a pit; accessing areas under the press in the sledge dewatering building. In the daft crawling under the floor.	X			
Hand Usage	Grasping hand tools and powered hand tools, handling equipment when maintaining and repairing various parts of the plant operation.			X	
Balance	Climbing on ladders and stairs outside during wet weather, walking outside on gravel, uneven ground during various weather conditions. Walking on wet material.			X	

**WASTEWATER TREATMENT PLANT OPERATOR-PAPIO WASTEWATER
TREATMENT PLANT
PHYSICAL REQUIREMENTS**

Physical Requirements	EXAMPLES OF RELATED JOB DUTIES	Rarely 1-5%	Occasionally 6-33%	Frequently 34-66%	Continuously 67-100%
Standing	Monitoring proper functions of equipment and machines; working on pump/equipment if plugged; using fire hose; to observe various monitors.		X		
Walking	Monitoring equipment during rounds. Walking surfaces include concrete and outside terrain and during various weather conditions. Rounds may be performed during the day and evening.			X	
Sitting	Reviewing orders on the computer; operating truck/cart; operating riding lawn mower; operating a front end loader.	X			
Lifting	Raising and lowering an object weighing up to 95 lb.	X			
Carrying	Salt bags, pumps, valves, sandbags; firehoses.	X			
Pushing/Pulling	Moving the Thompson pump with a force of 25-35 lb.; moving the Trash Pump Cart with a force of 25-55 lb (depending upon the condition of the floor); moving a wheelbarrow (10 cubic feet) filled with wet sludge – force up to 100 lb.		X		
Climbing	Stairs – ascending and descending stairs to access various areas in the waste treatment plant facility. Stairs are located inside and outside of the buildings. Ladders - climbing vertical ladders, step ladders, and extension ladders to access various areas of the facility. Ramps - climbing a ramp to access the secondary area.		X		
Reaching	Adjusting monitors during rounds; turning valves.		X		
Stooping	Accessing various parts and equipment during inspection, repair, and replacement of equipment (i.e., removing and replacing sprinklers for lawn care), performing trouble-shooting maintenance as needed.			X	
Crouching	Accessing various parts and equipment during inspection, repair and replacement of equipment (i.e. removing and replacing sprinklers for lawn care), performing trouble-shooting maintenance as needed.			X	
Kneeling	Crawling to access for inspection and maintenance.		X		
Crawling	Climbing into a pit; accessing areas under the press in the sledge dewatering building. In the daft crawling under the floor.	X			
Hand Usage	Grasping hand tools and powered hand tools, handling equipment when maintaining and repairing various parts of the plant operation.			X	
Balance	Climbing on ladders and stairs outside during wet weather, walking outside on gravel, uneven ground during various weather conditions. Walking on wet material.			X	