



Office of Human Resources
DIA Stationary Engineer - CJ2734
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General Statement of Duties

Performs full performance journey level work operating, maintaining and repairing large scale boiler systems and chillers (15,000 tons cooling/ 180 Mbtu/h heating) and auxiliary equipment for the 24/7/365 DIA Central Utility Plant and satellite plants.

Distinguishing Characteristics

This class is distinguished from the HVAC Mechanic class that performs full performance skilled trades level work in the maintenance, repair, and installation of a variety of HVAC equipment requiring journey level certification. It is also distinguished from the Building Engineer class that performs full performance level work in the daily operation, maintenance, and repairs for a City facility's plumbing, electrical, HVAC and other building systems.

Level of Supervision Exercised

None

Essential Duties

Operates, maintains and repairs large scale boiler systems and chillers (15,000 tons cooling/ 180 Mbtu/h heating) and auxiliary equipment for the DIA Central Utility Plant and two satellite plants.

Utilizes computers and associated software to operate system controls.

Performs minor troubleshooting, repairs and maintenance on system equipment.

Uses and maintains tools and equipment common to the trade.

Answers calls regarding temperature fluctuations, leaks, smells, noise, etc. and follows up when problem is resolved.

Works with contractors on major repairs or installations as required.

Maintains records and prepares reports; and estimates materials, labor, and equipment costs.

Performs general plant maintenance and repair.

Observes all common safety practices.

Works all shifts including nights, weekends and holidays.

Supports snow removal duties.

By position, may be required to be on-call to address emergent needs.

Performs other related duties as assigned.

Any one position may not include all of the duties listed. However, the allocation of positions will be determined by the amount of time spent in performing the essential duties listed above.

Competencies

Customer Service - Works with customers to assess needs, provides assistance, resolves problems, and satisfy expectations, knows products and services, and is committed to providing quality products and services.

Oral Communication - Expresses information to individuals or groups effectively; taking into account the audience and nature of the information; makes clear and convincing oral presentations; listens to others, attends to nonverbal cues and responds appropriately.

Reading – Understands and interprets written material, including technical materials, rules, regulations, instructions, reports, charts, graphs, or tables; applies what is learned from written material to specific situations.

Technical Competence – Uses knowledge that is acquired through formal training or extensive on-the-job experience to perform one's job; works with, understands, and evaluates technical information related to the job; advises others on technical issues.

Technical Problem Solving – Troubleshoots, diagnoses, analyzes, and identifies systems malfunctions to determine the source and cause of the problem.

Written Communication – Composes, reviews, edits, and issues written materials for diverse audiences and communicates purpose in a succinct and organized manner that is appropriate for context, time, and place.

Knowledge & Skills

Knowledge of engineering concepts, principles, and practices, and of equipment, tools, mechanical devices, and their uses to produce motion, light, power, technology, and other applications.

Knowledge of principles and methods for operating industrial equipment.

Knowledge of materials, methods, and the appropriate tools to construct objects, structures, and buildings.

Knowledge of machines and tools, including their designs, installation, uses, repair, and maintenance.

Knowledge of developing, producing, understanding, and using plans, blueprints, models, and maps, including the use of tools and instruments to produce precision technical drawings.

Education Requirement

Graduation from high school or the possession of a GED, HiSET or TASC Certificate.

Experience Requirement

Four (4) years of experience operating stationary engineering systems or four (4) years of experience operating chiller and boiler plant systems.

Education & Experience Equivalency

Additional appropriate education may be substituted for the minimum experience requirements.

Licensure & Certification

By position, requires a valid Driver's License at the time of application.

By position, requires a valid Commercial Driver's License (CDL "B") with appropriate endorsements by the end of probation.

City & County of Denver Stationary Engineer Certification by the end of probationary period.

Environmental Protection Agency (EPA) CFC Universal Technician Certificate by completion of probationary period.

Licenses and certifications must be kept current as a condition of employment.

Working Environment

Subject to burns and cuts.

Wet: frequent contact with water or other liquid.

Potential exposure to extreme temperature changes.

Potential exposure to hazardous conditions where there is danger to life, body, or health.

Potential exposure to hazards from electro/mechanical/power equipment.

Potential exposure to noise sufficient enough to cause distraction or possible hearing loss.

Subject to injury from moving parts of equipment.

Subject to pressure for multiple calls, inquiries, and interruptions.

Subject to varying and unprecedented situations.

Level of Physical Demand

3-Medium (20-50 lbs.)

Physical Demands

(Physical Demands are a general guide and specific positions will vary based on working conditions, locations, and agency/department needs.):

Field of Vision: ability to adjust vision to bring objects into focus.

Balancing: maintaining body equilibrium to prevent falling over.

Carrying: transporting an object, usually by hand, arm, or shoulder.

Climbing: ascending or descending objects usually with hands/feet.

Color Vision: ability to distinguish and identify different colors.

Crawling: moving about on hands and knees or hands and feet.

Crouching: bending body downward and forward by bending legs.

Depth Perception: ability to judge distances and space relationships.

Vision Far acuity: ability to see clearly at 20 feet or more.

Feeling: perceiving attributes of objects by means of skin receptors.

Field of Vision: ability to see peripherally.

Fingering: picking, pinching, or otherwise working with fingers.

Handling: seizing, holding, grasping, or otherwise working with hands.

Hearing: perceiving the nature of sounds by the ear.

Kneeling: bending legs to come to rest on one or both knees.

Lifting: raising or lowering objects weighing no more than 50 pounds, from one level to another.

Vision Near acuity: ability to see clearly at 20 inches or less.

Pulling: Exerting force upon an object so that it is moving to the person

Pushing: exerting force upon an object so that the object is moving away from the person.

Reaching: extending the hand(s) and arm(s) in any direction.

Repetitive motions: Making frequent movements with a part of the body.

Sitting: remaining in the normal seated position.

Standing: remaining on one's feet in an upright position.

Stooping: bending the body by bending spine at the waist.

Talking: expressing or exchanging ideas by means of spoken words.

Walking: moving about on foot.

Background Check Requirement

Criminal Check
Employment Verification
By position, Motor Vehicle Record

Assessment Requirement

None

Probation Period

Six (6) months.

Class Detail

Pay Grade: J-621
FLSA Code: N
Established Date: 9/21/2018
Established By: LS
Revised Date:
Revised By:
Class History: