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| Position Code |
| 1. PUTENGA |

State of Michigan
Civil Service Commission
Capitol Commons Center, P.O. Box 30002
Lansing, MI 48909
POSITION DESCRIPTION

This position description serves as the official classification document of record for this position. Please complete this form as accurately as you can as the position description is used to determine the proper classification of the position.

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|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| 2. Employee's Name (Last, First, M.I.) | 8. Department/Agency |
| | Licensing & Regulatory Affairs |
| 3. Employee Identification Number | 9. Bureau (Institution, Board, or Commission) |
| | Public Service Commission |
| 4. Civil Service Position Code Description | 10. Division |
| Public Utilities Engineer 12 | Gas Safety & Operations |
| 5. Working Title (What the agency calls the position) | 11. Section |
| Gas Safety Engineer | |
| 6. Name and Position Code Description of Direct Supervisor | 12. Unit |
| , State Administrative Manager 15 | |
| 7. Name and Position Code Description of Second Level Supervisor | 13. Work Location (City and Address)/Hours of Work |
| David Chislea, State Division Administrator | Various*-Home Office/7109 W. Saginaw Hwy, Lansing, MI 48917 8 am – 5 pm, M-F, (24 hr/7 day on call) |

14. General Summary of Function/Purpose of Position

*With regards to work location, after an initial probationary period this position has the potential to be assigned to a remote office or home work station in various regions of the State. The specific location of a remote office or home work station will be dependent on the business needs of the agency.

As a gas safety engineer at the senior level, provides enforcement of the Michigan Gas Safety Standards, minimum federal pipeline safety regulations, and various orders and directives to ensure the protection and safety of persons and property in the State of Michigan with regards to gas pipeline safety. Performs reviews of pipeline operators to ensure compliance with their own design, construction, operation, maintenance, and emergency procedures. Also responsible for receiving notification of gas-related pipeline accidents and failures at all times of the day, responding on-site when necessary to facilitate investigations, and preparing technical reports for recommendations to prevent recurrence. As a senior level gas safety engineer, provides the Commission with technical assistance and support in the preparation of data and information related to gas pipeline safety; serves as a designated task force or special project leader on in-house gas operations' projects or industry committees; serves as the lead investigator on special field assignments; and testifies as an expert witness in contested proceedings related to gas pipeline safety.

15. Please describe the assigned duties, percent of time spent performing each duty, and what is done to complete each duty.

List the duties from most important to least important. The total percentage of all duties performed must equal 100 percent.

Duty 1

General Summary of Duty 1 **% of Time 85**

Serve as the Gas Safety Engineer responsible for a portion of the state and as a lead inspector for team inspections or special assignments. At all times, the safety engineer is representing the Commission and must be politically astute and sensitive to current issues.

Individual tasks related to the duty.

- Conduct field inspections of design, construction, operations, and maintenance of jurisdictional distribution, transmission, storage, and gathering facilities. This includes acting as a lead inspector in team inspections and other special or complex field assignments.
- Investigate and evaluate gas-related explosions, accidents, and failures to determine probable cause, compliance with standards, and recommend ways to prevent possible recurrence, including serving as the lead investigator in complex and significant incidents or investigations.
- Conduct audits of files and records to monitor and ensure pipeline company operations are within the limits of applicable standards and regulations.
- Represent the U.S. Department of Transportation's Pipeline and Hazardous Materials Safety Administration in Michigan as their agent representative, in regard to inspection and/or enforcement of minimum federal pipeline safety regulations for jurisdictional intrastate and interstate operators.
- Review and evaluate all company operation and maintenance plans, which are required to be filed with the Commission. Additionally, make recommendations for changes to these standards where required.
- Review specifications for design, construction, and testing of pipelines constructed in Michigan for compliance with the pipeline safety regulations. This includes acting as a lead inspector on major pipeline, storage field, or facility construction projects.
- Continued under Duty 4.

Duty 2

General Summary of Duty 2 **% of Time 10**

Provide 24-hour, seven days a week, emergency response to gas-related emergencies, explosions, and other incidents which require protection of the general public and begin investigation into probable cause and contributing factors.

Individual tasks related to the duty.

- Be available to receive after-hours incident reports from operators.
- Be prepared to travel, as required and often immediately, to an incident site to conduct an investigation. Collect evidence and conduct interviews as needed to assist in determining cause.
- Provide technical expertise to all involved authorities in a state of emergency, including the determination of hazards to persons or property, corrective actions to be taken, assistance to law enforcement and other officials, procedures for clearing an area of gas, and determination of safe occupancy in the case of evacuations.
- Communicate to specific internal recipients details of the events.

Duty 3

General Summary of Duty 3

% of Time 5 _____

Other duties as assigned.

Individual tasks related to the duty.

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Duty 4

General Summary of Duty 4

% of Time _____

Continued from Duty 1.

Individual tasks related to the duty.

- Confer with gas company executives, engineers, and Staff to facilitate resolution of non-compliance violations and to prevent recurrence.
- Interpret provisions of the Michigan Gas Safety Standards to pipeline operators as non-compliance issues are identified. Prepare internal reports, recommendations, and correspondence to pipeline operators regarding findings.
- Participate in audits of transmission integrity management programs, public awareness plans, distribution integrity management plans, control room management procedures, and gathering line determinations using the applicable industry standards.
- Participate in recommendations for revisions and additions to the Michigan Gas Safety Standards and provide input for evaluation of new technology developed in the gas industry for Staff acceptance.
- Prepare related technical or engineering studies, letters, procedures, or other documents as requested by the Section Manager.
- Develop factual data for and to brief the Commissioners in areas of technical expertise to assist in their knowledge of applicable issues related to gas pipeline safety.
- Analyze and critique testimony and exhibits of expert witnesses in matters related to gas pipeline safety, assist with preparation of Staff positions, and act as key witness in cases related to gas pipeline safety.
- Serve as a designated task force or special project leader on in-house gas operations' projects or industry committees or as the lead worker on special field assignments.

Duty 5

General Summary of Duty 5

% of Time _____

Individual tasks related to the duty.

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Duty 6

General Summary of Duty 6

% of Time _____

Individual tasks related to the duty.

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16. Describe the types of decisions made independently in this position and tell who or what is affected by those decisions.

The individual in this position works independently in the field and is solely responsible for all initial decisions regarding inspections and incident investigations. For inspections, this would include: scheduling and conducting inspections with the company representatives, determining violations of the regulations, reviewing violations and corrective actions with the pipeline operator representatives, following up on corrective actions, and determining if corrective actions are sufficient to place the company in compliance with the Gas Safety Standards. During incident investigations, the individual in this position is the sole representative of the MPSC and must make all initial decisions regarding the investigation. For incidents, such decisions can be complex in nature and are critical for identifying the root cause and ensuring a factual, unbiased investigation by the pipeline operator is conducted.

17. Describe the types of decisions that require the supervisor’s review.

Many of the decisions will be reviewed by the Manager afterward, usually weeks or months later. Notices of probable violation of the Michigan Gas Safety Standards and incident reports issued to operators are reviewed by the Manager, and in the case of penalty recommendations, are reviewed by the Manager and the Division Director.

18. What kind of physical effort is used to perform this job? What environmental conditions is this position physically exposed to on the job? Indicate the amount of time and intensity of each activity and condition. Refer to instructions.

Travel to field inspections and audits is frequently required and often overnight trips. The individual on this job is exposed to all facets of the business of the gathering, transmission, storage, and distribution of gas. This includes: construction inspections requiring the inspector to visit active construction sites, which can be in remote areas and require the traversing of difficult terrain; incident investigations, which may expose the inspector to blowing or burning gas or facility/building debris; vault inspections, which may require entry by the individual into a confined space; and inspections of compressor stations and other high pressure gas transmission sites, which exposes the inspector to high-pressure gas piping and excessive noise requiring hearing protection.

19. List the names and position code descriptions of each classified employee whom this position immediately supervises or oversees on a full-time, on-going basis. (If more than 10, list only classification titles and the number of employees in each classification.)

| <u>NAME</u> | <u>CLASS TITLE</u> | <u>NAME</u> | <u>CLASS TITLE</u> |
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20. This position’s responsibilities for the above-listed employees includes the following (check as many as apply):

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|-------------------------------------------------------------|------------------------------------------------------------|
| <input type="checkbox"/> Complete and sign service ratings. | <input type="checkbox"/> Assign work. |
| <input type="checkbox"/> Provide formal written counseling. | <input type="checkbox"/> Approve work. |
| <input type="checkbox"/> Approve leave requests. | <input type="checkbox"/> Review work. |
| <input type="checkbox"/> Approve time and attendance. | <input type="checkbox"/> Provide guidance on work methods. |
| <input type="checkbox"/> Orally reprimand. | <input type="checkbox"/> Train employees in the work. |

22. Do you agree with the responses for Items 1 through 20? If not, which items do you disagree with and why?

Yes.

23. What are the essential functions of this position?

See number 15, duty 1.

24. Indicate specifically how the position's duties and responsibilities have changed since the position was last reviewed.

Updated for backfill.

25. What is the function of the work area and how does this position fit into that function?

The Gas Safety & Operations Division provides support to the Commission for a wide-range of activities involving engineering issues in the production, gathering, transmission, storage, safety, and distribution of gas. The gas safety function of this division is to enforce the Michigan Gas Safety Standards and thereby ensure that operators of gas gathering, transmission, storage, and distribution systems construct and operate their systems in a manner that does not endanger the safety of the people of Michigan. The individual in this position is the field inspector which actually visits operator sites and determines compliance with the pipeline safety regulations.

26. What are the minimum education and experience qualifications needed to perform the essential functions of this position?

EDUCATION:

Possession of a bachelor of science degree with a major in engineering.

EXPERIENCE:

Three years of professional experience in public utilities engineering involving the analysis of utility rate structures and /or operations and safety standards and practices equivalent to a Public Utilities Engineer, including one year equivalent to a Public Utilities Engineer 11.

AND

Certificate of successful completion of the following courses administered by United States Department of Transportation's Pipeline and Hazardous Materials Safety Administration: PHMSA-PL1250, PHMSA-PL1255, PHMSA-PL1310, PHMSA-PL3242, PHMSA-PL3256, PHMSA-PL3293, and PHMSA-PL3257.

OR

Five years of an equivalent type of professional engineering experience. Relevant engineering experience varies by position and may include: gas or liquid pipeline/facility or reservoir/storage engineering, risk management, operations and maintenance, damage prevention and public awareness, enforcement, construction, inspection, oversight of such functions, or other related job functions in the associated industry.

KNOWLEDGE, SKILLS, AND ABILITIES:

Ability to deal effectively with emergencies; maintain control in the face of physical hazards; deal with the public on controversial issues; maintain records, data, and reports; read and interpret engineering plans and specifications; set work priorities. Excellent written and oral communication skills. Strong computer skills using Microsoft Word and Excel. Educational or experience exposure to legal principles. Knowledge of the practices and principles of gas utility engineering. Knowledge of the Michigan Gas Safety Standards, knowledge of the federal pipeline safety regulations, and an understanding of the engineering principles regarding the construction and operation of gas pipeline systems.

CERTIFICATES, LICENSES, REGISTRATIONS:

Professional engineering registration preferred, but not required.

Valid Michigan driver's license is required.

NOTE: Civil Service approval of this position does not constitute agreement with or acceptance of the desirable qualifications for this position.

I certify that the information presented in this position description provides a complete and accurate depiction of the duties and responsibilities assigned to this position.

Supervisor's Signature

Date

TO BE FILLED OUT BY APPOINTING AUTHORITY

Indicate any exceptions or additions to statements of the employee(s) or supervisors.

I certify that the entries on these pages are accurate and complete.

Appointing Authority Signature

Date

TO BE FILLED OUT BY EMPLOYEE

I certify that the information presented in this position description provides a complete and accurate depiction of the duties and responsibilities assigned to this position.

Employee's Signature

Date

NOTE: Make a copy of this form for your records.