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.

<table>
<thead>
<tr>
<th>2. Employee's Name (Last, First, M.I.)</th>
<th>8. Department/Agency</th>
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<tbody>
<tr>
<td></td>
<td>Licensing &amp; Regulatory Affairs</td>
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<thead>
<tr>
<th>3. Employee Identification Number</th>
<th>9. Bureau (Institution, Board, or Commission)</th>
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<tbody>
<tr>
<td></td>
<td>Michigan Public Service Commission</td>
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<thead>
<tr>
<th>4. Civil Service Position Code Description</th>
<th>10. Division</th>
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<tbody>
<tr>
<td>Public Utilities Engineer 12</td>
<td>Gas Safety &amp; Operations</td>
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<thead>
<tr>
<th>5. Working Title (What the agency calls the position)</th>
<th>11. Section</th>
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<tbody>
<tr>
<td>Damage Prevention Engineer</td>
<td>Damage Prevention</td>
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<tbody>
<tr>
<td>Eleanor Mundorf, State Administrative Manager 15</td>
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<table>
<thead>
<tr>
<th>7. Name and Position Code Description of Second Level Supervisor</th>
<th>13. Work Location (City and Address)/Hours of Work</th>
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</thead>
<tbody>
<tr>
<td>David Chislea, State Division Administrator 17</td>
<td>Various*/7109 W. Saginaw, Lansing, MI, 8 am – 5 pm, Mon-Fri (plus 24 hr./7 day on call)</td>
</tr>
</tbody>
</table>

**14. General Summary of Function/Purpose of Position**

*With regards to work location, after an initial probationary period in the Lansing (7109 W. Saginaw Hwy, Lansing, MI), 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 damage prevention engineer at the senior level, independently provides enforcement of the Michigan MISS DIG Underground Facility Damage Prevention and Safety Act (PA 174), the Michigan Gas Safety Standards, the 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 in the areas of underground facility damage prevention and 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, failures, and damage-related incidents 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 damage prevention engineer, provides the Commission with technical assistance and support in the preparation of data and information related to damage prevention and 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 pipeline safety or damage prevention.
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.

<table>
<thead>
<tr>
<th>Duty 1</th>
<th>General Summary of Duty 1</th>
<th>% of Time 65</th>
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<tbody>
<tr>
<td>Serve as a Damage Prevention Engineer responsible for PA 174 complaints; lead inspector damage prevention investigations; a lead inspector for team inspections or special assignments; and for damage data collection and compilation. At all times, the damage prevention engineer is representing the Commission and must be politically astute and sensitive to current issues.</td>
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**Individual tasks related to the duty.**
- Develop, coordinate, and present Staff positions with regard to PA 174 complaints and damage-related incident cases.
- Investigate and evaluate damages to underground pipelines and utilities 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.
- Independently work with Commission Staff on potentially controversial contested cases.
- Representing the Commission Staff, confer with gas or other utility company executives, engineers, excavators, and other involved parties regarding damage complaints, violations, and penalties while facilitating resolution and settlement of cases.
- Independently review and interpret Commission rules and regulations, policies, past Commission orders, other state agency rules and regulations, and other applicable ordinances.
- Perform other research, tasks, engineering reports, and procedures as necessary in carrying out the goals of the Unit, Section, and Division.
- Prepare related technical or engineering studies, letters, procedures, or other documents as requested by the Section Manager.

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<tr>
<th>Duty 2</th>
<th>General Summary of Duty 2</th>
<th>% of Time 10</th>
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<tr>
<td>Provide 24-hour, seven days a week, emergency response to damage prevention and gas-related emergencies, explosions, and other incidents which require protection of the general public and begin investigation into probable cause and contributing factors.</td>
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**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 **10**
Assist Gas Safety Engineers with damage-related cases and pipeline safety responsibilities including serving as a lead inspector for standard inspections, 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.
- Confer with gas company executives, engineers, and Staff to facilitate resolution of non-compliance violations and to prevent recurrence.
- Continued under Duty 6.

Duty 4

General Summary of Duty 4  % of Time **10**
Assist Section Manager and Section Staff in coordinating MPSC efforts to obtain grant awards supporting damage prevention activities in Michigan including the annual State Damage Prevention Grant and the annual One Call Grant.

Individual tasks related to the duty.
- Independently prepare applications and reports related to the annual State Damage Prevention Grant awarded by Department of Transportation to assist with compliance of PA 174 of 2013.
- Independently monitor the progress of MISS DIG and any other entities having contractual agreements with the MPSC to implement the requirements in the State Damage Prevention Grant related to effective communication, operator internal performance measurement, effective employee training, public education, and other activities supported by the Grant.
- Independently prepare applications and all reports related to the annual State One Call Grant awarded by PHMSA to assist with funding personnel for compliance of PA 174 of 2013.
- Independently work with federal auditors and coordinate all audit responses to PHMSA related to the State Damage Prevention Grant and the One Call Grant.
### Duty 5

**General Summary of Duty 5**  
% of Time 5 
Other duties as assigned.

**Individual tasks related to the duty.**

- 

### Duty 6

**General Summary of Duty 6**  
% of Time 
Continued from Duty 3.

**Individual tasks related to the duty.**

- 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 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.
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 excavator or pipeline operator representatives, following up on corrective actions, and determining if corrective actions are sufficient to place the company in compliance with the MISS DIG Underground Facility Damage Prevention and Safety Act and 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 excavator and pipeline operator are 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 MISS DIG Underground Facility Damage Prevention and Safety Act, Michigan Gas Safety Standards, and incident reports issued to operators are reviewed by the Section Manager, and in the case of penalty recommendations, are reviewed by the Section 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, investigations, and audits is frequently required and involves 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.)

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20. This position’s responsibilities for the above-listed employees includes the following (check as many as apply):

- [ ] Complete and sign service ratings.
- [ ] Assign work.
- [ ] Provide formal written counseling.
- [ ] Approve work.
- [ ] Approve leave requests.
- [ ] Review work.
- [ ] Approve time and attendance.
- [ ] Provide guidance on work methods.
- [ ] Orally reprimand.
- [ ] 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 duties listed previously.

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 Operations Section 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 damage prevention function of this Section is to enforce the MISS DIG Underground Facility Damage Prevention and Safety Act and Michigan Gas Safety Standards and thereby ensure that pipeline operators, utilities, and anyone involved in underground excavation work operates 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 and the MISS DIG Underground Facility Damage Prevention and Safety Act.
26. What are the minimum education and experience qualifications needed to perform the essential functions of this position?

**EDUCATION:**

Possession of a BS degree with a major in engineering.

**EXPERIENCE:**

Public Utilities Engineer-E 9

No specific type or amount is required.

Public Utilities Engineer-E 10

One year 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 9.

OR

Three 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.

Public Utilities Engineer-E P11

Two 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 10.

OR

Four 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.

Public Utilities Engineer-A 12

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 MISS DIG Underground Facility Damage Prevention and Safety Act, Michigan Gas Safety Standards, 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.

<table>
<thead>
<tr>
<th>Supervisor’s Signature</th>
<th>Date</th>
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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.

<table>
<thead>
<tr>
<th>Appointing Authority Signature</th>
<th>Date</th>
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</table>

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.

<table>
<thead>
<tr>
<th>Employee’s Signature</th>
<th>Date</th>
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NOTE: Make a copy of this form for your records.