



Classification: Electric Generation System Specialist I	Position No. 3300-4841-xxx
CBID: R09	Office: Energy Systems Research Office
Date Prepared: November 2017	Division: Energy Research and Development
KEY: (E) IS ESSENTIAL, (M) IS MARGINAL	

Under the direction and supervision of the Energy Resources Specialist III (Supervisor), the Electric Generation System Specialist I (EGSS I) serves as part of interdisciplinary and/or interdivisional teams to plan and implement research, development, and demonstration (RD&D) projects that will improve the safety and integrity of the natural gas infrastructure, which provides the fuel for electricity generation. The goal of the Energy Research and Development Division is to conduct research, development and demonstration to advance science and technologies not adequately addressed by the regulated and competitive markets.

The incumbent will address research issues affecting the design, operation, and safety of the natural gas infrastructure including distribution and transmission pipelines and storage systems. The incumbent will also assess the ability of new and emerging technologies and tools used to help improve the safety and integrity of the natural gas infrastructure. Further, the incumbent will review risk assessment and management tools, and other infrastructure data to assess impacts to the natural gas infrastructure which may cause disruptions to electricity generation systems.

WORKING CONDITIONS. Work is performed primarily in an office, conference room, and hearing room environment and may require standing and walking as well as sitting for long periods of time. Work area is well lighted and ventilation is adequate. The noise level may often be high. Some travel is required to attend off-site meetings. Additional hours beyond an eight-hour workday or forty-hour workweek may be required. While performing the duties described below, the incumbent will be required to work alone and/or in a team environment, utilizing a personal computer and appropriate Commission software such as word processing, electronic mail, Internet and analytical models; participate in meetings with other staff and other agencies.

DUTIES AND RESPONSIBILITIES:

- 50% Lead complex research efforts to analyze and evaluate technologies and tools that improve the safety and integrity of California's natural gas infrastructure. Provide oversight and expert feedback on natural gas safety and integrity program research topics such as pipeline integrity detection systems, right of way encroachment systems, high accuracy mapping systems, GPS excavating encroachment systems, training needs, etc. Lead outreach to stay informed on California and national research efforts to improve the safety and integrity of the natural gas infrastructure and potential impacts to electricity generation systems. (E)
- 25% Reviews proposals to determine how well the research project addresses the scope of the solicitation criteria, including, but not limited to, the extent the project will advance science or technology; addresses market issues and needs; meets specified target goals



and objectives; assesses the skill and experience of the project team to carry out the technical tasks within budget and schedule, and move the results into the marketplace; and, assess the adequacy of the project funding. The incumbent will also prepare written determinations of evaluations for use by technical scoring committees. The incumbent may brief the Office, Division, Commission management and/or Commissioners on the status of the projects. (E)

- 10% Research Results Dissemination and Communication. The incumbent oversees the completion of complex project reports, fact sheets, and other documents to disseminate research results and lessons learned to Energy Commission staff and others with a focus on transferring information that provides significant public benefits to California and meets the state's energy policies and goals. Coordinate natural gas infrastructure research activities particularly to identify opportunities to highlight successes and benefits in project and annual reports; communicate with key stakeholders (e.g., CPUC, Pipeline and Hazardous Materials Safety Administration, utilities, etc.) to be informed on current issues and to ensure research is relevant and adds value to California's natural gas program; work with the management team to develop a strategy to showcase the Natural Gas Infrastructure Safety and Integrity Program through public workshops, media events and print material. (E)
- 5% Reviews and edits reports, resource plans, contracts and other documents associated with work within the division. Establish and maintain project priorities, perform project evaluations, develop the work plans and budgets necessary to meet program and project goals. (E)
- 5% Consult with and advise the Energy Resource Specialist III (Supervisory), Energy Resource Specialist III (Managerial), Team Lead, Division management and Commissioners on a variety of natural gas infrastructure needs related to pipelines (distribution/transmission) and storage systems that provide the fuel needed for electricity generation. Participate in identification of issues and analytic methodologies. (E)
- 5% Perform other duties as required consistent with the specifications of this classification. (M)

SIGNATURES	
I Certify That I Am Able To Perform, With Or Without The Assistance Of A Reasonable Accommodation, The Essential Job Duties Of This Position	
<div style="border-top: 1px solid black; margin-bottom: 5px;"> Incumbent Date </div> <div style="clear: both;"> Electricity Generation System Specialist I </div>	<div style="border-top: 1px solid black; margin-bottom: 5px;"> Supervisor Date </div> <div style="clear: both;"> Energy Resource Specialist III (Supervisory) </div>