Please respond to the following data requests in regard to the 2016 SDG&E rate case:

***The following questions are in regard to SDG&E’s Enterprise Risk Management (ERM) program as described in the testimony of Diana Day:***

1. Please describe ERM methods and tools currently used to quantify wildfire risk.
2. Please also describe how the results from the ERM tools and methods were used to influence decision making in the 2016 GRC filing. Specifically describe how these relate to the overall funding being requested for wildfire safety improvements.
3. What ERM tools are in place, in development, or being purchased?
4. What is the current staffing level of the ERM program?
5. Does an asset failure probability database exist or is it currently in development?
6. Are third-party ERM consultants currently employed by SDG&E? If so are they associated with a consulting company or are they independent contractors? If they are employed by an ERM consultancy firm or firms, which firms are they associated with?
7. Has input from third-party consultants been used to develop SDG&E’s current ERM roadmap?

***The following questions are related to the testimony of David Geier and the organizations within SDG&E responsible for proposing and ranking SDG&E safety projects and programs.***

1. Regarding the RIRAT program (Reliability Improvements for Rural Areas Team) Does the RIRAT program still exist as an independent entity or have its functions been subsumed into other programs? If the latter, which functions have been transferred to which other programs?
2. What is the difference in scope and responsibilities between the RIRAT program and the FiRM (Fire Risk Mitigation) programs?
3. When was RIRAT incorporated into FiRM?
4. How does RIRAT evaluate aging equipment? What criteria and methodology does it use to determine the relationship between component age and fire risk?
5. How will FiRM determine which line elements have a heightened probability of failure? Has this analysis already taken place?
6. What new systems and technologies have been introduced as RIRAT initiatives, or are currently under evaluation or in the process of being introduced?
7. How does the process for risk identification, evaluation, prioritization, planning and mitigation change from what it was under RIRAT to the new FiRM program? The answer should include differences in group responsibilities and approvals.

***The following questions have to do with the SDG&E fire camera system, as described by David Geier:***

1. How many fire detection cameras does SDG&E currently have deployed, and when were these deployed?
2. Where are these cameras located?
3. Please provide data and analysis indicating the efficacy of this program, including but not limited to:  
   - Fires first detected by the cameras  
   - Fires detected by the cameras after already being identified by other means  
   - Fires not detected by the camera software that were in visual range of the cameras  
   - Alerts received from the camera software that were false alarms
4. What is the area visually covered by the SDG&E camera network, and how does this compare to the area of its Fire Hazard Zone?

***The following questions are in regard to how SDG&E has determined its overall safety funding request as described in the testimony of David Geier:***

1. What criteria and methodologies were used to obtain the current requested amounts for wildfire risk reduction, both in absolute terms and in terms of the relative fraction of overall spending?
2. Why is the amount requested considered to be optimal?
3. How would a 20% smaller request affect wildfire safety? Please provide quantitative and qualitative estimates.
4. How would a 20% larger allocation than requested for wildfire safety spending be expected to affect system safety? Please provide quantitative and qualitative estimates.
5. How will estimations of wildfire safety risk change with the introduction of ERM?

***The following questions relate to the testimony of John D. Jenkins regarding transmission and distribution safety programs***

1. Please describe how the fire safety improvement projects currently under consideration were originated. What was the process by which they were proposed, and evaluated by the committees and programs described in SDG&E testimony, including RIRAT, FiRM, Fire Preparedness Team, Fire Preparedness Director Steering Committee, Executive Risk Management Committee, and the Electric Transmission and Distribution Capital Committee.
2. SDG&E currently maintains a “matrix of available projects” which collects various input factors related to fire risk. (JDJ-8). Please provide this matrix, including projects that are currently requested for funding as well as those which may still be pending.
3. Describe the methodology that is used to rank overall risk for the projects in the “matrix of available projects”
4. Describe how costs considerations were included in the determination of which projects in the “matrix of available projects” are selected for included in the GRC, both generally and specifically for those projects that have been included.
5. Describe the statistical analysis that is used to identify high risk equipment (JDJ-8).

***The following questions relate to SDG&E’s wood-to-steel transmission line replacement projects.***

1. What is the current length of transmission line in SDG&E’s network that lies within the Fire Threat Zone?
2. What fraction of the current transmission network within the Fire Threat Zone has already been addressed by the SDG&E wood-to-steel replacement projects?
3. What is the length of distribution line currently within the SDG&E Fire Threat Zone?
4. What fraction of SDG&E’s distribution network has been hardened or replaced since the inception of RIRAT in 2010?
5. The specific projects described in SDG&E’s testimony are transmission line improvements that replace wood poles with steel poles. Please describe what projects or programs will address distribution line fire risks in the 2016 GRC, and what is the estimate of the distribution line length that will be hardened or replaced?
6. Please provide outage and/or wire-down data that compare transmission segments with wooden poles and steel poles under equivalent weather conditions. Does data exist that demonstrate significant reliability or safety improvements from the wood-to-steel program?