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As I continue gaining experience through my internship with Dominion Energy, my role has begun to evolve from primarily learning through observation to gaining a deeper understanding of the technical processes that support reliable systems within the organization. Over the past several weeks, I have had the opportunity to expand my exposure to Software Quality Assurance (SQA) practices and the role they play in maintaining the accuracy, stability, and security of internal systems. This experience has helped me better understand how organizations ensure that the tools and technologies employees rely on function correctly and consistently.

One of the most valuable aspects of this stage of my internship has been learning how software and data systems are tested and validated before being fully implemented or modified within the company. Software quality assurance focuses on verifying that systems operate as intended, that calculations and processes produce correct results, and that updates do not introduce unexpected errors. Through conversations with team members and observing their workflow, I have been able to see how careful testing and

verification essential steps before any system changes are finalized. This includes reviewing output generated by systems and ensuring that reporting tools remain accurate after updates or adjustments are made.

Learning about these processes has highlighted how important reliability is in large organizations such as Dominion Energy. Many teams rely on digital systems and reporting tools to make operational decisions, so even small errors in calculations or data handling can have broader consequences. Software quality assurance helps reduce these risks by ensuring that systems are reviewed and tested in controlled environments before being relied upon in everyday operations. This structured approach emphasizes accuracy, repeatability, and documentation, which are all essential for maintaining trust in the technology used throughout the organization. I'm currently back-up for the quality assurance for two software's. Being that I don't have the required certifications, my primary tasks for the moment are to alert everyone who's using the software if the software is down for maintenance, having an update, or that the software is retiring.