**STF-DEA-2-36**

Question:

Please refer to p. 146 of the “2024 GA ITS Ten-Year Plan,” within the “2025 IRP Volume 3 TRADE SECRET,” regarding the Arkwright - Lloyd Shoals 115kV Rebuild and respond to the following questions:

1. What are the main drivers for rebuilding the Arkwright - Lloyd Shoals 115kV line, and how does it improve grid reliability?
2. What are the projected capacity increases post-rebuild?
3. Will this project enable higher renewable penetration, particularly for distributed solar?
4. What are the estimated O&M cost savings post-upgrade?

Response:

1. The Arkwright – Lloyd Shoals 115 kV line project supports replacement of aging assets and addresses thermal constraints under NERC Reliability TPL-001-5 Compliance Standard. Additionally, this project was included in the following Ten-Year Plans:

|  |  |
| --- | --- |
| **Ten Year Plan Document** | **Project Need Date** |
| 2021 GA ITS TYP – included in 2022 IRP (Docket 44160) | 2024 |
| 2022 GA ITS TYP (Docket 44160) | 2024 |
| 2022 GA ITS TYP Appendix D Fleet Transition (Docket 44160) | 2024 |
| 2023 GA ITS TYP (Docket 44160) | 2024 |
| 2023 GA ITS TYP Appendix D Fleet Transition (Docket 44160) | 2024 |
| 2024 GA ITS TYP (Docket 56002) | 2027 |
| 2024 GA ITS TYP Appendix D Fleet Transition (Docket 56002) | 2027 |

1. This project increases the line capacity from **REDACTED** to **REDACTED** (Summer B rating).
2. The Arkwright – Lloyd Shoals 115kV Line Rebuild will increase the capacity of the line facilitating load growth in the area and utility-scale renewables interconnections.
3. The Company has not performed this analysis.