**STF-DEA-2-7**

Question:

Please refer to p. 5 of the “2024 GA ITS Ten-Year Plan” within “2025 IRP Volume 3 PUBLIC DISCLOSURE,” p.5, Table 1 regarding “New Transmission Lines Requiring New Right of Way.”

a. For the Total 10 Years, how many miles of 500kV New Transmission Lines Requiring New Right of Way will be built in total and how many of those miles will be built using advanced conductors?

b. For the Total 10 Years, how many miles of 230kV New Transmission Lines Requiring New Right of Way will be built in total and how many of those miles will be built using advanced conductors?

c. For the Total 10 Years, how many miles of 115kV New Transmission Lines Requiring New Right of Way will be built in total and how many of those miles will be built using advanced conductors?

Response:

1. For the Total 10 Years, approximately 543 miles of 500kV New Transmission Lines Requiring New Right of Way will be built. 500kV New Transmission Lines will not be built using advanced conductors, as it is more cost-effective to use standard conductors for new structures and to gain more capacity from the conductor. Advanced conductors are more applicable when the Company is reconductoring an existing line to avoid the need to replace structures or make extensive modifications to the existing lines due to their lighter conductor weight and ability to allow high current carrying capacity because they can operate at higher temperatures than traditional conductors. However, advanced conductors are not cost advantageous when building new lines due to that higher cost.
2. For the Total 10 Years, approximately 169 miles of 530 total miles of 230kV New Transmission Lines Requiring New Right of Way will be built using advanced conductors. Refer to the Company’s response to subpart (a).
3. For the Total 10 Years, approximately 46 miles of 69 total miles of 115kV New Transmission Lines Requiring New Right of Way will be built using advanced conductors. Refer to the Company’s response to subpart (a).