

2.6.5 Determination and evaluation of cost / benefit of potential RTEP projects specifically targeted for economic efficiency

PJM will perform market simulations and produce cost / benefit analysis of projects specifically targeted for economic efficiency. The net present value of annual benefits will be calculated for the ~~first~~ 15 year ~~period starting with the RTEP year defined as current year plus 5 minus benefits for years where the project is not yet in service. The net present value of annual benefits will be s-of upgrade life and~~ compared to the net present value of the upgrade revenue requirement for the same ~~15-year~~ period.

An initial set of simulations will be conducted for each of four years for the current 24-month cycle (current year plus 1, current year plus 5, current year plus 8 and current year plus 11) using the as planned transmission network topology ~~and the as planned generation expansion~~ as defined by the most recent RTEP. A second set of simulations will be conducted for each of the four years using the as planned transmission network topology plus the upgrade being studied. The upgrade will be included in each of the four simulation years regardless of the actual anticipated in-service date of the upgrade. A comparison of these simulations will identify the benefit of the upgrade in each of the four years analyzed. ~~The simulated benefits will provide a forecast of annual upgrade benefits for each of the anticipated first 15 years beginning from the RTEP year.~~ Annual benefits within the 10-year time frame for years which were not simulated would be interpolated using these simulation results. A forecast of annual benefits for years beyond the 10-year simulation time frame would be based on an extrapolation of the market simulation results from the studied years. A higher-level annual market simulation will be made for future year 15 to validate the extrapolation results and the extrapolation of annual benefits for years beyond the 10-year simulation time frame may be adjusted accordingly. This high level simulation of future year 15 may require a less detailed model of the transmission system below the 500 kV level.

~~The interpolation and An~~ extrapolation of the simulation results will provide a forecast of annual upgrade benefits for each of the anticipated first 15 years ~~-of upgrade life,-beginning from the projects anticipated inservice date the RTEP year defined as current year plus 5.-~~ The present value of annual benefits projected for the ~~first~~ 15 years ~~s-period starting with the RTEP year of upgrade life~~ will be compared to the present value of the upgrade revenue requirement for the same ~~15-year~~ period to determine if the upgrade is cost beneficial and recommended for inclusion in the PJM RTEP. ~~For years where the project is not yet in service the revenue requirement will be zero and annual benefits will be included with a negative sign to reflect loss of benefits to PJM.~~ If the ratio of the present value of benefits to the present value of costs exceeds 1.25 then the upgrade is recommended for inclusion in the RTEP.

When the economic efficiency project evaluations have been completed, PJM will schedule a TEAC meeting, as appropriate, to review the results. The timing of this meeting may depend on the amount and complexity of analysis that must be performed. At this meeting PJM will provide a summary of the analysis results, including an update of the Market Efficiency analysis.