

Project Purpose & Need

TVA's 2019 Integrated Resource Plan (IRP) acknowledged continued operational challenges for the aging coal fleet and included a recommendation to conduct end-of-life evaluations on TVA's remaining coal plants.

TVA's recent evaluations confirm that the aging coal fleet is among the oldest in the nation and is experiencing deterioration of material condition and performance challenges.

Additionally, pulverized coal-fired steam-generating units have experienced intensive cycling, reflected in start-up/shutdown events averaging greater than 85 times per year, which is outside the intended design basis of the plant. Additionally, KIF has been dealing with significant material condition issues over the last five years. Lower boiler drum repairs at KIF are symptomatic of age-driven material condition failures that are difficult to proactively address.

Based on these evaluations, TVA has developed planning assumptions for KIF retirement. TVA proposes to retire three KIF unit as early as 2026, but no later than 2031, and the remaining six units as early as 2027, but no later than 2033, dependent on when replacement generation could be constructed and brought online.

