Grayson Commissioning Variance

June 16, 2026

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Glendale Water & Power

City of Glendale

- Population: ~200,000 residents
- Low-Income / Disadvantage Community:
  - ~12,000 residents (~6%)
- Public Healthcare Facilities:
  - 3 Hospitals
  - 9 Fire Stations
  - Police Station
  - Water Supply
  - Waste Water Management
  - 8 Branch Libraries (many double as cooling centers)

Glendale Water & Power (GWP)

- Municipal utility (POU ≠ IOU)*
  - 350 MW peak load (in 2024, forecasted to reach in 2030)
  - “Load Pocket” within LADWP BAA
  - Significantly limited internal resources
  - Internal dispatchable generation essential for Reliability
- Grayson Repower Project
  - **DEMOLISHED 219 MW** of old thermal generation
  - ***ADDS 75 MW / 300 MWh*** Batteries
  - ***ADDS 56 MW*** Thermal Generation (3 Engines @ 18.6MW)
- Community-Driven Commitment to Decarbonization
  - City-Owned Solar Projects
  - Aggressive Energy Efficiency Programs (Commercial and Residential including Low-income)
  - Codified Electrification Transition: INCREASING LOAD

Why GWP is Requesting this Variance

- Wartsila's and their subcontractor prepared and submitted the Air Permit application to SCAQMD
- Expectation for the Air Permit was always to have all engines functional before the Summer of 2026
- Critical to summer energy reliability
- Expect significantly higher temperatures/loads compared to last year
- Current in-system resources are insufficient to meet our need
- Have thus far relied on other electric utilities for support to prevent rolling blackouts, but they now also face a more challenging summer

Why GWP is Requesting this Variance

- Delay of engine deliveries were outside of GWP's reasonable control and pushed start of commissioning into summer
- Once engines arrived, extraordinary measures were put to action including working extensive overtime to accelerate start of commissioning
- Variance will allow for shorter engine commissioning to provide summer resource
- Will allow more parallel operation, shortening project schedule

Engine OEM Delivery Delays

- July 31, 2025: Guaranteed date for engines installed on foundation
- Original project plan to commission during cooler winter months, well before peak loads
- Engines delivered to LA port on time
- Could not obtain transportation permit with original delivery route
- Engines railed to a yard, stored pending resolution

Engine OEM Delivery Delays

- Explored multiple alternative road and rail routes in parallel to find a solution
- Glendale worked with Metrolink to lay a temporary spur into Grayson site
- December 19, 2025: Successful road route identified and permits in place
- February 5, 2026: Last engine component delivered to site
- February 17, 2026: Last engine installed on foundation so that final assembly could begin


OVERSIZE LOAD
OVERSIZE LOAD


FOR A
SUSTAINABLE
FUTURE
WÄRTSILÄ
OVERSIZE LOAD
SPEED
LIMIT
25


CL345-05/01
ABB

Benefit of Variance

- Allows for accelerated engine commissioning ensuring availability before summer peak
- No expected increase in total emission amounts
- Provide a firm, manageable energy resource during peak summer loads
  - Counter variation due to extreme weather events
  - Reduce potential for load shedding (blackouts)
  - Reduces exposure to energy cost variability

Conclusion

- GWP relied on Wartsila's expertise for setting the schedule, obtaining the permit, and commissioning the engines
- The delays were outside of GWP's reasonable control
- Delays can impact essential public services (hospitals, fire stations, schools, water supply, wastewater, police, etc.) should expected extreme weather conditions occur
- GWP is the sole provider of energy for these public services in Glendale