

Apache Generating Station Cochise, Arizona

Coal Modernization Project Overview

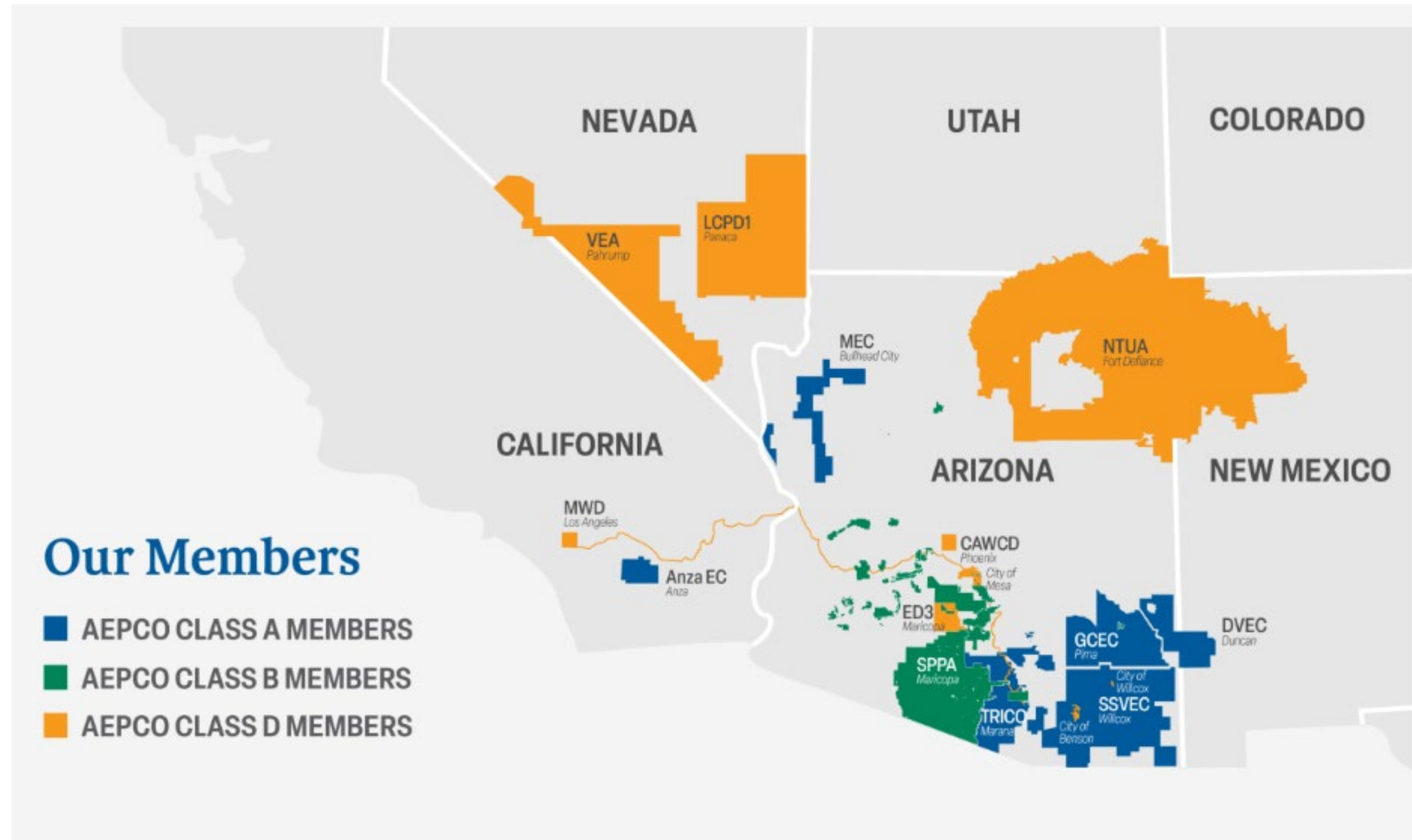
Stabilize and Optimize Coal Power: Program Overview

October 6-7, 2026

Acknowledgement & Disclaimer

- Acknowledgment: This presentation is based upon work supported by the Department of Energy under Award Number DE-FE0032771
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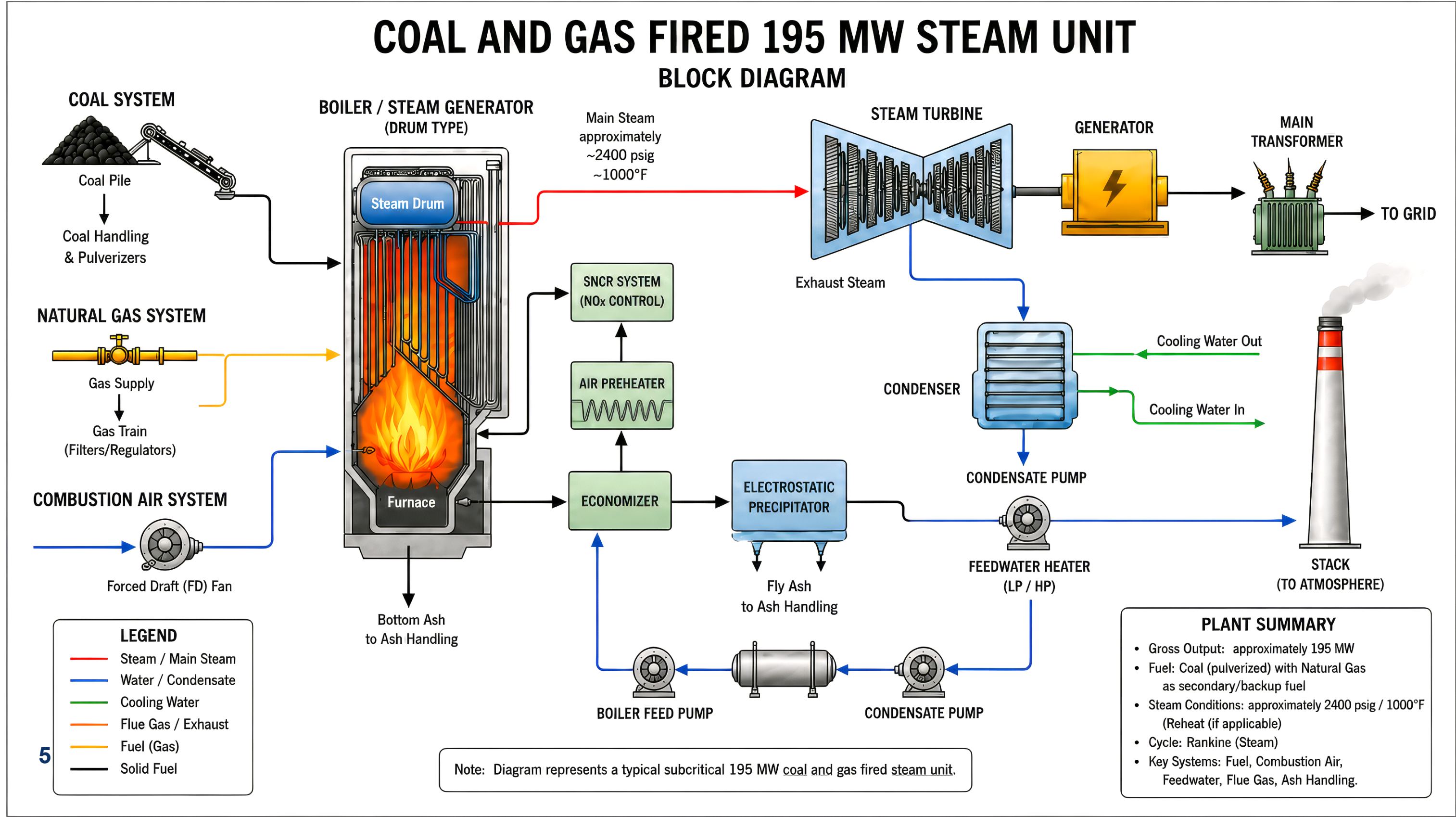
AEPCO Distribution System



Apache ST3

- Commissioned in 1978 (49 years old)
- Gross capacity: 195 MW
- Subbituminous coal with a coal blending facility on-site
 - Multi-coal fuels blended for optimum combustion/economics
- Pollution Controls
 - Selective Non-Catalytic Reduction
 - Low NOx Burners
 - Scrubbers
 - Electrostatic Precipitator
 - Activated Carbon Injection

Apache ST3 Flow Diagram



Project Objectives

- Modernize Coal Fired Unit
- Improve unit heat rate
 - Improve cost competitiveness
 - Increase unit efficiency (>4.0%)
- Increase MW output to grid
 - Lower cost of energy to Members
 - More available power output to offset other market purchases
- Extend life of unit
 - Maintain local jobs
 - Maintain energy production – defer costs of new generation

Project Implementation & Outcomes

- 4 Major projects over 4 years
 - \$61M total costs with \$20.8M DOE cost share
- 2 Overhauls required:
 - Minor in Spring 2028
 - Major in Spring 2030
- Gross capacity increased
- Extension of major maintenance intervals
- Unit end-of-life equipment replaced
- Degraded heat rate impacting equipment replaced
- Key Participants: GE Vernova, Howden, AGT Services, Babcock/TEI
- AEPCO will seek permits for all modifications

TIMELINE

