CASE STUDY

POWER GENERATION STATION – SOUTH CAROLINA

ARESENIC MERCURY ARSENIC SELENIUM TSS



Contaminant	Unit of Measure	Feed	Target ≤	Nano Permeate	RO Permeate
Arsenic	µg/L	24.5	6.0	0.606	0.262
Mercury	ng/L	4,470	25.5	18.3	0.690
Selenium	µg/L	21.8	150	3.59	ND
Nitrate-Nitrite	mg/L	<0.05	2.3	<0.05	<0.05
TSS	mg/L	845	22.5	2.5	<2.5

CONCULSION:

10BILE

- Successful Removal of Constituents of Concern (COC): AMFS effectively removed industry-specific COCs from the power plant feed source, meeting required regulatory standards.
- **No Additional Polishing Needed: For similar feed sources,** AMFS filtration alone is sufficient. If follow-up polishing media is desired, AMFS membrane technologies ahead will significantly extend the life of the media beds.
- **High Throughput, No Issues:** The AMFS unit averaged 53 GPM, peaking at 70 GPM, with no hesitation, pressure buildup, or fouling.