

CapAI

A strong nuclear safety culture mandates a low threshold for reporting issues into the corrective action program, which can generate as many as **10,000 CRs per unit per year**. All of these CRs must be reviewed and dispositioned, requiring review by supervisors, screening committees, management committees, SMEs, CAP coordinators, and more.

CapAI eliminates over 80% of this workload while protecting the low threshold for reporting and improving the quality of CRs, trending, and reporting. NuclearN's CapAI tools auto complete all of the required fields in your unique CAP workflows. **CRs are processed and trended in seconds**, allowing for daily trend reporting which is crucial in high-volume periods such as refueling outages.

Cost of CAP Program

➔ Cost Reduction

Utilities spend substantial resources on the screening and trending process, with one dual unit plant spending over \$1 million annually on screening and trending alone. NuclearN CapAI automation eliminates the need for manual screening and trending, resulting in significant cost savings for utilities.

➔ Labor Hours Saved

Utilities implementing CapAI automation have reported saving tens of thousands of labor hours annually. For example, one small-fleet utility estimated **saving 36,000 labor hours** per year after implementing CapAI Automation, leading to increased productivity and cost savings.

➔ Staffing Reduction

CapAI implementation allowed a three-unit plant to reduce dedicated screening committee staffing from **8 full-time senior resources to just 3**, resulting in annual labor cost savings of over \$750,000.

Benefits and Cost Savings:

- **High Adoption Rate:** Nearly half of North American utilities are already utilizing some form of CAP automation, indicating a significant demand for solutions like NuclearN CapAI within the industry.
- **Automation Efficiency:** Mature systems like NuclearN CapAI are achieving remarkable results, with over 80% of corrective actions being completely automated and trended. This automation leads to substantial time savings and increased accuracy in issue resolution.
- **Labor Savings:** On average, utilities implementing NuclearN CapAI are seeing a reduction of 1.5 to 2 full-time equivalent (FTE) positions per reactor. This reduction in staffing requirements translates to significant cost savings for utilities.
- **Reduced Closure Durations:** NuclearN CapAI implementation results in a significant reduction in average CAP closure durations, with closures being shortened by over 2 days on average. This streamlined process minimizes downtime during outages, leading to increased operational efficiency and cost savings.

Regulatory Perspective:

- **Efficiency Opportunity:** Regulators recognize the value of efficient issue evaluation and corrective action processes. CapAI enables utilities to promptly document and address issues, ensuring compliance with regulatory standards while minimizing resource expenditure.
- **Value Proposition:** CapAI empowers station leaders and workers to focus on conditions adverse to quality and other significant items, reducing time spent on processing issue evaluations and corrective actions. This shift towards higher levels of performance accountability enhances overall station performance.
- **Read EPRI's report on CAP Automation here:**
<https://www.epri.com/research/programs/112925/results/3002023821>

NuclearN.AI's CapAI product offers a compelling economic justification for nuclear utilities, providing cost savings, efficiency gains, and regulatory compliance benefits. By automating and streamlining corrective action management processes, CapAI enables utilities to optimize resources, minimize downtime, and drive operational excellence.

We stand behind our product with a 100% satisfaction guarantee. Experience the difference firsthand—contact us today for a personalized demonstration or proof of value.

