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Why Purpose-Built for Nuclear Matters

Feature/Capability	NPXai (Built for Nuclear)	Public LLMs (General Purpose AI)
Trained on Nuclear-Specific Content	 Yes, Includes regulatory docs, SOPs, tech specs, OPEX reports	 No, General internet and public datasets only
Domain-Specific Language Understanding	 Deep understanding of nuclear terminology, acronyms, and processes	 Limited – May misinterpret industry terms
Security & Data Sovereignty	 Built with secure, controlled environments for regulated industries	 Data often processed externally (cloud-based)
Customization for Nuclear Workflows	 Aligned with nuclear workflows, asset lifecycles, and governance	 Generic, no built-in industry-specific flows
Traceability & Explainability	 Outputs can be traced back to source documents	 Often lacks citations or transparency
Alignment with Regulatory Standards	 Designed with CNSC/NEI/IAEA frameworks in mind	 Not aligned with nuclear compliance needs
On-Prem/Private Cloud Deployment	 Yes, Options for deployment in secure environments	 Typically cloud-only (limited control)
Team Collaboration Features	 Designed to work within nuclear teams' structured approval flows	 Individual-focused, lacks team governance features
Data Ownership & Control	 Your data stays within your environment	 Data may be used for training or stored externally
Support & Updates from Nuclear Experts	 Built and supported by experts in nuclear + AI	 General AI support, no nuclear expertise