

water reactor fleet, broadening the applications of RISE.

Mankosa broke down the opportunities that RISE presents into three categories: advanced reactor licensing, operational margins and flexibility for light water reactors, and promoting innovation and public acceptance.

On advanced reactor licensing, at the most basic level, RISE can help generate the RIPB safety case for new reactor designs. Beyond that, it also provides transparency in how that case was developed, while simultaneously automating burdensome documentation needs and collaboratively guiding analysts through complex workflows.

As for LWRs, Mankosa explained that RISE can help find new risk insights, improve fuel utilization, facilitate the management of operational incidents and issues, and streamline safety analysis methods. Finally, he said that

The screenshot shows the RISE software interface. On the left is a navigation menu with options like 'OGMA-Catco', 'OGMA User Manual', 'RISE', 'Nuclear Power Plants', 'Plant Parameters', 'Safety Functions', 'SSCs', 'Initiating Events', 'Event Sequences', 'Event Sequence Families', 'Defense In Depth', 'Advisory', 'Fault Trees', 'Basic Events', 'Distributions', 'RISE Administration', and 'RISE User Manual'. The main area displays a table titled 'Systems and Components for Standard Modular HTGR'. The table has columns for System Name, Tag ID, Safety Classification, Safety Functions, Quality Class, Seismic Category, and Principle. The table lists various systems such as Control rods, Heat transport system, Helium Purification System, Moisture Monitor, Neutron Control Sub-system, Plant Protection Instrumentation System, Primary Circuit Relief Valve, Primary Coolant Pressure Transducer, Primary Coolant System, Reactor Cavity cooling system, Reactor Core, Reactor Vessel, Reserve shutdown control equipment, Shutdown cooling system, Steam Generator, Steam Generator Dump tank, Steam Generator Feedwater Valves, and Steam Generator Isolation Equipment.

System Name	Tag ID	Safety Classification	Safety Functions	Quality Class	Seismic Category	Principle
Control rods	SC-1	Undetermined	Reactor trip, Automatic reactor trip on high moisture...			
Heat transport system	SCC-1234	Undetermined	Shutdown core cooling			
Helium Purification System	SCC-1235	Undetermined	Limit radioactive material in coolant, Control pressure...			
Moisture Monitor	SSC-1242	Undetermined	Detect moisture in coolant			
Neutron Control Sub-system	SC-1	Undetermined				
Plant Protection Instrumentation System	SSC-1243	Undetermined	Detect elevated pressure in primary coolant system, etc.			
Primary Circuit Relief Valve	SCC-1247	Undetermined	Control pressure of primary coolant system			
Primary Coolant Pressure Transducer	SSC-1245	Undetermined	Control of reactivity			
Primary Coolant System	SCC-1236	Safety Related (SR)	Containment of radioactive material			
Reactor Cavity cooling system	SCC-1236	Safety Related (SR)	Shutdown core cooling			
Reactor Core	SCC-1236	Safety Related (SR)				
Reactor Vessel	SCC-1236	Safety Related (SR)				
Reserve shutdown control equipment	SC-1235	Safety Related (SR)	Reactor trip			
Shutdown cooling system	SCC-1235	Undetermined	Shutdown core cooling			
Steam Generator	SSC-1241	Undetermined	Removal of heat from the reactor and from the fuel salt...			
Steam Generator Dump tank	SSC-1243	Undetermined	Limit moisture in coolant			
Steam Generator Feedwater Valves	SSC-1243	Undetermined	Limit moisture in coolant			
Steam Generator Isolation Equipment	SSC-1244	Undetermined	Removal of heat from the reactor and from the fuel salt...			

A screenshot of the RISE software.

FPoli hopes to help enable the deployment of highly enriched-high burnup and accident tolerant fuel products, as well as assisting in siting and emergency planning zone management activities, which could in turn increase public acceptance.

Continued

The advertisement features a background image of a nuclear power plant with two large cooling towers. The GDBarri & Associates, Inc. logo is prominently displayed on the right side. The text in the center describes the company's services as a MWBE staff augmentation firm in the nuclear power generation industry.

GDBarri & Associates, Inc.

Barri is a MWBE staff augmentation firm that actively recruits and places engineering, professional, technical, and union craft personnel for operations, maintenance, capital improvement, and other projects primarily in the nuclear power generation industry. Our experience over the last three decades has prepared us to be an effective partner to our clients, and our knowledge of safety, labor agreements, personnel management, employment rules and regulations, together with strong labor analysis and customizable reporting capabilities will help achieve your business goals.

<https://gdbarri.com>