

# Nuclear Power Plants

## Warning System



**Delivers notifications through visual signals and sound alarms.**



**Ensures response within the pre-set time of operational personnel.**



**Enables automatic activation of electronic sirens and notifications.**



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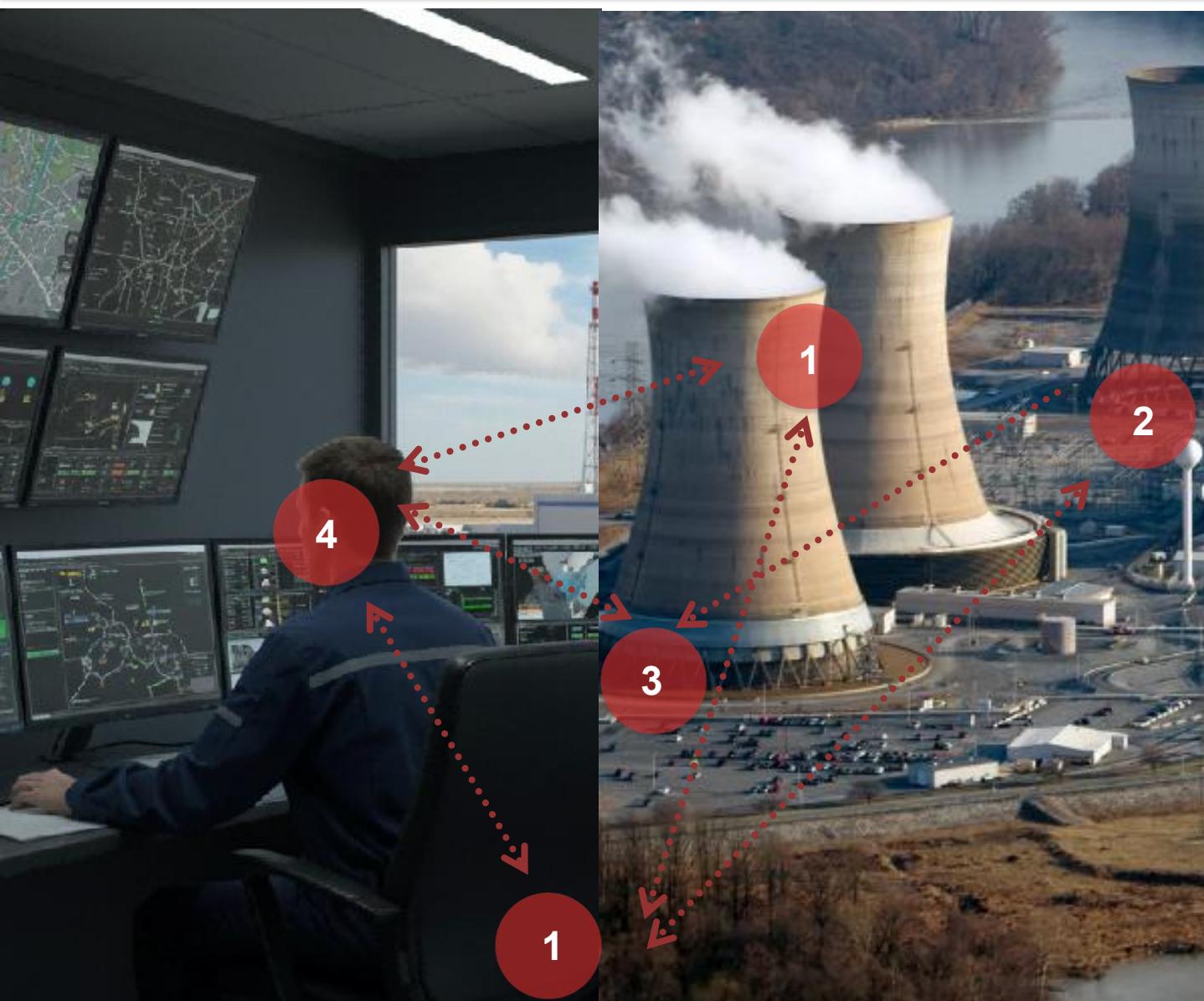
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# Why to build warning systems in nuclear power plants?

Nuclear power plants generate electricity using atomic fuel, a hazardous material that requires strict handling and safety measures. Despite advanced technological controls, there remains a risk of radioactive leakage. To protect workers, nearby populations, and the environment, nuclear plants implement monitoring, warning, and notification systems to detect and respond to radioactive incidents.



SenkenTech provides a high-quality, reliable, and thoroughly tested warning system that meets the strictest nuclear power plant standards. Its key advantage is the rapid alarm response, allowing the system to trigger a siren within seconds.

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## The Monitoring System and Control Center

1. Continuously monitor the overall status and functionality of the early warning system, including system parameters, weather, and seismic activity that may impact nuclear plant operations.
2. When critical values or potential risks are detected, the system automatically triggers warnings and visual alerts.
3. In a major emergency, the system automatically alerts responsible personnel and relevant agencies.
4. Keeps detailed records of all communications with key warning and notification centers for future analysis.
5. Guaranteed security with fully reliable 100% backup technology.

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## Communication Infrastructure

1. The system has main, backup, and local units. The main unit handles nearby sirens, while local units control designated sirens to speed response.
2. Facilitates communication between the control centre and the warning system components.
3. Allows the nuclear power plants warning system to interface with the national early warning system.

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## The Electronic Siren

1. Delivers powerful acoustic pressure over significant distances.
2. Guarantees accurate and fully intelligible live voice output.
3. Demonstrate their high reliability due to:
  - Ensures full operability even in the event of a power failure.
  - Guarantees reliable performance in extreme environments.
  - Equipped with advanced self-diagnostic functions.
4. Supports multiple power-supply options.
5. Facilitates control centre communications over radio and wired links.

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## Responsible Persons/Responders

1. Notifies users of an emergency situation via phone call or text message.
2. Enables personnel to be urgently summoned to offices or dispatched to rescue operations.



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