



CASE STUDY

Employee monitoring solution to
ensure safety and availability
at a nuclear power plant

Client overview

The client is one of the largest construction companies in Asia and wanted an employee monitoring solution for its **5000+ workers** at its nuclear power plant.



Challenge

Some of the business challenges faced by the client included monitoring a huge workforce spread across a vast area. Also, the different phases of a project necessitated repeated modification in the attendance roster, and it also involved restricting personnel movement across different zones. The client also faced the challenge of planning worker re-allocation within the site in line with project criticality without accurate availability of information.



To overcome these challenges, the client wanted a solution, which could help them:

- Track the inward and outward movement of personnel from all exit and entry points.
- Provide on-demand visibility of personnel across all zones.
- Gain visibility of the time spent by an employee in a particular work zone and their total count along with inter-zone movement records.

LTIMindtree Solution

Our connected worker solution consisted of the below components:

- Active RFID tags - All workers entering the site were issued an active RFID tag, which fits in their helmet.
- Active RFID Reader - Each zone was demarcated with one or more RFID readers capable of reading all the tags in its vicinity.
- LTIMindtree's connected worker solution - This solution enabled the assignment of tags to the personnel, creation of work zones, mapping of readers to work zones, monitoring the health of the tags and readers, and provided dashboards for actionable insights.



Benefits

Our solution helped the client gain visibility regarding zone-wise workforce availability and enabled them to effectively utilize their workforce. The attendance capture process became smooth, and virtual fencing of no-go zones restricted worker movement that helped improve safety at the site. They could even benchmark the performance of sub-contractor agencies based on worker availability, and this led to a drastic improvement in working efficiency.



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