

## Nuvia Case Study

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**Testimonials** TBG Solutions produced a distributed system which allowed the operators of a nuclear waste fuel processing prototype

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### Testimonials

TBG Solutions produced a distributed system which allowed the operators of a nuclear waste fuel processing prototype to monitor and record impacts during trials

### Understand

Nuvia is an international nuclear engineering, project management and services contractor. The brief was to engineer a monitoring system that would record and model impact data on a fuel processing prototype.



### Engineer

The system consisted of almost 40 strain bridge circuits deployed across the system and routed back to 3 field boxes to relay information back to the operator.

Due to the nature of the project, signals were prone to fluctuations and in order to protect the operator and provide the most accurate readings, these signals needed to be signal conditioned before being relayed to the central PC.

### Deliver

The system was successful in retrieving diagnostic information on the fuel processing prototype, with the array of sensors serving to provide a detailed analysis of part strain. These results were then analysed by the system to provide 3D readouts of the parts to show where strain was being exerted after being compared to a threshold level.

