



SAFIR2018 WANDA

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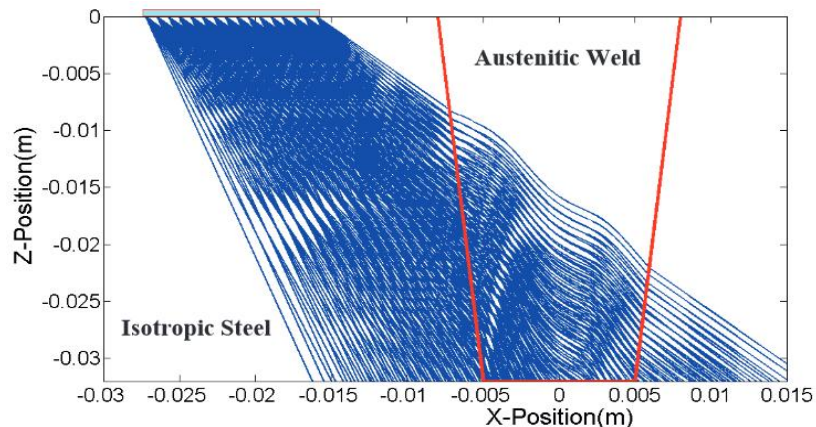
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Objective

- Providing means of assuring and assessing the safety and structural integrity of nuclear power plants beyond 40+ years.
 - Improvement of reliability of in-service inspection.
 - Development of performance estimation methodologies.
 - Raise the level of NDE competence of concrete infrastructure.

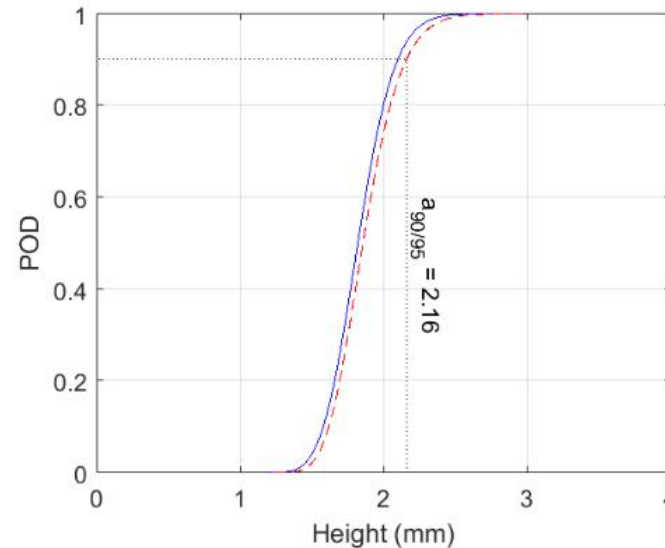
Improvement of reliability of in-service inspection

- Variety of different NDE topics.
 - Ultrasonic tests on fatigue cracks in a test tube.
 - The propagation of the ultrasonic in stainless steel weld and the impact of the weld on defect detection is evaluated.



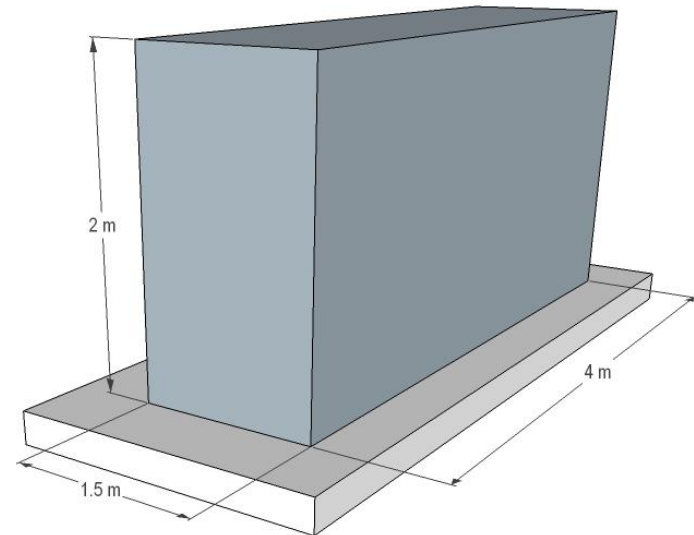
Development of performance estimation methodologies

- Estimating probability of detection for ultrasonic inspection.
- Modelling of an austenitic weld for ultrasonic inspection.
- Modelling of magnetite detection with Eddy Current inspection on Steam Generator tubing have been successful



Raise the level of NDE competence of concrete infrastructure

- As a new topic the NDE research on concrete have been started.
 - State-of-the-art survey in NDE concrete research is done and the readiness to plan a wall mock-up for future needs is achieved.



Conclusion

- WANDA develops tools and methodologies that can maintain high safety while extending the operating lifetimes of NPP reliably regardless the material inspected.



TECHNOLOGY «FOR BUSINESS»

