

Risk Based Inspection Planning

Optimised inspection, maintenance strategies



Risk based inspection (RBI) planning is now becoming an accepted tool for establishing the type, extent and frequency of inspection of plant assets, based on an assessment of likelihood of failure and consequences.

Applus RTD's RBI planning services include:

- ⊕ **Qualitative and quantitative RBI approaches for systematic identification of relevant damage mechanisms and consequences of failure for plant assets**
- ⊕ **Optimum selection of inspection strategies and other controls, to ensure plant integrity is successfully managed**
- ⊕ **Development of non-intrusive inspection strategies to minimise plant downtime**
- ⊕ **Safety case development for extended inspection intervals, non-intrusive inspection strategies and extending plant life**
- ⊕ **Methodologies consistent with National Standards, including AS/NZS 3788**
- ⊕ **Software tools to assist with RBI planning, risk ranking and inspection data management.**

Benefits include:

- ⊕ Improved plant availability, by minimising downtime
- ⊕ Non-intrusive inspection strategies
- ⊕ Enhanced safety
- ⊕ More effective inspection programmes.

Through in-house resources, and in collaboration with major international partners, **Applus RTD** has extensive experience of undertaking RBI planning for a diverse range of industries, including:

- ⊕ Ore Processing and Handling
- ⊕ Oil & Gas
- ⊕ Petrochemical
- ⊕ Refining
- ⊕ Power Generation.

