



### Necessary Skills and Knowledge

- Plant operating conditions
- Plant operating history
- Future operation
- Maintenance history/philosophy
- Inspection History

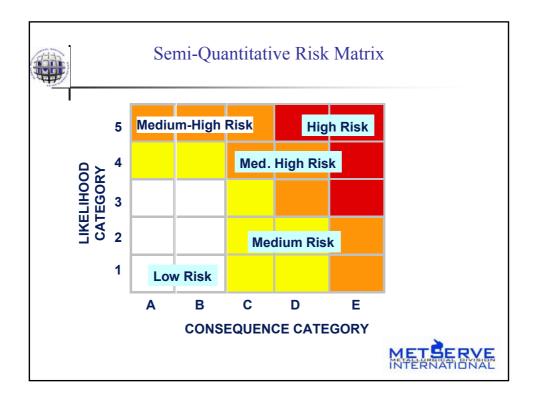


- Inspection techniques and practices
- Material and deterioration mechanisms
- Equipment design
- Statutory requirements
- RBI team leadership
- Consequence of failure



## <image> Identify all possible deterioration mechanisms For each major component. Internal/external pressure deterioration Internal deterioration e.q.tubes Location of deterioration Rate of deterioration Likely failure mode Examining past inspection reports







### **Identify Actions**

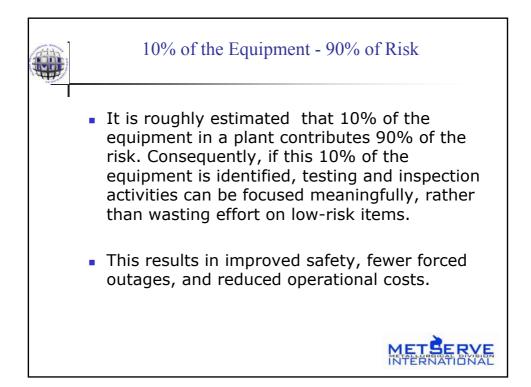
### Actions

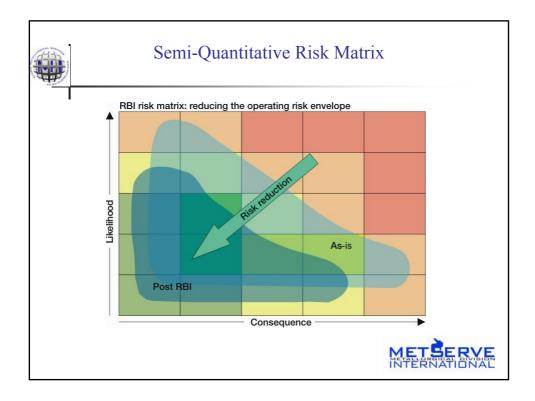
- Mitigating Actions
- Install isolation valves
- Change material of construction
- Add a spare unit
- Design Change
- Install leak detection system
- Instigate routine inspection
- Set up monitoring systems
- More detailed assessment
- Evaluate Creep Life
- Critical defect size determination





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## Key Learning's



- Reduction in unplanned downtimehigher confidence in detecting the onset of deterioration
- Cost of getting it wrong once outweighs the saving of one exercise.



