Equipment Reliability
Sustainable Excellence in Life Cycle Engineering
Founded on INPO AP-913 ...
the amount of information-producing technology relating to equipment and equipment condition continues to expand. This creates a situation in which management and personnel can quickly become overwhelmed with information if the proper processes are not in place to help manage this information.

... as organizations continue to lose key technical knowledge due to retirements and downsizing, the need to efficiently collect and organize asset information in order to assist new plant staff becomes even greater. Integrated Operations and Maintenance of Fossil Plant Systems: System Health Reporting, EPRI, Palo Alto, CA: 2009. 1017528c
Cost Pressure
Sustainable Excellence in Life Cycle Engineering
Early Identification of Failure
Optimization of Asset Management Processes
Manage Total Risk Exposure

Total Risk = Physical Asset Risk \times Business Process Risk
Besides automating a potentially cumbersome process, the software tool has helped to create **transparency in the process** by which an issue evolves into a project and how that project is prioritized …

Equipment Reliability
Remaining ER Modules

- **IQReview** – Component classification, template-based strategies, PM Evaluations
- **SystemIQ** – Health Reporting, WO Disposition, Walkdowns, Notebook
- **MRule Manager** – Maintenance Rule Scoping, Evaluations & Monitoring; Expert Panel meetings
- **LTA Manager** – Plant Health Process
- **ProgramIQ** – Program/Component Health Reporting
- **PlantIQ** – PdM data collection/Equipment Assessment
Equipment Reliability – AP-913
Equipment Reliability Inputs
IQReview - Maintenance Optimization project
SystemIQ/ProgramIQ – Health Reporting
PlantIQ – Equipment Health

Vib  IR  Oil  ULT  PP

P01A Pump
Aggregate Health – Functional (SystemIQ)
Aggregate Health – Technical (ProgramIQ)
MRULE Manager - Program Scoping

- Facility
- Unit
- System
- Function
- PMG
- Equipment

- Ownership
- Scoping
- Performance Monitoring
- Mapping events to PMG’s
LTA Manager - Joint Prioritization

MRule

Program Health

Equipment Health

PHC & Business Planning

System Health
Implementation Services

- Configuration
- Data migration
- Integration
- Reporting
  - Custom reports (baseline adjustments)
  - Data views for external reporting
  - Exportable data source pages
- SQA & deployment support
- Training & change management support
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