

Mechanical Integrity Manager



Mechanical Integrity (MI) Manager is an enterprise level collaborative tool to manage plant infrastructure including maintenance, inspections, calibrations and chemical leaks (LDAR). Evaluated as "One of The Best MI Tools Available". MI Manager can be applied to almost any type of assessment including city infrastructure, bridges, streets, underground piping and plants systems requiring maintenance, inspections, instrument calibrations and leak detection (LDAR). Using QR Codes and smart tablets, MI Manager functions as a real time data entry tool in the field reducing data entry effort, errors and paper. MI Manager uses GPS coordinates and Google Maps for locating findings.

Features:

Highlights

- Built for multiple plant/location collaboration
- Works as a stand alone application
- Works as an Add-on module
- Uses QR codes for direct real time data entry
- Reduces errors from paper data entry
- GPS locator for findings
- Extensive library of workflows and checklists

MI Activities

- Unlimited MI activities
- Includes library of sample MI forms
- API calculations for LTRC
- User configurable forms
- MI photo uploads

Application Security

- User configurable access permissions
- Inter-Plant access configurable

Add-on Module For

- EMPRV
- Maximo
- Stellent
- Documentum
- Citadon

Search Engine

- Powerful search engine
- Locate MI records by key word, process unit, equipment type, manufacturer, etc.

Reports

- Versatile Report Generator
- Summary, Detail and Late Reports
- Plant Repair Priority Ranking Report
- STCR and LTRC Charts
- Graphical Status Report by Plant

User Configurable

- User configurable Look-up Lists
- User configurable libraries reduce errors
- User configurable priorities

Easy To Use

- Works with any Browser
- No ActiveX components used
- No special software needed
- We'll install the Software on your server
- We'll do the training
- We'll do the technical support
- We'll maintain the software

Features

- Response Priority Ranking
- MI Task Scheduler
- Tablet/iPad/Surface Compatible
- Google Maps interface

Document Locations

- On a web server folder
- In a common shared LAN folder
- In another document management application
- An internet URL

Platforms and Interfaces

- Built on Microsoft's Dot Net framework
- Microsoft SQL Database
- Microsoft Access
- Microsoft Crystal and Web Reports
- Microsoft Visio and Excel

MI Repair Status Tracking

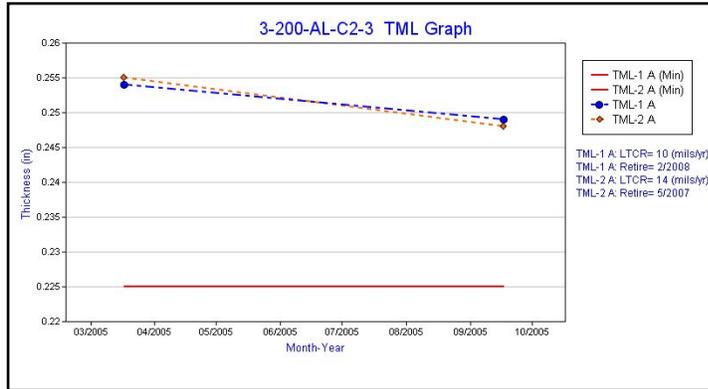
- Monitor status by repair priority and completion status.



Mechanical Integrity Manager

Features (Continued):

Inspection Charts and Graphs



Inspections that involve thicknesses can be graphed and viewed for trends. TML graph provides LTCR calculation and projected asset retire date based on TML(s) selected. Analyze corrosion rates for piping circuits, storage tanks and pressure vessels.

TML graphs are user configurable. Select line colors, data point symbols, solid or dashed properties and more. User settings are saved for each TML plotted. Scales are automatically adjusted for thickness values and timeframes. Minimum thickness can be used to project end of life dates.

For API tanks or ASME pressure vessels, shell thicknesses can be shown in color coded grid view. For tank floors and roofs, thicknesses can be shown as color coded polar coordinates.

MI Manager

Company: [Blank]

Asset ID: [Blank]

Description: [Blank]

GPS Lat: [Blank]

GPS Long: [Blank]

MI Activity: [Inspection]

Tickets/Records: [2008-1, Scheduled Non-Regulatory, 3/6/2008]

MI Form: [None Selected]

Est'd Retire Date: 4/27/2001 (TMLS81U)

Bar Chart Legend:

- Total Closed (Black)
- Total Open (Red)
- Inspection Closed (Blue)
- Inspection Open (Orange)

MI Grid View

Component ID: Shell

Yield Stress: 24700 (PSI)

Fluid SG: 1.6

Weld E: 0.8 (Default 1.0)

Height/Radius: 21 (FT)

Length/Angle: 105 (FT/Radians)

Grid Size: 5 (Px)

Diameter: 34.5 (FT)

Tact >> Target: Green (#00FF00)

Tact > Tmin + 4Q: Yellow (#FFFF00)

Tact > Tmin + 3Q: Gold (#FFCC00)

Tact > Tmin + 2Q: Light Orange (#FF9900)

Tact > Tmin + 1Q: Orange (#FF6600)

Tact <= Tmin: Red (#FF0000)

API Tank Thicknesses shown in color coded grid view.

MI Manager

Company: [Blank]

Asset ID: [Blank]

Description: [Blank]

GPS Lat: [Blank]

GPS Long: [Blank]

MI Activity: [Inspection]

Tickets/Records: [2013-2, Scheduled Non-Regulatory, 4/16/2010]

MI Form: [None Selected]

Bar Chart Legend:

- Total Closed (Black)
- Total Open (Red)
- Inspection Closed (Blue)
- Inspection Open (Orange)

Floor UT Color Grid

Component ID: Floor

Yield Stress: 24700 (PSI)

Fluid SG: 1.6

Weld E: 0.8 (Default 1.0)

Height/Radius: 21 (FT)

Length/Angle: 105 (FT/Radians)

Grid Size: 5 (Px)

Diameter: 34.5 (FT)

Tact >> Target: Green (#00FF00)

Tact > Tmin + 4Q: Yellow (#FFFF00)

Tact > Tmin + 3Q: Gold (#FFCC00)

Tact > Tmin + 2Q: Light Orange (#FF9900)

Tact > Tmin + 1Q: Orange (#FF6600)

Tact <= Tmin: Red (#FF0000)

Legend for Floor UT Color Grid:

- Tact <= Tmin (Red)
- Tact > Tmin + 4Q (Yellow)
- Tact > Tmin + 3Q (Gold)
- Tact > Tmin + 2Q (Light Orange)
- Tact > Tmin + 1Q (Orange)
- Tact >> Target (Green)

API Tank floor/roof shown in color coded polar coordinates.