



API RBI Project Strategy


API RBI User Group

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Status Summary

- Documentation Status (API 581):
 - Part 1 Overview of Risk – Draft for ballot 4th Qtr. 2006
 - + Part 1, Annex A - Details of PRD
 - Part 2 POF – Ballot due date August 2006
 - + Part 2, Annex A - Management Score audit tool
 - + Part 2, Annex B - Corrosion rate determination
 - Part 3 COF – Ballot due date August 2006
 - + Part 3, Annex A - Detailed background of Level 1 and Level 2 consequence modeler
 - Target API 581 release 2nd Qtr. 2007
- Third Party Review of Consequence modeler
- Software Status:
 - V8.0.05 released for use in late spring 2006
 - V8.01 current production version of the API RBI software, released late summer
 - V8.02 due out late fall

Industry V8.0 Use

- Industry use of V8 widening quickly
- PV & Piping Upgrades to V8
 - Multiple site upgrades completed or in progress
 - Standard effort, work process and data needs outlined
 - Systemization/Circuitization performed for various sites to better link inspection database information to upgrade RBI file
 - Site specific data management practices developed
- Heat Exchanger Bundles
 - Pilot studies in progress to test and field validate V8.02 when released
- Atmospheric Storage Tanks - several studies completed
- PRD
 - ~ 7,000 total in database
 - ~ 2,200 V8 studies completed or in progress

V8 Software Updates

- Development:
 - Consequence modeler fluid additions and calculation improvements
 - + Inventory liquid/vapor level input and inventory calculations returned
 - + toxic model creates a new fluid when consequence model is changed from original to new.
 - Increase PRV protection for up to 20 Components
 - HE bundle module improvements
- User Improvements:
 - Swap eeg databases directly from application
 - Remote node Unit drag/drop populates Corporation and Plant
 - Import/export Excel tool extended to SQLServer and Oracle applications
 - Interface with Meridium V3
 - Report Improvements/Standardization

V8 Software Future Plans

- Encourage wide-spread production use of V8.02 for pressure vessels, piping, bundles, tanks and PRD's
- Identify GUI improvements based on production use
 - Increase use of J-tree navigation
 - Broaden use of file filter
 - Reduce navigation actions by identifying shortcuts (eg. calculation to inspection planning)
- Link with PCMS
- Report additions and improvements
- Bug fixes, as identified
- Improve speed, network installation operation and optimize database structure, as identified

Links and Industries Needs

- Chemical industry wrapper
- Production/Gas Plant wrapper
- Ammonia Plant/Storage wrapper
- Pulp & Paper wrapper
- Tank terminal and marketing wrapper
- Identifying additional tools for plug and play, as indentified
 - Meridium – release due in V3
 - PCMS – development in progress
 - Others – SAP, CREDO, Ultrapipe
- Link to API 571

Technical Development Plans

- Development and documentation of technology while V8.02 in production:
 - API 581 Part 4: Worked Examples
 - Move from ar/t to Remaining Strength Factor approach
 - HTHA module updates
 - Creep module addition
- API 571 and API 579 consistency