

API-RBI 5.035 User Comments

Comments discussed with E2G Jan 17, 2005

#	Concerns
1.	It appears that the software is not looking at the last six inspections per specific damage mechanism but the last six inspections for all components, whether it is for cracking, thinning, etc. This is causing the component to not receive the total number of inspection for each damage mechanism.
2.	Lining Type – It seems you have to put the start-up date in, not the replacement date to get the Risk Matrix to show in the analysis.
3.	You have to turn off all damage mechanisms for cracking and brittle fracture each component that is not relevant. We need a global turn off of damage mechanisms. If we know that CUI, HTHA etc are not active we should not have to go to each component to turn them off.
4.	We are getting CUI damage factor even for equipment that is operating beyond the parameters for CUI as per the BRD.
5.	In the thinning/lining module we had results of one component that did not show a high damage factor even though the nominal thickness of the component was below the T_{min} .
6.	We need a user friendly import tool into 5.0 that uses the same terminology and pull down menus like the 333 export template.
7.	Adding a single component into the software is untidy; there should be a better method.
8.	When the component is near the T_{min} and has a high damage factor an inspection should be reflected in the inspection planning.
9.	When the risk target is exceeded by two damage mechanisms, the program is recommending inspections for both even though one is exceeding the risk target and not the other.
10.	CUI last measured thickness to be evaluated. Thinning and CUI last measured thickness are the same. The software is differentiating between the last measured thickness for thinning and last measured thickness for the CUI. Input of thinning is adequate for CUI.
11.	The computed Time (age) for HTHA to be reviewed, In the software it is giving the age as total numbers of years from day one even though recent inspection date is entered in the inspection history for HTHA. In other words, the inspection history for HTHA is not reflected in the age section of "Calculated Results".

12.	For inspection planning of HTHA, the software recommended an "A" inspection when no such inspection category exists (as per BRD).
13.	Total length for fin fan tube is limited to maximum 100,000 feet which may not give a good representation of the risk level if the total length is higher than that.
14.	Damage mechanisms are switched on in some equipment even though they are not applicable. For example, equipment is Stress relieved and if the damage mechanism for caustic is left "on", the software will calculate damage factor for caustic cracking. Suggest to turn off inapplicable damage mechanisms upfront and remove them from the default (on) position when they are not applicable at all.
15.	Damage factor should be made higher for repaired equipment (to indicate that damage is more likely), even if repaired to original dimensions.
16.	Need to add API 5L Grade B pipe to materials specifications, even though ASTM A-106 is an adequate substitute.
17.	The program needs to account for fouling problems which leads to under deposits corrosion.
18.	We should have better features in printing/extracting reports from the software. As a minimum, include reports similar to 333
19.	Area risk target and other risk targets to be well defined and explained by E2G.
20.	Bundles and Heaters need to be included in the RBI program as soon as possible.
21.	We have to run multiple runs to get the matrices and risk summaries we want to do proper analysis (Please see table below). This should be done by the software once we design it to accept multiple T&I dates.
22.	We ran two batches: one using RBI date as 2004 and plan date as 2005. The other is using RBI date 2005 and plan date 2007. The future risk matrix without inspection from the first batch should be identical to the current risk matrix of the second batch (red boxes in the attached table). Is there something wrong in here?
23.	When we installed the report patch we ended up locking in the 1 st Risk Matrix downloaded. No matter how often we tried a different matrix, current, future, it only previewed the 1 st one. We stopped using it.
24.	Similar to version 3.3.3, we need a way to export the data from the data base to excel to make use of all the information we put into the program.

25.	The software should allow manual override of the number of inspections and effectiveness of inspection, just like 333.
26.	We have noticed that when the software is left open overnight and then when we try to continue working on it next morning, it hangs up. We have to restart the software to continue our work.

	Current Matrix 2004	Matrix 2005 (W/O)	Matrix 2007	Current Risk Summary 2004	Risk Summary 2005	Risk Summary 2007
RBI Date 2004 Plan 2005	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
RBI Date 2005 Plan date 2007	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
RBI Date 2007 Plan date 2012						<input checked="" type="checkbox"/>