

API Ballot Summary Sheet

9/2/2003

Ballot: 52-03: 653-171, Out of Service Tank Bottom Inspection

AMS ID: 246

Start Date: 7/8/03

Closing Date: 8/22/03

Associate: Roland Goodman

Coordinator: Valeen Young

Proposal:

Vote Results

<u>Voter</u>	<u>Company</u>	<u>Comments</u>	<u>Vote Results</u>			
			<u>Affirmative</u>	<u>Negative</u>	<u>Abstain</u>	<u>Did Not Vote</u>
134629	Nelson Acosta	HMT Inspection	Yes	X		
138021	Moraya Al-Gahtani	Saudi Aramco	No			X
79326	Gregory Alvarado	Equity Engineering Group, Inc., The	No			X
131617	Joel Andreani	Equity Engineering Group, Inc., The	No	X		
73074	Ronald Bailey	American Tank & Vessel, Inc.	No			X
136219	Mark Baker	Baker Consulting Group, Inc.	No	X		
134681	Ernie Blanchard	IMC-Phosphates	No	X		
134699	Steven Braune	AEC Engineering, Inc.	No			X
130397	Jerry Burke	GE Panametrics	No			X
134782	Steve Caruthers	Tank Consultants, Inc.	No			X
141258	John Cornell	BaCo Enterprise, LLC	No			X
7127	Earl Crochet	Kinder Morgan	Yes		X	
132217	Dwayne Davis	Stone & Webster	No	X		
142685	Domingo de Para	ExxonMobil	No			X
133403	Jeffrey DeArmond	BP p.l.c.	No			X
133429	Robert Dolejs	UOP LLC	Yes			X
72864	Robert Elliott	Alyeska Pipeline Service Company	Yes		X	
128480	Wayne Elliott	Elliott Services	No	X		
135965	Kenneth Erdmann	Matrix Service Company	No	X		
128483	Robert Ferrell	The National Board of Boiler & Pressure	No	X		
105011	David Flight	Dow Chemical Company, The	No	X		
134870	Laurence Foster	Marathon Ashland Petroleum LLC	Yes		X	
134880	John Fumbanks	Pond and Company Inc.	No	X		
133538	Frank Furillo	ExxonMobil	No			X
115033	Alan Geis	Colonial Pipeline Company	No	X		
84365	Mark Geisenhoff	Flint Hills Resource Group, LP	Yes		X	
83689	Ty Hagen	Hagen Engineering International, Inc.	No	X		

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133668	Gary Heath	All Tech Inspection Co.	No	X		
70596	Marty Herlevic	James Machine Works, Inc.	No		X	
91812	Peter Hunt	Shell Chemical LP	No			X
132218	Wendell Johnson	Conam Inspection	No			X
89501	N. Kelley Jones	Pro-Inspect Inc.	No			X
93133	Randy Kissell	TGB Partnership	Yes	X		
26542	Morris Kline	HMT Inspection	No			X
135014	John Lieb	Tank Industry Consultants, Inc.	Yes		X	
128476	John Ludman	DuPont Engineering Technology	No	X		
135072	Francis Maitland	TAQ. Inc.	No			X
78399	David Martin	Conservatek Industries, Inc.	No	X		
113545	James McBride	Petrex, Inc.	No	X		
138401	John McMillan	Mechanical Integrity Inc.	No	X		
139443	James McVay	Tesoro Petroleum	No			X
137255	Carl Mikkola	Enbridge Energy Company, Inc.	No	X		
131185	Douglas Miller	Chicago Bridge & Iron Company (CBI)	Yes	X		
114038	Ron Miller	Physical Acoustics Corporation	No	X		
69609	Bhana Mistry	TIW Steel Platework	No	X		
83736	John Mooney		No	X		
92212	George Morovich	TEMCOR	No	X		
136286	Philip Myers	ChevronTexaco Corporation	Yes		X	
132210	David Nasab	Kellogg Brown & Root	No			X
140695	Richard Nichols	Roddey Engineering Services, Inc.	Yes		X	
139601	John O'Brien	Innovative Research Consultants	No			X
82270	Robert Pechacek	General Electric Inspection Services, In	No			X
5193	Richard Pinegar	Cargill Inc.	No			X
102412	Roy Ralph	Petro-Canada	No			X
10929	John Reynolds	Shell Global Solutions (US) Inc.	Yes	X		
135169	Michael Richardson	International Paper	No	X		
102879	James Riley	ChevronTexaco ERTC	No			X
77480	Clinton Schulz	Citgo Refining & Chemical Co.	No			X

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138135	Michael Shallis	Longview Inspection	No		X
101360	Marilyn Shores	Sunoco Logistics	No		X
78185	Kelly Smith	ConocoPhillips	No	X	
126019	Larry Speaks	Mass Technology Corporation	No	X	
73144	Kenneth Tam		Yes	X	
134325	Donald Thain	Shell Global Solutions (US) Inc.	No		X
137459	Roland Valdes	Inspection Solutions, LLC	No	X	
145034	Leith Watkins	Explorer Pipeline Company	No		X
134558	John Watson	The Dow Chemical Company	No		X
135619	Steven Wells	Capstone Engineering Services, Inc.	No	X	
132209	Richard Whipple	Fluor Daniel, Inc.	No	X	

	Affirmative	Negative	Abstain	Did Not Vote
Balloting Totals:	32	6	2	29

Total Responses:	40	
Total Ballots:	69	
Response Rate :	46%	Must be > 50%
Approval Rate:	84%	Must be > 67%
Consensus:	NO	

API Template for Ballot Comments and Resolution

Ballot ID: 246	Date: September 1, 2003	Document: 52-03: 653-171
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(1)	(2)	(3)	(4)	(5)	(6)	(7)
Voter/ Commenter	Company	Section No. (e.g. 3.1)	Type of comment	Proposed Change	Comment (justification for change)	Comment Resolution
Kenneth Tam			Technical		This is an editorial comment. I don't believe we need a title for 6.4.1.3 because we do not have title for 6.4.1.1 and 6.4.1.2.	
Philip Myers	ChevronTexaco Corporation		Technical	Limit scope to single bottom tanks without RPBs.	Forcing quantification of tank bottom corrosion rates generically to all tanks is not justified since a significant population of tanks uses RPBs. If they have them the under the principles of risk management no corrosion underside monitoring may be warranted. I will change my vote if you limit the scope to single bottom tanks without RPBs.	
Bruce Roberts	Shell Pipeline Co. LP		Technical	In 6.4.1.2, add after the 2nd sentence: "If an out-of-service inspection is chosen, the bottom shall be inspected for underside corrosion with a method by which the authorized inspector can locate and quantify corrosion. However, if the bottom will be removed before placing the tank in service, inspection of the bottom is not required."	There appears to be a problem with paragraph numbering, etc. Suggest simplifying this as noted below.	
Randy Kissell	TGB Partnership		Technical	If we decide to go the route of requiring measurement of underside corrosion, I think we need to word this more directly. I suggest rewording to: 6.4.1.3 Out-of-Service Bottom Inspection 6.4.1.3.1 If an out-of-service inspection is chosen, the bottom shall be inspected using a method that locates and quantifies underside corrosion. The authorized inspector or storage tank engineer may waive this inspection.		
Robert Dolejs	UOP LLC		Technical		No explanation of what "justified reasons" are is offered.	
Robert Elliott	Alyeska Pipeline Service Company		Other		Affirmative Comment: What does "Moderate" mean in Business Impact? We going to save money or is it going to cost more money?	

NOTE Columns 1, 2, 4, 6 are compulsory.
API electronic balloting commenting template/version 2002-12

API Template for Ballot Comments and Resolution

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(1)	(2)	(3)	(4)	(5)	(6)	(7)
Voter/ Commenter	Company	Section No. (e.g. 3.1)	Type of comment	Proposed Change	Comment (justification for change)	Comment Resolution
Douglas Miller	Chicago Bridge & Iron Company (CBI)		Editorial	1) Replace “inspect”, “inspected” and “inspection” with “examine”, “examined” and “examination”.		
Mark Geisenhoff	Flint Hills Resource Group, LP	6.4.1.2	Technical	<p>6.4.1.2 All tanks shall have a formal internal inspection conducted at the intervals defined by 6.4.2 or 6.4.3. The authorized inspector who is responsible for evaluation of a tank must conduct a visual inspection and assure the quality and completeness of the NDE results. Inspection of floor should use technology that can quantify both top and bottom side corrosion of both a localized and general nature.</p> <p>6.4.1.3 If the internal inspection is required solely for the purpose of determining the condition and integrity of the tank bottom, the internal inspection may be accomplished with the tank in-service utilizing various ultrasonic robotic thickness measurement and other on-stream inspection methods capable of assessing the thickness of the tank bottom, in combination with methods capable of assessing tank bottom integrity as described in 4.4.1. Electromagnetic methods may be used to supplement the on-stream ultrasonic inspection. If an in-service inspection is selected, the data and information collected shall be sufficient to evaluate the thickness, corrosion rate, and integrity of the tank bottom and establish the internal inspection interval, based on tank bottom thickness, corrosion rate, and integrity, utilizing the methods included in this standard. An individual, knowledgeable and experienced in relevant inspection methodologies, and the authorized inspector who is responsible for evaluation of a tank must assure the quality and completeness of the in-service NDE results.</p>	In general, we agree that the wording around inspection of bottom side corrosion should be strengthened. Section 6.4.1.2 currently discusses both formal internal inspections and alternative in-service inspections. Creating another subsection for formal internal inspections after this section would be confusing. We propose for subsection 6.4.1.2 to reference only formal internal inspections and adding a new section 6.4.1.3 for alternate in-service inspections.	

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Voter/ Commenter	Company	Section No. (e.g. 3.1)	Type of comment	Proposed Change	Comment (justification for change)	Comment Resolution
Earl Crochet	Kinder Morgan	6.4.1.3	Technical	6.4.1.3 Out-of-Service Bottom Inspection 6.4.1.3.1 If an out-of-service inspection is chosen, the existing bottom must be inspected for underside corrosion with a method by which the authorized inspector can locate and quantify corrosion. If it is decided to replace the existing bottom before the inspection, or if the authorized inspector or storage tank engineer waives the inspection in writing, the inspection specified in this paragraph is not required.	Removed term "Current" and clarified that the AI or Storage Tank Engineer can waive bottom inspection, for any reason, as long as it is in writing.	
John Reynolds	Shell Global Solutions (US) Inc.	6.4.1.3	Technical	Delete the word "current" in the title and in all locations in 6.4.1.3.1, as it just adds wordiness and is somewhat clumsy. At the end of the first sentence in 6.4.1.3.1, add "e.g. MFL or UT scanning techniques".	Modify as indicated to avoid the word "current" and to provide examples of the most common means of detecting and quantifying underside corrosion. Otherwise you will get some uninformed inspectors that are still trying to do this with spot UT measurements or the sound of hammer testing.	
John Lieb	Tank Industry Consultants, Inc.	6.4.1.3	Technical		1) Why is it necessary to introduce the terminology "out-of-service inspection"? Why not just call it "internal inspection", since inspection interval requirements are based on this terminology. 2) The proposed placement of this new requirement is inconsistent with the format of the standard and should be reconsidered. 3)"Must" should be "shall" in the first sentence. "Quantify" should be "evaluate" in the first sentence. My negative is based primarily on item 1 above and the opinion that this item needs significant additional work.	

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Voter/ Commenter	Company	Section No. (e.g. 3.1)	Type of comment	Proposed Change	Comment (justification for change)	Comment Resolution
Robert Elliott	Alyeska Pipeline Service Company	6.4.1.3.1	Technical		I'm uncomfortable with the wording "locate". I still contend that a rigorous and proper statistical analysis will adequately signal the end of the bottom's life. If an owner / operator wants to go beyond that life, then he/she would have to located and fix corrosion.	
Robert Elliott	Alyeska Pipeline Service Company	6.4.1.3.1	Technical		I don't understand the 2nd sentence in 6.4.1.3.1.	
Laurence Foster	Marathon Ashland Petroleum LLC	6.4.1.3.1	Technical	Leave as-is.	If adopted, this would eliminate UT statistical inspections as an option. If the statistics show the bottom thickness is satisfactory to run to the next inspection, there is no reason to locate all the corrosion areas.	
Nelson Acosta	HMT Inspection	6.4.1.3.1	Editorial	In the second sentence, change to read from "If it is decided to replace the current bottom before the current bottom inspection..." to read "If it is decided to replace the current bottom before inspection,...".		
Richard Nichols	Roddey Engineering Services, Inc.	Entire ballot	Other		I am abstaining because I do not see a great need for this addition.	