



CIA Inspection Inc.

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The Profiler

A NEWSLETTER OF INFORMATION FOR COKE DRUM OPERATORS

CIA Inspection - The Coke Drum Inspection People

CIA Inspection has been providing inspection services for coke drums throughout the world for almost nine years. We have scanned in excess of 300 vessels of varying metallurgy and age. The resulting coke drum database is second to none. Whether the vessels are brand new or 30 years old, by using CIA to perform the benchmark scan you are getting more than just a laser and video scan. We consider the relationship with our clients to be almost partnership in nature where both parties are dedicated to improving the reliability of the DCU.

When you contract with CIA you are investing in a company whose only business is coke drum inspection. Our dedication and level of service set the standards to which all others try to meet. The information we provide will give your operators, maintenance and production people the confidence they need in operating the DCU both safely and reliably.

Visual inspection - more than just "a pretty picture"

A significant part of CIA's service is the remote visual inspection. While we do not consider ourselves a "crack detection" service, we are confident that if crack type indications can be visualized, then our equipment and the techniques employed will identify and document the anomaly.

Depending on the cleanliness of the coke drum, we are confident in our visual interpretive abilities. As with all inspection work, the cleaner the vessel, the better overall inspection (both laser and video). We ask all our clients to pay particular attention to the "cleaning efforts" of the drum prior to our inspection.

Once a feature has been identified visually, it is important to pinpoint the feature's location on the laser scan map. Because the same referencing system is used for both the laser and the video scan, a one-to-one relationship between the two exists. CIA is unique in that the elevation and azimuth are permanently recorded on the videotape and corresponds directly with the coordinates of the laser scan.

Our staff API.510 inspector in conjunction with the unit inspector evaluate indications found during the remote video inspection. Any relevant indications of concern are brought to the attention of the refinery inspection/engineering contact.

This type of inspection is not meant to replace full out of service visual inspection or other NDE techniques but rather, work in conjunction with these services to apply localized and specific techniques to suspect areas. The ability to make selective recommendations on trouble areas comes through years of experience of linking visual and/or scan indications with ultimate failure modes. As part of our service, these failure prone areas are identified and prioritized through a combination of visual and scan interpretative capabilities that only CIA has developed.

Using the results of our service our clients are able to make cost-effective decisions on the allocation of limited and costly inspection and maintenance resources.

UPCOMING API CONFERENCE



The next API conference will be held from September 23 to 26, 2001 in Los Angeles, California.

Please join us at the Monday night reception as we co-host the evening. Drop by our table and we'll fill you in on the latest from the world of coke drum inspections!!!

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CIA Expands its Market to the Far East



Some of our new friends in South Korea

CIA Inspection continues to expand its international market for coke drum inspection. Pictured above are some new colleagues from the Hyundai Refinery near Chungnam City in South Korea. After completing the job, a side trip to Beijing to inspect the Great Wall

proved to be very interesting as we found some great sites to explore along with a whole new source of Coke Drums to inspect. We gathered some tid-bits of information that we thought you might find interesting.

- Area:** 9,596,960 sq km (mainland)
- Population:** 1.2 billion (mainland)
- Capital city:** Beijing (pop 12.6 million)
- People:** Han Chinese (93%), plus Mongol, Zhuang, Manchu and Uighur minorities
- Languages:** *Putonghua* (Beijing Mandarin dialect), Cantonese
- Religion:** Officially atheist; Confucianism, Buddhism, Taoism; Muslim (14 million), Christian (7 million)
- Government:** Communist republic
- Head of State:** Jiang Zemin



Rick & Judy Clark – “The Great Wall” of China is in the background.

Coking Corner - The Internet, Best Practices Seminars and Coke Drums - where to find the info...

In the age of the “information super-highway”, even the coking industry is using the internet to help promote safety and reliability.

Unfortunately, if you don’t know where to look you can spend a lot of time “surfing the web” to find the information you really need.

CIA’s website is one source of knowledge. Our “Technical Papers” link contains hundreds of papers associated with delayed coke drums. Just go to our website at www.cia-inspection.com and you’ll find the link.



Gary & Paul in Houston, May 16th

Another excellent site for the delayed coking industry is “www.coking.com” or as Gary Pitman and Paul Orłowski, the founders of the site call the company “the Bottom of the Barrel.”

The mission of the website dedicated solely to the delayed coking industry is:

“We want you to be safe and reliable. We’re bringing together the Delayed Coker operator and reli-

ability technicians, engineers, supervisors and vendors to learn from each other’s expertise and improve productivity.”

The purpose of the web page is to give Delayed Coking facilities an opportunity to communicate with each other. Take a look at www.coking.com on the Discussion link. People contribute from around the world. It is an excellent source to pose your own question, or answer someone else’s.

Bottom of the Barrel added to their list of successes last Spring by holding their first annual “Coking.com Best Practices Seminar” on May 15th in Houston, TX.



Jacqueline Cameron of CIA Inspection presented on CIA’s Coke Drum Reliability Program

Because cokers are maintenance intensive and since they can be very dangerous, there’s lots of motivation for innovation and safety enhancements. Seminars are an important venue for hearing from

industry experts and gathering those ideas. Bottom of the Barrel took that success and expanded on it by including everyone. The people in the trenches who do the everyday work have a lot to contribute too. One of the key components of the seminar became the breakout groups. This set the stage for beginning to develop Best Practices for the Coker.

The second annual Best Practices Seminar will be held in April, 2002 in Houston. The agenda will focus on heaters, coke drums and process. For more information contact Paul Orłowski - paul@coking.com (360 966-7251) or Gary Pitman - gary@coking.com, garys_view@yahoo.com (360 966-7816). CIA also has a vendor link on the site.

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