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**Transportation Compliance Associates, Inc.**  
**2012**  
**Developing Partnerships in Compliance Safety**

**July**



***Happy Fourth of July!***



***From the Team at  
Transportation Compliance  
Associates***

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### ***A Message from Our President***

Dear Friends,

I am thankful for the opportunity to extend a happy Fourth of July to you. As we celebrate the birth of our nation, let us remember our commitment to liberty, freedom, and independence. When I think about how far our nation has come in these past 236 years, I can't help but think of how far we have come here at TCA. Over the past 18 months, we have grown tremendously and welcomed the opportunity to develop positive relationships in compliance safety.

This issue of our newsletter provides you an inside look at safety in light of the upcoming holiday. We have all you need to know about fireworks and explosives. It is fitting because here at TCA, what we do *is* explosive. We aim to offer the best and brightest in all of our services. Whether in training, data management, or consultation, we let our skillset shine and leave our clients in awe.

On behalf of all of us here at TCA, we wish you a safe and happy Fourth of July.

Your Partner in Compliance Safety,

*Karen Alston*

[www.LearnHazmat.com](http://www.LearnHazmat.com)

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### ***Industry Insight***

**One of the biggest attractions on the Fourth of July is the celebration with fireworks...**

By: Wayne Snyder, Director of Training Services

The Department of Transportation (DOT) defines Fireworks as Class 1 Explosives with four possible Divisions (1.1G, 1.2G, 1.3G, 1.4G, 1.4S).



The Significant of the Hazard Divisions:

Division 1.1 – Consists of explosives that have a mass explosion hazard.

Division 1.2 – Consists of explosives that have a projection hazard, but not a mass explosion hazard.

Division 1.3 – Consists of explosives that have a fire hazard and either a minor blast hazard or a minor projection hazard.

Division 1.4 – Consists of explosives that present a minor explosion hazard; the explosive effects are largely confined to the package and no projection of fragments of appreciable size.



Other Hazard Divisions:

Division 1.5 – Consists of very insensitive explosives. This division is comprised of substances which have a mass explosion hazard but are not so insensitive that there is very little probability of initiation or transition from burning to detonation under normal conditions of transport.

Division 1.6 – Consists of extremely insensitive articles which do not have a mass explosive hazard. This division is comprised of articles which contain only extremely insensitive detonating substances and those demonstrating a negligible probability of accidental initiation or propagation.

Compatibility Groups:

"A" – Primary explosive substance

"B" – Articles containing a primary explosive substance and not containing two or more effective protective features; some articles, such as detonators for blasting, detonator assembled for blasting and primers, and cap-type are included

"C" – Propellant explosive substance or other deflagrating explosive substance or article

"D" – Secondary detonating explosive substance or black powder or article containing a secondary detonating explosive substance

"E" Article containing a secondary detonating explosive substance, without means of initiation, with a propelling charge

"F" – Article containing a secondary detonating explosive substance, with its means of initiation, with a propelling charge

"G" – Pyrotechnic substance or article containing a pyrotechnic substance, or article containing both an explosive substance and an illuminating, incendiary, tear-producing or smoke-producing substance

"H" – Article containing both explosive substance and white phosphorus

"J" – Article containing both an explosive substance and a flammable liquid or gel

"K" – Article containing both an explosive substance and a flammable liquid or gel

"L" – Explosive substance or article containing an explosive substance and presenting a special risk (due to water-activation or presence of hypergolic liquids, phosphides, or phosphor)

"N" – Article containing only an extremely insensitive detonating substance

"S" – Substance or article so packed or designed that any hazardous effects arising from accidental functioning are limited to the extent that they do not significantly hinder or prohibit fire fighting or other emergency response

An explosive may not be packed in the same outside packaging with any other material that could, under normal conditions of transportation, adversely affect the explosive or its packaging

Hardware necessary for assembly of explosive articles at the point-of-use may be packed in the same outside packaging with the explosive articles. The hardware must be securely packed in a separate inside packaging. Sufficient cushioning materials must be used to ensure that all inside packaging are securely packed in the outside packaging.

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## Cheap Thrills, Toxic Consequences

### Do you consider yourself environmentally conscious and responsible?

By: Wayne Snyder, Director of Training Services

You might not know that all those colorful explosives used to celebrate special occasions (firecrackers, skyrockets, Roman candles and yes, even those so-called "harmless" sparklers) pose serious environmental and health dangers from heavy metals and other toxic firework fallout.



**Air Pollution** – The smoke from fireworks consists mainly of fine toxic dusts (particulate matter) that can easily enter the lungs. This represents a real threat for people with asthma or multiple chemical sensitivity (MCS).

Smoke from fireworks combustion may contain a mixture of sulfur-coal compounds, traces of heavy metals, and other toxic chemicals or gases. The combustion cloud can contain harmful fumes such as ozone, sulfur dioxide, and nitric oxide. Smoke from consumer fireworks is of most concern because they are released at a low level which makes inhalation more likely in comparison to professional displays.

**Water Pollution** – Firework fallout can contaminate water supplies, and residue on the ground

can be carried away by rain and end up in lakes, rivers, and oceans.

Noise Pollution – Fireworks can be loud and the vibrations can travel far. Noise at 85 decibels or higher can damage hearing.

Fireworks are responsible for starting an estimated 32,000 reported fires per year; including 2,700 building and vehicle fires. More fires are reported on the Fourth of July than any other day of the year.

For the color effects of fireworks, toxic heavy metals like Barium, Aluminum, Lead, Mercury salts, Copper, and Strontium can be used in firework composition. Outdated heavy metals that have been used in the past include Rubidium and Cadmium. Some toxic elements (like Lead compounds, Chlorates, and Mercury as Mercurous Chloride) are supposedly no longer used in fireworks. However, some firework chemical outlets still sell some of those ingredients. These ingredients can still be seen in pyrotechnic chemical lists and homemade firework makers.

## ***Employee Spotlight***

Collectively, TCA's certified instructors have more than 300 years of hands-on industry experience. Our professionals have distinguished reputations in the industry. This makes us unique and allows us to customize our services to meet the needs of our clients. Meet Senior Transportation Lead, **Amanda Outlaw-Alvarez**.

### ***Q: In what capacity do you work at TCA?***

A: I originally started out as a trainer but I now serve as Transportation Lead. I specialize in monitoring tank car and tank truck transload operations and auditing.

### ***Q: How has your background prepared you?***

A: I spent 17 years active duty in the United States Army dealing with hazardous materials. During that time, I completed two tours in Iraq and one in Afghanistan. I was heavily involved in crude oil trucking.

### ***Q : What project are you currently overseeing at TCA?***

A: TCA was called on to help with a transloading project in the western region of the United States. We monitor the process, offer audits, and keep track of training records. 24 hours a day, 7 days a week, our client transports crude oil in its purest form from tank trucks to tank cars. They need us to make sure they are compliant. I work on the reservation from 7 o'clock AM until 7 o'clock PM when my fellow TCA partner comes in to oversee operations through the night.

### ***Q : How does TCA help others achieve safety compliance?***

A: I have been able to see where our client has, or might, fall through the cracks. I've offered my knowledge and experience and have even been able to train others. To know



Amanda Outlaw-Alvarez, experienced veteran and Senior Transportation Lead at TCA, is monitoring transload operations in the West throughout the summer months.

have even been able to train others. To know that our client entrusted us to come out West and offer them our honest opinion about what they are doing wrong and offer solutions for exactly what they can do improve operations gives me great satisfaction.

**Q: What do you like most about TCA?**

A: Three words, I love it. Working with Karen and Mike has been great. They are the best people in this industry to work for and with. Karen and I can especially relate to one another as veterans. Everyone is approachable. There's always somebody at TCA who can answer a question or provide their expertise.

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### **TCA Meets IRCE**

*By: Jack Alston,  
Sales Manager*

A major market for our company is e-retailers. In June, we had the pleasure of meeting hundreds of "e-tailers" at the IRCE show in Chicago and discussed the challenges they face with regulatory compliance. The show boasted 7,500 visitors during the three day exhibition and we believe the show hit the mark.



Interestingly, TCA was the only exhibitor at IRCE who could address the concerns of regulatory compliance and hazardous materials shipping for e-retailers. Keeping in mind that most, if not all, e-retailers are purveying products in every country on the planet; consequently, our booth was extremely active. In fact, we had groups of people from countries who would find bi-lingual countrymen who could interpret our conversation and help tell our story!

Our experience with internet sales and marketing entities demonstrates that experienced hazmat talent is just not available for the established and new start-up e-retailers. This factor alone prompted our development of

### **TCA's Professional Solutions**

- Rail Services
- Training & Certification
- Compliance Consultation
- Data Management
- Compliance Application
- Fleet Management
- Fleet Safety
- Accident/Incident Investigation
- Rail Citation
- Investigation Mitigation
- Rail Switch Safety
- High & Wide Loads
- Rail/Truck Transfer Site Development
- Regulatory Compliance Audits & Diligence Assessments
- MSDS/ SDS Authoring
- GHS & OSHA Compliance Standardization
- MSDS Review & Revitalization

products and services specifically designed to make managing regulatory compliance in shipping easy and fool-proof through our client's supply chain.

Our proprietary in-house systems allows us to vet entire product lines and product catalogs for our clients providing complete up to date product compliance in all modes of shipping. Of course, a trademark of TCA is our ability to customize these products to suit the needs of our clients, and is applicable to any industry.

### **Case Study: JGB Enterprises**

*By: Jack Alston, Sales Manager*

Since 1977, JGB Enterprises has been a leading supplier of hoses and hose assemblies for commercial and military applications throughout the world. JGB provides solutions for industrial, hydraulic, fire protection, food, petroleum, oilfield, snowmaking, paint spray, concrete pumping, aircraft refueling and many other industries. The company specializes in the supply of aviation refueling hose to major truck refueling operations, OEM manufacturers, and equipment dealers throughout the world. Headquartered in Liverpool, New York, JGB carries a 10 million dollar inventory.

#### **Background:**

As a DoD contractor and commercial supplier to the industry, compliance is critical for JGB's business and customers.

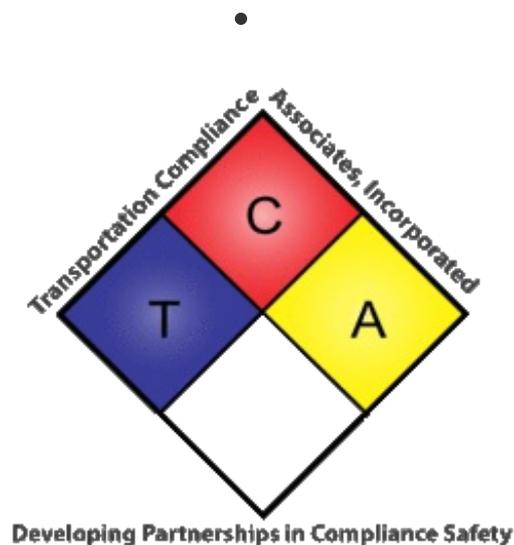
When it came time for certified hazmat training in DOT, IATA, and IMDG, JGB looked for a new solution to DOT compliance training. After researching and evaluating the many training programs offered in regulatory compliance, the decision to go with Transportation Compliance Associates was clear – the right solution, at the right price, at the right time!

#### **Solution:**

TCA provided certified training compliance programs in all modes of transportation, offered customized training to match the hazmat materials and operations of their company, and will partner with JGB for the next three years during the DOT certification period to address any questions or concerns regarding regulatory compliance.



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JGB Enterprises, Inc. is outstanding in their field and we ask our clients to visit their website at [www.jgbhose.com](http://www.jgbhose.com). Got Hose? Check out JGB!

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