

Nitrocision® News

Nitrocision, LLC

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CE-Certified Skid Headed to France

The NitroJet N4 — the first CE mark certified skid — is headed to France. The skid, which will be sold in Europe, received CE certification in September.

CE marking is a manufacturer's declaration that demonstrates compliance with applicable European Union directives. For most products sold in the European market, the CE marking is mandatory.

Nitrocision engineers worked for over a year to make the necessary changes to the design of the system before it could be tested by TÜV-Rheinland.

"The NitroJet N4 went through six full days of testing by TUV — sometimes around the clock," said Howard Hume, Nitrocision's Chief Technology Officer. "We now have completed our most advanced model to date.

"Thanks are definitely due to the large cross-section of Nitrocision staff who made this happen. This is a joint achievement," he said.

The first skid is headed for the Air Liquide R&D center in Saint-Ouen-l'Aumône in the Val-d'Oise region just north of Paris.

Already, the second CE skid is in production and scheduled to be shipped to Europe after the first of the year.

"Adding a CE mark skid to our product line is a critical



step in expanding our market in Europe," said Ron Warnecke, Nitrocision president and CEO. "We now have a system that is certified to work on the European electrical system allowing us to more aggressively pursue that region."

Nitrocision to assist in nuclear waste cleanup

In May 2008, the U.S. Department of Energy (DOE) awarded a \$7.1 billion contract to Washington River Protection Solutions, LLC to store, retrieve and treat Hanford tank waste and close the tank farm. Nitrocision is one of the companies on the team.

At Hanford, the team will grind and remove nuclear waste from 177 underground waste tanks. Approximately 70 of the large tanks are known to have leaked so

traditional slurry techniques can not be used to remove the waste.

The NitroJet technology will be used to grind the waste material inside the tanks prior to removal. After the waste is removed, Nitrocision will clean the interior of the tanks before they considered to be closed.



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Milestones

Employees celebrating anniversary milestones between June and September:



Bryan Gillihan, 1 year

Paula St. Martin, 1 year

Kathy Buck, 3 years

Gary Palmer, 7 years

New Faces

Laura King has joined Nitrocision as the company's Chief Financial Officer. Laura will be taking over the business management functions of the corporate office as well as overseeing the financial operations.

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Nitrocision performs more work on space hardware

Nitrocision has completed work for United Space Alliance (USA) on 50 pieces of flight hardware, called Aft Skirt Shoes. United Space Alliance is the prime shuttle processing contractor for the National Aeronautics and Space Administration (NASA).

The shoes are used to support the aft skirts of the space shuttle when it is sitting on the launch pad. An adhesive coating is applied to the shoes to eliminate gaps between the shoe and the aft skirt. Nitrocision was hired to remove that protective coating so the shoes could be reused. If the shoes could not be cleaned, USA would have been required to qualify a new shim material.

"We were able to successfully remove the adhesive coating from the shoes," said Don Noah, Nitrocision Services Manager. "Our ability to remove the material saved USA up to one year in qualification schedule time."



David Hathaway, Nitrocision Service Technician, removes the adhesive coating from flight hardware.

Nitrocision provided USA with enough hardware to complete the space shuttle program and the initial testing of the first stage of the Aries IV program while they qualify a new product.

This is the third time Nitrocision has provided support to USA and NASA's space Shuttle Program. In 2004 and 2006, Nitrocision removed the a protective coating from a total of 64 booster separation motors on 16 aft skirt assemblies. This project was originally part of NASA's investigation in to the accident involving Space Shuttle Columbia.

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For Nitrocision, the tank cleanup project represents a 10 year contract and an estimated value of \$25 million.

Nitrocision will also be installing a NitroJet system at the West Valley Demonstration Project outside Buffalo, New York.

At West Valley, the system will be used to decontaminate four nuclear fuel hot cells. It includes customizing tooling for robotic deployment in the hot cells, vacuum capture of the contamination and support services. Additional work planned at the site includes waste storage tank cleanout, nuclear waste size reduction and nuclear waste shipping container decontamination.

The West Valley contract is a four year contract with a value of \$1.1 million.

"Nuclear cleanup is a growing market segment for Nitrocision," said Ron Warnecke, president and CEO. "As cleanup efforts move forward, the benefits of the NitroJet technology offer an attractive alternative to traditional techniques that created large secondary waste streams."

The Giant Air Liquide Takes a Lesson from an SME

French industrial gas group is opening up new markets thanks to the partnership it established with a small American company

This article is translated and reprinted with permission from *L'Expansion* magazine.

Sometimes innovation emerges from a fortuitous meeting before taking root. Such is the case of the NitroJet project, a very high pressure cement cleaning process developed by Nitrocision, a small American company, in collaboration with Air Liquide.

The adventure began in 2007 when a salesman from the French industrial gas giant learned that a company manufacturing machines using liquid nitrogen had approached Adielor, the regional development agency that promote the establishment of foreign companies in Lorraine. This employee quickly informed Bernard Jamonet, the director of Air Liquide.

"We train our researchers, our engineers and our commercial reps to cultivate the reflex to scope out external paths concerning



Ron Warnecke accepts the Innovation Award with Francois Darchis from Air Liquide.

innovation," emphasizes Martha Heitzmann, R&D director of the group.

Bernard Jamonet contacted the company in Idaho. It was a complete surprise. This small company used liquid nitrogen at very high pressures (3000 bars) to cut materials and to clean cement, notably in nuclear

stations. This process greatly reduces the production of radioactive residues compared to traditional cleaning methods. "We had never thought of this type of application," confides Bernard Jamonet.

In December of 2007, a team of Air Liquide experts set out to visit Nitrocision in Idaho Falls, Idaho. Two months later, an agreement was reached, and in May of 2007 a pump unit weighing 4 tons made by Nitrocision was installed at the Air Liquide R&D center in Saint-Ouen -l'Aumône in the Val-d'Oise region.

"It was important to develop a win-win partnership with this SME so that it didn't feel sucked up by a major world company. Nitrocision remains the owner of the technology. We have shared our savoir-faire in order to introduce improvements in this innovation and we are opening the door of the European markets to them", said Bernard Jamonet.



Ron Warnecke attended the award ceremony where Nitrocision was awarded an innovation award for its NitroJet system and partnership with Air Liquide. The award was received in France in August.

In The News

Nitrocision LLC has a new look on the World Wide Web. As part of the company's marketing objectives, the website has been redesigned.

"Our new web page takes the next step in changing our company image from one of development to one of production and sales," said Stacey Francis, Nitrocision marketing communications manager. "This new page spotlights our core business areas—sales and service."

Nitrocision's website generates numerous leads for the company and is just one element in the marketing strategy.

www.nitrocision.com

The screenshot shows the Nitrocision website with a dark blue header. The main navigation menu includes NitroJet, Cutting, Cleaning, Service, Media Center, and Contact. The page title is "Liquid Nitrogen Cutting and Cleaning Complete Industrial-Grade Solutions".

Cutting

Superior cutting for nearly any material from soft plastics, food products and upholstery to hardened steel, composites and ceramics.

We offer:

- Scalable pressure range
- Dry process
- Precision application tooling
- Versatile, multi-function tooling

We offer robotic control integration for precision cutting. Cutting speed and nitrogen pressure are a function of the material being cut.

Industrial Cleaning

Superior cleaning and coating removal in a variety of applications eliminating secondary waste streams.

We offer:

- Mobile service unit
- Fixed facility installation or turnkey portable system
- Flexible Tooling

In The Spotlight

Nitrocision's NitroJet 8000 Hits the Road
Nitrocision delivered the first NitroJet 8000 system to Conco Systems. This fully mobile system will be put to work in the tube cleaning industry. (more...)

Examples

Nitrocision[®]
The world leader in liquid nitrogen-based cutting and cleaning technology.

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