

Nitrocision® News

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Newmont heat exchanger cleanout completed

The cleaning of the heat exchanger at the Newmont Mining facility in Carlin, Nevada is completed for another year.

JD Atkinson, Erik Strayer and Dave Snedigar, perform the annual cleanout in June.



The rotating nozzle is used to clean the tubes of the heat exchanger.

This is the fourth year Nitrocision, LLC has performed the cleaning for Newmont Mines. The NitroJet system has proven to save the mining company millions of dollars annually by cleaning the tubes faster than traditional methods, thereby reducing the downtime at the facility.

The cleaning of the heat exchangers took three days and while they were there, the crew decontaminated an old heat exchanger that was being decommissioned and removed from the facility. Feedback from Newmont showed that the old heat exchanger was clean enough to allow it to be recycled as lead instead of disposed of as



JD Atkinson stand on top of the heat exchanger unit. In the photo, the line of clean vs. dirty is clearly visible.

mercury-contaminated lead, which was also a big savings.

"Newmont is leading the industry in heat exchanger cleanout," said JD Atkinson. "By performing this annual cleanout, they are ensuring they do not exceed the mercury emission levels set by the EPA."

NitroJet 6000 installed in Europe

The installation of a NitroJet system at the Air Liquide Centre Technique des Activités du Sondage facility in Saint Ouen L'Amone was completed at the end of May.

JD Atkinson and Thierry Debionne spent a week at the facility getting the equipment installed and conducting training for Air Liquide staff.

Atkinson spent time training Jaques Quintard, the primary operator of the skid for Air

Liquide, on the set up of the equipment and maintenance.

"The language barrier wasn't a big issue", said Atkinson. "Because I'm a mechanic and Jaques is a mechanic, we speak the same language through pictures."

Air Liquide will be testing the NitroJet at their welding research facility. This facility is focused on cutting and welding prep.

Under an agreement with Air Liquide, Debionne, Sales and

Marketing Director for Nitrocision Europe, will use the system for demonstrations to potential customers in Europe.

While in France, Atkinson demonstrated the single jet nozzle as well as the use of entrainment material to perform prep work prior to welding.

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Milestones

Employees celebrating anniversary milestones between April and June:



Don Duncan - 5 years

Eileen Braden - 4 years

Howard Hume - 4 years

JD Atkinson - 2 years

Don Noah - 2 years

Welcome to **Bryan Gillihan**, our newest employee. Gillihan will be helping with services and manufacturing.

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Nitrocision hits the road

Demonstrations planned throughout Midwest and East coast

A crew from Nitrocision hit the road to showcase the NitroJet capabilities to numerous customers.

The road trip has been many months in the making and the skid is loaded and headed east.

Don Noah and **John Rigby** put together a series of demonstrations throughout the Midwest and along the East coast. Demonstrations will be conducted at:

- Caterpillar, Indiana
- Praxair, Indiana
- Superior Trim, Ohio
- Crucible, Pennsylvania

- Penn State, Pennsylvania
- New Jersey Port Authority, New Jersey
- Hamilton Sundstrand, Connecticut
- Pratt and Whitney, Connecticut
- Halliburton, Louisiana
- Ohlstead, Texas
- Conco, Texas

Dave Hathaway is driving the truck and manning the NitroJet. Hathaway has worked part-time for Nitrocision since 2001 and spent a lot of time running the equipment during the work for NASA.

Numerous demos in Europe

Numerous demonstrations have been conducted at the Air Liquide R&D facility and more are planned in the upcoming weeks.

Demonstrations have been performed for:

- STMI, a subsidiary of AREVA who is a global player in nuclear activities worldwide, dealing with decontamination, dismantlement and nuclear maintenance
- MTEC, an engineering company involved in Formula 1 car racing

- Technilor, a service company involved in nuclear, oil, naval and defense industries in surface treatment and decontamination
- Veolia, a company that specializes in industrial cleaning
- Arno, a company specializing in ship repair

Thierry Debionne says the testing is going very well and may lead to further testing and qualification of the system for use in various industries.

New facility expands manufacturing capabilities



Nitrocision has moved! The operations from Heyrend Way and the ProShop were consolidated into a new location on Pancheri Drive.

The new shop is located at 891 Pancheri Drive in Idaho Falls. It features nearly 8,000 square feet of shop space and 500 square feet of office space as well as a pad and storage area.

"As Nitrocision gears up to begin manufacturing additional skids, I felt it was important to co-locate our operation," said **Ron Warnecke**, President and CEO. "The new facility offers us the opportunity to bring all manufacturing components under one roof and provides us with room to expand as the company grows."

New carpeting, tile and paint, as well as some minor construction is nearly completed at the new facility. Now the hard work of putting stuff away and getting the shop organized is underway.

The new facility allows manufacturing capabilities to be streamlined by moving all aspects to one location, reducing downtime and transportation issues in moving a skid between two locations. It also provides more area to perform demonstration activities.

The location of the new shop may be familiar to some who worked there when the liquid nitrogen technology was owned by Zawtech.

Cleaning parts for Caterpillar

Epoxy and oily residue was successfully removed from various engine parts sent to Nitrocision by Caterpillar.

Caterpillar found out about the liquid nitrogen technology through the web page and contacted **Ron Warnecke** about using it to remove various materials from old equipment for their refurbishing division.

The NitroJet performed very well on the various parts that were received and additional testing is being done on more parts.

Caterpillar was added as a stop on the road trip so they can see the machine first hand and get a better understanding of how the technology might tie into their remanufacturing operation.

Cat Reman is putting a lot of attention into the refurbishing market because fewer resources are consumed in remanufacturing components than in building complete new ones. Cat is looking to implement the best cleaning and salvage technologies into their operation to extend the lifetime of the components being cleaned.



The NitroJet performed very well in removing epoxy from engine covers as seen in these before and after photos.

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**The World Leader in
Liquid Nitrogen
Cutting and Cleaning.**



Nitrocision employee, JD Atkinson, explains the NitroJet system to Clifford Roth, John Thomas, Jim Hoskins, Zhou Lin and Eddie Sechrest.

Visitors from China and Kansas spent two days with Nitrocision representatives in an effort to understand the technology and explore the possibility of marketing the system in China and Asia.



Wang Ping and Ron Warnecke discuss specifics of the NitroJet system.

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