



COMPANY PROFILE

As one of the world's largest publicly traded energy providers and chemical manufacturers, ExxonMobil develops and applies next-generation technologies to help safely and responsibly meet the world's growing needs for energy and high-quality chemical products.


OBJECTIVE

ExxonMobil, a global refinery, was stuck looking for solutions to ensure they complied to the latest OSHA noise exposure regulations and needed to lower the overall dB level while abrasive blasting. Current OSHA regulations only allow operators to blast for a limited time at standard noise exposure limits.

WHY EXXONMOBIL CHOSE SNAKEBITE XQ


The impact of implementing this time restriction would have meant blasters would have to cut back their daily blasting hours from 6.5 to 5, which would have blown out job timelines, or drastically increase the cost of completing the projects with more workers.


SnakeBite XQ is the world's safest and quietest blast nozzle. Equivalent to up to 75% quieter than standard nozzles, SnakeBite XQ reduces noise by up to 16 dBA.

 **Generate considerable savings in production costs**

 **Minimize overall dB levels**

 **Increase production capacity**

 **Ability to complete original project deadlines on-time**

 **Achieve specified surface cleanliness & roughness standards**

 **Comply with OSHA regulations**



"The implication of the new regulations would have drastically blown out timelines. I was standing outside the tank and all I could hear was the compressor. I peeked my head in to see when the blasting would start... and it already had."

Eric | Chief Industrial Hygienist

SOLUTION

BlastOne's Snakebite XQ blast nozzle tests were conducted using GMA ToughBlast Garnet and maintaining between a range of 85 to 110psi. Through extensive trials the XQ delivered a fantastic 90% reduction in noise levels.

SOUND TEST RESULTS

Blast Nozzle Used	At Blaster	25ft from Blaster
Regular Tungsten Carbide #7 Blast Nozzle	122.3 dBA	109.8 dBA
SnakebiteXQ #7 Silenced Blast Nozzle	101.9 dBA	91.8 dBA
<i>Sound Reduction Recorded</i>	<i>20.4 dBA</i>	<i>18 dBA</i>

SUMMARY

With the introduction of the SnakebiteXQ we no longer need to monitor for extra noise exposure when blasting. Additionally, other trades can work in the same vicinity as the blasting contractor without wearing heavy hearing protection. Using GMA ToughBlast Garnet we now can also blast faster, use less abrasive with no heavy metal concerns, and save money.