

CleanSpace®

RESPIRATORS

Free the way you breathe™



Industrial Case Study:

Hazard: Lead



Manufacturing facility in the US



Challenge:

A major manufacturing facility in the USA was managing an ongoing issue with high amounts of lead in their employee's blood levels.

To monitor this, they set up a bi-monthly medical surveillance program. With increasing concern for worker health and safety, the facility sought out a solution to minimise the risks associated with lead exposure.

What they needed:

The type of work these employees performed required them to be mobile and comfortable to work unhindered. It has been observed that heavy equipment results in non-compliance therefore exposing workers to risk. Management required monitoring of real-time use to ensure compliance was achieved.

Solution:

The facility approached CleanSpace® Technology. They were interested in the CleanSpace® CST Ultra model as it is a lightweight and compact unit. The bluetooth connectivity also allowed them to monitor real-time protection scores. After consultation they purchased the CleanSpace® CST Ultra respirators and implemented their use at the site.

Results:

The findings were substantive. The manufacturer's bi-monthly testing found that employees who used the CleanSpace® CST Ultra respirators had significantly lower blood lead levels. One employee – who had demonstrated the highest blood lead levels in the facility – saw a remarkable 42.5% decrease in their blood lead levels over a two-month period. The entire facility's average also dropped by 9.5% over the same time frame.

Conclusion:

This case study serves as concrete proof of the effectiveness of using CleanSpace® Respirators to protect workers and improve overall health and safety measures. The adoption of CleanSpace® PAPRs results in positive consequences for the well-being of workforces. This manufacturing facility has now rolled out CleanSpace® respirators entirely throughout one of their significant sites in the USA due to the evidence presented in this case study, demonstrating their strong commitment to the preservation of worker safety.

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● CleanSpace CST ULTRA



Water tolerance (IP 65) and provides eye protection when worn with a full face mask

- Breath responsive with peak airflow: 230L/min
- AirSensit® technology which monitors pressure 100 times a second
- Lightest PAPR on the market: < 450grams
- Compact with minimal parts: durable, and robust
- Approved for use with half mask or full face mask
- Bluetooth technology for real-time protection monitoring; set gas filter max use time
- Battery time up to 14 hours*
- Filters: CleanSpace® CST Standard and High Capacity P3 Filters | CleanSpace® CST ABEK1P3 Combined Filter
- Applications include:
 - Protection against silica dust
 - Handling, maintenance, painting, sanding and grinding
 - Agricultural sector (pesticides, herbicides, phytosanitary treatments)
 - For wet-cut handling of stone, cement and concrete
- 2-year warranty
- Australian Made and owned
- Availability: five-day lead time on high volume orders

* Operating time is strongly affected by filter type, filter loading, mask seal, work rate, altitude, and other factors. The operating times quoted above are average durations at moderate work rates at sea level. Actual operating times may vary widely from the quoted average durations.

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