

PROJECT 33B: Offshore Blasting & Coating

Project Overview

Project 33B required continuous blasting and coating operations in an offshore environment. Open-air execution was estimated at 42 days, assuming no weather delays. Legacy was engaged to implement a controlled environmental solution to protect schedule, quality, and productivity.

Legacy Solution

Using Legacy's dehumidification system, the first enclosure—measuring 20 ft x 40 ft x 10 ft—was constructed in approximately 6 hours. Upon completion, the dehumidification system was immediately connected and commissioned. Following completion of the first work scope, Legacy required one day to dismantle, relocate, and construct a second enclosure. The second enclosure was an L-shaped structure measuring 10 ft x 45 ft x 10 ft. Paint-ready conditions were achieved in under 45 minutes after startup.

Metric	1st Enclosure	2nd Enclosure
External Conditions at Startup	Unfavorable for coating operations	Unfavorable for coating operations
Outside Temperature	—	79°F
Outside Relative Humidity	83.20%	77.50%
Outside Dew Point Spread	-0.2	-2.6
Typical Impact Without Control	Blasting & coating halted	Blasting & coating halted
Time to Ready-to-Paint Conditions	30 minutes	45 minutes
Stabilized Internal Temperature	—	68.8°F
Stabilized Internal Relative Humidity	54.30%	52.50%
Achieved Internal Dew Point Spread	11.3	14.1

Execution & Performance

Blasting operations commenced immediately following stabilization. Legacy maintained controlled internal environmental conditions for 9 consecutive days of blasting and coating. During this period, the project encountered three days of heavy rain and sustained winds up to 35 mph. Despite these conditions, there was zero interruption to blasting or coating operations.

Results & Impact

By implementing Legacy's dehumidification and enclosure system, Project 33B was completed in 9 days, compared to an estimated 42 days for open-air operations with no weather delays.

Total Schedule Savings:

- 33 days saved versus the original open-air estimate

Conclusion

Legacy's environmental control solution eliminated weather-related downtime, enabled consistent blasting and coating operations, and delivered substantial schedule compression. Project 33B demonstrates how Legacy's dehumidification system transforms offshore coating projects by providing certainty, speed, and superior environmental control—regardless of external conditions.

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