VOLTYX

Case Study

Electrical Vehicle Customer

A Northern California car manufaturer's factory is a vital production hub for electric vehicles and energy products. Regular maintenance is crucial to ensure uninterrupted operations. In this case study, we delve into the successful execution of this client's scheduled maintenance outage that took place on July 4th. The project involved intricate planning, collaboration, and efficient utilization of resources.

Background

As one of the top leading car manufacturers in the United States, efficiency is imperative to this car manufacturer's factory. To minimize the threat of a potential outage, this client opted for scheduled maintenance with EPS and NASS over the Fourth of July weekend. This scheduled outage was executed seamlessly through collaboration, leaving the client with ability to continue functioning at a normal rate, saving them millions of dollars from a potential failure.

The Challenge

- Holiday Constraints: The scheduled maintenance outage coincided with a national holiday, July 4th. This posed challenges in terms of resource availability, as technicians and personnel were required to work during a time when many people were off duty.
- Logistical Complexity: Given the magnitude of the project, coordinating the deployment of 44 personnel over a 10-hour window across multiple substations demanded meticulous planning. Proper allocation and positioning of technicians, equipment staging, and workflow management were crucial.
- Resource Allocation: With the requirement for 44 skilled personnel, EPS and NASS had to tap into their national network to ensure adequate support. Technicians from both Western and Central Regions were brought in, along with safety personnel and project management.
- Time Constraint: Completing extensive maintenance tasks within a 10-hour timeframe required precision in job preplanning, equipment setup, and efficient workflow management.
- Project Scope: The maintenance covered 4 substations, encompassing 8 sets of switchgear, 12 large dry-type transformers, meter replacements, breaker testing, and retrofitting. The sheer scale of the task added complexity to the planning and execution process.

The Solution

To tackle these challenges, a comprehensive strategy was employed:

- Early Planning: The project was planned well in advance, factoring in the holiday and resource availability. This allowed for necessary adjustments to ensure a skilled workforce and appropriate equipment were on hand.
- Resource Collaboration: EPS and NASS leveraged their national network, pooling technicians from different regions. Safety personnel and project management were also integrated to ensure smooth coordination.
- Job Preplanning: Detailed job preplanning ensured that staging, equipment locations, and workflow were meticulously organized. This streamlined the execution process and minimized downtime.
- Efficient Allocation: By strategically placing technicians and equipment, the team ensured that each task was executed in a systematic and organized manner, optimizing the available time.
- Safety Oversight: With safety being paramount, safety personnel were deployed to oversee the work. This contributed to maintaining a secure working environment for all involved.
- Communication: Clear communication channels were established, enabling real-time updates and adjustments, ensuring that the project remained on track.

Results

Through meticulous planning and strategic execution, the project achieved remarkable success:

- Timely Completion: Despite the constraints of a short 10-hour window, the maintenance tasks were completed on time.
- Budget Adherence: The project was completed within the allocated budget, underscoring efficient resource utilization.
- Customer Satisfaction: The client expressed satisfaction with the outcome, as the maintenance ensured the factory's continued optimal performance.
- Safety Priority: The inclusion of safety personnel underscored the commitment to maintaining a secure working environment.

Conclusion

The successful execution of the client's scheduled maintenance outage showcases the power of collaboration, meticulous planning, and resource allocation. Despite the challenges posed by the holiday, logistical complexity, and time constraints, the project was completed safely, on time, and within budget. This case study exemplifies the importance of effective project management and highlights the capability of skilled technicians to achieve exceptional outcomes even under challenging circumstances.

EPS NASS NOMOS TLS EPST

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