

APF Supports EPC group with Onsite Testing by Quality Team During Construction Phase of Project

Challenge

A customer was reporting jobsite failure of the bolt assembly. The bolt assembly was failing prior to meeting its Rotational Capacity minimum specified in the product test reports. The issues were slowing the construction phase of the project and increasing material expenses. Initial thoughts were that the product was failing because of poor material grade.

Solution

APF sent a failure analysis representative to the job site to evaluate the condition of the product, and to evaluate the field installation practices. While it was confirmed that the product integrity was unchanged, it was also concluded that the actual installation process was the root cause to the product failure. Our quality team tested, retested, proofed, and trained the onsite employees on the correct methods of field testing and product installation.

Benefit

The customer reported zero product defects after testing and retraining. The construction project stayed on schedule and no increase in product expense occurred. The onsite Rotational Capacity testing was heralded as a great success on the project and has been the back bone to additional testing procedures

Challenge

Product failures on jobsite costing product cost over-runs and slipping schedule.

A customer of APF was reporting a bolt assembly was failing prior to meeting its Rotational Capacity minimum based in the testing documentation. The Bolt/Washer/Nut assembly was being installed with a High Impact Wrench on the job site.

The customer had retested product with a Skidmore testing machine and felt that the product was failing not for the installation process but for the actual material.

The failing product was causing an increase in cost overrun and slowing of the construction implementation plan.

How can APF verify the assemblies in the field and come up with a solution that will eliminate the cost overrun and slippage in timeline.

Solution

APF Quality quick response team on the job site working with the customer.

All-Pro's Quality team reacted quickly to the request and was onsite almost immediately to assist in the investigation. The team brought a portable calibrated Skidmore testing device as well as an electric wrench.

During the process the team tested product on both testing machines applying product with both the high impact wrenches and the electric wrenches. It was established that the high impact wrench used to apply the assemblies was creating too much torque and the product was failing.

The product was then installed with the electric wrench and in all instances the product never failed and met requirements.

The onsite construction staff was trained on the correct installation process using an electric torque wrench or manual hand wrench and no more product issues were reported.

Benefit

Eliminating product failure and not slowing implementation timeline.

The customer reported zero product defects after testing and retraining. The construction project stayed on schedule and no increase in product expense occurred. The onsite Rotational Capacity testing was heralded as a great success on the project and has been the backbone to additional testing procedures

- Ontime delivery of qualified product
- Qualified installation process
- No timeline slippage
- Project completion with zero defects



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