



# Engineering Services for your Nuclear Power Plant

Hayward Tyler has been supporting the nuclear industry for over 40 years. Our dedicated aftermarket design team is fully equipped to support all the issues associated with aging pump equipment.

Our design team specializes in helping plants maximize the reliability and performance of their aging pump equipment. Whether it is performing a Root Cause Analysis of a failed or problematic pump or analyzing the performance to offer efficiency and mean time between maintenance improvements, our engineering team is there to support your needs. We have multiple Professional Engineers (PE's) on staff to certify the necessary design reports to ensure all our analysis and recommendations comply with your relevant nuclear code.

### **Nuclear Accredited Facility**

Our facility in Vermont is dedicated to Nuclear.

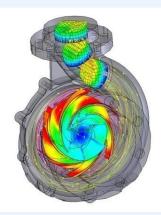
We maintain a quality program compliant to 10CFR50 Appendix B and 10CFR21 and hold ASME "N", "NPT and 'NS" stamps. We are audited by ASME, NUPIC and NIAC as well as individual companies.

### **KEY CAPABILITIES:**



### **Root Cause Analysis**

We have the tools to not only identify failure modes but to investigate them, to solve the fundamental issue and correct it. We can then manufacture these solutions at our nuclear accredited facility.



## Hydraulic Evaluation and Redesign

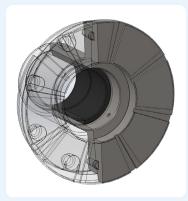
We can review your existing hydraulic design to check for performance improvements or offer a new custom designed hydraulic.



#### Reverse Engineering and Commercial Grade Dedication

Our state-of-the-art equipment, paired with our design knowledge and process, allows us to reverse engineer equipment and offer increased supply options.

### **KEY CAPABILITIES:**



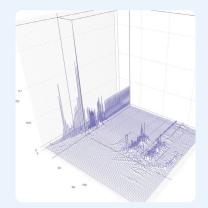
# Bearing Evaluation and Design or Redesign

We design our own bearings in-house and can evaluate your existing design to ensure it is fit for purpose.



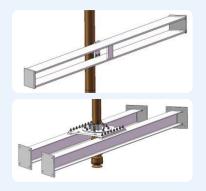
### Drop-in Replacement

We can offer drop-in replacements of legacy or obsolete OEM pumps.



# Vibration and Modal Analysis to Solve Vibration Issues

We can analyze your existing pump's vibration spectrum to identify operational issues as well as potential issues.



### Seismic Support Design / Redesign Including Analysis

We can carry out a seismic analysis on your existing equipment and offer improvements, whether it be for ease of installation during maintenance or improved seismic capacity.



### Material Suitability and Recommended Upgrades

We can evaluate the chemistry of your existing material against its service, and offer upgrades to improve service life.



## Shop and Field Service

We offer shop or field repairs on a variety of pump types. We can perform routine maintenance or troubleshooting diagnostics on your equipment.

For further information about Nuclear Aftermarket Services, contact your local salesperson or email

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### HAYWARD TYLER

#### Engineered solutions for the global energy sector

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#### ISO 9001 & ISO 14001 Accredited