A petrochemical company in Germany asked Sulzer to improve the reliability of a single stage radial pump HSZ 52-321 (OH1 design) and replace their double mechanical seal and complex piping plan.

The challenge
The customer wanted the modifications at his site to be kept to a minimum. Only small modification of the base plate was required for installation of the retrofitted pump. The piping and motor remained unchanged. For reasons of cost-effectiveness the main parts of the pump like delivery casing, impeller and bearing bracket were reused.

The solution
Sulzer provided a complete range of services including engineering, dismounting, modification and installation of the pump from one source.

Customer benefit
- Modification of existing pumps, reuse of delivery casing and impeller
- Reduction of maintenance costs
- Wear free magnetic coupling
- ATEX certification possible
- Approved acc. Industrial Emissions Directive (IED) 2010/75/EU (German regulation: “TA-Luft”)
- Suitable for changing suction pressure
- Use of polyether ether ketone (PEEK) as an option for the reduction of magnetic losses

Sectional drawing of the pump after modification (OH1 design)

Contact
spde.retrofit@sulzer.com

Applicable markets
O&G, HPI

Applicable products
Single or multi stage radial pumps (horizontal/vertical): OH1, BB4, BB5, VS6