

## ES4003 RT48 pin-ring bearing support conversion

Increase the reliability of the power turbine exhaust diffuser

energy

### Engineered solution purpose

This engineered solution prevents the exhaust diffuser support ring bearings from seizing.

### Applicability

All RT48 power turbines built before 1975.

### Technical description

To prevent the exhaust diffuser from becoming locked in position, the proven pin-ring spherical bearing design is used.

### Benefits

The pin-ring bearing support conversion allows the exhaust diffuser the freedom to move as intended. This alleviates the possibility of cracking or, in extreme cases, failure of the unit.

### Experience

The conversion has proven itself in service.

### Scope of work

The exhaust diffuser undergoes a major re-work, the extent of which involves a complete tear down of the RT48 power turbine.

### Bill of materials

Exhaust diffuser support ring  
Power turbine fasteners.

### Undertaken

At site

