



### Overview

When damage occurs to equipment or property necessitating the installation of rental boilers the last thing you need is the failure of the rental equipment. Rental boilers present a unique exposure to life and property. Temporary equipment must be connected into an existing system which may require modification to accommodate the tie-ins.

Fuel, feed water, condensate piping, steam piping and electrical lines will have to be properly installed and supported to prevent equipment failure. The location of the rental boiler can often be in close proximity to buildings and pedestrian traffic. Stack gases can pose an immediate health exposure for adjacent occupants. Piping and electrical lines can pose burn or shock hazards.

The following points are worth heeding when managing the exposure presented by rental boilers:

1. Integrating the stationary system to the rental boiler requires proper basic safety protections be maintained. Relief devices need to be properly sized and discharge lines must be to a safe point of discharge. Electrical equipment must have proper protection and grounding.
2. The boiler, steam piping, feed piping and electrical conductors must be properly sized for the intended load.
3. Operators will often not be familiar with the equipment. Clear operating and safety instructions are critical and should be posted.
4. Fuel, electric and condensate systems that may have been involved in the event that necessitated the temporary boiler installation must be inspected, cleaned, and repaired as needed before installation. Events such as flooding can cause fuel oil contamination that could damage the fuel delivery system to the boiler. Fuel oil should be tested for quality. Fouled condensate or feedwater equipment can damage or block tubes causing failure of the rental boiler. Electrical equipment contaminated by flooding must be dried, cleaned, and thoroughly tested. Electrical grounding connections should also be tested.
5. Correct water treatment is a critical issue with all boilers, including rental boilers. Depending on the rental supplier, a chemical water treatment system may be included with the temporary boiler. In such instances, Operators will have to quickly learn the requirements of the new system.
6. Maintaining the security and boundaries of the temporary boiler will protect the equipment and prevent unauthorized persons from coming into close proximity of the temporary installation.
7. Careful consideration should be given to the rental boiler stack location and nearby windows and fresh air intakes. Windows and intakes in close proximity should be sealed, labeled and carbon monoxide detectors should be placed in appropriate areas and monitored.
8. Boiler blow down piping must be directed to a safe point of discharge.
9. Rental boiler installations may include portable electric generators, temporary fuel tanks or even temporary water tanks. Fuel handling instructions and properly securing the equipment and appurtenances will mitigate these exposures.
10. The jurisdiction may also have operator licensing and/or training requirements that must be adhered to. Operator logs may also be required.
11. The installation of equipment may require registration with the jurisdiction. The rental company or installer should provide the proper documentation for registration and inspection of the boiler and other equipment.
12. Scheduled maintenance activities will need to be completed on the temporary equipment. Maintenance staff will need to familiarize themselves with such requirements including the stocking of specific items to support such activities.



CNA is a recognized major underwriter of Equipment Breakdown insurance, and supports its coverages with a highly trained staff of risk control consultants and specialists. CNA's capabilities include risk assessments and investigations while offering guidance on equipment installation and repairs, maintenance programs and practices, operator training and procedures, critical spares and contingency planning. Additionally, the CNA field staff maintains certifications and commissions to perform all required statutory inspections of boilers and pressure vessels within the United States.

To learn more about CNA's Risk Control services, visit: <http://www.cna.com/portal/site/cna/riskcontrol/>