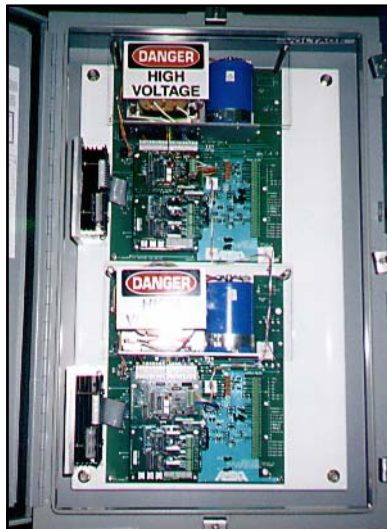


## REDUNDANT CONSTRUCTION

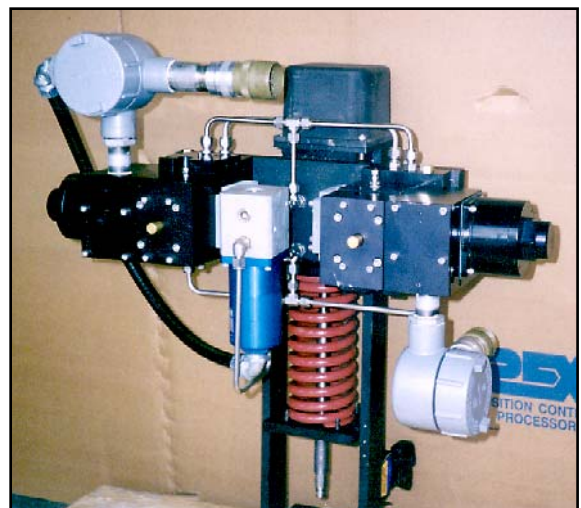
Although the REXA **Xpac** lists exceptional *Mean Time Between Failures* (TM-9) and design cycle life, certain critical applications such as turbine control and remote custody transfer require an additional margin of reliability. A method of providing redundancy has proven the best insurance to keeping key systems operating.

One redundant approach is parallel lines—two sensors, two valves, two actuators—running from the same header and operating at the same time. This is effective, but also expensive. A valve failing without warning is a rare occurrence, and most sensors can be duplicated within the same line at minimal cost.

The actuator and its controls are the weak link. The selection of an **Xpac** is the first step to increased reliability. On the average, its reliability is in excess of 98.7% for a continuous year of operation. The selection of *Redundant Construction* will increase this value to over 99.9%.



The modular design of the **Xpac** allows the duplication of critical components without major changes or sacrificing operational characteristics. Two Power Modules, two complete control electronics and two feedback assemblies are used to operate a single hydraulic cylinder, which is unlikely to suffer a catastrophic failure.



Each module operates from its own controls and feedback. Wiring and setup are the same as for any standard unit. One module is designated as main and the other as backup. A status board is added to the backup PCP to indicate the operation of the main module. Any size module can be upgraded. An **R** is added to the model number to indicate this enhancement (L2000-2-2BR-P).