

## **Reactor Performance Data Collection Program**

RES/DRA

Data are collected on the operation of nuclear power plants from licensee event reports (LERs), licensee monthly operating reports (MORs), and industry databases. The data collected include component and system failures, demands on safety systems, initiating events, fire events, and common-cause failures. The data and data analysis results are used by the NRC staff as part of its regulatory mandate to search for potential safety issues. Examples of these processes include the Industry Trends Program (ITP), the Accident Sequence Precursor (ASP) Program for evaluating the risk associated with operational events and/or degraded conditions, and the Reactor Oversight Process (ROP). In addition, the data provide key input to the staff risk assessment models, known as the SPAR models for Standardized Plant Analysis Risk. The database systems include the Reliability and Availability Data System (RADS), the Common-Cause Failure Database, the Fire Events Database, and the Accident Sequence Precursor (ASP) Events Database.