REACTOR COOLANT SYSTEM LEAKAGE

Purpose

This indicator monitors the integrity of the RCS pressure boundary, the second of the three barriers to prevent the release of fission products. It measures RCS leakage as a percentage of the technical specification allowable leakage to provide an indication of RCS integrity.

Indicator Definition

The maximum RCS Leakage as a percentage of its technical specification limit each quarter.

Data Reporting Elements

The following data are required to be reported each quarter:

- The maximum RCS Leakage value for each applicable category of leakage (see Definition of Terms below) for each month of the previous quarter (three values for each category)
- The technical specification limit for each category of leakage

Calculation

The values for each category of leakage are calculated as follows:

$$\text{value} = \frac{\text{the maximum monthly value of each individual category of leakage}}{\text{the technical specification limit for the above category}} \times 100$$

Definition of Terms

Applicable categories of RCS Leakage: any leakage parameter that technical specifications require licensees to monitor. There are generally three or four leakage parameters that may be required by technical specifications for a given plant:

- Either RCS identified leakage or RCS total leakage
- RCS unidentified leakage
- Steam generator tube leakage
- Pressure boundary leakage

Clarifying Notes