Plant Operational Data Needs
For PWR GALE Code

PARAMETER	DESCRIPTION	BASES
Plant Capacity	Days per year plant operates @ 100% power	Actual recent performance by plant
Radionuclide Concentration in Primary and Secondary Coolant	uCi/g water and steam by radionuclide	Recent measurement data to confirm or adjust ANSI/ANS 18.1-1999
Primary Coolant to Secondary Coolant Leakage	Average gallon/day Leakage	Actual recent plant experience. Measurements or Plant Vendor estimates
Radionuclide Releases from Various Ventilation Systems Prior to Treatment	Ci/year	Actual recent plant measurements from containment aux building, fuel pool, waste gas systems, etc. from normal operations and shutdowns.
Containment Purge Frequency	Purges/year	Actual recent operating, accounting for continuous purging, and purges due to down.
Radionuclide Removal Efficiencies for Charcoal Absorbers and HEPA filters	Percent Removal	Recent data from plant experience. Are the removal efficiencies much better than in Regulatory Guides?
Dynamic Adsorption Coefficients for Charcoal	cm3/g	Measurements based on recent operating reactor charcoal delay systems.
Radionuclides in Untreated Detergent Waste	Ci/month	Measurements based on recent operating experience.
Demineralizer Regeneration Cycle	days	Recent operating experience
Tritium Releases	Ci/year	Effluent Monitoring data based on power level
Decontamination Factors for Demineralizers, Evaporators, Filters, Reverse Osmosis Units	Reduction Factor by radionuclide	Recent data from plant experience. Are the removal efficiencies much better than in Regulatory Guides?
Frequency and Extent of Unplanned Liquid Releases	Events/year, Ci/event	Recent Operating Data
Carbon -14 Release	Ci/year	Recent measurement data from operating plants
Argon – 41 Release	Ci/year	Recent measurement data from operating plants

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For BWR GALE Code

PARAMETER	DESCRIPTION	BASES
Plant Capacity	Days per year plant operates @ 100% power	Actual recent performance by plant
Radionuclide Concentration in Primary and Secondary Coolant	uCi/g water and steam by radionuclide	Recent measurement data to confirm or adjust ANSI/ANS 18.1-1999
Primary Coolant to Secondary Coolant Leakage	Average gallon/day Leakage	Actual recent plant experience. Measurements or Plant Vendor estimates
Radionuclide Releases from Various Ventilation Systems Prior to Treatment	Ci/year	Actual recent plant measurements from containment aux building, fuel pool, turbine building, waste gas systems, etc. from normal operations and shutdowns.
Air Inleakage to Main Condenser	Ft3/min.	Recent plant measurements
Radionuclide Removal Efficiencies for Charcoal Absorbers and HEPA filters	Percent Removal	Recent data from plant experience. Are the removal efficiencies much better than in Regulatory Guides?
Dynamic Adsorption Coefficients for Charcoal	cm3/g	Measurements based on recent operating reactor charcoal delay systems.
Radionuclides in Untreated Detergent Waste	Ci/month	Measurements based on recent operating experience.
Demineralizer Regeneration Cycle	days	Recent operating experience
Tritium Releases	Ci/year	Effluent Monitoring data based on power level
Decontamination Factors for Demineralizers, Evaporators, Filters, Reverse Osmosis Units	Reduction Factor by radionuclide	Recent data from plant experience. Are the removal efficiencies much better than in Regulatory Guides?
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