Table 1.2.2
KEY PARAMETERS FOR HI-STORM 100 MULTI-PURPOSE CANISTERS

	PWR	BWR
Pre-disposal service life (years)	40	40
Design temperature, max./min. (^{o}F)	725^{o†}/-40^{o††}	725^{o†}/-40^{o††}
Design internal pressure (psig) Normal conditions Off-normal conditions Accident Conditions	 100 110 200	 100 110 200
Total heat load, max. (kW)	36.9	36.9
Maximum permissible peak fuel cladding temperature: Long Term Normal (^{o}F) Short Term Operations (^{o}F) Off-Normal and Accident (^{o}F)	 752 752 or 1058††† 1058	 752 752 or 1058††† 1058
MPC internal environment Helium fill (99.995% fill helium purity) MPC-24 (heat load $\leq$ 27.77 kW) (heat load > 27.77 kW) MPC-24E/24EF (heat load $\leq$ 28.17 kW) (heat load > 28.17 kW)	(all pressure ranges are at a reference temperature of 70°F) $\geq$ 29.3 psig and $\leq$ 48.5 psig OR 0.1212 +/-10% g-moles/liter $\geq$ 45.5 psig and $\leq$ 48.5 psig $\geq$ 29.3 psig and $\leq$ 48.5 psig OR 0.1212 +/-10% g-moles/liter $\geq$ 45.5 psig and $\leq$ 48.5 psig	(all pressure ranges are at a reference temperature of 70°F)

† Maximum normal condition design temperatures for the MPC fuel basket. A complete listing of design temperatures for all components is provided in Table 2.2.3.

†† Temperature based on off-normal minimum environmental temperatures specified in Section 2.2.2.2 and no fuel decay heat load.

††† See Section 4.5 for discussion of the applicability of the 1058°F temperature limit during MPC drying.

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MPC-68/68F/68FF (heat load ≤ 28.19 kW) (heat load > 28.19 kW) MPC-32/32F (heat load ≤ 28.74 kW) (heat load > 28.74 kW)	 ≥ 29.3 psig and ≤ 48.5 psig ≥ 45.5 psig and ≤ 48.5 psig	≥ 29.3 psig and ≤ 48.5 psig OR 0.1218 +/-10% g-moles/liter ≥ 45.5 psig and ≤ 48.5 psig

Table 1.2.2 (cont'd)
KEY PARAMETERS FOR HI-STORM 100 MULTI-PURPOSE CANISTERS

Maximum permissible multiplication factor (k_{eff}) including all uncertainties and biases	< 0.95	< 0.95
Fixed Neutron Absorber (Boral / Metamic) ^{10}B Areal Density (g/cm^2)	0.0267/0.0223 (MPC-24) 0.0372/0.0310 (MPC-24E, MPC-24EF MPC-32 & MPC-32F)	0.0372/0.0310 (MPC-68 & MPC-68FF) 0.01/NA (MPC-68F) (See Note 1)
End closure(s)	Welded	Welded
Fuel handling	Opening compatible with standard grapples	Opening compatible with standard grapples
Heat dissipation	Passive	Passive

NOTES:

1. All MPC-68F canisters are equipped with Boral neutron absorber.