

TN-8, TN-8L AND TN-9
SAFETY ANALYSIS REPORT
Volume 1

Revision 13
April 22, 1991

Transnuclear, Inc.
Two Skyline Drive
Hawthorne, NY 10532

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For the Group II fuel assemblies, the maximum residual power and the maximum free gas volume are not to exceed the limits listed in the table below:

Decay Heat per Shipment, kw ^(a)	Maximum Free Gas per Shipment, TN-8/TN-8L m ³ (NTP)(b)	Maximum Free Gas per Shipment, Configuration X m ³ (NTP)(b)(e)
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1.5	0.558	0.601
3.0	0.543	0.585
9.0	0.483	0.520
15.0	0.441	0.475
21.0	0.408	0.439
27.0	0.384	0.413

- Notes: (a) Residual heat load per assembly must not exceed 7.9 kilowatts for TN-8L packaging.
(b) NTP conditions are 25°C and one (1) bar.
(c) PWR assemblies may be shipped either with or without burnable poison rod, thimble plug, or control rod assemblies.
(d) As needed, appropriate component spacers may be used to properly position fuel assemblies.
(e) In the accident condition with the Configuration X Lid, free cavity volume is 7.7% more than with the original lid. Therefore with the Configuration X lid in place the maximum free gas volume increased by 7.7%.

- B) For the TN8, TN8L and TN-9, admissable as contents are solid non-fissile irradiated hardware. As needed, appropriate component spacers will be used when loading irradiated hardware into the cask cavity to limit movement of the contents.

For these contents the dryness verification test of Chapter VIII is required but leakage tests for containment assembly verification are not required.