



March 15, 2007
E-24766

U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
One White Flint North
11555 Rockville Pike
Rockville, MD 20852

Subject: Supplemental Information Regarding the Application for Amendment 10 of the NUHOMS® Certificate of Compliance No. 1004 for Spent Fuel Storage Casks, Revision 0, Docket No. 72-1004, (TAC No. L24052)

Gentlemen:

Based on recent discussions with the NRC staff, Transnuclear, Inc. (TN) hereby provides information regarding the shell temperatures applied to the 32PTH1 DSC thermal model.

Should the NRC staff require additional information regarding this submittal, please do not hesitate to contact Mr. Don Shaw at 410-910-6878 or me at 410-910-6930.

Sincerely,

Robert Grubb
Senior Vice President - Engineering

cc: Mr. Joseph Sebrosky (NRC SFST) (one paper copy of this cover letter and Enclosure 1, plus one copy of Enclosure 2)

Enclosures:

1. Discussion of the Information on the Enclosed Compact Disk
2. One electronic copy (one compact disk) of the files discussed in Enclosure 1

*DMSS0111
CD contains Raw
data and will not be
added to ADAMS*

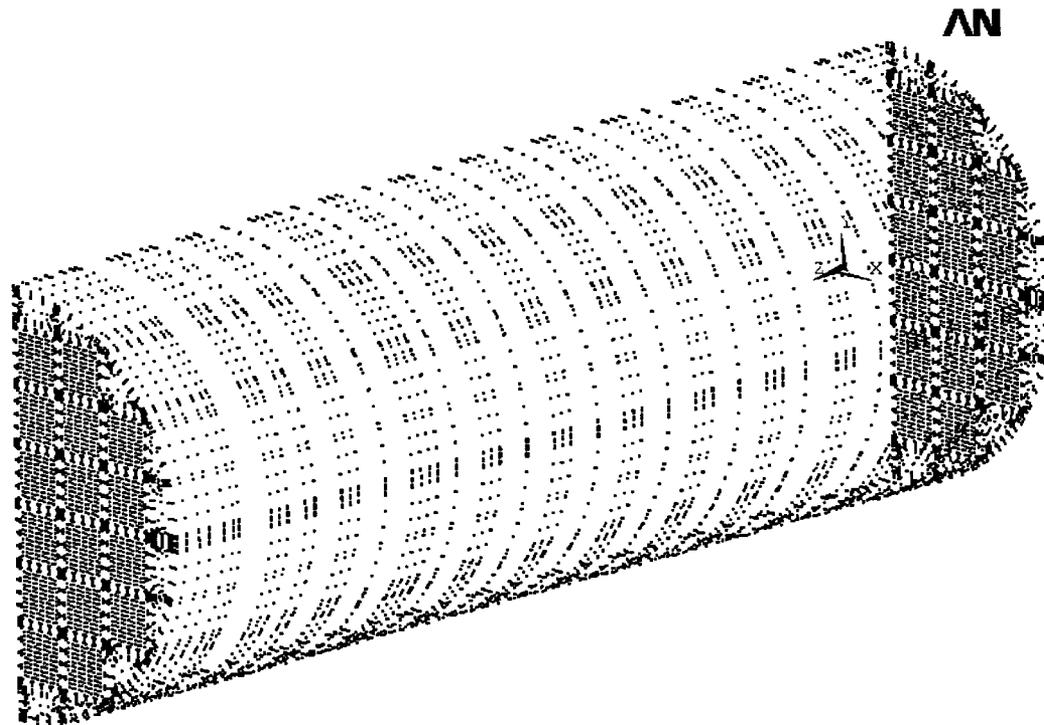
Discussion of the Information on the Enclosed Compact Disk

The data included on the enclosed compact disk provides boundary shell temperatures applied to the outer surface of the 32PTH1 DSC model for 40.8 kW and 31.2 kW heat loads.

Data files containing boundary shell temperatures applied to the 180° model are provided on a compact disk as Enclosure 2 and are listed in the following table:

Operating conditions	DSC Type 1 basket, HZLC #1 40.8 kW	DSC Type 2 basket, HZLC #2 31.2 kW
Storage, 106°F ambient	A001-Shell_Ts_stor_40_8kW_106F.txt	C001-Shell_Ts_stor_31_2kW_106F.txt
Storage, 117°F ambient	B001-Shell_Ts_stor_40_8kW_117F.txt	D001-Shell_Ts_stor_31_2kW_117F.txt

- For DSC outer surface nodes, these files provide X, Y, Z Cartesian coordinates with the corresponding temperature.
- The Z axis is along the DSC axis from the DSC bottom.
- The origin of the coordinate system is offset by 10.0 inches from the center of the DSC bottom outside surface along the Z axis; therefore coordinates of the center of the DSC bottom outside surface are X = 0, Y = 0, Z = -10.0. See Figure 1 below for an illustration.



32PTH1 DSC

Figure 1 - 32PTH1 DSC coordinate system and shell boundary nodes