71-9255

TRANSNUCLEAR WEST

August 28, 2001
NUH05-01-848

Mr. Timothy Kobetz
Project Manager, Spent Fuel Project Office
U.S. Nuclear Regulatory Commission
11555 Rockville Pike
Rockville, MD 20852

Subject: Illegible pages in Revision 12 of the NUHOMS® MP187 Multi-Purpose Cask Safety Analysis Report (TAC No. L23264)

Reference: Grenier to Kobetz Letter NUH05-01-837, Dated 8/24/01, Response to Request for Additional Information (RAI) and Submittal of Amendment No. 6, Revision 1 of the NUHOMS® MP187 Multi-Purpose Cask, 10 CFR71 Certificate of Compliance No. 9255 (TAC No. L23264)

Dear Mr. Kobetz:

Attachments E and F of the reference submittal included 3 pages where the printed information was not legible. Transnuclear West Inc., (TN West) herewith submits 13 sets of the legible version of these pages for replacement purposes.

Please contact me at 510-744-6053 if you have any questions regarding this submittal.

Sincerely,

UB Chopra

U. B. Chopra
Licensing Manager

Docket 71-9255
cc: File: NUH05.0003
SCE-01-0007.01

Transnuclear West Inc.
39300 Civic Center Drive, Suite 280, Fremont, CA 94538
Phone: 510-795-9800 • Fax: 510-744-6002

NMSS01 public

Table A5.2-5

Bounding Fuel Top Region Gamma Source (γ/s/assy)

(Continued)

Group	35 GWd[1]	40 GWd[1]	45 GWd[1]	MOX[2]
23	0.000E+00	0.000E+00	0.000E+00	0.000E+00
24	0.000E+00	0.000E+00	0.000E+00	0.000E+00
25	0.000E+00	0.000E+00	0.000E+00	1.800E-13
26	0.000E+00	0.000E+00	0.000E+00	2.825E+03
27	6.378E-12	1.224E-11	2.055E-11	1.822E+06
28	2.130E+04	2.373E+04	2.559E+04	3.198E-04
29	1.374E+07	1.530E+07	1.650E+07	7.677E+10
30	1.002E-03	1.296E-03	1.593E-03	2.719E+11
31	5.789E+11	6.449E+11	6.953E+11	1.176E+08
32	2.050E+12	2.284E+12	2.462E+12	1.096E+08
33	1.184E+09	1.347E+09	1.492E+09	9.249E+05
34	1.922E+08	2.151E+08	2.342E+08	1.464E+07
35	6.974E+06	7.769E+06	8.377E+06	1.121E+07
36	1.104E+08	1.229E+08	1.326E+08	2.251E+08
37	8.421E+07	9.380E+07	1.011E+08	9.327E+08
38	1.695E+09	1.888E+09	2.035E+09	7.654E+09
39	7.024E+09	7.824E+09	8.436E+09	0.000E+00
40	5.578E+10	6.214E+10	6.700E+10	0.000E+00
Total	2.695E+12	3.002E+12	3.237E+12	3.577E+11

1 *Conservatively based on 10 year cooled fuel at the applicable nominal enrichment.*
2 *Conservatively based on 20 year cooled fuel at minimum enrichment.*

Table A5.2-5

Bounding Fuel Plenum Region Gamma Source (γ/s/assy)

(Continued)

Group	35 GWd[1]	40 GWd[1]	45 GWd[1]	MOX[2]
23	0.000E+00	0.000E+00	0.000E+00	0.000E+00
24	0.000E+00	0.000E+00	0.000E+00	0.000E+00
25	0.000E+00	0.000E+00	0.000E+00	0.000E+00
26	0.000E+00	0.000E+00	0.000E+00	0.000E+00
27	2.188E-11	4.169E-11	6.963E-11	6.597E-13
28	2.834E+04	3.156E+04	3.402E+04	2.193E+03
29	1.828E+07	2.035E+07	2.194E+07	1.414E+06
30	3.214E-03	4.161E-03	5.117E-03	3.613E+00
31	7.701E+11	8.576E+11	9.245E+11	5.959E+10
32	2.727E+12	3.037E+12	3.274E+12	2.110E+11
33	1.457E+09	1.648E+09	1.815E+09	3.484E+08
34	6.136E+08	6.870E+08	7.477E+08	5.048E+08
35	9.278E+06	1.033E+07	1.114E+07	2.963E+08
36	1.468E+08	1.635E+08	1.763E+08	2.466E+07
37	1.122E+08	1.250E+08	1.347E+08	1.221E+07
38	2.256E+09	2.512E+09	2.708E+09	2.320E+08
39	9.347E+09	1.041E+10	1.122E+10	7.303E+08
40	7.495E+10	8.348E+10	9.002E+10	6.984E+09
Total	3.586E+12	3.993E+12	4.305E+12	2.797E+11

1 Conservatively based on 10 year cooled fuel at the applicable nominal enrichment.
2 Conservatively based on 20 year cooled fuel at minimum enrichment.

Table A5.2-5
Bounding Fuel Bottom Region Gamma Source (γ/s/assy)
(Concluded)

Group	35 GWd[1]	40 GWd[1]	45 GWd[1]	MOX[2]
23	0.000E+00	0.000E+00	0.000E+00	0.000E+00
24	0.000E+00	0.000E+00	0.000E+00	0.000E+00
25	0.000E+00	0.000E+00	0.000E+00	0.000E+00
26	0.000E+00	0.000E+00	0.000E+00	0.000E+00
27	2.480E-15	4.040E-15	5.800E-15	0.000E+00
28	3.073E+04	3.423E+04	3.690E+04	1.571E-16
29	1.982E+07	2.207E+07	2.379E+07	4.077E+03
30	1.087E-05	1.161E-05	1.224E-05	2.629E+06
31	8.352E+11	9.301E+11	1.003E+12	8.860E-08
32	2.957E+12	3.294E+12	3.550E+12	1.108E+11
33	1.673E+09	1.909E+09	2.123E+09	3.924E+11
34	3.494E+06	3.891E+06	4.195E+06	1.777E+07
35	1.006E+07	1.121E+07	1.208E+07	4.636E+05
36	1.592E+08	1.773E+08	1.911E+08	1.335E+06
37	1.213E+08	1.351E+08	1.457E+08	2.112E+07
38	2.444E+09	2.721E+09	2.934E+09	1.610E+07
39	1.013E+10	1.128E+10	1.216E+10	3.242E+08
40	7.984E+10	8.890E+10	9.581E+10	1.344E+09
Total	3.887E+12	4.329E+12	4.666E+12	5.049E+11

1 Conservatively based on 10 year cooled fuel at the applicable nominal enrichment.
2 Conservatively based on 20 year cooled fuel at minimum enrichment.

With the exception of the Rod Cluster Control Assemblies (RCCAs), the non-fuel assembly hardware is handled in an identical fashion. The RCCAs are withdrawn from the fuel assemblies during irradiation in the core, making the RCCA regions (above top, top, plenum, core) different than those in the fuel assembly itself. In order to add the RCCA sources to those of the fuel assembly, the data provided in Table A5.2-5 is mapped to the fuel assembly source regions. This is done using the following mapping function:

Mapped RCCA Region	Function
Top	=(AboveSource)(FuelTopHeight)/(RCCAAbove)
Plenum	=(AboveSource)(FuelPlenumHeight)/(RCCAAbove)
Core	=(AboveSource)(RCCAAbove - FuelTopHeight - FuelPlenumHeight)/(RCCAAbove) + TopSource + PlenumSource + FuelSource

Where AboveSource, TopSource, PlenumSource, and FuelSource are the groupwise RCCA sources from Table A5.2-5, RCCAAbove is the height of the RCCA above top nozzle region, and FuelTopHeight is the height of the fuel top nozzle region (8.6 in) and FuelPlenumHeight is