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Mr. John Goshen
c/o Document Control Desk
U. S. Nuclear Regulatory Commission
Washington, DC 20555-0001

April 13, 2010

Subject: Submittal of Calculation Packages and Computer Input and Analysis Files for the HI-STORM FW MPC Storage System License Application

References:

- [1] Holtec Letter 5018004 dated September 18, 2009
- [2] NRC Letter (Goshen) to Holtec (Morin), dated March 24, 2010
- [3] USNRC Docket No. 72-1032, TAC L24321

Dear Mr. Goshen:

By letter dated September 18, 2009 [1], Holtec submitted a license application (LA) request for certification of the HI-STORM FW MPC Storage System Under 10CFR72, Subpart L. This LA submittal did not contain calculation packages and computer input and analysis files supporting the safety analysis report (SAR).

Recently the NRC requested calculation packages and computer input and analysis files on a different Holtec licensing amendment request (LAR) in the NRC letter dated March 25, 2010 [2]. The NRC indicated in this letter that the review of the LAR was ceased until the files were provided. As a proactive measure to avoid disruption of the HI-STORM FW LA, Holtec is sending the calculation packages and computer input and analysis files with this letter.

Due to the size of the calculation packages Holtec herein provides these documents and computer files as enclosures to this letter as follows:

- Enclosure 1: Criticality calculation package HI-2094432, Revision 0.
- Enclosure 2: Thermal calculation package HI-2094400, Revision 0.
- Enclosure 3: Thermal calculation package HI-2094356, Revision 0.
- Enclosure 4: Shielding calculation package HI-2094431, Revision 0.
- Enclosure 5: Structural calculation package HI-2094353, Revision 0.
- Enclosure 6: Structural calculation package HI-2094392, Revision 1.
- Enclosure 7: Structural calculation package HI-2094418, Revision 1.
- Enclosure 8: Hard Drive containing electronic copies of the calculation packages in Enclosures 1 through 7 and the applicable computer input and analysis files for those calculation packages. Enclosure 8 (hard drive) is only sent in the package to the Spent Fuel Storage and Transportation office and not in the package to the USNRC Document Control Desk.

NM5501



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Enclosure 9: Ultrium Tape containing electronic copies of the calculation packages in Enclosures 1 through 7 and the applicable computer input and analysis files for those calculation packages. Enclosure 9 (Ultrium Tape) is only sent in the package to the USNRC Document Control Desk and not in the package to the Spent Fuel Storage and Transportation office.

Attachment 1 to this letter provides a complete listing of all the files on the hard drive and ultrium tape.

The hard drive can be identified by the following:

Manufacturer: WD – My Passport
Total Storage Capacity: 320 GB
PN: WDBAAA3200ABK-00
SN: WXF0EA9RE20

The Ultrium Tape can be identified by the following:

Manufacturer: Fujifilm
Type: Ultrium LTO1
Total Storage Capacity: 100 GB
MFG Imprint #'s on tape: 050726 219-0108389 F29502005609 1F100
Holtec Bar-Code identifier: 000710L3

Attachment 2 to this letter is an affidavit prepared in accordance with 10 CFR 2.390 requesting that the calculation packages and computer files transmitted with this letter to be withheld from public disclosure due to their proprietary nature.

We believe our proactive transmittal of this information will allow for uninterrupted review of the HISTORM FW LA. Please do not hesitate to contact us if you require any additional information or clarification.

Sincerely,

Ms. Tammy S. Morin
Licensing Manager
Holtec Technical Services
Holtec International

cc: Mr. Eric Benner, USNRC
Mr. Douglas Weaver, USNRC
Holtec Group 1

[Criticality]
 0 k in 0 files

[Criticality\calculation packages]
 HI-2094432R0.PDF
 245 k in 1 files

251,742 09/18/2009 16:58 -a--

[Criticality\computer files]

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| fwgtn11o | 471,307 | 09/14/2009 | 13:57 | -a-- |
| fwndn10 | 25,994 | 09/12/2009 | 14:30 | -a-- |
| fwndn10o | 362,067,336 | 09/15/2009 | 11:41 | -a-- |
| fwnsn10 | 30,998 | 09/12/2009 | 14:24 | -a-- |

| | | | | |
|----------|-------------|------------|-------|------|
| fwnsn10o | 276,924,049 | 09/12/2009 | 22:30 | -a-- |
| fwnsn11 | 32,055 | 09/12/2009 | 14:27 | -a-- |
| fwnsn11o | 48,709,672 | 09/12/2009 | 16:33 | -a-- |
| fwntn10 | 23,700 | 09/12/2009 | 14:24 | -a-- |
| fwntn10o | 1,502,312 | 09/12/2009 | 23:32 | -a-- |
| fwntn11 | 24,734 | 09/12/2009 | 14:28 | -a-- |
| fwntn11o | 414,417 | 09/14/2009 | 13:58 | -a-- |
| fwpbn10 | 31,135 | 01/28/2010 | 10:57 | -a-- |
| fwpbn10o | 162,177,705 | 02/25/2010 | 21:27 | -a-- |
| fwpbn11 | 32,192 | 01/28/2010 | 12:01 | -a-- |
| fwpbn11o | 187,529,240 | 02/25/2010 | 21:53 | -a-- |
| fwpdn10 | 26,086 | 09/14/2009 | 14:19 | -a-- |
| fwpdn10o | 614,257,721 | 09/16/2009 | 07:48 | -a-- |
| fwpsn10 | 31,095 | 09/12/2009 | 14:25 | -a-- |
| fwpsn10o | 73,044,443 | 09/12/2009 | 17:14 | -a-- |
| fwpsn11 | 32,152 | 09/12/2009 | 14:28 | -a-- |
| fwpsn11o | 76,824,593 | 09/14/2009 | 15:47 | -a-- |
| fwptn10 | 23,837 | 09/12/2009 | 14:25 | -a-- |
| fwptn10o | 2,745,751 | 09/12/2009 | 19:50 | -a-- |
| fwptn11 | 24,871 | 09/12/2009 | 14:28 | -a-- |
| fwptn11o | 2,375,226 | 09/14/2009 | 15:54 | -a-- |
| wvcbn10 | 17,099 | 04/07/2010 | 15:36 | -a-- |
| wvcbn10o | 232,776 | 04/07/2010 | 15:37 | -a-- |
| wvcbn12 | 17,099 | 04/07/2010 | 15:36 | -a-- |
| wvcbn12o | 430,428 | 04/07/2010 | 15:37 | -a-- |
| wvcbn13 | 17,099 | 04/07/2010 | 15:36 | -a-- |
| wvcbn13o | 341,463 | 04/07/2010 | 15:37 | -a-- |
| wvcbn14 | 18,348 | 04/07/2010 | 15:36 | -a-- |
| wvcbn14o | 292,523 | 04/07/2010 | 15:37 | -a-- |
| wvcbn15 | 18,352 | 04/07/2010 | 15:36 | -a-- |
| wvcbn15o | 281,509 | 04/07/2010 | 15:37 | -a-- |
| wvcbn16 | 17,745 | 04/07/2010 | 15:36 | -a-- |
| wvcbn16o | 307,724 | 04/07/2010 | 15:37 | -a-- |
| wvcbn18 | 19,443 | 04/07/2010 | 15:36 | -a-- |
| wvcbn18o | 387,824 | 04/07/2010 | 15:37 | -a-- |
| wvcbn19 | 19,450 | 04/07/2010 | 15:36 | -a-- |
| wvcbn19o | 387,490 | 04/07/2010 | 15:37 | -a-- |
| wwcdn10 | 19,461 | 04/07/2010 | 15:36 | -a-- |
| wwcdn10o | 17,438,079 | 04/07/2010 | 15:37 | -a-- |
| wwcsn10 | 19,813 | 04/07/2010 | 15:36 | -a-- |
| wwcsn10o | 155,355,360 | 04/07/2010 | 15:38 | -a-- |
| wwcsn12 | 19,813 | 04/07/2010 | 15:36 | -a-- |
| wwcsn12o | 16,226,202 | 04/07/2010 | 15:38 | -a-- |
| wwcsn13 | 19,813 | 04/07/2010 | 15:36 | -a-- |
| wwcsn13o | 16,210,001 | 04/07/2010 | 15:38 | -a-- |
| wwcsn14 | 21,060 | 04/07/2010 | 15:36 | -a-- |
| wwcsn14o | 9,328,677 | 04/07/2010 | 15:38 | -a-- |
| wwcsn15 | 21,064 | 04/07/2010 | 15:36 | -a-- |
| wwcsn15o | 9,322,468 | 04/07/2010 | 15:38 | -a-- |
| wwcsn16 | 20,330 | 04/07/2010 | 15:36 | -a-- |
| wwcsn16o | 17,173,319 | 04/07/2010 | 15:38 | -a-- |
| wwcsn18 | 22,028 | 04/07/2010 | 15:36 | -a-- |
| wwcsn18o | 14,321,604 | 04/07/2010 | 15:38 | -a-- |
| wwcsn19 | 22,035 | 04/07/2010 | 15:36 | -a-- |
| wwcsn19o | 14,322,211 | 04/07/2010 | 15:38 | -a-- |
| wwctn10 | 17,277 | 04/07/2010 | 15:36 | -a-- |
| wwctn10o | 275,112 | 04/07/2010 | 15:38 | -a-- |

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|----------|-------------|------------|-------|------|
| vwctn12 | 17,277 | 04/07/2010 | 15:36 | -a-- |
| vwctn12o | 833,337 | 04/07/2010 | 15:38 | -a-- |
| vwctn13 | 17,277 | 04/07/2010 | 15:36 | -a-- |
| vwctn13o | 876,427 | 04/07/2010 | 15:38 | -a-- |
| vwctn14 | 18,489 | 04/07/2010 | 15:36 | -a-- |
| vwctn14o | 649,168 | 04/07/2010 | 15:38 | -a-- |
| vwctn15 | 18,493 | 04/07/2010 | 15:36 | -a-- |
| vwctn15o | 649,116 | 04/07/2010 | 15:38 | -a-- |
| vwctn16 | 17,886 | 04/07/2010 | 15:36 | -a-- |
| vwctn16o | 878,458 | 04/07/2010 | 15:38 | -a-- |
| vwctn18 | 19,584 | 04/07/2010 | 15:36 | -a-- |
| vwctn18o | 793,829 | 04/07/2010 | 15:38 | -a-- |
| vwctn19 | 19,591 | 04/07/2010 | 15:36 | -a-- |
| vwctn19o | 793,897 | 04/07/2010 | 15:38 | -a-- |
| wgbn10 | 17,343 | 04/07/2010 | 15:36 | -a-- |
| wgbn10o | 1,098,747 | 04/07/2010 | 15:38 | -a-- |
| wgbn12 | 17,343 | 04/07/2010 | 15:36 | -a-- |
| wgbn12o | 945,329 | 04/07/2010 | 15:38 | -a-- |
| wgbn13 | 17,343 | 04/07/2010 | 15:36 | -a-- |
| wgbn13o | 1,165,643 | 04/07/2010 | 15:38 | -a-- |
| wgbn14 | 18,566 | 04/07/2010 | 15:36 | -a-- |
| wgbn14o | 1,602,022 | 04/07/2010 | 15:38 | -a-- |
| wgbn15 | 18,570 | 04/07/2010 | 15:36 | -a-- |
| wgbn15o | 1,540,321 | 04/07/2010 | 15:38 | -a-- |
| wgbn16 | 17,975 | 04/07/2010 | 15:36 | -a-- |
| wgbn16o | 1,608,639 | 04/07/2010 | 15:38 | -a-- |
| wgbn18 | 19,673 | 04/07/2010 | 15:36 | -a-- |
| wgbn18o | 1,609,012 | 04/07/2010 | 15:38 | -a-- |
| wgbn19 | 19,680 | 04/07/2010 | 15:36 | -a-- |
| wgbn19o | 1,584,540 | 04/07/2010 | 15:38 | -a-- |
| wgdn10 | 19,679 | 04/07/2010 | 15:36 | -a-- |
| wgdn10o | 41,846,292 | 04/07/2010 | 15:38 | -a-- |
| wgsn10 | 20,054 | 04/07/2010 | 15:36 | -a-- |
| wgsn10o | 127,065,697 | 04/07/2010 | 15:39 | -a-- |
| wgsn12 | 20,054 | 04/07/2010 | 15:36 | -a-- |
| wgsn12o | 102,170,603 | 04/07/2010 | 15:39 | -a-- |
| wgsn13 | 20,054 | 04/07/2010 | 15:36 | -a-- |
| wgsn13o | 101,883,460 | 04/07/2010 | 15:39 | -a-- |
| wgsn14 | 21,278 | 04/07/2010 | 15:36 | -a-- |
| wgsn14o | 71,425,529 | 04/07/2010 | 15:40 | -a-- |
| wgsn15 | 21,282 | 04/07/2010 | 15:36 | -a-- |
| wgsn15o | 71,265,382 | 04/07/2010 | 15:40 | -a-- |
| wgsn16 | 20,560 | 04/07/2010 | 15:36 | -a-- |
| wgsn16o | 88,375,487 | 04/07/2010 | 15:40 | -a-- |
| wgsn18 | 22,258 | 04/07/2010 | 15:36 | -a-- |
| wgsn18o | 72,460,077 | 04/07/2010 | 15:41 | -a-- |
| wgsn19 | 22,265 | 04/07/2010 | 15:36 | -a-- |
| wgsn19o | 75,659,151 | 04/07/2010 | 15:41 | -a-- |
| wgtn10 | 17,518 | 04/07/2010 | 15:36 | -a-- |
| wgtn10o | 1,407,000 | 04/07/2010 | 15:41 | -a-- |
| wgtn12 | 17,518 | 04/07/2010 | 15:36 | -a-- |
| wgtn12o | 1,624,164 | 04/07/2010 | 15:41 | -a-- |
| wgtn13 | 17,518 | 04/07/2010 | 15:36 | -a-- |
| wgtn13o | 1,792,007 | 04/07/2010 | 15:41 | -a-- |
| wgtn14 | 18,707 | 04/07/2010 | 15:36 | -a-- |
| wgtn14o | 1,621,292 | 04/07/2010 | 15:41 | -a-- |
| wgtn15 | 18,711 | 04/07/2010 | 15:36 | -a-- |

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|----------|------------|------------|-------|------|
| vwtgn15o | 1,593,399 | 04/07/2010 | 15:41 | -a-- |
| vwtgn16 | 18,116 | 04/07/2010 | 15:36 | -a-- |
| vwtgn16o | 1,261,341 | 04/07/2010 | 15:41 | -a-- |
| vwtgn18 | 19,814 | 04/07/2010 | 15:36 | -a-- |
| vwtgn18o | 1,063,566 | 04/07/2010 | 15:41 | -a-- |
| vwtgn19 | 19,821 | 04/07/2010 | 15:36 | -a-- |
| vwtgn19o | 1,017,068 | 04/07/2010 | 15:41 | -a-- |
| vwnbn10 | 16,993 | 04/07/2010 | 15:36 | -a-- |
| vwnbn10o | 254,632 | 04/07/2010 | 15:41 | -a-- |
| vwnbn12 | 16,993 | 04/07/2010 | 15:36 | -a-- |
| vwnbn12o | 166,433 | 04/07/2010 | 15:41 | -a-- |
| vwnbn13 | 16,993 | 04/07/2010 | 15:36 | -a-- |
| vwnbn13o | 167,616 | 04/07/2010 | 15:41 | -a-- |
| vwnbn14 | 18,243 | 04/07/2010 | 15:36 | -a-- |
| vwnbn14o | 175,587 | 04/07/2010 | 15:41 | -a-- |
| vwnbn15 | 18,247 | 04/07/2010 | 15:36 | -a-- |
| vwnbn15o | 174,160 | 04/07/2010 | 15:41 | -a-- |
| vwnbn16 | 17,652 | 04/07/2010 | 15:36 | -a-- |
| vwnbn16o | 174,321 | 04/07/2010 | 15:41 | -a-- |
| vwnbn18 | 19,350 | 04/07/2010 | 15:36 | -a-- |
| vwnbn18o | 180,257 | 04/07/2010 | 15:41 | -a-- |
| vwnbn19 | 19,357 | 04/07/2010 | 15:36 | -a-- |
| vwnbn19o | 257,005 | 04/07/2010 | 15:41 | -a-- |
| vwndn10 | 19,329 | 04/07/2010 | 15:36 | -a-- |
| vwndn10o | 15,523,929 | 04/07/2010 | 15:41 | -a-- |
| vwnsn10 | 19,686 | 04/07/2010 | 15:36 | -a-- |
| vwnsn10o | 15,333,998 | 04/07/2010 | 15:41 | -a-- |
| vwnsn12 | 19,686 | 04/07/2010 | 15:36 | -a-- |
| vwnsn12o | 12,278,752 | 04/07/2010 | 15:41 | -a-- |
| vwnsn13 | 19,686 | 04/07/2010 | 15:36 | -a-- |
| vwnsn13o | 15,304,920 | 04/07/2010 | 15:41 | -a-- |
| vwnsn14 | 20,935 | 04/07/2010 | 15:36 | -a-- |
| vwnsn14o | 12,284,664 | 04/07/2010 | 15:41 | -a-- |
| vwnsn15 | 20,939 | 04/07/2010 | 15:36 | -a-- |
| vwnsn15o | 12,297,400 | 04/07/2010 | 15:41 | -a-- |
| vwnsn16 | 20,217 | 04/07/2010 | 15:36 | -a-- |
| vwnsn16o | 13,068,697 | 04/07/2010 | 15:41 | -a-- |
| vwnsn18 | 21,915 | 04/07/2010 | 15:36 | -a-- |
| vwnsn18o | 9,837,171 | 04/07/2010 | 15:41 | -a-- |
| vwnsn19 | 21,922 | 04/07/2010 | 15:36 | -a-- |
| vwnsn19o | 9,840,318 | 04/07/2010 | 15:42 | -a-- |
| vwntn10 | 17,139 | 04/07/2010 | 15:36 | -a-- |
| vwntn10o | 186,648 | 04/07/2010 | 15:42 | -a-- |
| vwntn12 | 17,139 | 04/07/2010 | 15:36 | -a-- |
| vwntn12o | 198,788 | 04/07/2010 | 15:42 | -a-- |
| vwntn13 | 17,139 | 04/07/2010 | 15:36 | -a-- |
| vwntn13o | 201,506 | 04/07/2010 | 15:42 | -a-- |
| vwntn14 | 18,384 | 04/07/2010 | 15:36 | -a-- |
| vwntn14o | 202,693 | 04/07/2010 | 15:42 | -a-- |
| vwntn15 | 18,388 | 04/07/2010 | 15:36 | -a-- |
| vwntn15o | 199,559 | 04/07/2010 | 15:42 | -a-- |
| vwntn16 | 17,793 | 04/07/2010 | 15:36 | -a-- |
| vwntn16o | 203,341 | 04/07/2010 | 15:42 | -a-- |
| vwntn18 | 19,491 | 04/07/2010 | 15:36 | -a-- |
| vwntn18o | 201,414 | 04/07/2010 | 15:42 | -a-- |
| vwntn19 | 19,498 | 04/07/2010 | 15:36 | -a-- |
| vwntn19o | 197,328 | 04/07/2010 | 15:42 | -a-- |

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|-----------|------------|------------|-------|------|
| vwpgbn10 | 17,134 | 04/07/2010 | 15:36 | -a-- |
| vwpgbn10o | 700,462 | 04/07/2010 | 15:42 | -a-- |
| vwpgbn12 | 17,134 | 04/07/2010 | 15:36 | -a-- |
| vwpgbn12o | 1,086,220 | 04/07/2010 | 15:42 | -a-- |
| vwpgbn13 | 17,134 | 04/07/2010 | 15:36 | -a-- |
| vwpgbn13o | 1,290,513 | 04/07/2010 | 15:42 | -a-- |
| vwpgbn14 | 18,380 | 04/07/2010 | 15:36 | -a-- |
| vwpgbn14o | 1,116,666 | 04/07/2010 | 15:42 | -a-- |
| vwpgbn15 | 18,384 | 04/07/2010 | 15:36 | -a-- |
| vwpgbn15o | 1,087,258 | 04/07/2010 | 15:42 | -a-- |
| vwpgbn16 | 17,789 | 04/07/2010 | 15:36 | -a-- |
| vwpgbn16o | 937,543 | 04/07/2010 | 15:42 | -a-- |
| vwpgbn18 | 19,487 | 04/07/2010 | 15:36 | -a-- |
| vwpgbn18o | 1,074,775 | 04/07/2010 | 15:42 | -a-- |
| vwpgbn19 | 19,494 | 04/07/2010 | 15:36 | -a-- |
| vwpgbn19o | 1,057,710 | 04/07/2010 | 15:42 | -a-- |
| vwpgdn10 | 19,451 | 04/07/2010 | 15:36 | -a-- |
| vwpgdn10o | 32,889,086 | 04/07/2010 | 15:42 | -a-- |
| vwpgsn10 | 19,817 | 04/07/2010 | 15:36 | -a-- |
| vwpgsn10o | 29,691,298 | 04/07/2010 | 15:42 | -a-- |
| vwpgsn12 | 19,817 | 04/07/2010 | 15:36 | -a-- |
| vwpgsn12o | 26,927,692 | 04/07/2010 | 15:42 | -a-- |
| vwpgsn13 | 19,817 | 04/07/2010 | 15:36 | -a-- |
| vwpgsn13o | 26,892,391 | 04/07/2010 | 15:42 | -a-- |
| vwpgsn14 | 21,064 | 04/07/2010 | 15:36 | -a-- |
| vwpgsn14o | 26,942,855 | 04/07/2010 | 15:42 | -a-- |
| vwpgsn15 | 21,068 | 04/07/2010 | 15:36 | -a-- |
| vwpgsn15o | 26,922,645 | 04/07/2010 | 15:42 | -a-- |
| vwpgsn16 | 20,346 | 04/07/2010 | 15:36 | -a-- |
| vwpgsn16o | 25,758,609 | 04/07/2010 | 15:42 | -a-- |
| vwpgsn18 | 22,044 | 04/07/2010 | 15:36 | -a-- |
| vwpgsn18o | 28,655,557 | 04/07/2010 | 15:43 | -a-- |
| vwpgsn19 | 22,051 | 04/07/2010 | 15:36 | -a-- |
| vwpgsn19o | 28,662,511 | 04/07/2010 | 15:43 | -a-- |
| vwpgtn10 | 17,309 | 04/07/2010 | 15:36 | -a-- |
| vwpgtn10o | 857,899 | 04/07/2010 | 15:43 | -a-- |
| vwpgtn12 | 17,309 | 04/07/2010 | 15:36 | -a-- |
| vwpgtn12o | 958,893 | 04/07/2010 | 15:43 | -a-- |
| vwpgtn13 | 17,309 | 04/07/2010 | 15:36 | -a-- |
| vwpgtn13o | 1,437,003 | 04/07/2010 | 15:43 | -a-- |
| vwpgtn14 | 18,521 | 04/07/2010 | 15:36 | -a-- |
| vwpgtn14o | 1,223,552 | 04/07/2010 | 15:43 | -a-- |
| vwpgtn15 | 18,525 | 04/07/2010 | 15:36 | -a-- |
| vwpgtn15o | 1,224,818 | 04/07/2010 | 15:43 | -a-- |
| vwpgtn16 | 17,930 | 04/07/2010 | 15:36 | -a-- |
| vwpgtn16o | 1,368,548 | 04/07/2010 | 15:43 | -a-- |
| vwpgtn18 | 19,628 | 04/07/2010 | 15:36 | -a-- |
| vwpgtn18o | 1,571,386 | 04/07/2010 | 15:43 | -a-- |
| vwpgtn19 | 19,635 | 04/07/2010 | 15:36 | -a-- |
| vwpgtn19o | 1,581,187 | 04/07/2010 | 15:43 | -a-- |

5,721,855 k in 244 files

[Shielding\computer files\post-processed]

0 k in 0 files

[Shielding\computer files\post-processed\HI-STORM]

0 k in 0 files

[Shielding\computer files\post-processed\HI-STORM\Distance]
0 k in 0 files

[Shielding\computer files\post-processed\HI-STORM\Distance\F37]
0 k in 0 files

[Shielding\computer files\post-processed\HI-STORM\Distance\F37\postprocess]
dose_rates3d.dat 168,096 10/13/2009 13:36 -a--
164 k in 1 files

[Shielding\computer files\post-processed\HI-STORM\Surface]
0 k in 0 files

[Shielding\computer files\post-processed\HI-STORM\Surface\F37]
0 k in 0 files

[Shielding\computer files\post-processed\HI-STORM\Surface\F37\post-process]
0 k in 0 files

[Shielding\computer files\post-processed\HI-STORM\Surface\F37\post-process\bottom vents]
dose_rates.dat 106,908 02/26/2010 04:14 -a--
104 k in 1 files

[Shielding\computer files\post-processed\HI-STORM\Surface\F37\post-process\bottom vents\max]
dose_rates.dat 95,948 02/26/2010 04:10 -a--
93 k in 1 files

[Shielding\computer files\post-processed\HI-STORM\Surface\F37\post-process\bottom vents\results]
dose_rates.dat 107,502 02/26/2010 04:12 -a--
104 k in 1 files

[Shielding\computer files\post-processed\HI-STORM\Surface\F37\post-process\bottom vents-old-notused]
dose_rates.dat 106,908 09/17/2009 12:53 -a--
104 k in 1 files

[Shielding\computer files\post-processed\HI-STORM\Surface\F37\post-process\bottom vents-old-notused\max]
dose_rates.dat 95,948 09/17/2009 12:53 -a--
93 k in 1 files

[Shielding\computer files\post-processed\HI-STORM\Surface\F37\post-process\bottom vents-old-notused\results]
dose_rates.dat 107,502 09/17/2009 12:55 -a--
104 k in 1 files

[Shielding\computer files\post-processed\HI-STORM\Surface\F37\post-process\side]
dose_rates1s.dat 246,882 10/13/2009 11:24 -a--
241 k in 1 files

[Shielding\computer files\post-processed\HI-STORM\Surface\F37\post-process\side\max]
dose_rates.dat 22,730 09/17/2009 13:16 -a--
22 k in 1 files

[Shielding\computer files\post-processed\HI-STORM\Surface\F37\post-process\top]
dose_rates1t.dat 7,274 10/13/2009 11:24 -a--
7 k in 1 files

[Shielding\computer files\post-processed\HI-STORM\Surface\F89]
0 k in 0 files

[Shielding\computer files\post-processed\HI-STORM\Surface\F89\postprocess]
0 k in 0 files

[Shielding\computer files\post-processed\HI-STORM\Surface\F89\postprocess\bottom vents]
dose_rates.dat 90,131 02/26/2010 04:31 -a--
88 k in 1 files

[Shielding\computer files\post-processed\HI-STORM\Surface\F89\postprocess\bottom vents\max]
dose_rates.dat 9,985 02/26/2010 04:24 -a--
9 k in 1 files

[Shielding\computer files\post-processed\HI-STORM\Surface\F89\postprocess\bottom vents\results]
dose_rates.dat 90,522 02/26/2010 04:28 -a--
88 k in 1 files

[Shielding\computer files\post-processed\HI-STORM\Surface\F89\postprocess\bottom vents-old-notused]
dose_rates.dat 195,946 09/17/2009 08:56 -a--
191 k in 1 files

[Shielding\computer files\post-processed\HI-STORM\Surface\F89\postprocess\bottom vents-old-notused\max]
dose_rates.dat 9,985 09/17/2009 13:47 -a--
9 k in 1 files

[Shielding\computer files\post-processed\HI-STORM\Surface\F89\postprocess\bottom vents-old-notused\results]
dose_rates.dat 90,522 09/17/2009 09:04 -a--
88 k in 1 files

[Shielding\computer files\post-processed\HI-STORM\Surface\F89\postprocess\side]
dose_rates2s.dat 209,094 10/13/2009 11:25 -a--
204 k in 1 files

[Shielding\computer files\post-processed\HI-STORM\Surface\F89\postprocess\side\max]
dose_rates.dat 20,719 09/17/2009 14:07 -a--
20 k in 1 files

[Shielding\computer files\post-processed\HI-STORM\Surface\F89\postprocess\top]
dose_rates2t.dat 6,061 10/13/2009 11:25 -a--
5 k in 1 files

[Shielding\computer files\post-processed\HI-TRAC]
0 k in 0 files

[Shielding\computer files\post-processed\HI-TRAC\Distance]
0 k in 0 files

[Shielding\computer files\post-processed\HI-TRAC\Distance\F37]
0 k in 0 files

[Shielding\computer files\post-processed\HI-TRAC\Distance\F37\postprocess]
dose_rates5d.dat 6,750 10/13/2009 11:55 -a--
6 k in 1 files

[Shielding\computer files\post-processed\HI-TRAC\Surface]
0 k in 0 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F37]
0 k in 0 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F37\Scenario1]
0 k in 0 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F37\Scenario1\postprocess]
0 k in 0 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F37\Scenario1\postprocess\1meter]
dose_rates4sa.dat 46,184 10/13/2009 11:31 -a--
45 k in 1 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F37\Scenario1\postprocess\bolt holes]
dose_rates.dat 2,510 09/17/2009 10:35 -a--
2 k in 1 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F37\Scenario1\postprocess\bottom]
dose_rates4b.dat 2,184 10/13/2009 11:30 -a--
2 k in 1 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F37\Scenario1\postprocess\side]
dose_rates4s.dat 89,642 10/13/2009 11:30 -a--
87 k in 1 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F37\Scenario1\postprocess\side\max]
dose_rates.dat 11,408 09/17/2009 10:15 -a--
11 k in 1 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F37\Scenario1\postprocess\top]
dose_rates4t.dat 2,754 10/13/2009 11:30 -a--
2 k in 1 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F37\Scenario2]
0 k in 0 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F37\Scenario2\postprocess]
0 k in 0 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F37\Scenario2\postprocess\1meter]
dose_rates5sa.dat 47,026 10/13/2009 11:33 -a--
45 k in 1 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F37\Scenario2\postprocess\bottom]
dose_rates5b.dat 2,188 10/13/2009 11:32 -a--
2 k in 1 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F37\Scenario2\postprocess\side]
dose_rates5s.dat 90,782 10/13/2009 11:31 -a--
88 k in 1 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F37\Scenario2\postprocess\top]
dose_rates5t.dat 2,760 10/13/2009 11:32 -a--

2 k in 1 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F37\Scenario3]

0 k in 0 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F37\Scenario3\postprocess]

0 k in 0 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F37\Scenario3\postprocess\bottom]

dose_rates6b.dat 2,153 10/13/2009 11:34 -a--

2 k in 1 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F37\Scenario3\postprocess\side]

dose_rates6s.dat 88,702 10/13/2009 11:34 -a--

86 k in 1 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F37\Scenario3\postprocess\side\max]

dose_rates.dat 11,279 09/17/2009 10:58 -a--

11 k in 1 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F37\Scenario3\postprocess\top]

dose_rates6t.dat 2,677 10/13/2009 11:34 -a--

2 k in 1 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F37\Scenario4]

0 k in 0 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F37\Scenario4\postprocess]

0 k in 0 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F37\Scenario4\postprocess\bottom]

dose_rates7b.dat 2,152 10/13/2009 11:34 -a--

2 k in 1 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F37\Scenario4\postprocess\side]

dose_rates7s.dat 87,193 10/13/2009 11:35 -a--

85 k in 1 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F37\Scenario4\postprocess\side\max]

dose_rates.dat 11,089 09/17/2009 10:58 -a--

10 k in 1 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F37\Scenario4\postprocess\top]

dose_rates7t.dat 2,676 10/13/2009 11:35 -a--

2 k in 1 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F89]

0 k in 0 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F89\Scenario1]

0 k in 0 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F89\Scenario1\postprocess]

0 k in 0 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F89\Scenario1\postprocess\bolt holes]

dose_rates.dat 2,347 09/17/2009 11:04 -a--

2 k in 1 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F89\Scenario1\postprocess\bottom]
dose_rates8b.dat 1,789 10/13/2009 11:36 -a--
1 k in 1 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F89\Scenario1\postprocess\side]
dose_rates8s.dat 80,182 10/13/2009 11:36 -a--
78 k in 1 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F89\Scenario1\postprocess\side\max]
dose_rates.dat 10,261 09/17/2009 11:04 -a--
10 k in 1 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F89\Scenario1\postprocess\top]
dose_rates8t.dat 2,231 10/13/2009 11:36 -a--
2 k in 1 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F89\Scenario2]
0 k in 0 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F89\Scenario2\postprocess]
0 k in 0 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F89\Scenario2\postprocess\bottom]
dose_rates9b.dat 1,787 10/13/2009 11:36 -a--
1 k in 1 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F89\Scenario2\postprocess\side]
dose_rates9s.dat 81,142 10/13/2009 11:36 -a--
79 k in 1 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F89\Scenario2\postprocess\top]
dose_rates9t.dat 2,233 10/13/2009 11:37 -a--
2 k in 1 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F89\Scenario3]
0 k in 0 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F89\Scenario3\postprocess]
0 k in 0 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F89\Scenario3\postprocess\bolt holes]
dose_rates.dat 2,349 09/17/2009 11:05 -a--
2 k in 1 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F89\Scenario3\postprocess\bottom]
dose_rates10b.dat 1,744 10/13/2009 11:37 -a--
1 k in 1 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F89\Scenario3\postprocess\side]
dose_rates10s.dat 79,502 10/13/2009 11:37 -a--
77 k in 1 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F89\Scenario3\postprocess\side\max]
dose_rates.dat 10,157 09/17/2009 11:06 -a--
9 k in 1 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F89\Scenario3\postprocess\top]
 dose_rates10t.dat 2,185 10/13/2009 11:37 -a--
 2 k in 1 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F89\Scenario4]
 0 k in 0 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F89\Scenario4\postprocess]
 0 k in 0 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F89\Scenario4\postprocess\bolt holes]
 dose_rates.dat 2,337 09/17/2009 11:07 -a--
 2 k in 1 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F89\Scenario4\postprocess\bottom]
 dose_rates11b.dat 1,741 10/13/2009 11:38 -a--
 1 k in 1 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F89\Scenario4\postprocess\side]
 dose_rates11s.dat 77,983 10/13/2009 11:38 -a--
 76 k in 1 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F89\Scenario4\postprocess\side\max]
 dose_rates.dat 9,966 09/17/2009 11:07 -a--
 9 k in 1 files

[Shielding\computer files\post-processed\HI-TRAC\Surface\F89\Scenario4\postprocess\top]
 dose_rates11t.dat 2,184 10/13/2009 11:38 -a--
 2 k in 1 files

[Shielding\computer files\SOURCE TERMS]
 0 k in 0 files

[Shielding\computer files\SOURCE TERMS\ORIGEN]
 0 k in 0 files

[Shielding\computer files\SOURCE TERMS\ORIGEN\BWR]
 l45a3e3a.inp 6,850 09/10/2009 10:13 -a--
 l45a3e3a.out 363,026 09/10/2009 10:33 -a--
 l45a3e3c.inp 6,865 09/10/2009 10:13 -a--
 l45a3e3c.out 364,029 09/10/2009 10:33 -a--
 l65a4q3a.inp 8,931 09/10/2009 10:21 -a--
 l65a4q3a.out 463,235 09/10/2009 10:31 -a--
 l65a4q3c.inp 8,946 09/10/2009 10:22 -a--
 l65a4q3c.out 456,206 09/10/2009 10:32 -a--
 1,638 k in 8 files

[Shielding\computer files\SOURCE TERMS\ORIGEN\PWR]
 m45a3m3d.inp 6,791 09/10/2009 10:14 -a--
 m45a3m3d.out 368,013 09/10/2009 10:33 -a--
 m45a3m3e.inp 6,807 09/10/2009 10:15 -a--
 m45a3m3e.out 368,964 09/10/2009 10:32 -a--
 m65a4q3b.inp 8,864 09/10/2009 10:26 -a--
 m65a4q3b.out 460,642 09/10/2009 10:30 -a--
 m65a4q3c.inp 8,881 09/10/2009 10:27 -a--
 m65a4q3c.out 461,647 09/10/2009 10:30 -a--

1,650 k in 8 files

[Shielding\computer files\SOURCE TERMS\SAS2H]
0 k in 0 files

[Shielding\computer files\SOURCE TERMS\SAS2HBWR]

| | | | | |
|--------------|------------|------------|-------|------|
| I75a3e1a.inp | 2,881 | 08/07/2009 | 10:06 | -a-- |
| I75a3e1a.out | 34,926,157 | 08/23/2009 | 17:11 | -a-- |
| I75a4q1b.inp | 2,881 | 09/07/2009 | 12:12 | -a-- |
| I75a4q1b.out | 34,915,006 | 09/07/2009 | 16:44 | -a-- |

68,209 k in 4 files

[Shielding\computer files\SOURCE TERMS\SAS2HIPWR]

| | | | | |
|--------------|------------|------------|-------|------|
| m75a3m1b.inp | 2,918 | 08/07/2009 | 10:02 | -a-- |
| m75a3m1b.out | 31,865,220 | 08/23/2009 | 14:08 | -a-- |
| m75a4q1c.inp | 2,918 | 09/07/2009 | 12:18 | -a-- |
| m75a4q1c.out | 31,853,529 | 09/07/2009 | 14:38 | -a-- |

62,231 k in 4 files

[Structural]
0 k in 0 files

[Structural\calculation packages]

| | | | | |
|------------------|-----------|------------|-------|------|
| HI-2094353R0.PDF | 1,316,996 | 09/18/2009 | 16:00 | -a-- |
| HI-2094392R1.pdf | 433,392 | 12/18/2009 | 16:32 | -a-- |
| HI-2094418R1.pdf | 892,167 | 12/18/2009 | 16:37 | -a-- |

2,580 k in 3 files

[Structural\computer files]
0 k in 0 files

[Structural\computer files\HI-2094418 Inputs and Results]
0 k in 0 files

[Structural\computer files\HI-2094418 Inputs and Results\Calc 1 - MPC Stress Analysis]

| | | | | |
|---|------------|------------|-------|------|
| 00HSFW-MPC-Mesh Sensitivity.inp | 1,065 | 12/17/2009 | 13:09 | -a-- |
| 00HSFW-MPC-Pressure + Lifting.inp | 13,987 | 09/14/2009 | 11:58 | -a-- |
| Attachment 1.pdf | 54,702 | 12/18/2009 | 12:40 | -a-- |
| Baseplate Center Linearized Stress - Case 1.png | 10,538 | 09/15/2009 | 12:47 | -a-- |
| Baseplate Center Linearized Stress - Case 2.png | 10,666 | 09/15/2009 | 12:47 | -a-- |
| Baseplate Center Linearized Stress - Case 3.png | 10,479 | 09/15/2009 | 12:47 | -a-- |
| Calc 1.pdf | 200,856 | 12/18/2009 | 12:52 | -a-- |
| HSFW-MPC.db | 11,730,944 | 12/16/2009 | 18:18 | -a-- |
| HSFW-MPC.rdb | 15,990,784 | 09/14/2009 | 12:00 | -a-- |
| HSFW-MPC.rst | 98,238,464 | 09/14/2009 | 12:06 | -a-- |
| HSFW-MPC-Mesh Sensitivity.png | 76,331 | 12/17/2009 | 14:49 | -a-- |
| HSFW-MPC-MS.rst | 32,571,392 | 12/17/2009 | 13:12 | -a-- |
| Juncture Linearized Stress - Case 1.png | 10,633 | 09/15/2009 | 12:47 | -a-- |
| Juncture Linearized Stress - Case 3.png | 10,626 | 09/15/2009 | 12:47 | -a-- |
| MPC FEM + Temp.png | 51,756 | 09/10/2009 | 11:36 | -a-- |
| MPC Stress - Case 1.png | 42,763 | 09/15/2009 | 11:56 | -a-- |
| MPC Stress - Case 2.png | 42,896 | 09/15/2009 | 11:56 | -a-- |
| MPC Stress - Case 3.png | 44,272 | 09/15/2009 | 11:56 | -a-- |
| MPC-FEM.png | 54,818 | 09/10/2009 | 11:24 | -a-- |
| Supplement 1.pdf | 240,237 | 12/18/2009 | 12:51 | -a-- |

155,672 k in 20 files

[Structural\computer files\HI-2094418 Inputs and Results\Calc 2 - HI-STORM FW Overpack Lifting Analysis]
 00HSFW Overpack-Lifting.inp 19,920 09/14/2009 12:21 -a--
 Calc 2.pdf 126,455 09/19/2009 19:16 -a--
 HSFW-OVP.rst 21,233,664 09/14/2009 12:25 -a--
 OVP-FEM.png 102,389 09/11/2009 15:28 -a--
 S1.png 57,551 09/15/2009 14:02 -a--
 S3.png 55,762 09/15/2009 14:04 -a--
 Supplement 2.pdf 125,635 09/19/2009 19:17 -a--
 21,212 k in 7 files

[Structural\computer files\HI-2094418 Inputs and Results\Calc 3 - HI-STORM FW Lid Analysis]
 00HSLid-Lifting.inp 18,274 09/28/2009 09:42 -a--
 00HSLid-Tipover.inp 846 09/14/2009 16:24 -a--
 Calc 3.pdf 180,211 09/19/2009 19:25 -a--
 Case 1-S1.png 28,856 09/14/2009 16:32 -a--
 Case 1-S3.png 22,281 09/14/2009 16:33 -a--
 Case 2-S1.png 26,658 09/14/2009 16:34 -a--
 Case 2-S3.png 25,821 09/14/2009 16:34 -a--
 Case 3-SEQV.png 51,069 09/15/2009 10:00 -a--
 Case 3-Upper Shim Plates SEQV Linearized.png 10,042 09/15/2009 10:39 -a--
 Case 3-Upper Shim Plates SEQV.png 26,570 09/15/2009 10:41 -a--
 HSLid.rdb 27,262,976 09/14/2009 16:13 -a--
 HSLid.rst 171,900,928 09/14/2009 16:25 -a--
 HSLid-Tipover.rdb 27,131,904 09/14/2009 16:28 -a--
 HSLid-Tipover.rst 88,604,672 09/14/2009 16:49 -a--
 Lid-FEM.png 64,342 09/14/2009 15:50 -a--
 Supplement 3.pdf 178,428 09/19/2009 19:26 -a--
 308,138 k in 16 files

[Structural\computer files\LS-DYNA]
 0 k in 0 files

[Structural\computer files\LS-DYNA\TIPOVER-37]
 Thumbs.db 177,664 09/22/2009 10:01 -ahs
 173 k in 1 files

[Structural\computer files\LS-DYNA\TIPOVER-37\HPC-RUN]
 0 k in 0 files

[Structural\computer files\LS-DYNA\TIPOVER-37\HPC-RUN\compute-1]
 adptmp 86,403,328 08/06/2009 16:37 -a--
 binout0000 10,615,843 08/06/2009 20:01 -a--
 d3dump01.0000 33,713,200 08/06/2009 20:01 -a--
 d3dump01.0001 29,016,916 08/06/2009 20:01 -a--
 d3dump01.0002 27,036,148 08/06/2009 20:01 -a--
 d3dump01.0003 28,760,044 08/06/2009 20:01 -a--
 d3dump01.0004 26,872,912 08/06/2009 20:01 -a--
 d3dump01.0005 28,639,092 08/06/2009 20:01 -a--
 d3dump01.0006 28,792,184 08/06/2009 20:01 -a--
 d3dump01.0007 29,646,912 08/06/2009 20:01 -a--
 d3full01 396,674,228 08/06/2009 20:01 -a--
 d3hsp 108,208,762 08/06/2009 20:01 -a--
 d3plot 52,576,256 08/06/2009 16:38 -a--
 d3plot01 70,133,760 08/06/2009 16:48 -a--
 d3plot02 70,133,760 08/06/2009 16:54 -a--
 d3plot03 70,133,760 08/06/2009 17:00 -a--
 d3plot04 70,133,760 08/06/2009 17:07 -a--

| | | | | |
|---------------------------|------------|------------|-------|------|
| d3plot05 | 70,133,760 | 08/06/2009 | 17:13 | -a-- |
| d3plot06 | 70,133,760 | 08/06/2009 | 17:20 | -a-- |
| d3plot07 | 70,133,760 | 08/06/2009 | 17:28 | -a-- |
| d3plot08 | 70,133,760 | 08/06/2009 | 17:37 | -a-- |
| d3plot09 | 70,133,760 | 08/06/2009 | 17:46 | -a-- |
| d3plot10 | 70,133,760 | 08/06/2009 | 17:55 | -a-- |
| d3plot11 | 70,133,760 | 08/06/2009 | 18:04 | -a-- |
| d3plot12 | 70,133,760 | 08/06/2009 | 18:12 | -a-- |
| d3plot13 | 70,133,760 | 08/06/2009 | 18:21 | -a-- |
| d3plot14 | 70,133,760 | 08/06/2009 | 18:30 | -a-- |
| d3plot15 | 70,133,760 | 08/06/2009 | 18:39 | -a-- |
| d3plot16 | 70,133,760 | 08/06/2009 | 18:48 | -a-- |
| d3plot17 | 70,133,760 | 08/06/2009 | 18:56 | -a-- |
| d3plot18 | 70,133,760 | 08/06/2009 | 19:05 | -a-- |
| d3plot19 | 70,133,760 | 08/06/2009 | 19:14 | -a-- |
| d3plot20 | 70,133,760 | 08/06/2009 | 19:23 | -a-- |
| d3plot21 | 70,133,760 | 08/06/2009 | 19:31 | -a-- |
| d3plot22 | 70,133,760 | 08/06/2009 | 19:40 | -a-- |
| d3plot23 | 70,133,760 | 08/06/2009 | 19:48 | -a-- |
| d3plot24 | 70,133,760 | 08/06/2009 | 19:57 | -a-- |
| d3plot25 | 70,133,760 | 08/06/2009 | 20:01 | -a-- |
| d3plot26 | 35,067,904 | 08/06/2009 | 20:01 | -a-- |
| dec-mpc-lid-bot.png | 9,225 | 08/07/2009 | 14:09 | -a-- |
| dec-ovpk-lid-concrete.png | 8,699 | 08/07/2009 | 14:07 | -a-- |
| dec-ovpk-top.png | 8,713 | 08/10/2009 | 10:08 | -a-- |
| force-cask-to-pad.png | 8,610 | 08/07/2009 | 14:27 | -a-- |
| glstat | 2,460,146 | 08/06/2009 | 20:01 | -a-- |
| lspost.cfile | 216 | 03/26/2010 | 11:56 | -a-- |
| lspost.msg | 0 | 03/26/2010 | 11:54 | -a-- |
| max-z-disp-pad.png | 7,915 | 08/07/2009 | 14:16 | -a-- |
| mes0000 | 129,832 | 08/06/2009 | 20:01 | -a-- |
| mes0001 | 21,164 | 08/06/2009 | 20:01 | -a-- |
| mes0002 | 22,156 | 08/06/2009 | 20:01 | -a-- |
| mes0003 | 20,410 | 08/06/2009 | 20:01 | -a-- |
| mes0004 | 18,606 | 08/06/2009 | 20:01 | -a-- |
| mes0005 | 21,986 | 08/06/2009 | 20:01 | -a-- |
| mes0006 | 13,170 | 08/06/2009 | 20:01 | -a-- |
| mes0007 | 20,364 | 08/06/2009 | 20:01 | -a-- |
| pstrain-basket.png | 30,211 | 08/07/2009 | 11:27 | -a-- |
| pstrain-bolt.png | 13,348 | 08/07/2009 | 11:35 | -a-- |
| pstrain-cask.png | 22,286 | 08/07/2009 | 11:34 | -a-- |
| pstrain-mpc.png | 19,040 | 08/07/2009 | 11:29 | -a-- |
| pstrain-tubes.png | 16,360 | 08/07/2009 | 11:36 | -a-- |
| scr0000 | 6,683,980 | 08/06/2009 | 16:38 | -a-- |
| scr0000h | 5,437 | 08/06/2009 | 16:38 | -a-- |
| scr0001 | 3,308,205 | 08/06/2009 | 16:38 | -a-- |
| scr0001h | 5,427 | 08/06/2009 | 16:38 | -a-- |
| scr0002 | 3,262,105 | 08/06/2009 | 16:38 | -a-- |
| scr0002h | 5,427 | 08/06/2009 | 16:38 | -a-- |
| scr0003 | 3,161,684 | 08/06/2009 | 16:38 | -a-- |
| scr0003h | 5,427 | 08/06/2009 | 16:38 | -a-- |
| scr0004 | 2,987,007 | 08/06/2009 | 16:38 | -a-- |
| scr0004h | 5,375 | 08/06/2009 | 16:38 | -a-- |
| scr0005 | 3,519,868 | 08/06/2009 | 16:38 | -a-- |
| scr0005h | 5,427 | 08/06/2009 | 16:38 | -a-- |
| scr0006 | 3,083,669 | 08/06/2009 | 16:38 | -a-- |
| scr0006h | 5,325 | 08/06/2009 | 16:38 | -a-- |

| | | | |
|------------|-----------|------------------|------|
| scr0007 | 3,146,246 | 08/06/2009 16:38 | -a-- |
| scr0007h | 5,427 | 08/06/2009 16:38 | -a-- |
| status.out | 1,416 | 08/06/2009 16:38 | -a-- |
| Thumbs.db | 11,264 | 08/18/2009 09:13 | -ahs |

2,643,993 k in 78 files

[Structural\computer files\LS-DYNA\TIPOVER-37\HPC-RUN\compute-2]

| | | | |
|---------------|------------|------------------|------|
| d3dump01.0008 | 26,370,496 | 08/06/2009 20:01 | -a-- |
| d3dump01.0009 | 27,713,500 | 08/06/2009 20:01 | -a-- |
| d3dump01.0010 | 27,248,972 | 08/06/2009 20:01 | -a-- |
| d3dump01.0011 | 28,992,372 | 08/06/2009 20:01 | -a-- |
| d3dump01.0012 | 27,931,684 | 08/06/2009 20:01 | -a-- |
| d3dump01.0013 | 28,911,144 | 08/06/2009 20:01 | -a-- |
| d3dump01.0014 | 29,385,368 | 08/06/2009 20:01 | -a-- |
| d3dump01.0015 | 30,073,196 | 08/06/2009 20:01 | -a-- |
| mes0008 | 18,606 | 08/06/2009 20:01 | -a-- |
| mes0009 | 21,986 | 08/06/2009 20:01 | -a-- |
| mes0010 | 22,280 | 08/06/2009 20:01 | -a-- |
| mes0011 | 20,994 | 08/06/2009 20:01 | -a-- |
| mes0012 | 13,170 | 08/06/2009 20:01 | -a-- |
| mes0013 | 20,364 | 08/06/2009 20:01 | -a-- |
| mes0014 | 20,410 | 08/06/2009 20:01 | -a-- |
| mes0015 | 20,364 | 08/06/2009 20:01 | -a-- |
| scr0008 | 2,992,755 | 08/06/2009 16:38 | -a-- |
| scr0008h | 5,375 | 08/06/2009 16:38 | -a-- |
| scr0009 | 3,359,702 | 08/06/2009 16:38 | -a-- |
| scr0009h | 5,427 | 08/06/2009 16:38 | -a-- |
| scr0010 | 3,428,311 | 08/06/2009 16:38 | -a-- |
| scr0010h | 5,427 | 08/06/2009 16:38 | -a-- |
| scr0011 | 4,323,674 | 08/06/2009 16:38 | -a-- |
| scr0011h | 5,427 | 08/06/2009 16:38 | -a-- |
| scr0012 | 3,045,831 | 08/06/2009 16:38 | -a-- |
| scr0012h | 5,325 | 08/06/2009 16:38 | -a-- |
| scr0013 | 3,140,246 | 08/06/2009 16:38 | -a-- |
| scr0013h | 5,427 | 08/06/2009 16:38 | -a-- |
| scr0014 | 3,273,343 | 08/06/2009 16:38 | -a-- |
| scr0014h | 5,427 | 08/06/2009 16:38 | -a-- |
| scr0015 | 3,419,972 | 08/06/2009 16:38 | -a-- |
| scr0015h | 5,427 | 08/06/2009 16:38 | -a-- |

247,863 k in 32 files

[Structural\computer files\LS-DYNA\TIPOVER-37\HPC-RUN\compute-3]

| | | | |
|---------------|------------|------------------|------|
| d3dump01.0016 | 28,020,416 | 08/06/2009 20:01 | -a-- |
| d3dump01.0017 | 26,872,308 | 08/06/2009 20:01 | -a-- |
| d3dump01.0018 | 28,367,452 | 08/06/2009 20:01 | -a-- |
| d3dump01.0019 | 21,474,660 | 08/06/2009 20:01 | -a-- |
| d3dump01.0020 | 28,377,448 | 08/06/2009 20:01 | -a-- |
| d3dump01.0021 | 28,817,304 | 08/06/2009 20:01 | -a-- |
| d3dump01.0022 | 19,721,624 | 08/06/2009 20:01 | -a-- |
| d3dump01.0023 | 23,880,900 | 08/06/2009 20:01 | -a-- |
| mes0016 | 24,941 | 08/06/2009 20:01 | -a-- |
| mes0017 | 22,330 | 08/06/2009 20:01 | -a-- |
| mes0018 | 20,410 | 08/06/2009 20:01 | -a-- |
| mes0019 | 21,916 | 08/06/2009 20:01 | -a-- |
| mes0020 | 13,170 | 08/06/2009 20:01 | -a-- |
| mes0021 | 20,364 | 08/06/2009 20:01 | -a-- |
| mes0022 | 15,962 | 08/06/2009 20:01 | -a-- |

| | | | | |
|-----------------------|-----------|------------|-------|------|
| mes0023 | 21,608 | 08/06/2009 | 20:01 | -a-- |
| scr0016 | 6,151,008 | 08/06/2009 | 16:38 | -a-- |
| scr0016h | 5,467 | 08/06/2009 | 16:38 | -a-- |
| scr0017 | 3,418,984 | 08/06/2009 | 16:38 | -a-- |
| scr0017h | 5,457 | 08/06/2009 | 16:38 | -a-- |
| scr0018 | 3,207,395 | 08/06/2009 | 16:38 | -a-- |
| scr0018h | 5,427 | 08/06/2009 | 16:38 | -a-- |
| scr0019 | 3,101,598 | 08/06/2009 | 16:38 | -a-- |
| scr0019h | 5,447 | 08/06/2009 | 16:38 | -a-- |
| scr0020 | 3,058,447 | 08/06/2009 | 16:38 | -a-- |
| scr0020h | 5,325 | 08/06/2009 | 16:38 | -a-- |
| scr0021 | 3,157,470 | 08/06/2009 | 16:38 | -a-- |
| scr0021h | 5,427 | 08/06/2009 | 16:38 | -a-- |
| scr0022 | 2,523,615 | 08/06/2009 | 16:38 | -a-- |
| scr0022h | 5,365 | 08/06/2009 | 16:38 | -a-- |
| scr0023 | 3,341,648 | 08/06/2009 | 16:38 | -a-- |
| scr0023h | 5,447 | 08/06/2009 | 16:38 | -a-- |
| 228,219 k in 32 files | | | | |

[Structural\computer files\LS-DYNA\TIPOVER-37\HPC-RUN\compute-4]

| | | | | |
|-----------------------|------------|------------|-------|------|
| binout0028 | 3,180,339 | 08/06/2009 | 20:01 | -a-- |
| d3dump01.0024 | 28,052,316 | 08/06/2009 | 20:01 | -a-- |
| d3dump01.0025 | 28,910,008 | 08/06/2009 | 20:01 | -a-- |
| d3dump01.0026 | 29,231,792 | 08/06/2009 | 20:01 | -a-- |
| d3dump01.0027 | 29,359,248 | 08/06/2009 | 20:01 | -a-- |
| d3dump01.0028 | 18,151,664 | 08/06/2009 | 20:01 | -a-- |
| d3dump01.0029 | 22,964,832 | 08/06/2009 | 20:01 | -a-- |
| d3dump01.0030 | 21,241,632 | 08/06/2009 | 20:01 | -a-- |
| d3dump01.0031 | 25,960,500 | 08/06/2009 | 20:01 | -a-- |
| mes0024 | 13,170 | 08/06/2009 | 20:01 | -a-- |
| mes0025 | 20,364 | 08/06/2009 | 20:01 | -a-- |
| mes0026 | 20,410 | 08/06/2009 | 20:01 | -a-- |
| mes0027 | 20,364 | 08/06/2009 | 20:01 | -a-- |
| mes0028 | 15,962 | 08/06/2009 | 20:01 | -a-- |
| mes0029 | 21,608 | 08/06/2009 | 20:01 | -a-- |
| mes0030 | 21,654 | 08/06/2009 | 20:01 | -a-- |
| mes0031 | 21,608 | 08/06/2009 | 20:01 | -a-- |
| scr0024 | 3,057,767 | 08/06/2009 | 16:38 | -a-- |
| scr0024h | 5,325 | 08/06/2009 | 16:38 | -a-- |
| scr0025 | 3,226,053 | 08/06/2009 | 16:38 | -a-- |
| scr0025h | 5,427 | 08/06/2009 | 16:38 | -a-- |
| scr0026 | 3,347,224 | 08/06/2009 | 16:38 | -a-- |
| scr0026h | 5,427 | 08/06/2009 | 16:38 | -a-- |
| scr0027 | 3,585,049 | 08/06/2009 | 16:38 | -a-- |
| scr0027h | 5,427 | 08/06/2009 | 16:38 | -a-- |
| scr0028 | 2,419,347 | 08/06/2009 | 16:38 | -a-- |
| scr0028h | 5,365 | 08/06/2009 | 16:38 | -a-- |
| scr0029 | 3,445,178 | 08/06/2009 | 16:38 | -a-- |
| scr0029h | 5,447 | 08/06/2009 | 16:38 | -a-- |
| scr0030 | 3,254,891 | 08/06/2009 | 16:38 | -a-- |
| scr0030h | 5,447 | 08/06/2009 | 16:38 | -a-- |
| scr0031 | 4,212,304 | 08/06/2009 | 16:38 | -a-- |
| scr0031h | 5,447 | 08/06/2009 | 16:38 | -a-- |
| 228,318 k in 33 files | | | | |

[Structural\computer files\LS-DYNA\TIPOVER-37\HPC-RUN\head node]

| | | | | |
|---------------|---------|------------|-------|------|
| basket-37.png | 102,474 | 08/06/2009 | 16:46 | -a-- |
|---------------|---------|------------|-------|------|

| | | | | |
|--|------------|------------|-------|------|
| BSKT-37.DYN | 10,447,123 | 07/24/2009 | 16:42 | -a-- |
| CONTACTS.DYN | 12,666 | 07/31/2009 | 10:35 | -a-- |
| FUEL-37.DYN | 692,710 | 06/04/2009 | 13:43 | -a-- |
| fuel-37.png | 67,884 | 08/06/2009 | 16:48 | -a-- |
| ISFSI-FINAL.DYN | 3,701,214 | 07/24/2009 | 16:56 | -a-- |
| job-submit.txt | 279 | 07/20/2009 | 17:26 | -a-- |
| LID.DYN | 743,788 | 06/11/2009 | 11:17 | -a-- |
| lspost.cfile | 179 | 03/26/2010 | 11:54 | -a-- |
| lspost.msg | 37 | 03/26/2010 | 11:54 | -a-- |
| lspp_image.png | 75,202 | 08/06/2009 | 16:43 | -a-- |
| MPC-37.DYN | 2,709,094 | 06/10/2009 | 10:33 | -a-- |
| mpc-37.png | 163,376 | 08/06/2009 | 16:48 | -a-- |
| NODE-CASK-37.dyn | 25,584,692 | 06/09/2009 | 08:54 | -a-- |
| overpack-37.png | 178,987 | 08/06/2009 | 16:54 | -a-- |
| OVPK-37 - OLD.DYN | 3,136,737 | 07/20/2009 | 17:19 | -a-- |
| OVPK-37.DYN | 3,138,372 | 08/05/2009 | 08:59 | -a-- |
| SHIM-37.dyn | 1,074,369 | 06/04/2009 | 13:41 | -a-- |
| shim-37.png | 82,631 | 08/06/2009 | 16:49 | -a-- |
| stderr.txt | 0 | 08/06/2009 | 16:37 | -a-- |
| stdout.txt | 28,688 | 08/06/2009 | 20:01 | -a-- |
| tip-37.cmd | 176 | 06/12/2009 | 13:48 | -a-- |
| TIPOVER-37.DYN | 5,275 | 08/06/2009 | 16:36 | -a-- |
| 50,728 k in 23 files | | | | |
| [Structural\computer files\LS-DYNA\TIPOVER-89] | | | | |
| basket-89.png | 153,936 | 08/06/2009 | 17:02 | -a-- |
| BSKT-89.dyn | 17,821,128 | 07/31/2009 | 10:14 | -a-- |
| CONTACTS.DYN | 12,666 | 07/31/2009 | 10:35 | -a-- |
| dec-mpc-lid-bot.png | 8,726 | 08/10/2009 | 09:19 | -a-- |
| dec-ovpk-lid.png | 8,815 | 08/10/2009 | 09:41 | -a-- |
| dec-ovpk-top.png | 8,683 | 08/10/2009 | 09:57 | -a-- |
| force-cask-to-pad.png | 9,318 | 08/10/2009 | 10:01 | -a-- |
| FUEL-89.DYN | 1,226,681 | 07/16/2009 | 09:51 | -a-- |
| fuel-89.png | 90,605 | 08/06/2009 | 17:03 | -a-- |
| ISFSI-FINAL.DYN | 3,701,214 | 07/24/2009 | 16:56 | -a-- |
| LID.DYN | 743,788 | 06/11/2009 | 11:17 | -a-- |
| max-z-disp-pad.png | 7,818 | 08/10/2009 | 09:59 | -a-- |
| MPC-89.DYN | 2,680,583 | 07/16/2009 | 09:53 | -a-- |
| mpc-89.png | 191,811 | 08/06/2009 | 17:01 | -a-- |
| NODE-CASK-89.dyn | 37,510,096 | 07/16/2009 | 11:01 | -a-- |
| overpack-89.png | 185,654 | 08/06/2009 | 17:06 | -a-- |
| OVPK-89.DYN | 3,138,372 | 08/04/2009 | 14:52 | -a-- |
| pstrain-basket.png | 43,632 | 08/10/2009 | 08:58 | -a-- |
| pstrain-bolt.png | 12,652 | 08/10/2009 | 09:10 | -a-- |
| pstrain-mpc.png | 22,324 | 08/10/2009 | 08:59 | -a-- |
| pstrain-ovpk.png | 21,254 | 08/10/2009 | 09:01 | -a-- |
| pstrain-tubes.png | 15,679 | 08/10/2009 | 09:16 | -a-- |
| SHIM-89.dyn | 728,063 | 07/16/2009 | 09:54 | -a-- |
| shim-89.png | 90,611 | 08/06/2009 | 17:04 | -a-- |
| Thumbs.db | 30,720 | 09/01/2009 | 16:39 | -ahs |
| TIPOVER-89.DYN | 5,040 | 08/18/2009 | 09:03 | -a-- |
| tipover-89.png | 75,574 | 08/06/2009 | 17:00 | -a-- |
| x-dec-lid-89.png | 9,011 | 09/01/2009 | 16:40 | -a-- |
| 66,947 k in 28 files | | | | |
| [Structural\computer files\LS-DYNA\TIPOVER-89\HPC Run] | | | | |
| Thumbs.db | 11,264 | 08/03/2009 | 10:44 | -ahs |

11 k in 1 files

[Structural\computer files\LS-DYNA\TIPOVER-89\HPC Run\compute-1]

| | | | |
|-----------------------|-------------|------------------|------|
| adptmp | 122,286,560 | 08/07/2009 15:13 | -a-- |
| binout0000 | 10,615,843 | 08/07/2009 20:39 | -a-- |
| d3dump01.0000 | 48,688,604 | 08/07/2009 20:39 | -a-- |
| d3dump01.0001 | 44,332,912 | 08/07/2009 20:39 | -a-- |
| d3dump01.0002 | 40,967,820 | 08/07/2009 20:39 | -a-- |
| d3dump01.0003 | 43,930,184 | 08/07/2009 20:39 | -a-- |
| d3dump01.0004 | 42,794,524 | 08/07/2009 20:39 | -a-- |
| d3dump01.0005 | 43,628,068 | 08/07/2009 20:39 | -a-- |
| d3dump01.0006 | 42,680,912 | 08/07/2009 20:39 | -a-- |
| d3dump01.0007 | 45,840,524 | 08/07/2009 20:39 | -a-- |
| d3full01 | 606,608,920 | 08/07/2009 20:39 | -a-- |
| d3hsp | 154,868,715 | 08/07/2009 20:39 | -a-- |
| d3plot | 75,814,912 | 08/07/2009 15:15 | -a-- |
| d3plot01 | 102,107,136 | 08/07/2009 15:30 | -a-- |
| d3plot02 | 102,107,136 | 08/07/2009 15:40 | -a-- |
| d3plot03 | 102,107,136 | 08/07/2009 15:50 | -a-- |
| d3plot04 | 102,107,136 | 08/07/2009 16:00 | -a-- |
| d3plot05 | 102,107,136 | 08/07/2009 16:10 | -a-- |
| d3plot06 | 102,107,136 | 08/07/2009 16:20 | -a-- |
| d3plot07 | 102,107,136 | 08/07/2009 16:33 | -a-- |
| d3plot08 | 102,107,136 | 08/07/2009 16:47 | -a-- |
| d3plot09 | 102,107,136 | 08/07/2009 17:01 | -a-- |
| d3plot10 | 102,107,136 | 08/07/2009 17:16 | -a-- |
| d3plot11 | 102,107,136 | 08/07/2009 17:30 | -a-- |
| d3plot12 | 102,107,136 | 08/07/2009 17:45 | -a-- |
| d3plot13 | 102,107,136 | 08/07/2009 17:59 | -a-- |
| d3plot14 | 102,107,136 | 08/07/2009 18:13 | -a-- |
| d3plot15 | 102,107,136 | 08/07/2009 18:27 | -a-- |
| d3plot16 | 102,107,136 | 08/07/2009 18:41 | -a-- |
| d3plot17 | 102,107,136 | 08/07/2009 18:55 | -a-- |
| d3plot18 | 102,107,136 | 08/07/2009 19:09 | -a-- |
| d3plot19 | 102,107,136 | 08/07/2009 19:23 | -a-- |
| d3plot20 | 102,107,136 | 08/07/2009 19:37 | -a-- |
| d3plot21 | 102,107,136 | 08/07/2009 19:50 | -a-- |
| d3plot22 | 102,107,136 | 08/07/2009 20:04 | -a-- |
| d3plot23 | 102,107,136 | 08/07/2009 20:18 | -a-- |
| d3plot24 | 102,107,136 | 08/07/2009 20:32 | -a-- |
| d3plot25 | 102,107,136 | 08/07/2009 20:39 | -a-- |
| d3plot26 | 51,054,592 | 08/07/2009 20:39 | -a-- |
| dec-mpc-lid-bot.png | 8,726 | 08/10/2009 09:19 | -a-- |
| dec-ovpk-lid.png | 8,815 | 08/10/2009 09:41 | -a-- |
| dec-ovpk-top.png | 8,683 | 08/10/2009 09:57 | -a-- |
| force-cask-to-pad.png | 9,318 | 08/10/2009 10:01 | -a-- |
| glstat | 2,460,146 | 08/07/2009 20:39 | -a-- |
| lspost.cfile | 7,489 | 08/10/2009 10:04 | -a-- |
| lspost.msg | 0 | 08/10/2009 08:55 | -a-- |
| max-z-disp-pad.png | 7,818 | 08/10/2009 09:59 | -a-- |
| mes0000 | 132,968 | 08/07/2009 20:39 | -a-- |
| mes0001 | 22,156 | 08/07/2009 20:39 | -a-- |
| mes0002 | 24,512 | 08/07/2009 20:39 | -a-- |
| mes0003 | 20,410 | 08/07/2009 20:39 | -a-- |
| mes0004 | 20,218 | 08/07/2009 20:39 | -a-- |
| mes0005 | 23,350 | 08/07/2009 20:39 | -a-- |
| mes0006 | 13,170 | 08/07/2009 20:39 | -a-- |

| | | | | |
|--------------------|-----------|------------|-------|------|
| mes0007 | 20,364 | 08/07/2009 | 20:39 | -a-- |
| pstrain-basket.png | 43,632 | 08/10/2009 | 08:58 | -a-- |
| pstrain-bolt.png | 12,652 | 08/10/2009 | 09:10 | -a-- |
| pstrain-mpc.png | 22,324 | 08/10/2009 | 08:59 | -a-- |
| pstrain-ovpk.png | 21,254 | 08/10/2009 | 09:01 | -a-- |
| pstrain-tubes.png | 15,679 | 08/10/2009 | 09:16 | -a-- |
| scr0000 | 7,893,068 | 08/07/2009 | 15:15 | -a-- |
| scr0000h | 5,437 | 08/07/2009 | 15:15 | -a-- |
| scr0001 | 4,749,935 | 08/07/2009 | 15:15 | -a-- |
| scr0001h | 5,427 | 08/07/2009 | 15:15 | -a-- |
| scr0002 | 4,591,171 | 08/07/2009 | 15:15 | -a-- |
| scr0002h | 5,427 | 08/07/2009 | 15:15 | -a-- |
| scr0003 | 4,582,103 | 08/07/2009 | 15:15 | -a-- |
| scr0003h | 5,427 | 08/07/2009 | 15:15 | -a-- |
| scr0004 | 4,426,555 | 08/07/2009 | 15:15 | -a-- |
| scr0004h | 5,375 | 08/07/2009 | 15:15 | -a-- |
| scr0005 | 4,862,944 | 08/07/2009 | 15:15 | -a-- |
| scr0005h | 5,427 | 08/07/2009 | 15:15 | -a-- |
| scr0006 | 4,466,575 | 08/07/2009 | 15:15 | -a-- |
| scr0006h | 5,325 | 08/07/2009 | 15:15 | -a-- |
| scr0007 | 4,537,646 | 08/07/2009 | 15:15 | -a-- |
| scr0007h | 5,427 | 08/07/2009 | 15:15 | -a-- |
| status.out | 1,416 | 08/07/2009 | 15:15 | -a-- |

3,876,806 k in 77 files

[Structural\computer files\LS-DYNA\TIPOVER-89\HPC Run\compute-2]

| | | | | |
|---------------|------------|------------|-------|------|
| d3dump01.0008 | 41,332,236 | 08/07/2009 | 20:39 | -a-- |
| d3dump01.0009 | 42,505,272 | 08/07/2009 | 20:39 | -a-- |
| d3dump01.0010 | 41,985,736 | 08/07/2009 | 20:39 | -a-- |
| d3dump01.0011 | 42,534,800 | 08/07/2009 | 20:39 | -a-- |
| d3dump01.0012 | 43,337,056 | 08/07/2009 | 20:39 | -a-- |
| d3dump01.0013 | 45,271,920 | 08/07/2009 | 20:39 | -a-- |
| d3dump01.0014 | 44,289,340 | 08/07/2009 | 20:39 | -a-- |
| d3dump01.0015 | 45,209,388 | 08/07/2009 | 20:39 | -a-- |
| mes0008 | 20,962 | 08/07/2009 | 20:39 | -a-- |
| mes0009 | 23,722 | 08/07/2009 | 20:39 | -a-- |
| mes0010 | 23,396 | 08/07/2009 | 20:39 | -a-- |
| mes0011 | 22,730 | 08/07/2009 | 20:39 | -a-- |
| mes0012 | 13,170 | 08/07/2009 | 20:39 | -a-- |
| mes0013 | 20,364 | 08/07/2009 | 20:39 | -a-- |
| mes0014 | 20,410 | 08/07/2009 | 20:39 | -a-- |
| mes0015 | 20,364 | 08/07/2009 | 20:39 | -a-- |
| scr0008 | 4,430,901 | 08/07/2009 | 15:15 | -a-- |
| scr0008h | 5,375 | 08/07/2009 | 15:15 | -a-- |
| scr0009 | 4,829,294 | 08/07/2009 | 15:15 | -a-- |
| scr0009h | 5,427 | 08/07/2009 | 15:15 | -a-- |
| scr0010 | 4,753,224 | 08/07/2009 | 15:15 | -a-- |
| scr0010h | 5,427 | 08/07/2009 | 15:15 | -a-- |
| scr0011 | 5,557,202 | 08/07/2009 | 15:15 | -a-- |
| scr0011h | 5,427 | 08/07/2009 | 15:15 | -a-- |
| scr0012 | 4,495,149 | 08/07/2009 | 15:15 | -a-- |
| scr0012h | 5,325 | 08/07/2009 | 15:15 | -a-- |
| scr0013 | 4,585,574 | 08/07/2009 | 15:15 | -a-- |
| scr0013h | 5,427 | 08/07/2009 | 15:15 | -a-- |
| scr0014 | 4,623,806 | 08/07/2009 | 15:15 | -a-- |
| scr0014h | 5,427 | 08/07/2009 | 15:15 | -a-- |
| scr0015 | 4,814,360 | 08/07/2009 | 15:15 | -a-- |

scr0015h 5,427 08/07/2009 15:15 -a--
375,745 k in 32 files

[Structural\computer files\LS-DYNA\TIPOVER-89\HPC Run\compute-3]

| | | | |
|---------------|------------|------------------|------|
| binout0023 | 3,180,339 | 08/07/2009 20:39 | -a-- |
| d3dump01.0016 | 40,026,660 | 08/07/2009 20:39 | -a-- |
| d3dump01.0017 | 41,049,152 | 08/07/2009 20:39 | -a-- |
| d3dump01.0018 | 42,816,172 | 08/07/2009 20:39 | -a-- |
| d3dump01.0019 | 34,718,964 | 08/07/2009 20:39 | -a-- |
| d3dump01.0020 | 43,670,844 | 08/07/2009 20:39 | -a-- |
| d3dump01.0021 | 44,341,904 | 08/07/2009 20:39 | -a-- |
| d3dump01.0022 | 32,989,056 | 08/07/2009 20:39 | -a-- |
| d3dump01.0023 | 36,144,036 | 08/07/2009 20:39 | -a-- |
| mes0016 | 24,941 | 08/07/2009 20:39 | -a-- |
| mes0017 | 22,592 | 08/07/2009 20:39 | -a-- |
| mes0018 | 20,410 | 08/07/2009 20:39 | -a-- |
| mes0019 | 22,330 | 08/07/2009 20:39 | -a-- |
| mes0020 | 13,170 | 08/07/2009 20:39 | -a-- |
| mes0021 | 20,364 | 08/07/2009 20:39 | -a-- |
| mes0022 | 15,962 | 08/07/2009 20:39 | -a-- |
| mes0023 | 21,608 | 08/07/2009 20:39 | -a-- |
| scr0016 | 7,641,070 | 08/07/2009 15:15 | -a-- |
| scr0016h | 5,467 | 08/07/2009 15:15 | -a-- |
| scr0017 | 4,837,821 | 08/07/2009 15:15 | -a-- |
| scr0017h | 5,457 | 08/07/2009 15:15 | -a-- |
| scr0018 | 4,536,021 | 08/07/2009 15:15 | -a-- |
| scr0018h | 5,427 | 08/07/2009 15:15 | -a-- |
| scr0019 | 4,350,884 | 08/07/2009 15:15 | -a-- |
| scr0019h | 5,457 | 08/07/2009 15:15 | -a-- |
| scr0020 | 4,477,771 | 08/07/2009 15:15 | -a-- |
| scr0020h | 5,325 | 08/07/2009 15:15 | -a-- |
| scr0021 | 4,518,792 | 08/07/2009 15:15 | -a-- |
| scr0021h | 5,427 | 08/07/2009 15:15 | -a-- |
| scr0022 | 3,873,620 | 08/07/2009 15:15 | -a-- |
| scr0022h | 5,365 | 08/07/2009 15:15 | -a-- |
| scr0023 | 4,615,376 | 08/07/2009 15:15 | -a-- |
| scr0023h | 5,447 | 08/07/2009 15:15 | -a-- |

349,602 k in 33 files

[Structural\computer files\LS-DYNA\TIPOVER-89\HPC Run\compute-4]

| | | | |
|---------------|------------|------------------|------|
| d3dump01.0024 | 42,882,432 | 08/07/2009 20:39 | -a-- |
| d3dump01.0025 | 44,251,460 | 08/07/2009 20:39 | -a-- |
| d3dump01.0026 | 43,482,064 | 08/07/2009 20:39 | -a-- |
| d3dump01.0027 | 44,264,640 | 08/07/2009 20:39 | -a-- |
| d3dump01.0028 | 31,906,652 | 08/07/2009 20:39 | -a-- |
| d3dump01.0029 | 35,930,280 | 08/07/2009 20:39 | -a-- |
| d3dump01.0030 | 35,058,496 | 08/07/2009 20:39 | -a-- |
| d3dump01.0031 | 39,014,096 | 08/07/2009 20:39 | -a-- |
| mes0024 | 13,170 | 08/07/2009 20:39 | -a-- |
| mes0025 | 20,364 | 08/07/2009 20:39 | -a-- |
| mes0026 | 20,410 | 08/07/2009 20:39 | -a-- |
| mes0027 | 20,364 | 08/07/2009 20:39 | -a-- |
| mes0028 | 15,962 | 08/07/2009 20:39 | -a-- |
| mes0029 | 21,608 | 08/07/2009 20:39 | -a-- |
| mes0030 | 21,654 | 08/07/2009 20:39 | -a-- |
| mes0031 | 21,608 | 08/07/2009 20:39 | -a-- |
| scr0024 | 4,491,400 | 08/07/2009 15:15 | -a-- |

| | | | | |
|----------|-----------|------------|-------|------|
| scr0024h | 5,325 | 08/07/2009 | 15:15 | -a-- |
| scr0025 | 4,576,914 | 08/07/2009 | 15:15 | -a-- |
| scr0025h | 5,427 | 08/07/2009 | 15:15 | -a-- |
| scr0026 | 4,620,662 | 08/07/2009 | 15:15 | -a-- |
| scr0026h | 5,427 | 08/07/2009 | 15:15 | -a-- |
| scr0027 | 4,830,940 | 08/07/2009 | 15:15 | -a-- |
| scr0027h | 5,427 | 08/07/2009 | 15:15 | -a-- |
| scr0028 | 3,799,953 | 08/07/2009 | 15:15 | -a-- |
| scr0028h | 5,365 | 08/07/2009 | 15:15 | -a-- |
| scr0029 | 4,827,630 | 08/07/2009 | 15:15 | -a-- |
| scr0029h | 5,447 | 08/07/2009 | 15:15 | -a-- |
| scr0030 | 4,650,445 | 08/07/2009 | 15:15 | -a-- |
| scr0030h | 5,447 | 08/07/2009 | 15:15 | -a-- |
| scr0031 | 5,605,554 | 08/07/2009 | 15:15 | -a-- |
| scr0031h | 5,447 | 08/07/2009 | 15:15 | -a-- |

346,086 k in 32 files

[Structural\computer files\LS-DYNA\TIPOVER-89\HPC Run\head node]

| | | | | |
|------------------|------------|------------|-------|------|
| basket-89.png | 153,936 | 08/06/2009 | 17:02 | -a-- |
| BSKT-89.dyn | 17,821,128 | 07/31/2009 | 10:14 | -a-- |
| CONTACTS.DYN | 12,666 | 07/31/2009 | 10:35 | -a-- |
| FUEL-89.DYN | 1,226,681 | 07/16/2009 | 09:51 | -a-- |
| fuel-89.png | 90,605 | 08/06/2009 | 17:03 | -a-- |
| ISFSI-FINAL.DYN | 3,701,214 | 07/24/2009 | 16:56 | -a-- |
| job-submit.txt | 279 | 07/16/2009 | 11:31 | -a-- |
| LID.DYN | 743,788 | 06/11/2009 | 11:17 | -a-- |
| MPC-89.DYN | 2,680,583 | 07/16/2009 | 09:53 | -a-- |
| mpc-89.png | 191,811 | 08/06/2009 | 17:01 | -a-- |
| NODE-CASK-89.dyn | 37,510,096 | 07/16/2009 | 11:01 | -a-- |
| overpack-89.png | 185,654 | 08/06/2009 | 17:06 | -a-- |
| OVPK-89.DYN | 3,138,372 | 08/04/2009 | 14:52 | -a-- |
| SHIM-89.dyn | 728,063 | 07/16/2009 | 09:54 | -a-- |
| shim-89.png | 90,611 | 08/06/2009 | 17:04 | -a-- |
| stderr.txt | 0 | 08/07/2009 | 15:13 | -a-- |
| stdout.txt | 29,730 | 08/07/2009 | 20:39 | -a-- |
| tip-89.cmd | 176 | 07/16/2009 | 11:27 | -a-- |
| TIPOVER-89.DYN | 5,274 | 08/07/2009 | 15:11 | -a-- |
| tipover-89.png | 75,574 | 08/06/2009 | 17:00 | -a-- |

66,783 k in 20 files

[Thermal]

0 k in 0 files

[Thermal\calculation packages]

| | | | | |
|------------------|-----------|------------|-------|------|
| HI-2094356R0.PDF | 176,994 | 09/17/2009 | 12:22 | -a-- |
| HI-2094400R0.pdf | 1,042,075 | 09/25/2009 | 15:23 | -a-- |

1,190 k in 2 files

[Thermal\computer files]

0 k in 0 files

[Thermal\computer files\Effective Thermal Properties]

0 k in 0 files

[Thermal\computer files\Effective Thermal Properties\k_planar]

| | | | | |
|---------------|--------|------------|-------|------|
| ftc14-200.inp | 12,924 | 05/28/2009 | 13:43 | -a-- |
| ftc14-200.RES | 704 | 05/28/2009 | 13:52 | -a-- |

| | | | | |
|----------------|--------|------------|-------|------|
| ftc14-450.inp | 12,924 | 05/28/2009 | 14:31 | -a-- |
| ftc14-450.RES | 704 | 05/28/2009 | 14:41 | -a-- |
| ftc14-700.inp | 12,924 | 05/28/2009 | 14:32 | -a-- |
| ftc14-700.RES | 704 | 05/28/2009 | 14:51 | -a-- |
| w17apk-200.inp | 12,943 | 05/29/2009 | 16:25 | -a-- |
| w17apk-200.RES | 714 | 05/29/2009 | 17:30 | -a-- |
| w17apk-450.inp | 12,943 | 05/29/2009 | 16:27 | -a-- |
| w17apk-450.RES | 714 | 05/30/2009 | 16:10 | -a-- |
| w17apk-700.inp | 12,943 | 05/29/2009 | 16:28 | -a-- |
| w17apk-700.RES | 714 | 05/30/2009 | 17:21 | -a-- |
| w17ofa-200.inp | 12,935 | 05/31/2009 | 15:05 | -a-- |
| w17ofa-200.RES | 710 | 05/31/2009 | 16:08 | -a-- |
| w17ofa-450.inp | 12,935 | 05/31/2009 | 15:06 | -a-- |
| w17ofa-450.RES | 710 | 05/31/2009 | 17:25 | -a-- |
| w17ofa-700.inp | 12,935 | 05/31/2009 | 15:07 | -a-- |
| w17ofa-700.RES | 710 | 06/01/2009 | 10:26 | -a-- |

119 k in 18 files

[Thermal\computer files\Effective Thermal Properties\k_vapor]

| | | | | |
|-----------------|--------|------------|-------|------|
| ftc14-1000.inp | 13,588 | 08/14/2009 | 11:19 | -a-- |
| ftc14-1000.RES | 739 | 08/14/2009 | 11:22 | -a-- |
| ftc14-200.inp | 13,587 | 08/14/2009 | 11:09 | -a-- |
| ftc14-200.RES | 739 | 08/14/2009 | 11:12 | -a-- |
| ftc14-450.inp | 13,587 | 08/14/2009 | 11:18 | -a-- |
| ftc14-450.RES | 739 | 08/14/2009 | 11:20 | -a-- |
| ftc14-700.inp | 13,587 | 08/14/2009 | 11:19 | -a-- |
| ftc14-700.RES | 739 | 08/14/2009 | 11:22 | -a-- |
| w17apk-1000.inp | 13,605 | 08/14/2009 | 12:08 | -a-- |
| w17apk-1000.RES | 747 | 08/14/2009 | 14:08 | -a-- |
| w17apk-200.inp | 13,604 | 08/14/2009 | 12:05 | -a-- |
| w17apk-200.RES | 747 | 08/14/2009 | 13:58 | -a-- |
| w17apk-450.inp | 13,604 | 08/14/2009 | 12:06 | -a-- |
| w17apk-450.RES | 747 | 08/14/2009 | 14:00 | -a-- |
| w17apk-700.inp | 13,604 | 08/14/2009 | 12:07 | -a-- |
| w17apk-700.RES | 747 | 08/14/2009 | 14:04 | -a-- |
| w17ofa-1000.inp | 13,598 | 08/14/2009 | 12:00 | -a-- |
| w17ofa-1000.RES | 744 | 08/14/2009 | 13:56 | -a-- |
| w17ofa-200.inp | 13,597 | 08/14/2009 | 11:57 | -a-- |
| w17ofa-200.RES | 744 | 08/14/2009 | 13:50 | -a-- |
| w17ofa-450.inp | 13,597 | 08/14/2009 | 11:58 | -a-- |
| w17ofa-450.RES | 744 | 08/14/2009 | 13:52 | -a-- |
| w17ofa-700.inp | 13,597 | 08/14/2009 | 11:59 | -a-- |
| w17ofa-700.RES | 744 | 08/14/2009 | 13:54 | -a-- |

168 k in 24 files

[Thermal\computer files\HI-STORM]

| | | | | |
|-------------------------|--------|------------|-------|------|
| Heat-gen-rate-mpc37.xls | 24,064 | 09/17/2009 | 11:42 | -a-- |
| Heat-gen-rate-mpc89.xls | 19,456 | 08/27/2009 | 16:33 | -a-- |
| k-gap-mpc37.xls | 18,432 | 08/18/2009 | 08:15 | -a-- |
| k-gap-mpc89.xls | 19,456 | 07/16/2009 | 11:33 | -a-- |
| mpc_pres.xls | 39,936 | 09/25/2009 | 15:15 | -a-- |
| thermal-exp.xls | 20,480 | 09/17/2009 | 09:20 | -a-- |

138 k in 6 files

[Thermal\computer files\HI-STORM\FLUENT]

0 k in 0 files

[Thermal\computer files\HI-STORM\FLUENT\All-Ducts-Blocked]
 HI-STORM-FW-3D-MIN-ADB.cas 146,963,028 07/31/2009 08:37 -a--
 HI-STORM-FW-3D-MIN-ADB-115200.dat 2,375,284,991 08/10/2009 10:06 -a--
 2,463,132 k in 2 files

[Thermal\computer files\HI-STORM\FLUENT\Fire]
 HI-STORM-FW-3D-MIN-FIRE.cas 146,962,197 07/27/2009 08:35 -a--
 HI-STORM-FW-3D-MIN-FIRE-240.dat 2,374,068,432 07/27/2009 08:24 -a--
 HI-STORM-FW-3D-MIN-POSTFIRE.cas 146,963,212 08/25/2009 14:20 -a--
 HI-STORM-FW-3D-MIN-POSTFIRE-79200.dat 2,375,195,062 08/25/2009 10:50 -a--
 4,924,989 k in 4 files

[Thermal\computer files\HI-STORM\FLUENT\Hi-Elev]
 HI-STORM-FW-3D-MIN-HI-ELEV.cas 146,962,185 09/14/2009 08:49 -a--
 HI-STORM-FW-3D-MIN-HI-ELEV.dat 2,326,790,845 09/14/2009 08:51 -a--
 2,415,774 k in 2 files

[Thermal\computer files\HI-STORM\FLUENT\Partial-Ducts-blocked]
 HI-STORM-FW-3D-MIN-PDB.cas 146,961,850 07/29/2009 16:56 -a--
 HI-STORM-FW-3D-MIN-PDB.dat 2,326,742,268 07/29/2009 13:26 -a--
 2,415,726 k in 2 files

[Thermal\computer files\HI-STORM\FLUENT\Steady State]
 5018historm-mpc89.cas 365,282,072 07/29/2009 10:17 -a--
 5018historm-mpc89.dat 6,277,228,086 07/29/2009 07:51 -a--
 HI-STORM-FW-3D-MAX.cas 160,532,856 07/16/2009 14:43 -a--
 HI-STORM-FW-3D-MAX.dat 2,536,584,572 07/21/2009 04:52 -a--
 HI-STORM-FW-3D-MIN.cas 146,962,295 07/20/2009 11:44 -a--
 HI-STORM-FW-3D-MIN.dat 2,326,790,847 07/18/2009 11:39 -a--
 HI-STORM-FW-3D-MIN-37.64kw.cas 146,962,219 09/15/2009 17:11 -a--
 HI-STORM-FW-3D-MIN-37.64kw.dat 2,326,776,631 09/17/2009 08:39 -a--
 HI-STORM-FW-3D-REF.cas 149,225,378 07/18/2009 20:32 -a--
 HI-STORM-FW-3D-REF.dat 2,361,696,555 07/18/2009 20:33 -a--
 udf-mpc37-max.c 3,458 07/16/2009 14:23 -a--
 udf-mpc37-min.c 3,462 07/16/2009 14:21 -a--
 udf-mpc37-min-37.64kw.c 3,458 09/14/2009 15:46 -a--
 udf-mpc37-ref.c 3,459 07/16/2009 14:22 -a--
 udf-mpc89.c 3,324 07/17/2009 12:51 -a--
 16,404,354 k in 15 files

[Thermal\computer files\HI-STORM\GAMBIT]
 5018historm-mpc89-3d.db 931,115,008 06/30/2009 11:49 -a--
 5018historm-mpc89-3d.msh 586,350,198 09/10/2009 16:02 -a--
 HI-STORM-FW-3D-MAX.db 295,698,432 05/28/2009 10:47 -a--
 HI-STORM-FW-3D-MAX.msh 291,099,310 05/28/2009 10:37 -a--
 HI-STORM-FW-3D-MIN.db 277,872,640 05/15/2009 11:17 -a--
 HI-STORM-FW-3D-MIN.msh 264,604,845 05/21/2009 10:26 -a--
 HI-STORM-FW-3D-REF.db 281,018,368 05/21/2009 09:59 -a--
 HI-STORM-FW-3D-REF.msh 269,075,962 05/21/2009 10:03 -a--
 3,121,908 k in 8 files

[Thermal\computer files\HI-TRAC]
 Boil_calculation.xls 21,504 09/17/2009 18:32 -a--
 Gases_MW-FW.xls 20,480 09/16/2009 11:54 -a--
 thermal-exp-hitrac mpc37.xls 22,016 09/17/2009 09:20 -a--
 62 k in 3 files

[Thermal\computer files\HI-TRAC\FLUENT]

| | | | |
|-------------------------|---------------|------------------|------|
| hi-trac vw-air.cas | 142,400,777 | 08/24/2009 11:32 | -a-- |
| hi-trac vw-air.dat | 2,390,743,035 | 08/24/2009 08:03 | -a-- |
| hi-trac vw-water.cas | 142,400,669 | 08/24/2009 11:47 | -a-- |
| hi-trac vw-water.dat | 2,390,707,323 | 08/18/2009 11:33 | -a-- |
| hitrac vw-water-RR.dat | 2,390,765,703 | 09/14/2009 08:35 | -a-- |
| hi-trac vw-water-RR.cas | 137,403,199 | 09/12/2009 17:13 | -a-- |
| udf-mpc37-min.c | 3,328 | 07/22/2009 07:44 | -a-- |

7,416,429 k in 7 files

[Thermal\computer files\HI-TRAC\GAMBIT]

| | | | |
|-------------------|-------------|------------------|------|
| hi-trac vw-3d.db | 170,917,888 | 06/12/2009 08:24 | -a-- |
| hi-trac vw-3d.msh | 243,055,567 | 09/10/2009 14:24 | -a-- |

404,270 k in 2 files

[Thermal\computer files\HI-TRAC\VACUUM DRYING]

0 k in 0 files

[Thermal\computer files\HI-TRAC\VACUUM DRYING\FLUENT]

| | | | |
|------------------------------|---------------|------------------|------|
| MPC37-VACDRY.cas | 51,772,552 | 08/31/2009 11:24 | -a-- |
| MPC37-VACDRY.dat | 989,414,527 | 08/19/2009 08:25 | -a-- |
| MPC37-VACDRY-new-pattern.cas | 51,772,541 | 08/20/2009 16:26 | -a-- |
| MPC37-VACDRY-new-pattern.dat | 989,452,831 | 08/20/2009 16:16 | -a-- |
| MPC89-VACDRY.cas | 252,865,868 | 08/31/2009 08:31 | -a-- |
| MPC89-VACDRY.dat | 4,720,999,000 | 08/31/2009 08:23 | -a-- |
| MPC89-VACDRY-new-pattern.cas | 252,865,584 | 08/31/2009 11:03 | -a-- |
| MPC89-VACDRY-new-pattern.dat | 4,721,012,680 | 08/31/2009 08:47 | -a-- |
| udf-mpc37-min.c | 3,462 | 07/16/2009 14:21 | -a-- |
| udf-mpc37-min-new-pattern.c | 3,458 | 08/19/2009 16:31 | -a-- |
| udf-mpc89.c | 3,324 | 08/24/2009 08:29 | -a-- |
| udf-mpc89-new-pattern.c | 3,455 | 08/27/2009 16:35 | -a-- |

11,748,212 k in 12 files

[Thermal\computer files\HI-TRAC\VACUUM DRYING\GAMBIT]

| | | | |
|------------------|-------------|------------------|------|
| MPC37-VACDRY.db | 97,820,672 | 08/06/2009 15:33 | -a-- |
| MPC37-VACDRY.msh | 85,996,753 | 08/07/2009 08:45 | -a-- |
| MPC89-VACDRY.db | 478,859,264 | 08/21/2009 17:12 | -a-- |
| MPC89-VACDRY.msh | 377,854,331 | 08/21/2009 17:21 | -a-- |

1,016,143 k in 4 files

AFFIDAVIT PURSUANT TO 10 CFR 2.390

I, Tammy S. Morin, being duly sworn, depose and state as follows:

- (1) I have reviewed the information described in paragraph (2) which is sought to be withheld, and am authorized to apply for its withholding.
- (2) The information sought to be withheld is information provided in Enclosures 1 through 9 to Holtec letter Document ID 5018008. These enclosures contain Holtec proprietary information.
- (3) In making this application for withholding of proprietary information of which it is the owner, Holtec International relies upon the exemption from disclosure set forth in the Freedom of Information Act ("FOIA"), 5 USC Sec. 552(b)(4) and the Trade Secrets Act, 18 USC Sec. 1905, and NRC regulations 10CFR Part 9.17(a)(4), 2.390(a)(4), and 2.390(b)(1) for "trade secrets and commercial or financial information obtained from a person and privileged or confidential" (Exemption 4). The material for which exemption from disclosure is here sought is all "confidential commercial information", and some portions also qualify under the narrower definition of "trade secret", within the meanings assigned to those terms for purposes of FOIA Exemption 4 in, respectively, Critical Mass Energy Project v. Nuclear Regulatory Commission, 975F2d871 (DC Cir. 1992), and Public Citizen Health Research Group v. FDA, 704F2d1280 (DC Cir. 1983).

AFFIDAVIT PURSUANT TO 10 CFR 2.390

- (4) Some examples of categories of information which fit into the definition of proprietary information are:
- a. Information that discloses a process, method, or apparatus, including supporting data and analyses, where prevention of its use by Holtec's competitors without license from Holtec International constitutes a competitive economic advantage over other companies;
 - b. Information which, if used by a competitor, would reduce his expenditure of resources or improve his competitive position in the design, manufacture, shipment, installation, assurance of quality, or licensing of a similar product.
 - c. Information which reveals cost or price information, production, capacities, budget levels, or commercial strategies of Holtec International, its customers, or its suppliers;
 - d. Information which reveals aspects of past, present, or future Holtec International customer-funded development plans and programs of potential commercial value to Holtec International;
 - e. Information which discloses patentable subject matter for which it may be desirable to obtain patent protection.

The information sought to be withheld is considered to be proprietary for the reasons set forth in paragraphs 4.a, 4.b, and 4.e above.

- (5) The information sought to be withheld is being submitted to the NRC in confidence. The information (including that compiled from many sources) is of a sort customarily held in confidence by Holtec International, and is in fact so held. The information sought to be withheld has, to the best of my knowledge and belief, consistently been held in confidence by Holtec International. No public disclosure has been made, and it is not available in public sources. All disclosures to third parties, including any required transmittals to the NRC, have

AFFIDAVIT PURSUANT TO 10 CFR 2.390

been made, or must be made, pursuant to regulatory provisions or proprietary agreements which provide for maintenance of the information in confidence. Its initial designation as proprietary information, and the subsequent steps taken to prevent its unauthorized disclosure, are as set forth in paragraphs (6) and (7) following.

- (6) Initial approval of proprietary treatment of a document is made by the manager of the originating component, the person most likely to be acquainted with the value and sensitivity of the information in relation to industry knowledge. Access to such documents within Holtec International is limited on a "need to know" basis.
- (7) The procedure for approval of external release of such a document typically requires review by the staff manager, project manager, principal scientist or other equivalent authority, by the manager of the cognizant marketing function (or his designee), and by the Legal Operation, for technical content, competitive effect, and determination of the accuracy of the proprietary designation. Disclosures outside Holtec International are limited to regulatory bodies, customers, and potential customers, and their agents, suppliers, and licensees, and others with a legitimate need for the information, and then only in accordance with appropriate regulatory provisions or proprietary agreements.
- (8) The information classified as proprietary was developed and compiled by Holtec International at a significant cost to Holtec International. This information is classified as proprietary because it contains detailed descriptions of analytical approaches and methodologies not available elsewhere. This information would provide other parties, including competitors, with information from Holtec International's technical database and the results of evaluations performed by Holtec International. A substantial effort has been expended by Holtec International to develop this information. Release of this information would improve a competitor's position because it would enable Holtec's competitor to copy our technology and offer it for sale in competition with our company, causing us financial injury.

AFFIDAVIT PURSUANT TO 10 CFR 2.390

- (9) Public disclosure of the information sought to be withheld is likely to cause substantial harm to Holtec International's competitive position and foreclose or reduce the availability of profit-making opportunities. The information is part of Holtec International's comprehensive spent fuel storage technology base, and its commercial value extends beyond the original development cost. The value of the technology base goes beyond the extensive physical database and analytical methodology, and includes development of the expertise to determine and apply the appropriate evaluation process.

The research, development, engineering, and analytical costs comprise a substantial investment of time and money by Holtec International.

The precise value of the expertise to devise an evaluation process and apply the correct analytical methodology is difficult to quantify, but it clearly is substantial.

Holtec International's competitive advantage will be lost if its competitors are able to use the results of the Holtec International experience to normalize or verify their own process or if they are able to claim an equivalent understanding by demonstrating that they can arrive at the same or similar conclusions.

The value of this information to Holtec International would be lost if the information were disclosed to the public. Making such information available to competitors without their having been required to undertake a similar expenditure of resources would unfairly provide competitors with a windfall, and deprive Holtec International of the opportunity to exercise its competitive advantage to seek an adequate return on its large investment in developing these very valuable analytical tools.

AFFIDAVIT PURSUANT TO 10 CFR 2.390

STATE OF NEW JERSEY)
) ss:
COUNTY OF BURLINGTON)

Ms. Tammy S. Morin, being duly sworn, deposes and says:

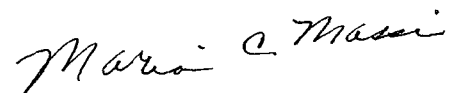
That she has read the foregoing affidavit and the matters stated therein are true and correct to the best of her knowledge, information, and belief.

Executed at Marlton, New Jersey, this 12th day of April, 2010.



Tammy S. Morin
Holtec International

Subscribed and sworn before me this 12th day of April, 2010.



MARIA C. MASSI
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires April 25, 2010