TSPA-SR GoldSim Model files.

NRC Contact: David Esh, NMSS/DWM/EPAB, (301) 415-6705

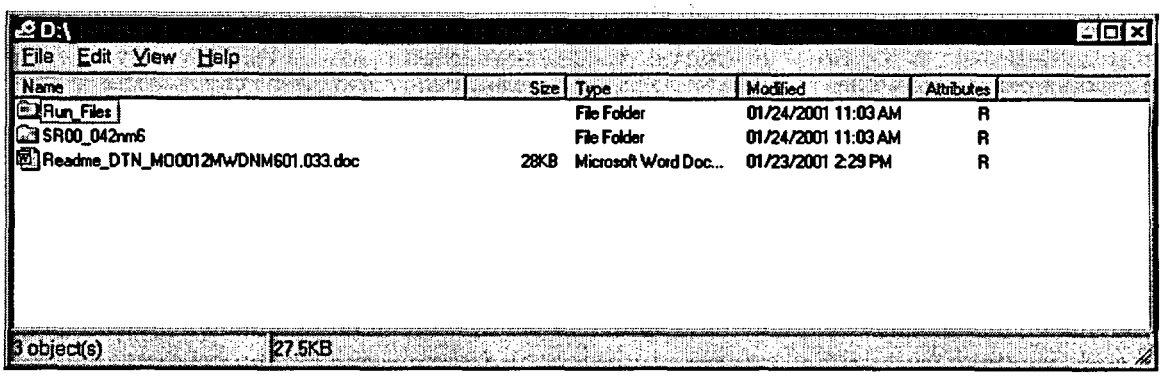
Description of CD Contents:
One CD containing a GoldSim model file and supporting files from simulations for TSPA-SR. Need GoldSim software package to open or otherwise use. Capture of screen images of CD contents follow. Printout of Readme_DTN_MO0012MWDNM601.033.doc follows.

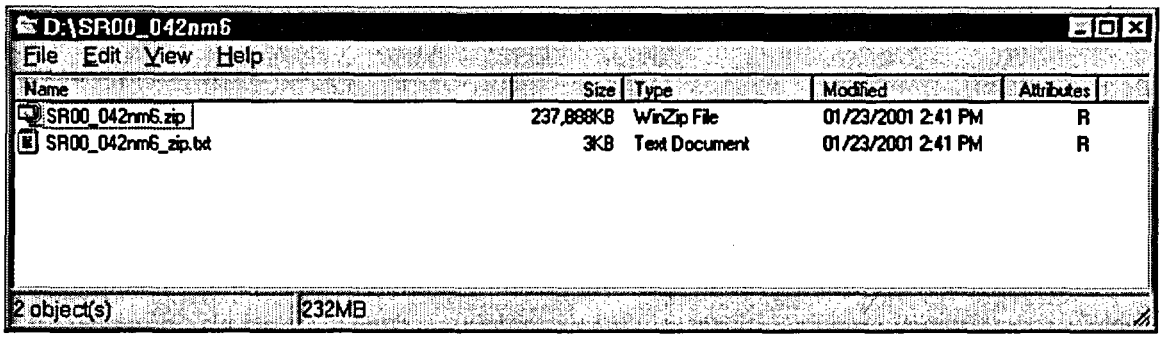
CD Label Information:

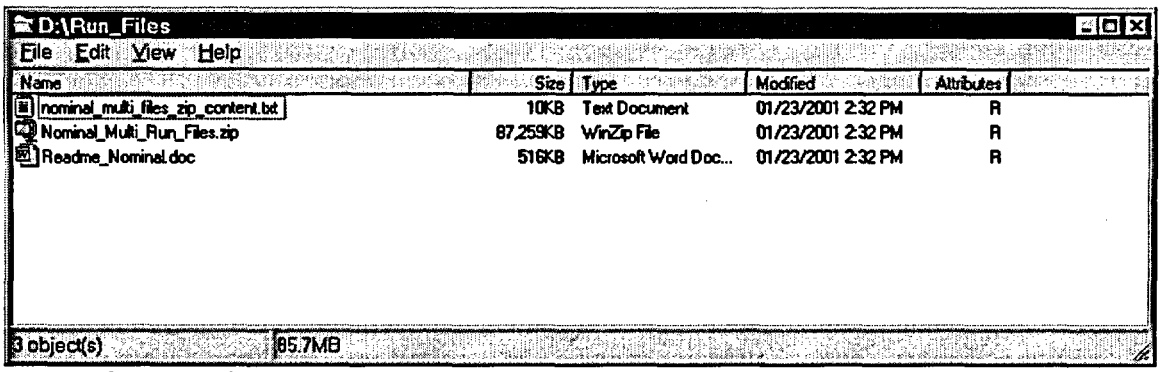
MO0012MWDNM601.033

Disk 1 of 1

TSPA_SR Model Case SR00_042nm6
Groundwater Protection Base Case
Nominal Scenario
No Backfill
300 Realizations
1,000,000 yrs







Contents for CD 1 of 1.

```
 Volume in drive J is TSPA_Storage(3)
 Volume Serial Number is 2020-07AD

 Directory of SR00_042nm6.zip

07/29/00  11:43a                 1,630 fm_pchm1.dat
08/22/00  09:42a             2,030,069 ptrk.multrlz.0100
08/22/00  09:43a             2,030,063 ptrk.multrlz.0200
08/22/00  09:48a             2,030,060 ptrk.multrlz.0300
10/31/00  03:46p           746,226,492 SR00_042nm6.gsm
08/24/00  09:13a             7,449,485 SZ_01_01
08/24/00  09:13a             7,449,485 SZ_01_02
08/24/00  09:13a             7,408,815 SZ_01_03
08/24/00  09:13a             7,408,815 SZ_01_04
08/24/00  09:13a             7,470,237 SZ_02_01
08/24/00  09:13a             7,470,237 SZ_02_02
08/24/00  09:14a             7,470,237 SZ_02_03
08/24/00  09:14a             7,470,237 SZ_02_04
08/24/00  09:14a            18,072,671 SZ_03_01
08/24/00  09:14a            18,072,671 SZ_03_02
08/24/00  09:14a            18,072,671 SZ_03_03
08/24/00  09:14a            18,072,671 SZ_03_04
08/24/00  09:14a             7,526,221 SZ_04_01
08/24/00  09:14a             7,526,221 SZ_04_02
08/24/00  09:14a             7,526,221 SZ_04_03
08/24/00  09:14a             7,526,221 SZ_04_04
08/24/00  09:15a            10,444,684 SZ_05_01
08/24/00  09:15a            10,444,684 SZ_05_02
08/24/00  09:15a            10,444,684 SZ_05_03
08/24/00  09:15a            10,444,684 SZ_05_04
08/24/00  09:15a             7,471,365 SZ_06_01
08/24/00  09:15a             7,471,365 SZ_06_02
08/24/00  09:15a             7,471,365 SZ_06_03
08/24/00  09:15a             7,471,365 SZ_06_04
08/24/00  09:15a             6,909,508 SZ_07_01
08/24/00  09:15a             6,468,507 SZ_07_02
08/24/00  09:15a             6,468,507 SZ_07_03
08/24/00  09:15a             6,468,507 SZ_07_04
08/24/00  09:15a            19,904,541 SZ_08_01
08/24/00  09:16a            20,071,877 SZ_08_02
08/24/00  09:16a            20,071,877 SZ_08_03
08/24/00  09:16a            20,071,877 SZ_08_04
08/24/00  03:01p                   401 sz_convolute2.dat
05/10/00  02:17p               176,012 UZ_Params_Multi.sr
```

Contents of Nominal_Multi_Run_Files.zip

01/05/00	11:39a	3,715	afm_pch1.dpdp
02/03/00	03:46p	473,088	ashdll.dll
03/13/00	08:36a	77	bf2.txt
03/13/00	08:36a	77	bf3.txt
03/13/00	08:36a	77	ch1.txt
03/13/00	08:36a	77	ch6.txt
03/13/00	08:36a	77	chv.txt
03/13/00	08:36a	77	chz.txt
01/11/00	01:01p	265,450	CSNF_bf_high_pf_bin2.dat
01/11/00	01:02p	1,856,578	CSNF_bf_high_pf_bin3.dat
01/11/00	01:01p	6,023,818	CSNF_bf_high_pf_bin4.dat
01/11/00	12:58p	3,656,068	CSNF_bf_high_pf_bin5.dat
01/11/00	01:26p	6,744,598	CSNF_bf_low_pf_bin1.dat
01/11/00	01:23p	4,673,647	CSNF_bf_low_pf_bin2.dat
05/18/00	11:48a	307,639	CSNF_bf_mean_pf_bin1.dat
05/18/00	11:48a	1,332,229	CSNF_bf_mean_pf_bin2.dat
05/18/00	11:49a	2,547,100	CSNF_bf_mean_pf_bin3.dat
05/18/00	11:50a	4,889,020	CSNF_bf_mean_pf_bin4.dat
05/18/00	11:50a	44,173	CSNF_bf_mean_pf_bin5.dat
05/17/00	10:07a	59,958	CSNF_nbf_high_pf_bin2.dat
05/17/00	10:08a	405,342	CSNF_nbf_high_pf_bin3.dat
05/17/00	10:08a	1,339,158	CSNF_nbf_high_pf_bin4.dat
05/17/00	10:09a	797,630	CSNF_nbf_high_pf_bin5.dat
05/17/00	10:13a	1,539,566	CSNF_nbf_low_pf_bin1.dat
05/17/00	10:14a	1,061,998	CSNF_nbf_low_pf_bin2.dat
05/17/00	10:14a	17,318	CSNF_nbf_mean_pf_bin1.dat
05/17/00	10:14a	435,190	CSNF_nbf_mean_pf_bin2.dat
05/17/00	10:15a	725,142	CSNF_nbf_mean_pf_bin3.dat
05/17/00	10:16a	1,411,646	CSNF_nbf_mean_pf_bin4.dat
05/17/00	10:16a	13,054	CSNF_nbf_mean_pf_bin5.dat
05/25/00	11:14a	4,106	debug4.txt
09/29/00	03:40p	7,404	dir.txt
02/15/00	08:48p	291	fehmn.files
03/03/00	09:40a	1,277	fehmn.gold
03/03/00	09:40a	1,277	fehmn.gold.multi
05/04/00	07:24p	688	fehmn_real.bat
05/26/00	06:39a	4,714,496	fehmn_sr.dll
05/04/00	07:24p	2,236	fehmn_ts0.bat
10/11/99	05:05p	15,937,540	ff0100.ini
10/11/99	05:06p	15,937,540	ff0200.ini
10/11/99	07:55p	15,937,540	ff0300.ini
10/14/99	08:40p	15,938,094	ff1100.ini
10/14/99	08:43p	15,938,094	ff1200.ini
10/14/99	08:43p	15,938,094	ff1300.ini
10/14/99	08:45p	15,938,094	ff2100.ini
10/14/99	08:46p	15,938,094	ff2200.ini
10/14/99	08:47p	15,938,094	ff2300.ini
06/24/00	03:28p	433	File_Copy.bat
05/04/00	04:42p	2,528,722	fm_pchm1.chk
06/01/00	09:46a	1,622	fm_pchm1.dat
05/04/00	04:42p	3,908,630	fm_pchm1.fin
01/04/00	09:20a	2,335,583	fm_pchm1.grid
05/04/00	04:51p	96,157	fm_pchm1.his
01/04/00	09:20a	29,301,805	fm_pchm1.stor

```
05/04/00  04:51p              14,837 fm_pchm1.trc
01/04/00  09:19a             980,781 fm_pchm1.zone
03/03/00  10:12a           1,082,426 fm_pchm1.zone2
03/03/00  10:12a           1,082,424 fm_pchm1.zone2.0100
03/03/00  10:12a           1,082,426 fm_pchm1.zone2.0200
03/03/00  10:12a           1,082,424 fm_pchm1.zone2.0300
04/26/00  11:00a             271,872 GVP.dll
01/11/00  01:21p             265,450 HLW_bf_high_pf_bin2.dat
01/11/00  01:21p           1,856,578 HLW_bf_high_pf_bin3.dat
01/11/00  01:20p           6,023,818 HLW_bf_high_pf_bin4.dat
01/11/00  01:18p           3,656,068 HLW_bf_high_pf_bin5.dat
01/11/00  01:32p           6,744,598 HLW_bf_low_pf_bin1.dat
01/11/00  01:29p           4,673,647 HLW_bf_low_pf_bin2.dat
05/18/00  11:51a             307,639 HLW_bf_mean_pf_bin1.dat
05/18/00  12:26p           1,332,229 HLW_bf_mean_pf_bin2.dat
05/18/00  12:27p           2,547,100 HLW_bf_mean_pf_bin3.dat
05/18/00  12:28p           4,889,020 HLW_bf_mean_pf_bin4.dat
05/18/00  12:28p              44,173 HLW_bf_mean_pf_bin5.dat
05/17/00  10:16a              59,958 HLW_nbf_high_pf_bin2.dat
05/17/00  10:17a             405,342 HLW_nbf_high_pf_bin3.dat
05/17/00  10:17a           1,339,158 HLW_nbf_high_pf_bin4.dat
05/17/00  10:17a             797,630 HLW_nbf_high_pf_bin5.dat
05/17/00  10:18a           1,539,566 HLW_nbf_low_pf_bin1.dat
05/17/00  10:19a           1,061,998 HLW_nbf_low_pf_bin2.dat
05/17/00  10:19a              17,318 HLW_nbf_mean_pf_bin1.dat
05/17/00  10:19a             435,190 HLW_nbf_mean_pf_bin2.dat
05/17/00  10:20a             725,142 HLW_nbf_mean_pf_bin3.dat
05/17/00  10:20a           1,411,646 HLW_nbf_mean_pf_bin4.dat
05/17/00  10:20a              13,054 HLW_nbf_mean_pf_bin5.dat
05/17/00  09:38a                 617 master_bf.in
05/17/00  09:39a                 639 master_nbf.in
04/26/00  12:50p             388,608 MFD.dll
06/24/00  03:32p                 228 Network_File_Delete.bat
01/04/00  09:22a               3,349 pch1.rock
03/13/00  08:36a                  77 pp1.txt
03/13/00  08:36a                  77 pp2.txt
03/13/00  08:36a                  77 pp3.txt
03/13/00  08:36a                  77 pp4.txt
05/17/00  12:51p           2,011,054 ptrk.multrlz
05/26/00  03:15p           2,011,157 ptrk.multrlz.0100
05/26/00  03:16p           2,011,151 ptrk.multrlz.0200
05/26/00  03:18p           2,011,148 ptrk.multrlz.0300
04/06/00  01:06p             438,784 SCCD.dll
05/17/00  10:04a             364,611 seepagedllv2.dll
01/17/00  11:49a                 395 SeepFlowMean.dat
01/17/00  11:52a                 388 SeepFlowSD.dat
01/17/00  11:54a                 337 SeepFrac.dat
05/19/00  12:30p                 880 seep_debug.dat
05/04/00  04:41p             284,440 seep_output.dat
04/28/00  11:38a             262,201 soilexp.dll
03/17/00  08:52a             455,680 szconv_sr.dll
01/28/00  03:15p           7,454,385 SZ_01_01
01/28/00  03:15p           7,454,385 SZ_01_02
01/28/00  03:15p           7,413,715 SZ_01_03
01/28/00  03:15p           7,413,715 SZ_01_04
01/28/00  03:16p           7,475,137 SZ_02_01
01/28/00  03:16p           7,475,137 SZ_02_02
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01/28/00  03:16p             7,475,137 SZ_02_03
01/28/00  03:16p             7,475,137 SZ_02_04
04/12/00  09:31a            16,447,812 SZ_03_01
04/12/00  09:40a            16,447,812 SZ_03_02
04/12/00  09:45a            16,447,812 SZ_03_03
04/12/00  09:49a            16,447,812 SZ_03_04
03/08/00  02:31p             7,531,121 SZ_04_01
03/08/00  02:32p             7,531,121 SZ_04_02
03/08/00  02:36p             7,531,121 SZ_04_03
03/08/00  02:36p             7,531,121 SZ_04_04
01/28/00  03:20p            10,449,584 SZ_05_01
01/28/00  03:20p            10,625,985 SZ_05_02
01/28/00  03:20p             9,743,980 SZ_05_03
01/28/00  03:20p             9,743,980 SZ_05_04
01/28/00  03:21p             7,476,265 SZ_06_01
01/28/00  03:21p             7,476,265 SZ_06_02
01/28/00  03:21p             7,476,265 SZ_06_03
01/28/00  03:21p             7,476,265 SZ_06_04
04/12/00  11:44a             6,963,312 SZ_07_01
04/12/00  11:44a             6,963,312 SZ_07_02
04/12/00  11:45a             6,963,312 SZ_07_03
04/12/00  11:45a             6,963,312 SZ_07_04
01/28/00  03:17p            19,909,441 SZ_08_01
01/28/00  03:17p            20,076,777 SZ_08_02
01/28/00  03:17p            20,076,777 SZ_08_03
01/28/00  03:17p            20,076,777 SZ_08_04
06/15/00  02:23p                   382 sz_convolute2.dat
03/13/00  08:37a                    77 tsw4.txt
03/13/00  08:37a                    77 tsw5.txt
03/13/00  08:37a                    77 tsw6.txt
03/13/00  08:37a                    77 tsw7.txt
03/13/00  08:37a                    77 tsw8.txt
03/13/00  08:37a                    77 tsw9.txt
05/01/00  08:25a                79,304 UZ_Params_Multi.sr
05/26/00  08:56a               778,752 wapdeg.dll
05/25/00  11:13a                41,999 WD4DLL.ina
05/04/00  04:42p               782,594 WD4DLL.oua
05/04/00  04:42p                30,430 WD4DLL.out
05/25/00  11:03a                   363 WD4DLL.wap
05/25/00  11:13a                 9,119 WDdA22SR00.cdf
05/25/00  11:13a                 9,119 WDdA22x0p5.cdf
05/25/00  11:13a                 9,119 WDdA22x2p5.cdf
05/25/00  11:13a                 9,119 WDdTi7Sr00.cdf
05/12/00  10:13a                12,524 WDgA22SR00.cdf
05/12/00  10:13a                12,524 WDgA22x0p5.cdf
05/12/00  10:13a                12,524 WDgA22x2p5.cdf
05/24/00  11:27a                12,526 WDgTi7SR00.cdf
02/16/00  07:59a               304,964 WDHLW_high_bin2.ou
05/17/00  11:40a               355,504 WDHLW_nbf_high_bin2.ou
05/25/00  11:13a                 9,119 WDiA22x2p5.cdf
01/14/00  01:06p                 1,436 WDKIinM.fil
01/14/00  08:26p                 1,439 WDKIinO.fil
05/25/00  11:13a                13,458 WDKISCCM.fil
05/25/00  11:13a                13,458 WDKISCCO.fil
11/24/99  02:55p                   775 WDMFDND.cdf
05/25/00  11:13a                 4,732 WDMFDNDM.cdf
05/25/00  11:13a                 5,112 WDMFDNDO.cdf
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05/25/00  11:13a                10,329 WDMFDSizeM.cdf
05/25/00  11:13a                10,329 WDMFDSizeO.cdf
01/17/00  09:36a                 1,463 WDndTi.cdf
05/25/00  11:13a                 9,119 WDndTi7SR00.cdf
02/24/00  06:24p                   411 WDRHcrit.fil
05/25/00  11:13a                13,448 WDStressM.fil
05/25/00  11:13a                13,448 WDStressO.fil
             177 File(s)    619,542,478 bytes
                         28,067,717,120 bytes free
```

Title

Nominal 1,000,000-Year Base Case
Contained in TDR-WIS-PA-000001 REV 00 ICN 01, Figure 4.1-19
Nominal Scenario, 1,000,000 years, no backfill. Constant glacial transition climate after 2,000 years.

Contents of DTN MO0012MWDNM601.033

12/07/00 02:47p <DIR> Run_Files
12/07/00 02:46p <DIR> SR00_042nm6

Description of individual model files:

Run Number	Run Name	Scenario	Description
SR00_042nm6	300 Realization 1,000,000-Year Base Case,.with Groundwater Protection Results	Nominal	300 realizations 1e6, additional radionuclides transported through FEHM (^{230}Th and ^{232}Th) for groundwater protection; additional nuclides included in dose (^{230}Th, ^{226}Ra, ^{210}Pb); total Ra conc. in groundwater; gross alpha activity in groundwater; additional biosphere dose conversion factors (BDCFs) required; Fixed several errata: Set FEHM PTRK file to decay w/ingrowth for ^{230}Th, rather then just simple decay of ^{234}U. Used new SZ curves to eliminate mass generation in the SZ for select RNs over several realizations. Fixed units for Pu242 BDCF.

Details

Model results/output can be viewed and exported using just the .gsm input file and the GoldSim code. Additional information supplied in CRWMS M&O 2000, *Total System Performance Assessment (TSPA) Model for Site Recommendation,* MDL-WIS-PA-000002 REV 00 (DIRS# 148384)

- Software used -

GoldSim Version 6.04.007, STN 10344-6.04.007-00
WAPDEG Version 4.0, STN 10000-4.0-00

SZ_Convolute Version 2.0, STN 10207-2.0-00
ASHPLUME Version 1.4LV-dll, STN 10022-1.4LV-dll-00
FEHM Version 2.10, STN 10086-2.10-00
GVP Version 1.02, STN 10341-1.02-00
MFD Version 1.01, STN 10342-1.01-00
SCCD Version 2.0, STN 10343-2.0-00
SEEPDLL Version 1.0, Software Routine documented in Attachment II of MDL-WIS-PA-000002 REV 00
SOILEXP Version 1.0, Software Routine documented in Attachment III of MDL-WIS-PA-000002 REV 00

- Model Constraints -

Multi-realization model runs should be performed on Windows NT 4.0 OS (Service Pack 4 or higher)

- Model Limitations -

Model valid for 0 to 1,000,000 year simulations.
Model results are valid within the range of model input detailed within:

- CRWMS M&O 2000, *Total System Performance Assessment for the Site Recommendation*, TDR-WIS-PA-000001 REV 00 ICN 01 (ACC: MOL.20001220.0045, DIRS# 153246); and
- CRWMS M&O 2000, *Total System Performance Assessment (TSPA) Model for Site Recommendation*, MDL-WIS-PA-000002 REV 00 (DIRS# 148384), and the associated supporting AMRs.

Method for re-running a model case

The Run_Files directory contains all the basic supporting files necessary to run the TSPA_SR Goldsim model (*.gsm file) for the number of realizations indicated for the particular case. For certain cases, it may have been necessary to replace one or more of these supporting files to complete the desired sensitivity or base case run. For each model case (i.e., in each SR00_****** directory), any supporting files that were modified from their original state were placed into the SR00_******.zip archive along with the .gsm file. In order to re-run such a model case, these files should be used instead of the original ones found in the *Run_Files.zip archive. As an example, 300 realizations requires a UZ_Params_Multi.sr file with 300 sampled values, whereas the *Run_Files.zip archive contains the basic supporting file UZ_Params_Multi.sr with only 100 sampled values.

Therefore, in order to run the model, you need to:

1) unzip the *Run_Files.zip archive

2) Next, unzip the zip archive found within the SR00_****** model file directory (this archive contains the .gsm file and any specific files that are necessary to run the model), in the SAME DIRECTORY as you unzipped the Run Files.

Note about step 2:

a) any files zipped with the model file should be used to OVERWRITE the files with the same name obtained from the *Run_Files.zip archive.

b) If no additional files are contained within model file zip archive (only the .gsm file exists), then you will not overwrite any of the files obtained from the *Run_Files.zip archive.

Support files required for the Nominal Scenario, Multiple Realizations

Date	Time	File size	File name	Description
			Seepage files	
5/17/00	11:04a	364,611	seepagedllv2.dll	seepage DLL
1/11/00	02:01p	265,450	CSNF_bf_high_pf_bin2.dat	Seepage DLL input files for the thermohydrology, for civil spent nuclear fuel, in the backfill case
1/11/00	02:02p	1,856,578	CSNF_bf_high_pf_bin3.dat	
1/11/00	02:01p	6,023,818	CSNF_bf_high_pf_bin4.dat	
1/11/00	01:58p	3,656,068	CSNF_bf_high_pf_bin5.dat	
1/11/00	02:26p	6,744,598	CSNF_bf_low_pf_bin1.dat	
1/11/00	02:23p	4,673,647	CSNF_bf_low_pf_bin2.dat	
5/18/00	12:48p	307,639	CSNF_bf_mean_pf_bin1.dat	
5/18/00	12:48p	1,332,229	CSNF_bf_mean_pf_bin2.dat	
5/18/00	12:49p	2,547,100	CSNF_bf_mean_pf_bin3.dat	
5/18/00	12:50p	4,889,020	CSNF_bf_mean_pf_bin4.dat	
5/18/00	12:50p	44,173	CSNF_bf_mean_pf_bin5.dat	
5/17/00	11:07a	59,958	CSNF_nbf_high_pf_bin2.dat	Seepage DLL input files for the thermohydrology, for civil spent nuclear fuel, in the no-backfill case
5/17/00	11:08a	405,342	CSNF_nbf_high_pf_bin3.dat	
5/17/00	11:08a	1,339,158	CSNF_nbf_high_pf_bin4.dat	
5/17/00	11:09a	797,630	CSNF_nbf_high_pf_bin5.dat	
5/17/00	11:13a	1,539,566	CSNF_nbf_low_pf_bin1.dat	
5/17/00	11:14a	1,061,998	CSNF_nbf_low_pf_bin2.dat	
5/17/00	11:14a	17,318	CSNF_nbf_mean_pf_bin1.dat	
5/17/00	11:14a	435,190	CSNF_nbf_mean_pf_bin2.dat	
5/17/00	11:15a	725,142	CSNF_nbf_mean_pf_bin3.dat	
5/17/00	11:16a	1,411,646	CSNF_nbf_mean_pf_bin4.dat	
5/17/00	11:16a	13,054	CSNF_nbf_mean_pf_bin5.dat	
1/11/00	02:21p	265,450	HLW_bf_high_pf_bin2.dat	Seepage DLL input files for thermal hydrology, for high level waste, in the backfill case
1/11/00	02:21p	1,856,578	HLW_bf_high_pf_bin3.dat	
1/11/00	02:20p	6,023,818	HLW_bf_high_pf_bin4.dat	
1/11/00	02:18p	3,656,068	HLW_bf_high_pf_bin5.dat	
1/11/00	02:32p	6,744,598	HLW_bf_low_pf_bin1.dat	
1/11/00	02:29p	4,673,647	HLW_bf_low_pf_bin2.dat	
5/18/00	12:51p	307,639	HLW_bf_mean_pf_bin1.dat	
5/18/00	01:26p	1,332,229	HLW_bf_mean_pf_bin2.dat	
5/18/00	01:27p	2,547,100	HLW_bf_mean_pf_bin3.dat	
5/18/00	01:28p	4,889,020	HLW_bf_mean_pf_bin4.dat	
5/18/00	01:28p	44,173	HLW_bf_mean_pf_bin5.dat	
5/17/00	11:16a	59,958	HLW_nbf_high_pf_bin2.dat	Seepage DLL input files for thermal hydrology, for high level waste, in the no-backfill case
5/17/00	11:17a	405,342	HLW_nbf_high_pf_bin3.dat	
5/17/00	11:17a	1,339,158	HLW_nbf_high_pf_bin4.dat	
5/17/00	11:17a	797,630	HLW_nbf_high_pf_bin5.dat	
5/17/00	11:18a	1,539,566	HLW_nbf_low_pf_bin1.dat	
5/17/00	11:19a	1,061,998	HLW_nbf_low_pf_bin2.dat	
5/17/00	11:19a	17,318	HLW_nbf_mean_pf_bin1.dat	
5/17/00	11:19a	435,190	HLW_nbf_mean_pf_bin2.dat	
5/17/00	11:20a	725,142	HLW_nbf_mean_pf_bin3.dat	
5/17/00	11:20a	1,411,646	HLW_nbf_mean_pf_bin4.dat	

5/17/00	11:20a	13,054	HLW_nbf_mean_pf_bin5.dat	
5/17/00	10:38a	617	master_bf.in	Seepage DLL input files for thermal hydrology
5/17/00	10:39a	639	master_nbf.in	
1/17/00	12:49p	395	SeepFlowMean.dat	
1/17/00	12:52p	388	SeepFlowSD.dat	
1/17/00	12:54p	337	SeepFrac.dat	
5/19/00	01:30p	880	seep_debug.dat	Seepage DLL output files
5/4/00	05:41p	284,440	seep_output.dat	
WAPDEG files				
5/26/00	09:56a	778,752	wapdeg.dll	the waste package degradation (WAPDEG) DLL
4/26/00	12:00p	271,872	GVP.dll	gaussian variance partitioning DLL, supporting WAPDEG
4/26/00	01:50p	388,608	MFD.dll	manufacturing defect DLL, supporting WAPDEG
4/6/00	02:06p	438,784	SCCD.dll	stress corrosion cracking DLL, supporting WAPDEG
5/25/00	12:14p	4,106	debug4.txt	WAPDEG run log
5/25/00	12:13p	41,999	WD4DLL.ina	WAPDEG model files
5/4/00	05:42p	782,594	WD4DLL.oua	
5/4/00	05:42p	30,430	WD4DLL.out	
5/25/00	12:03p	363	WD4DLL.wap	
5/25/00	12:13p	9,119	WDdA22SR00.cdf	
5/25/00	12:13p	9,119	WDdA22x0p5.cdf	
5/25/00	12:13p	9,119	WDdA22x2p5.cdf	
5/25/00	12:13p	9,119	WDdTi7Sr00.cdf	
5/12/00	11:13a	12,524	WDgA22SR00.cdf	
5/12/00	11:13a	12,524	WDgA22x0p5.cdf	
5/12/00	11:13a	12,524	WDgA22x2p5.cdf	
5/24/00	12:27p	12,526	WDgTi7SR00.cdf	
2/16/00	08:59a	304,964	WDHLW_high_bin2.ou	
5/17/00	12:40p	355,504	WDHLW_nbf_high_bin2.ou	
5/25/00	12:13p	9,119	WDiA22x2p5.cdf	
1/14/00	02:06p	1,436	WDKlinM.fil	
1/14/00	09:26p	1,439	WDKlinO.fil	
5/25/00	12:13p	13,458	WDKISCCM.fil	
5/25/00	12:13p	13,458	WDKISCCO.fil	
11/24/99	03:55p	775	WDMFDND.cdf	
5/25/00	12:13p	4,732	WDMFDNDM.cdf	
5/25/00	12:13p	5,112	WDMFDNDO.cdf	
5/25/00	12:13p	10,329	WDMFDSizeM.cdf	
5/25/00	12:13p	10,329	WDMFDSizeO.cdf	
1/17/00	10:36a	1,463	WDndTi.cdf	
5/25/00	12:13p	9,119	WDndTi7SR00.cdf	
2/24/00	07:24p	411	WDRHcrit.fil	
5/25/00	12:13p	13,448	WDStressM.fil	
5/25/00	12:13p	13,448	WDStressO.fil	
FEHMN files				

5/26/00	07:39a	4,714,496	fehmn_sr.dll	FEHMN DLL
1/5/00	12:39p	3,715	afm_pch1.dpdp	FEHMN input files
3/13/00	09:36a	77	bf2.txt	
3/13/00	09:36a	77	bf3.txt	
3/13/00	09:36a	77	ch1.txt	
3/13/00	09:36a	77	ch6.txt	
3/13/00	09:36a	77	chv.txt	
3/13/00	09:36a	77	chz.txt	
2/15/00	09:48p	291	fehmn.files	
3/3/00	10:40a	1,277	fehmn.gold	
3/3/00	10:40a	1,277	fehmn.gold.multi	
5/4/00	05:42p	2,528,722	fm_pchm1.chk	
6/1/00	10:46a	1,622	fm_pchm1.dat	
5/4/00	05:42p	3,908,630	fm_pchm1.fin	
1/4/00	10:20a	2,335,583	fm_pchm1.grid	
5/4/00	05:51p	96,157	fm_pchm1.his	
1/4/00	10:20a	29,301,805	fm_pchm1.stor	
5/4/00	05:51p	14,837	fm_pchm1.trc	
1/4/00	10:22a	3,349	pch1.rock	
3/13/00	09:36a	77	pp1.txt	
3/13/00	09:36a	77	pp2.txt	
3/13/00	09:36a	77	pp3.txt	
3/13/00	09:36a	77	pp4.txt	
3/13/00	09:37a	77	tsw4.txt	
3/13/00	09:37a	77	tsw5.txt	
3/13/00	09:37a	77	tsw6.txt	
3/13/00	09:37a	77	tsw7.txt	
3/13/00	09:37a	77	tsw8.txt	
3/13/00	09:37a	77	tsw9.txt	
10/11/99	06:05p	15,937,540	ff0100.ini	Flow field input files
10/11/99	06:06p	15,937,540	ff0200.ini	
10/11/99	08:55p	15,937,540	ff0300.ini	
10/14/99	09:40p	15,938,094	ff1100.ini	
10/14/99	09:43p	15,938,094	ff1200.ini	
10/14/99	09:43p	15,938,094	ff1300.ini	
10/14/99	09:45p	15,938,094	ff2100.ini	
10/14/99	09:46p	15,938,094	ff2200.ini	
10/14/99	09:47p	15,938,094	ff2300.ini	
1/4/00	10:19a	980,781	fm_pchm1.zone	Input zone files for the FEHMN DLL
3/3/00	11:12a	1,082,426	fm_pchm1.zone2	
3/3/00	11:12a	1,082,424	fm_pchm1.zone2.0100	
3/3/00	11:12a	1,082,426	fm_pchm1.zone2.0200	
3/3/00	11:12a	1,082,424	fm_pchm1.zone2.0300	
5/17/00	01:51p	2,011,054	ptrk.multrlz	FEHMN particle tracking files
5/26/00	04:15p	2,011,157	ptrk.multrlz.0100	
5/26/00	04:16p	2,011,151	ptrk.multrlz.0200	
5/26/00	04:18p	2,011,148	ptrk.multrlz.0300	

5/1/00	09:25a	79,304	UZ_Params_Multi.sr	input file containing the unsaturated zone transport parameters
5/4/00	08:24p	688	fehmn_real.bat	batch file
5/4/00	08:24p	2,236	fehmn_ts0.bat	
SZ files				
3/17/00	09:52a	455,680	szconv_sr.dll	saturated zone (SZ) convolution DLL
1/28/00	04:15p	7,454,385	SZ_01_01	Saturated zone breakthrough curves input files
1/28/00	04:15p	7,454,385	SZ_01_02	
1/28/00	04:15p	7,413,715	SZ_01_03	
1/28/00	04:15p	7,413,715	SZ_01_04	
1/28/00	04:16p	7,475,137	SZ_02_01	
1/28/00	04:16p	7,475,137	SZ_02_02	
1/28/00	04:16p	7,475,137	SZ_02_03	
1/28/00	04:16p	7,475,137	SZ_02_04	
4/12/00	10:31a	16,447,812	SZ_03_01	
4/12/00	10:40a	16,447,812	SZ_03_02	
4/12/00	10:45a	16,447,812	SZ_03_03	
4/12/00	10:49a	16,447,812	SZ_03_04	
3/8/00	03:31p	7,531,121	SZ_04_01	
3/8/00	03:32p	7,531,121	SZ_04_02	
3/8/00	03:36p	7,531,121	SZ_04_03	
3/8/00	03:36p	7,531,121	SZ_04_04	
1/28/00	04:20p	10,449,584	SZ_05_01	
1/28/00	04:20p	10,625,985	SZ_05_02	
1/28/00	04:20p	9,743,980	SZ_05_03	
1/28/00	04:20p	9,743,980	SZ_05_04	
1/28/00	04:21p	7,476,265	SZ_06_01	
1/28/00	04:21p	7,476,265	SZ_06_02	
1/28/00	04:21p	7,476,265	SZ_06_03	
1/28/00	04:21p	7,476,265	SZ_06_04	
4/12/00	12:44p	6,963,312	SZ_07_01	
4/12/00	12:44p	6,963,312	SZ_07_02	
4/12/00	12:45p	6,963,312	SZ_07_03	
4/12/00	12:45p	6,963,312	SZ_07_04	
1/28/00	04:17p	19,909,441	SZ_08_01	
1/28/00	04:17p	20,076,777	SZ_08_02	
1/28/00	04:17p	20,076,777	SZ_08_03	
1/28/00	04:17p	20,076,777	SZ_08_04	
6/15/00	03:23p	382	sz_convolute2.dat	saturated zone convolution output file
Other files				
2/3/00	04:46p	473,088	ashdll.dll	ashplume DLL
4/28/00	12:38p	262,201	soilexp.dll	soil removal factor DLL