Interoffice Correspondence
Civilian Radioactive Waste Management System
Management & Operating Contractor

TRW

TRW Environmental Safety Systems Inc.

INFORMATION ONLY

QA: N/A

Subject	Date	From
Input Files and Models Used in the Waste Quantity, Mix and Throughput Study	March 21, 1997 VA.SAI.MF.03/97.007	M. Fleming

MOL.19970811.1264

To	cc	Location/Phone
R. Bahney O. Lev	D.R. Gibson w/o attachment RPC	TES1/6500P (703) 204-8749

Attached is a 120MB tape cartridge created with a Colorado Trakker 250 tape drive, containing a copy of the input files and models used in generating the commercial SNF logistic data for the *Waste Quantity, Mix and Throughput Study*. In addition, there is a copy of the primary output of the fuel selection model (WSM) for use as input to your binning model. Table 1 identifies and describes the scenarios examined. A summary of the assumptions used in setting up the scenarios can be found in IOC VA.SAI.DRG.03/97.005.

Table 1. Commercial SNF Scenario Parameters

Case #	ISF		Pick Up		Total Acceptance		Unload Shutdown		Reactor Dry Storage		Shipment Mode from Reactor Pools	
	Yes	No	OFF	YFF10	63K	87K	Yes	No	DPC	SPC	To ISF	To MGDS
1	X			X	X		X		X		DPC	UCF
2	X			X	X			X		X	DPC-1st 2 yrs, UCF	UCF
3		X		X	X			X		X	N/A	DPC-1st 2 yrs, UCF
4		X		X	X			X		X	N/A	UCF
5	X		X		X		X		X		DPC	UCF
6	X		X		X			X		X	DPC-1st 2 yrs, UCF	UCF
7		X	X		X			X		X	N/A	DPC-1st 2 yrs, UCF
8		X	X		X			X		X	N/A	UCF
9	X			X		X	X		X		DPC	UCF
10		X		X		X		X		X	N/A	UCF
11	X		X			X	X		X		DPC	UCF
12		X	X			X		X		X	N/A	UCF

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Directory of \MF\WASTEQAN\WSM

Filename	Size	Creation Date & Time	
WSM35.EXE	357,375	10-20-95	2:21p
INT32.EXE	318,712	02-25-97	7:56a
BINASSEM.EXE	69,405	02-28-97	1:52p
HEATASSM.EXE	70,297	02-26-97	9:50a
HEATDCY.EXE	63,589	02-25-97	4:10p
GEN_INP.ZIP	210,648	03-19-97	10:40a
C1_INP.ZIP	58,417	03-19-97	10:32a
C2_INP.ZIP	58,142	03-19-97	10:33a
C3_INP.ZIP	58,392	03-19-97	10:34a
C4_INP.ZIP	58,389	03-19-97	10:34a
C5_INP.ZIP	58,417	03-19-97	10:35a
C6_INP.ZIP	58,190	03-19-97	10:35a
C7_INP.ZIP	58,392	03-19-97	10:36a
C8_INP.ZIP	58,389	03-19-97	10:37a
C9_INP.ZIP	58,393	03-19-97	10:38a
C10_INP.ZIP	58,396	03-19-97	10:38a
C11_INP.ZIP	58,409	03-19-97	10:39a
C12_INP.ZIP	58,396	03-19-97	10:39a
C1_WSM.ZIP	847,188	02-28-97	9:50a
C2_WSM.ZIP	768,927	02-28-97	9:51a
C3_WSM.ZIP	652,440	02-28-97	8:20p
C4_WSM.ZIP	650,737	02-28-97	9:52a
C5_WSM.ZIP	836,279	02-28-97	9:53a
C6_WSM.ZIP	757,807	02-28-97	9:54a
C7_WSM.ZIP	652,912	02-28-97	6:05p
C8_WSM.ZIP	650,663	02-28-97	9:55a
C9_WSM.ZIP	934,083	02-28-97	9:56a
C10_WSM.ZIP	773,687	02-28-97	9:57a
C11_WSM.ZIP	923,741	02-28-97	9:58a
C12_WSM.ZIP	769,288	02-28-97	9:59a
32 file(s)	11,008,100 bytes		

MODELS:

WSM35.EXE	Waste Stream Model, Version 3.5-Fuel Selection and containerization
INT32.EXE-	Interface Version 3.2-Transportation cask fleet size, reformatting of WSM output
BINASSEM.EXE	Selects waste package type for incoming fuel and generates statistical reports of emplaced fuel (minimum, maximum, standard deviations, mean) for heat and MTU
HEATASSM.EXE	Produces 1000 year integrated heat table grouped by waste package type
HEATDCY.EXE	Produces decay heat table grouped by waste package type

INPUT FILES:

GEN_INP.ZIP	Input files used by all scenarios (SNF discharge file, CDB based heat rate tables used in calculating decay and cumulative heat)

C#_INP.ZIP	Scenario specific input files (see *User's Guide, Waste Stream Model (WSM)* Version 3.3 Rev 4, A00000000-01717-2003-20014 Rev 4 and *User's Guide, Interface Code* Version 3.1, A00000000-01717-2001-20009 Rev 4 for descriptions)

OUTPUT FILES:

C#_WSM.ZIP	Primary output file produced by WSM containing a history from discharge to emplacement for each assembly