

5/13/99

1. NERL FAT/TOTAL 1 25 (0 TO 500MILES)
 NERL FAT/TOTAL 1 21 (0 TO 100MILES)
 TYPE1 OUT 029
 TYPE1 OUT 030

~~TYPE1 NUMBER 30~~

TYPE1 OUT 032 'CAN FAT/TOTAL' 1 25 (0 TO 500 MILES)

TYPE1 OUT 031 'CAN FAT/TOTAL' 1 21 (0 TO 100 MILES)

TYPE1 NUMBER 32

TYPE5 NUMBER 5

TYPE5 OUT 004 'L-EDU BODY' 1 21 (0 TO 100 MILES)
 TYPE5 OUT 005 'L-EDU BODY' 1 25 (0 TO 500 MILES)

Change EARLY1. INP to report results of

100 miles and 500 miles

EARLY2. INP
 atmos cc. inp
 chncl-n. inp
 METSue. INP
 SURSIT. INP
 1. OUT
 (a#l. wpd)

2/50

2. Change to 100 persons/mile²

$$\frac{100 \text{ persons}}{\text{mile}^2} \cdot \frac{1 \text{ mile}^2}{2.59 \text{ km}^2} = 38.61 \frac{\text{people}}{\text{km}^2}$$

POPFLG UNIFORM

IBEGIN 1

POPDEN 38.61 (100 PEOPLE PER SQUARE MILE)

→ EARLY 3. INP

armas 69. inp

chrnc 1 - n. inp

METSUR. INP

" "

2. OUT

3. Put the rest of the core into the spent fuel pool

Millennium 1
580 assemblies in core
173 assemblies in a discharge batch

Steps

1. Decay core to 5/1/87
2. Subtract spent fuel batch II on 5/1/87 to give activity in remaining 23 core on 5/1/87
3. Decay activity in remaining 23 core to 7/1/87 and 4/1/88
4. Add activity in remaining 23 core to 30, 90, 360 day spent fuel pool activities

30 day inventories \Rightarrow almost 76 inp
early 3 inp
direct in inp
MET SUR. INP
" "

90 day inventories \Rightarrow almost 70 inp } 70 out

1 year inventories \Rightarrow almost 70 inp } 70 out

Also, I checked the inventories in cores 76, 70, and 70 against my excel spreadsheet of 5/14/99.

4. Start FP release at 5 hours, }
 Start Evacuation at 2 hours }

In "deBult" timing, evacuation started at 2.4 hours and
 FP release started at 1 hour.

⇒ Keep evacuation starting at 2.4 hours,
 but change FP release start time to 5.4 hours.

Evacuation starts at 8500 sec

$$\text{FP release will start at } 8500 \text{ sec} + 3 \times 3600 \text{ sec} \\ = 19,300 \text{ sec.}$$

⇒ change PDECRY to 19,300 sec (in early)

amos 8b.inp

early 4.inp (same as early 3.inp)

chrc1-n.inp

METSUR.INP

" "

amos 8c.inp → 8c.out

amos 8d.inp → 8d.out

} 8B.out

5. Change release fractions for La and Co from 1×10^{-6} to 6×10^{-6}

admits 9 b. inp
 early 4. inp
 correct - n. inp
 METSUR. INP
 " "
 } 9 b. out

admits 9 c. inp \rightarrow 9 c. out
 admits 9 d. inp \rightarrow 9 d. out

6. Change fraction evacuating from .95 to .995

Change (in early)

1st EZWTFRAC001 from .95 to .995

2nd EZWTFRAC001 from .05 to .005

atmos 8b.inp	}	10b.out
early 5.inp		
chrc 1-n.inp		
METSUR.INP		
" "		

atmos 8c.inp	}	10c.out
early 5.inp		
chrc 1-n.inp		
METSUR.INP		
" "		

atmos 8d.inp	}	10d.out
early 5.inp		
chrc 1-n.inp		
METSUR.INP		
" "		